District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2307232497
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Enterprise Field Services, LLC	OGRID: 241602
Contact Name: Christopher Spore	Contact Telephone: 432-214-3264
Contact email: caspore@eprod.com	Incident # nAPP2307232497
Contact mailing address: PO Box 4324, Houston, TX 77210	

Location of Release Source

Latitude 32.817403 Longitude -103.401418
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Blue Bell #2	Site Type: Central Tank Battery
Date Release Discovered: 03/04/2023	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
L3	19	17S	36E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls): 40	Volume Recovered (bbls): 0
☐ Produced Water	Volume Released (bbls):	Volume Recovered (bbls):
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Human error during loading operations and overfilled tank trailer. Released crude flowed off the tank battery pad onto the pasture area.

Release volume determined through field measurements and verified from producer and offload LACT unit meter readings.

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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2307232497
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Unauthorized release of a volume, excluding gases, of 25 barrels or more.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Christopher Spore of Enterprise via telephone on 03/05/2023.	

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.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Christopher Spore
Title: Lead Field Environmental

Signature: Chris A Spore
Date: 05/22/2023

email: caspore@eprod.com
Telephone: 432-214-3264

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2307232497
District RP	
Facility ID	
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	N/A (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2307232497
District RP	
Facility ID	
Application ID	

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

Printed Name: Christopher Spore

Title: Lead Field Environmental

Signature: Christopher Spore

Date: 05/22/2023

email: caspore@eprod.com

Telephone: 432-214-3264

OCD Only

Received by: Jocelyn Harimon

Date: 06/20/2023

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2307232497
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

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Page 6

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2307232497
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Christopher Spore
Title: Lead Field Environmental

Signature: Christopher Spore
Date: 05/22/2023

email: caspore@eprod.com
Telephone: 432-214-3264

OCD Only

Received by: Jocelyn Harimon
Date: 06/20/2023

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

Closure Approved by: Nelson Velez
Date: 09/18/2023

Printed Name: Nelson Velez
Title: Environmental Specialist - Adv

ENSOLUM

CLOSURE REPORT

Property:

Blue Bell #2

S19, T17S, R36E
32.817403 N, 103.401418 W
Lea County, New Mexico
NMOCD Incident ID: nAPP2307232497

May 22, 2023
Ensolum Project No. 03B1226230

Prepared for:

Enterprise Field Services, LLC
PO Box 4324
Houston, TX 77210

Attn: Christopher Spore, P.G.

Prepared by:

Beaux Jennings
Senior Project Manager

Heather Holthaus
Senior Project Manager

ENSOLUM

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ENSOLUM

CLOSURE REPORT

Blue Bell #2

S19, T17S, R36E
32.817403 N, 103.401418 W
Lea County, New Mexico
NMOCD Incident ID: nAPP2307232497

Ensolum Project No. 03B1226230

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC (Enterprise)
Site Name:	Blue Bell #2
Location:	Section 19, Township 17 South, Range 36 East 32.817403 N, 103.401418 W Lea County, New Mexico
Property:	Enterprise Field Services, LLC
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On March 4, 2023, a crude oil release occurred due to an overfill of a transport truck as a result of human error. Approximately 40 barrels (bbls) of crude oil were released, contacting the ground surface impacting an area approximately 160 feet long by 10 feet wide, with 0 bbls recovered. Enterprise reported the release to the New Mexico EMNRD OCD via telephone on March 5, 2023, and followed up with a report through the online notice of release (NOR) form on March 8, 2023. The release was assigned Incident Number nAPP2307232497.

The **Topographic Map** depicting the location of the Site is included as **Figure 1**, and the **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

1.2 Project Objective

The primary objective of the closure activities was to reduce constituent of concern (COC) concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria concentrations.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases,* which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, the general site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to determine the appropriate closure criteria for the Site. Supporting documentation and figures associated with the following bullets are provided in **Appendix B**. One exploratory water well was identified adjacent west to the Site on the OSE Water Rights Reporting System (WRRS) database.

- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole or playa lake.
- The Site is not located within 300 feet from a permanent residence, school, hospital, institution or church.
- According to the OSE WRSS database there are no private, domestic freshwater wells used by less than five (5) households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database there are no freshwater wells identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- The Site is not located within an unstable area.
- The Site is not located within a 100-year floodplain.

Based on the identified siting criteria, cleanup goals for soils remaining in place at the Site include:

Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

3.0 SOIL REMEDIATION ACTIVITIES

On March 4, 2023, a crude oil release occurred due to an overfill of a transport truck as a result of human error. Approximately 40 bbls of crude oil were released, contacting the ground surface impacting an area approximately 160 feet long by 10 feet wide, with 0 bbls recovered. Initial response actions included the removal of saturated soils from the surface area. On March 6, 2023, corrective action activities were commenced by Lighthouse Environmental Services, Inc. (Lighthouse) utilizing a backhoe to excavate soils from the release area, while Ensolum provided environmental consulting support.

The final excavation area measured approximately 160 feet long and 10 to 15 feet wide at the maximum extents, with a depth of two to three feet below ground surface (bgs).

The lithology encountered during the completion of closure activities consisted primarily of unconsolidated silty sand and caliche.

A total of approximately 500 cubic yards of petroleum hydrocarbon affected soils were transported to the Sundance Services Inc. facility in Eunice, New Mexico and Republic Services Charter Landfill facility in Odessa, Texas for disposal. The excavation was subsequently backfilled with clean imported fill then contoured to surrounding grade.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the pipeline (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

4.0 SOIL SAMPLING PROGRAM

Ensolum's soil sampling program from March 7 through April 15, 2023, included the collection of a total of 13 composite confirmation soil samples from five locations on the excavation floor (FS-1 through FS-5), and 11 composite confirmation soil samples from four locations on the excavation sidewalls (SW-1 through SW-4) from the excavation of the impacted area for laboratory analysis. In addition, four background composite soil samples were collected from four locations (BG-N, BG-S, BG-E and BG-W) outside of the impacted area for laboratory analysis.

The composite soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to Cardinal Laboratories in Hobbs, New Mexico, under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The confirmation soil samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) using Environmental Protection Agency (EPA) SW-846 Method 8021B, total petroleum hydrocarbon (TPH) gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube oil range organics (MRO) using EPA SW-846 Method 8015M, and chloride using EPA Method SM4500Cl-B.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix E**.

6.0 DATA EVALUATION

Ensolum compared the BTEX, TPH GRO/DRO/MRO, and chloride concentrations and/or laboratory sample detection limits (SDLs) associated with the composite soil samples (FS-1 through FS-5, SW-1 through SW-4, BG-N, BG-S, BG-E and BG-W) remaining in place to the New Mexico EMNRD OCD closure criteria.

- Laboratory analytical results indicate benzene concentrations for soils remaining in place do not exceed the laboratory SDLs or the New Mexico EMNRD OCD closure criteria of 10 milligrams per kilogram (mg/kg).

- Laboratory analytical results indicate that total BTEX concentrations for soils remaining in place do not exceed the laboratory SDLs or the New Mexico EMNRD OCD closure criteria of 50 mg/kg.

- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for soils remaining in place do not exceed the laboratory SDLs and/or the New Mexico EMNRD OCD closure criteria of 100 mg/kg.

- Laboratory final analytical results indicate chloride concentrations for soils remaining in place do not exceed the New Mexico EMNRD OCD closure criteria of 600 mg/kg.

Laboratory analytical results are summarized in **Table 1** in **Appendix D.**

7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the final confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal. The excavated area was backfilled with clean fill material, and then contoured to the original surrounding grade.

8.0 FINDINGS AND RECOMMENDATION

- On March 4, 2023, a crude oil release occurred due to an overfill of a transport truck due to human error. Approximately 40 bbls of crude oil were released, contacting the ground surface impacting an area approximately 160 feet long by 10 feet wide, with 0 bbls recovered.

- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.

- Between March 7th and April 15th, 2023, a total of 13 composite confirmation soil samples from five locations on the excavation floor (FS-1 through FS-5), and 11 composite confirmation soil samples from four locations on the excavation sidewalls (SW-1 through SW-4 were collected. In addition, four background composite soil samples were collected from four locations (BG-N, BG-S, BG-E and BG-W) outside of the impacted area for laboratory analysis.

- Based on the final soil analytical results, soils remaining in place do not exhibit COC concentrations above the applicable New Mexico EMNRD OCD closure criteria.

- The final excavation area measured approximately 160 feet long and 10 to 15 feet wide at the maximum extents, with a depth of two to three feet bgs.

- A total of approximately 500 cubic yards of petroleum hydrocarbon affected soils were transported to the Sundance Services Inc. facility in Eunice, New Mexico and Republic Services Charter Landfill facility in Odessa, Texas for disposal. The excavation was subsequently backfilled with clean imported fill then contoured to surrounding grade.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

9.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendations are based solely upon data available to Ensolum at the time of these services.

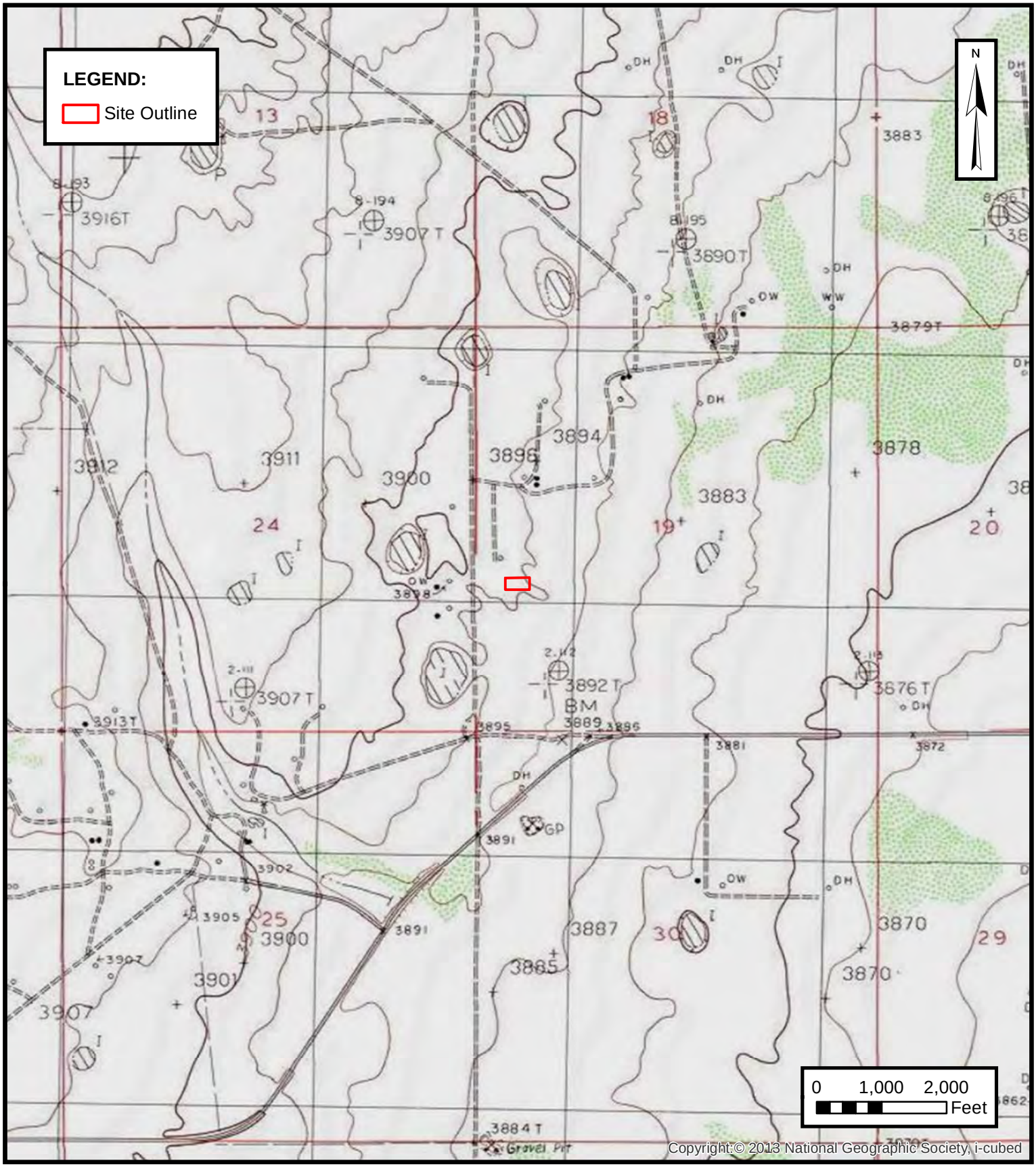
9.3 Reliance

This report has been prepared for the exclusive use of Enterprise Crude Pipeline, LLC, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Enterprise Transportation Company, LLC and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Closure Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

ENSOLUM

APPENDIX A

Figures



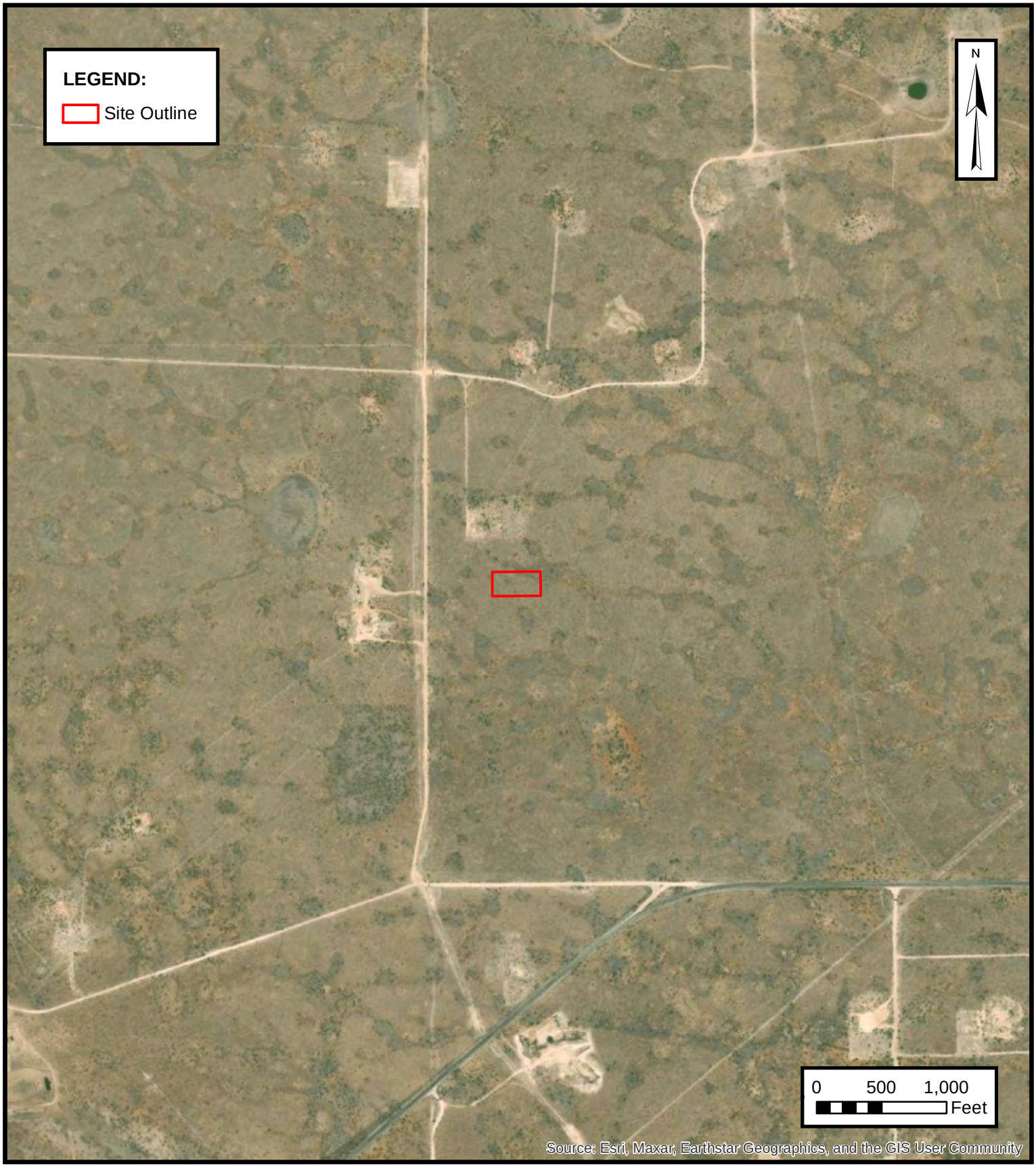
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

TOPGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC
BLUE BELL #2
Lea County, New Mexico
32.817403° N, 103.401418° W

PROJECT NUMBER: 03B1226230

FIGURE
1



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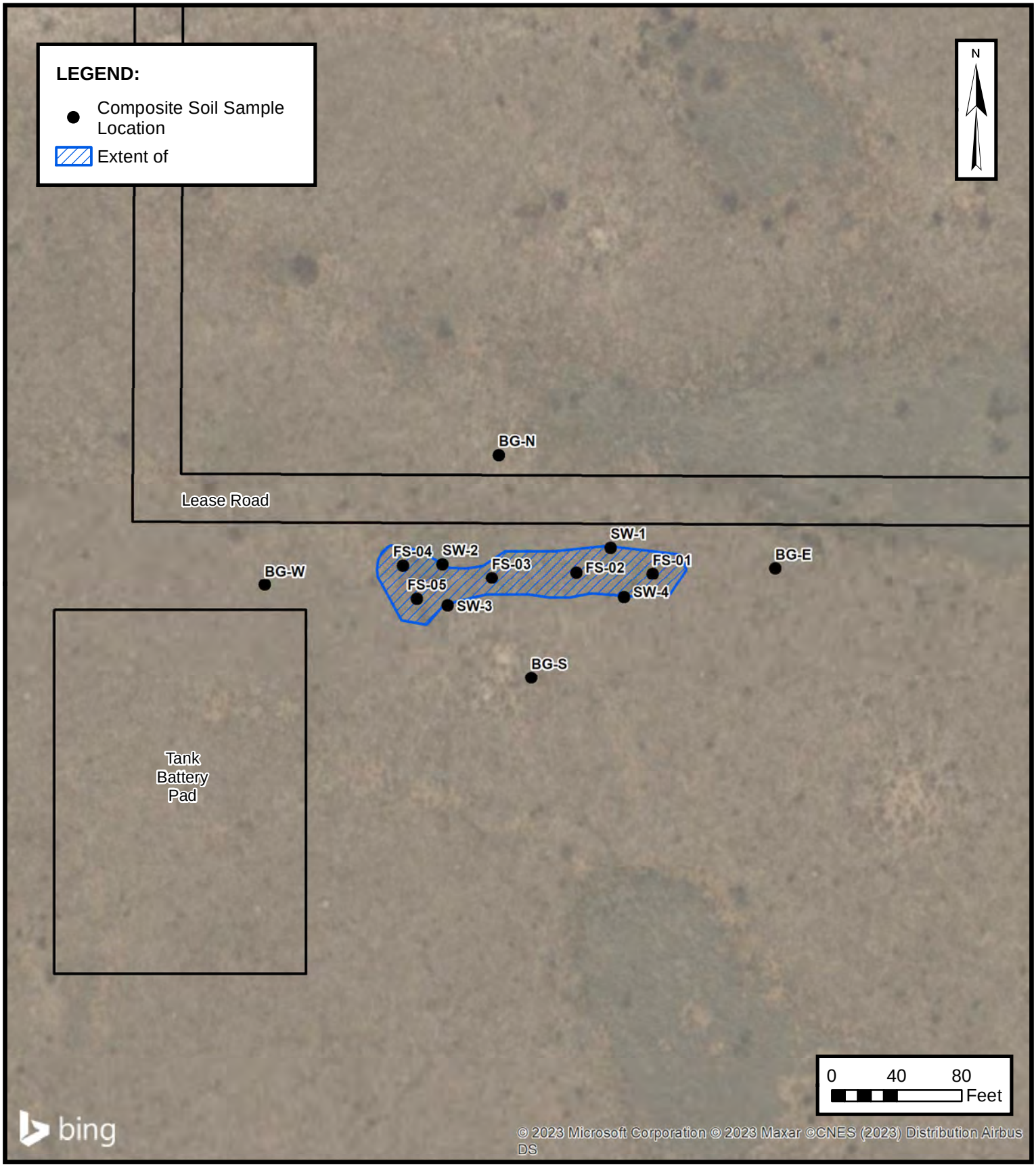
Environmental, Engineering and Hydrogeologic Consultants

SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
BLUE BELL #2
Lea County, New Mexico
32.817403° N, 103.401418° W

PROJECT NUMBER: 03B1226230

FIGURE
2



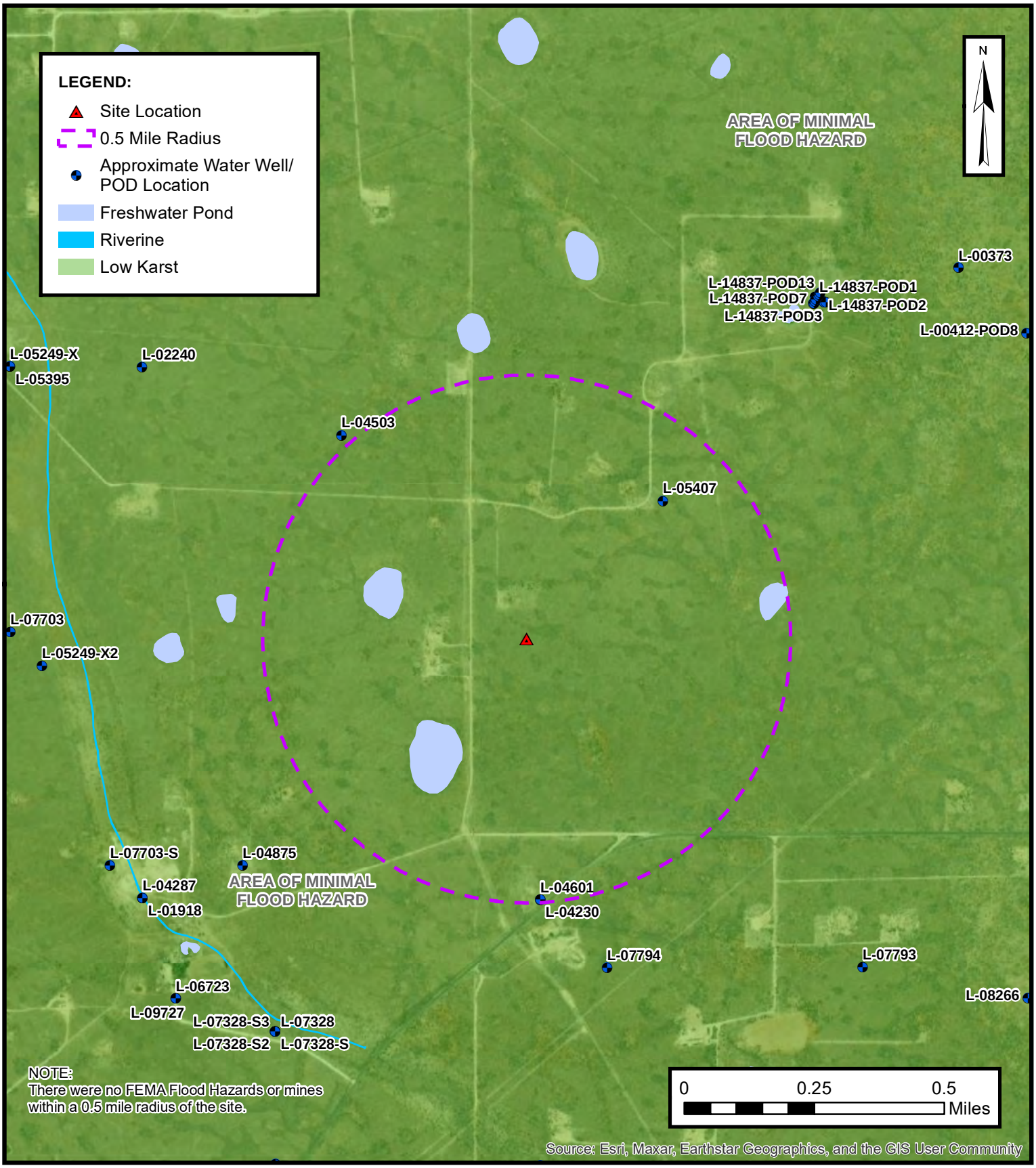
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

SITE MAP

ENTERPRISE FIELD SERVICES, LLC
BLUE BELL #2
Lea County, New Mexico
32.817403° N, 103.401418° W

PROJECT NUMBER: 03B1226230

FIGURE
3



ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

CLOSURE CRITERIA MAP

ENTERPRISE FIELD SERVICES, LLC
BLUE BELL #2
Lea County, New Mexico
32.817403° N, 103.401418° W

PROJECT NUMBER: 03B1226230

FIGURE
4

ENSOLUM

APPENDIX B

Supporting Documentation

Beaux Jennings

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Monday, March 20, 2023 11:45 AM
To: Beaux Jennings
Cc: Nobui, Jennifer, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] Blue Bell #2 (Incident # nAPP2307232497)

[**EXTERNAL EMAIL**]

Beaux.

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH
Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// **www.emnrd.nm.gov**

From: Beaux Jennings <bjennings@ensolum.com>
Sent: Friday, March 17, 2023 8:37 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Spore, Christopher <caspore@eprod.com>
Subject: [EXTERNAL] Blue Bell #2 (Incident # nAPP2307232497)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Morning,

On behalf of Enterprise Field Services, LLC, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Blue Bell #2 (Incident # nAPP2307232497) on Tuesday, March 21st. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,

Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC

Beaux Jennings

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Tuesday, March 28, 2023 4:44 PM
To: Beaux Jennings
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] Blue Bell #2 (Incident # nAPP2307232497)

[**EXTERNAL EMAIL**]

Beaux,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// **www.emnrd.nm.gov**

From: Beaux Jennings <bjennings@ensolum.com>
Sent: Tuesday, March 28, 2023 9:05 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Spore, Christopher <caspore@eprod.com>
Subject: [EXTERNAL] Blue Bell #2 (Incident # nAPP2307232497)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Morning,

On behalf of Enterprise Field Services, LLC, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Blue Bell #2 (Incident # nAPP2307232497) on Thursday, March 30th. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,

Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC

Beaux Jennings

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Wednesday, April 12, 2023 5:02 PM
To: Beaux Jennings
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] Blue Bell #2 (Incident # nAPP2307232497)

[**EXTERNAL EMAIL**]

Beaux,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JH

Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// **www.emnrd.nm.gov**

From: Beaux Jennings <bjennings@ensolum.com>
Sent: Wednesday, April 12, 2023 2:22 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Spore, Christopher <caspore@eprod.com>
Subject: [EXTERNAL] Blue Bell #2 (Incident # nAPP2307232497)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

On behalf of Enterprise Field Services, LLC, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Blue Bell #2 (Incident # nAPP2307232497) on Friday, April 14th. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,

Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC

National Flood Hazard Layer FIRMette

FEMA

103°24'24"W 32°49'18"N

103°23'46"W 32°48'48"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

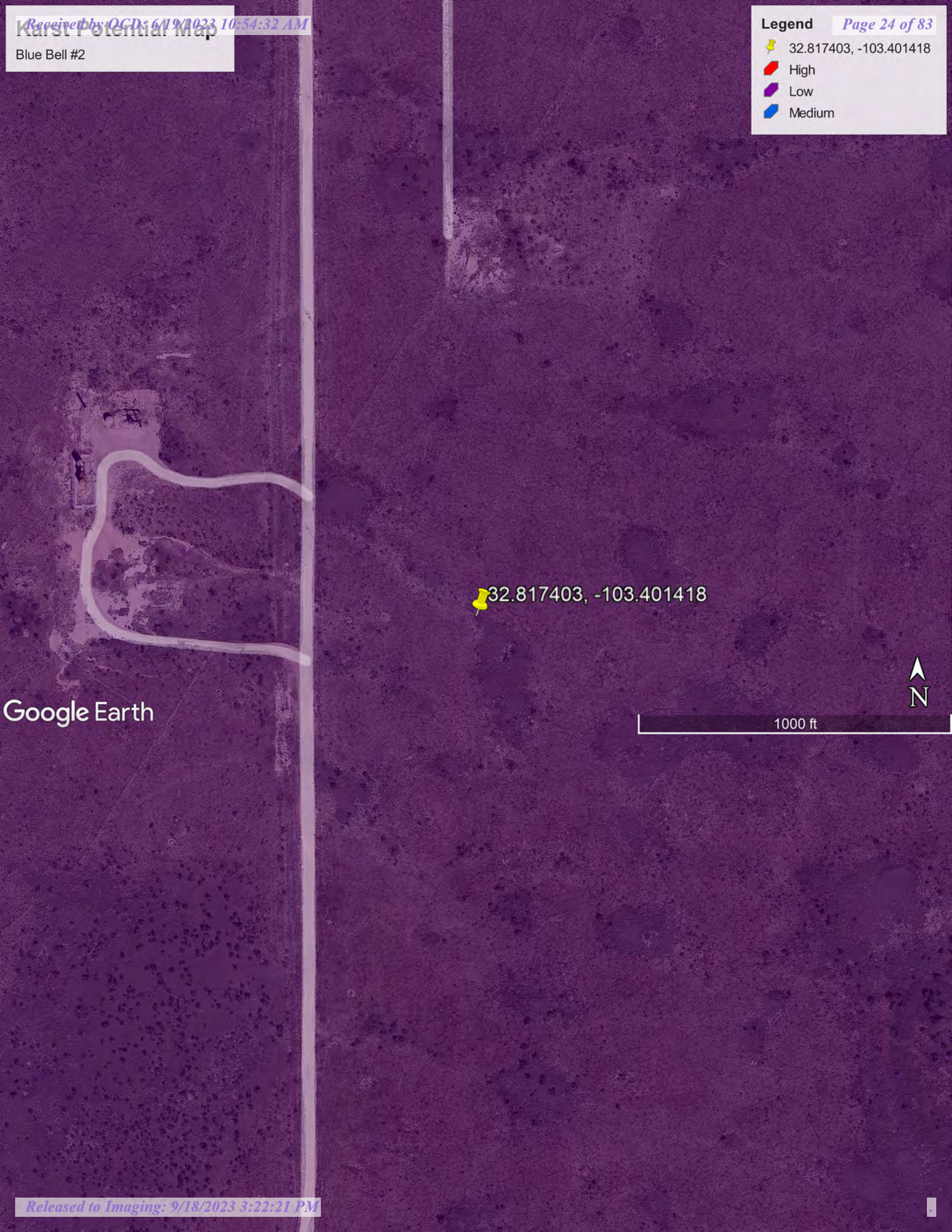
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/26/2023 at 7:37 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

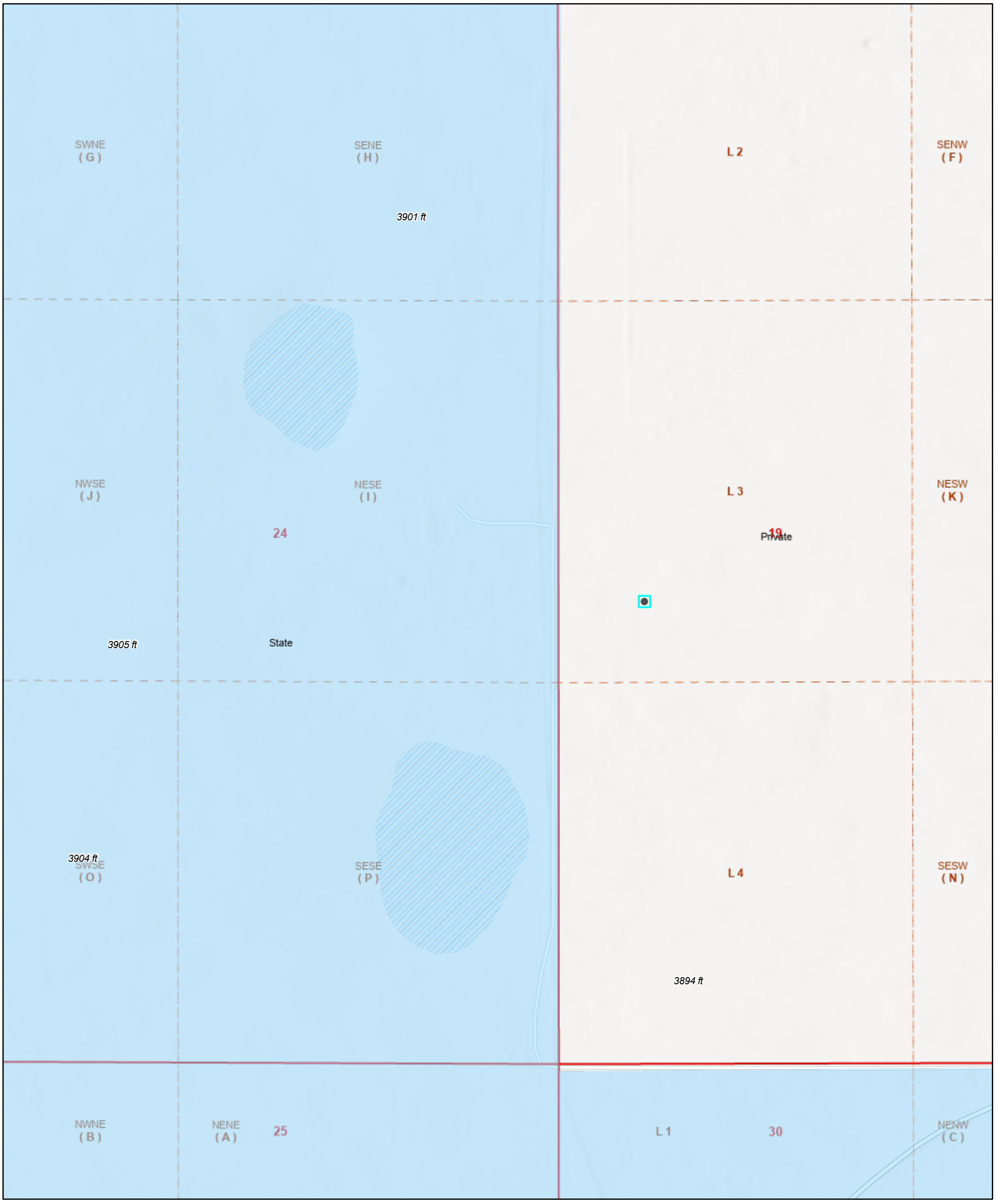
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Karst Potential Map

Blue Bell #2



Active Mines in New Mexico



4/26/2023, 6:29:20 PM

Land Ownership

- P
- S
- PLSS Second Division
- PLSS First Division

1:4,514

0 0.04 0.09 0.17 mi

0 0.05 0.1 0.2 km

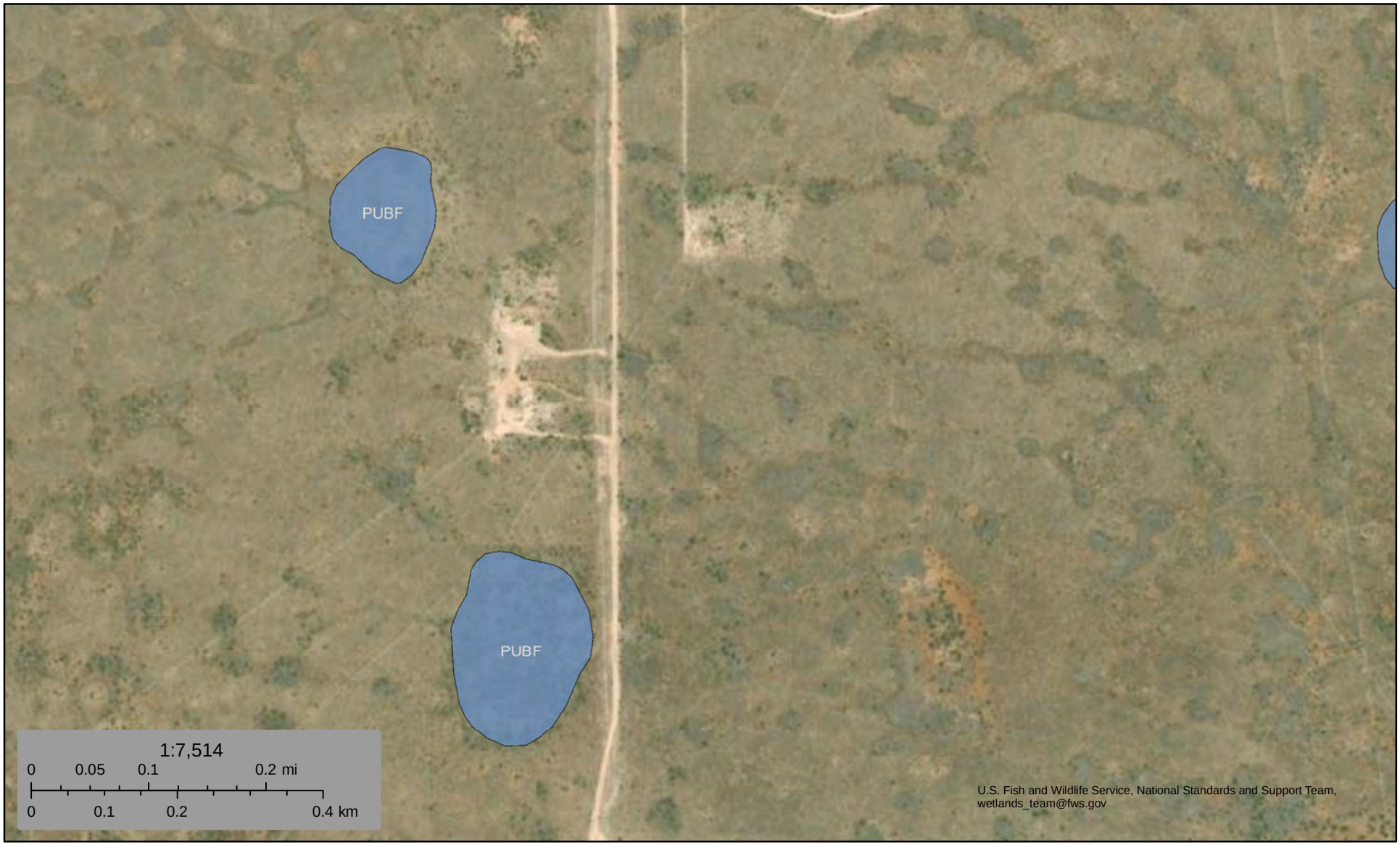
U.S. BLM, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US

EMNRD MMD GIS Coordinator

NM Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)

U.S. Fish and Wildlife Service
National Wetlands Inventory

NWI Map



April 26, 2023

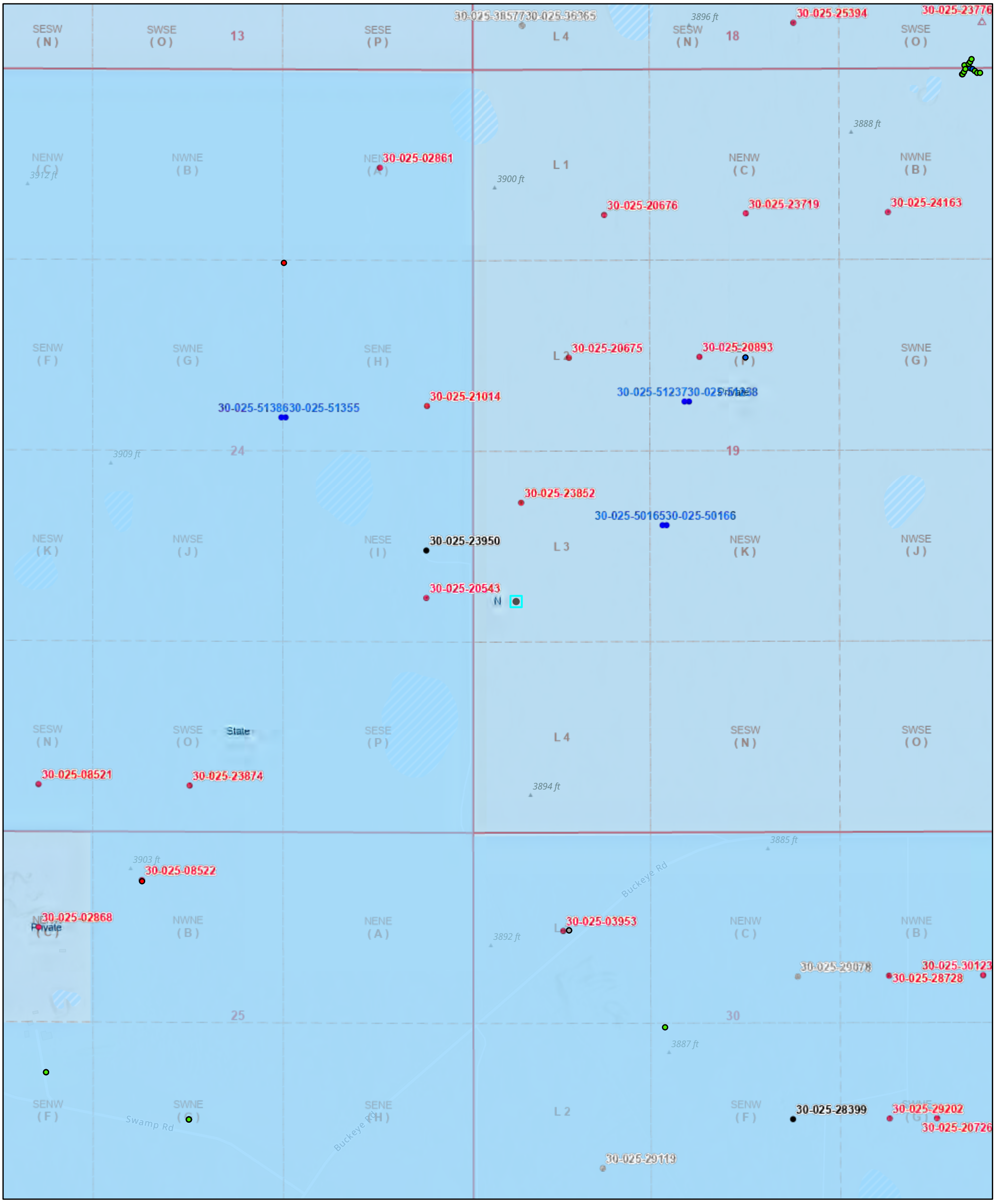
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

OCD Well Locations & Landowners



4/26/2023, 5:52:46 PM

OSE Water PODs
- Active
- Pending
- Plugged
- Unknown

Wells - Large Scale
- Oil, Active
- Oil, Cancelled
- Oil, New
- Oil, Plugged
- Salt Water Injection, Plugged

Mineral Ownership
- N-No minerals are owned by the U.S.

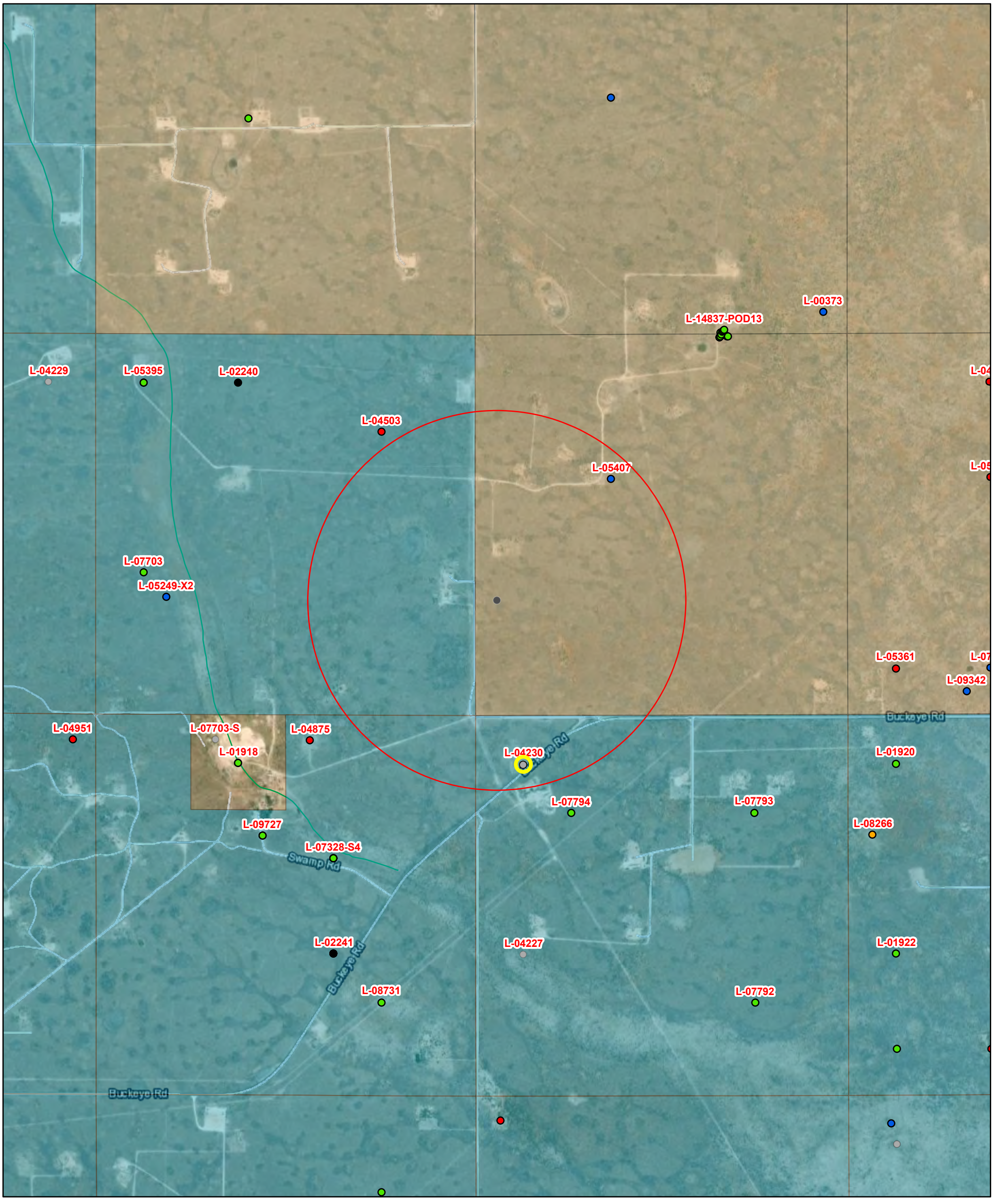
Land Ownership
- P
- S
- PLSS Second Division
- PLSS First Division

1:9,028

0 0.07 0.15 0.3 mi

0 0.13 0.25 0.5 km

OSE POD Locations Map



4/26/2023, 5:56:20 PM

GIS WATERS PODs
- Active
- Pending
- Inactive
- Capped
- Plugged

OSE District Boundary

New Mexico State Trust Lands
- Subsurface Estate
- Both Estates

NHD Flowlines
- Stream River

SiteBoundaries

1:18,056

0 0.17 0.35 0.7 mi

0 0.28 0.55 1.1 km

Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

Web Generated Map
Map is generated by web users.

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) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	L 05407	4	1		19	17S	36E	650128	3632699*

Driller License:	324	**Driller Company:**	DIXON PUMP & DRILLING SUPPLY		
Driller Name:	LEE A. DICKINSON				
Drill Start Date:	06/10/1964	**Drill Finish Date:**	06/10/1964	**Plug Date:**	
Log File Date:	06/15/1964	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	6.63	**Depth Well:**	108 feet	**Depth Water:**	49 feet

Water Bearing Stratifications:	Top	Bottom	Description
	49	108	Shallow Alluvium/Basin Fill

Casing Perforations:	Top	Bottom
	49	108

***UTM location was derived from PLSS - see Help**

ENSOLUM

APPENDIX C

Photographic Documentation

View of the release area during initial response action activities, facing southwest.

View of the release area during initial response action activities, facing southeast.

View of the excavation area during response action activities, facing west.

View of the excavation area during response action activities, facing east.

ENSOLUM

APPENDIX D

Tables

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Blue Bell #2
Enterprise Field Services, LLC
Lea County, New Mexico
Ensolum Project No. 03B1226230

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**100**	**600**
Floor Sample Analytical Results												
FS-1	03/07/2023	1	<0.050	<0.050	<0.050	**0.340**	**0.340**	**25.6**	**1,910**	**313**	**2,249**	**64.0**
	03/21/2023	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**48.4**	<10.0	**48.4**	**48.0**
FS-2	03/07/2023	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**159**	**13.2**	**172**	**32.0**
	03/21/2023	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**92.5**	<10.0	**92.5**	**112**
FS-3	03/07/2023	1	<0.050	**0.065**	**0.181**	**2.10**	**2.35**	**62.2**	**1,370**	**159**	**1,591**	**16.0**
	03/21/2023	2	<0.050	<0.050	<0.050	<0.150	<0.300	**10.6**	**1,140**	**216**	**1,367**	**48.0**
	03/30/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**29.7**	**12.1**	**41.8**	**48.0**
FS-4	03/07/2023	1.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**255**	**14.2**	**269**	**48.0**
	03/21/2023	1.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**235**	**50.2**	**285**	**64.0**
	03/30/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**10.2**	**11.5**	**21.7**	**32.0**
FS-5	03/07/2023	1.25	<0.050	**0.108**	**0.130**	**1.46**	**1.70**	**49.6**	**1,220**	**138**	**1,408**	**48.0**
	03/21/2023	1.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**133**	**19.3**	**152**	**64.0**
	03/30/2023	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**48.0**
Sidewall Sample Analytical Results												
SW-1	03/30/2023	0 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**514**	**31.5**	**546**	**128**
	04/10/2023	0 - 2	NS					<10.0	**295**	**53.6**	**349**	NS
	04/15/2023	0 - 2	NS					<10.0	<10.0	<10.0	<10.0	NS
SW-2	03/30/2023	0 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**1,430**	**248**	**1,678**	**48.0**
	04/10/2023	0 - 2	NS					<10.0	**15.1**	<10.0	**15.1**	NS
SW-3	03/30/2023	0 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**194**	**27.6**	**222**	**32.0**
	04/10/2023	0 - 2	NS					<10.0	**136**	**24.1**	**160**	NS
	04/15/2023	0 - 2	NS					<10.0	<10.0	<10.0	<10.0	NS
SW-4	03/30/2023	0 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**137**	**13.1**	**150**	**32.0**
	04/10/2023	0 - 2	NS					<10.0	**100**	**12.2**	**112**	NS
	04/15/2023	0 - 2	NS					<10.0	<10.0	<10.0	<10.0	NS
Background Sample Analytical Results												
BG-N	03/07/2023	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**32.0**
BG-S	03/07/2023	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**64.0**
BG-E	03/07/2023	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**32.0**
BG-W	03/07/2023	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**64.0**

*Concentrations in **bold** and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)*
Additional Excavation and/or Re-Sample
bgs: below ground surface
mg/kg: milligrams per kilogram
NE: Not Established
NS: Not Sampled
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
MRO: Motor Oil/Lube Oil Range Organics
TPH: Total Petroleum Hydrocarbon

ENSOLUM

APPENDIX E

Laboratory Data Sheets and Chain-of-Custody Documentation

CARDINAL Laboratories

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

March 09, 2023

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: T23 - 027 BLUE BELL #2

Enclosed are the results of analyses for samples received by the laboratory on 03/07/23 14:56.

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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/07/2023	Sampling Date:	03/07/2023
Reported:	03/09/2023	Sampling Type:	Soil
Project Name:	T23 - 027 BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 01 1' (H231031-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2023	ND	2.00	100	2.00	0.129	
Toluene*	<0.050	0.050	03/08/2023	ND	1.98	99.0	2.00	0.421	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	1.95	97.5	2.00	0.189	
Total Xylenes*	**0.340**	0.150	03/08/2023	ND	6.01	100	6.00	0.215	
Total BTEX	**0.340**	0.300	03/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *121 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	03/08/2023	ND	416	104	400	7.41	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**25.6**	10.0	03/08/2023	ND	169	84.3	200	2.07	
DRO >C10-C28*	**1910**	10.0	03/08/2023	ND	174	87.2	200	9.89	
EXT DRO >C28-C36	**313**	10.0	03/08/2023	ND					

Surrogate: 1-Chlorooctane *99.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *125 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/07/2023	Sampling Date:	03/07/2023
Reported:	03/09/2023	Sampling Type:	Soil
Project Name:	T23 - 027 BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 02 1' (H231031-02)

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	03/08/2023	ND	2.00	100	2.00	0.129	
Toluene*	<0.050	0.050	03/08/2023	ND	1.98	99.0	2.00	0.421	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	1.95	97.5	2.00	0.189	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.01	100	6.00	0.215	
Total BTEX	<0.300	0.300	03/08/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	03/08/2023	ND	416	104	400	7.41	

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	03/08/2023	ND	169	84.3	200	2.07	
DRO >C10-C28*	**159**	10.0	03/08/2023	ND	174	87.2	200	9.89	
EXT DRO >C28-C36	**13.2**	10.0	03/08/2023	ND					

Surrogate: 1-Chlorooctane *113 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *139 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/07/2023	Sampling Date:	03/07/2023
Reported:	03/09/2023	Sampling Type:	Soil
Project Name:	T23 - 027 BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 03 1' (H231031-03)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2023	ND	2.00	100	2.00	0.129	
Toluene*	**0.065**	0.050	03/08/2023	ND	1.98	99.0	2.00	0.421	
Ethylbenzene*	**0.181**	0.050	03/08/2023	ND	1.95	97.5	2.00	0.189	
Total Xylenes*	**2.10**	0.150	03/08/2023	ND	6.01	100	6.00	0.215	
Total BTEX	**2.35**	0.300	03/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *142 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	03/08/2023	ND	416	104	400	7.41	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**62.2**	10.0	03/08/2023	ND	169	84.3	200	2.07	
DRO >C10-C28*	**1370**	10.0	03/08/2023	ND	174	87.2	200	9.89	
EXT DRO >C28-C36	**159**	10.0	03/08/2023	ND					

Surrogate: 1-Chlorooctane *116 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *154 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/07/2023	Sampling Date:	03/07/2023
Reported:	03/09/2023	Sampling Type:	Soil
Project Name:	T23 - 027 BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 04 1.25' (H231031-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2023	ND	2.00	100	2.00	0.129	
Toluene*	<0.050	0.050	03/08/2023	ND	1.98	99.0	2.00	0.421	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	1.95	97.5	2.00	0.189	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.01	100	6.00	0.215	
Total BTEX	<0.300	0.300	03/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	03/08/2023	ND	416	104	400	7.41	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2023	ND	169	84.3	200	2.07	
DRO >C10-C28*	**255**	10.0	03/08/2023	ND	174	87.2	200	9.89	
EXT DRO >C28-C36	**14.2**	10.0	03/08/2023	ND					

Surrogate: 1-Chlorooctane *130 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *177 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/07/2023	Sampling Date:	03/07/2023
Reported:	03/09/2023	Sampling Type:	Soil
Project Name:	T23 - 027 BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 05 1.25' (H231031-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2023	ND	2.00	100	2.00	0.129	
Toluene*	**0.108**	0.050	03/08/2023	ND	1.98	99.0	2.00	0.421	
Ethylbenzene*	**0.130**	0.050	03/08/2023	ND	1.95	97.5	2.00	0.189	
Total Xylenes*	**1.46**	0.150	03/08/2023	ND	6.01	100	6.00	0.215	
Total BTEX	**1.70**	0.300	03/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *125 %* *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	**48.0**	16.0	03/08/2023	ND	416	104	400	7.41	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**49.6**	10.0	03/08/2023	ND	169	84.3	200	2.07	
DRO >C10-C28*	**1220**	10.0	03/08/2023	ND	174	87.2	200	9.89	
EXT DRO >C28-C36	**138**	10.0	03/08/2023	ND					

Surrogate: 1-Chlorooctane *131 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *184 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/07/2023	Sampling Date:	03/07/2023
Reported:	03/09/2023	Sampling Type:	Soil
Project Name:	T23 - 027 BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: BG - N 0.5' (H231031-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2023	ND	2.00	100	2.00	0.129	
Toluene*	<0.050	0.050	03/08/2023	ND	1.98	99.0	2.00	0.421	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	1.95	97.5	2.00	0.189	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.01	100	6.00	0.215	
Total BTEX	<0.300	0.300	03/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	03/08/2023	ND	416	104	400	7.41	

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	03/08/2023	ND	169	84.3	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/08/2023	ND	174	87.2	200	9.89	
EXT DRO >C28-C36	<10.0	10.0	03/08/2023	ND					

Surrogate: 1-Chlorooctane *108 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *129 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/07/2023	Sampling Date:	03/07/2023
Reported:	03/09/2023	Sampling Type:	Soil
Project Name:	T23 - 027 BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: BG - S 0.5' (H231031-07)

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	03/08/2023	ND	2.00	100	2.00	0.129	
Toluene*	<0.050	0.050	03/08/2023	ND	1.98	99.0	2.00	0.421	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	1.95	97.5	2.00	0.189	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.01	100	6.00	0.215	
Total BTEX	<0.300	0.300	03/08/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	03/08/2023	ND	416	104	400	7.41	

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	03/08/2023	ND	169	84.3	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/08/2023	ND	174	87.2	200	9.89	
EXT DRO >C28-C36	<10.0	10.0	03/08/2023	ND					

Surrogate: 1-Chlorooctane *107 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *128 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/07/2023	Sampling Date:	03/07/2023
Reported:	03/09/2023	Sampling Type:	Soil
Project Name:	T23 - 027 BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: BG - E 0.5' (H231031-08)

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	03/08/2023	ND	2.00	100	2.00	0.129	
Toluene*	<0.050	0.050	03/08/2023	ND	1.98	99.0	2.00	0.421	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	1.95	97.5	2.00	0.189	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.01	100	6.00	0.215	
Total BTEX	<0.300	0.300	03/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	03/08/2023	ND	416	104	400	7.41	

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	03/08/2023	ND	169	84.3	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/08/2023	ND	174	87.2	200	9.89	
EXT DRO >C28-C36	<10.0	10.0	03/08/2023	ND					

Surrogate: 1-Chlorooctane *100 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *122 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/07/2023	Sampling Date:	03/07/2023
Reported:	03/09/2023	Sampling Type:	Soil
Project Name:	T23 - 027 BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: BG - W 0.5' (H231031-09)

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	03/08/2023	ND	2.00	100	2.00	0.129	
Toluene*	<0.050	0.050	03/08/2023	ND	1.98	99.0	2.00	0.421	
Ethylbenzene*	<0.050	0.050	03/08/2023	ND	1.95	97.5	2.00	0.189	
Total Xylenes*	<0.150	0.150	03/08/2023	ND	6.01	100	6.00	0.215	
Total BTEX	<0.300	0.300	03/08/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	03/08/2023	ND	416	104	400	7.41	

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	03/08/2023	ND	169	84.3	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/08/2023	ND	174	87.2	200	9.89	
EXT DRO >C28-C36	<10.0	10.0	03/08/2023	ND					

Surrogate: 1-Chlorooctane *108 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *130 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC	**BILL TO**
Project Manager: Beaux Jennings	P.O. #:
Address: 601 N Marienfeld Street, Suite 400	Company: Oxy USA Inc.
City: Midland State: TX Zip: 79701	Attn: Wade Dittrich
Phone #: 210-219-8858 Fax #:	Address:
Project #: 03B1226230 Project Owner:	City:
Project Name: T23-027 Blue Bell #2	State: Zip:
Project Location: Lea County, NM	Phone #: 575-390-2828
Sampler Name: Sam & TG	Fax #:

NFE
3/7/23
Sam

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX	TPH	Chlorides
H231031																		
1	FS01	1	C	1			X					X		3/7/23	1415	X	X	X
2	FS02	1	C	1			X					X		3/7/23	1417	X	X	X
3	FS03	1	C	1			X					X		3/7/23	1419	X	X	X
4	FS04	1.25	C	1			X					X		3/7/23	1150	X	X	X
5	FS05	1.25	C	1			X					X		3/7/23	1155	X	X	X
6	BG-N	0.5	C	1			X					X		3/7/23	1421	X	X	X
7	BG-S	0.5	C	1			X					X		3/7/23	1423	X	X	X
8	BG-E	0.5	C	1			X					X		3/7/23	1425	X	X	X
9	BG-W	0.5	C	1			X					X		3/7/23	1427	X	X	X

Relinquished By:	Date: 3/7/23	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1456		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One)	Observed Temp. °C 2.1	Sample Condition: Cool ☑ Yes ☐ No; Intact ☐ Yes ☐ No	CHECKED BY: (Initials)	Turnaround Time: Standard ☐ Rush ☒
Sampler - UPS - Bus - Other:	Corrected Temp. °C 1.5			Thermometer ID #113 Correction Factor -0.5°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No
Observed Temp. °C
Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

FORM-006 R 3.2 10/07/21

CARDINAL Laboratories

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

March 27, 2023

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BLUE BELL #2

Enclosed are the results of analyses for samples received by the laboratory on 03/21/23 12:37.

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 accreditated 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,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/21/2023	Sampling Date:	03/21/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Tamara Oldaker
Project Location:	32.8174030-103.4014180		

Sample ID: FS - 1 2' (H231270-01)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.12	106	2.00	0.398	
Toluene*	<0.050	0.050	03/23/2023	ND	2.18	109	2.00	1.76	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.14	107	2.00	1.30	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.73	112	6.00	2.38	
Total BTEX	<0.300	0.300	03/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.2 %* *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	**48.0**	16.0	03/23/2023	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	83.9	200	6.77	
DRO >C10-C28*	**48.4**	10.0	03/23/2023	ND	176	87.8	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					

Surrogate: 1-Chlorooctane *86.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *89.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/21/2023	Sampling Date:	03/21/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Tamara Oldaker
Project Location:	32.8174030-103.4014180		

Sample ID: FS - 2 2' (H231270-02)

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	03/23/2023	ND	2.12	106	2.00	0.398	
Toluene*	<0.050	0.050	03/23/2023	ND	2.18	109	2.00	1.76	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.14	107	2.00	1.30	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.73	112	6.00	2.38	
Total BTEX	<0.300	0.300	03/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	03/23/2023	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	83.9	200	6.77	
DRO >C10-C28*	**92.5**	10.0	03/23/2023	ND	176	87.8	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					

Surrogate: 1-Chlorooctane *87.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *94.0 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/21/2023	Sampling Date:	03/21/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Tamara Oldaker
Project Location:	32.8174030-103.4014180		

Sample ID: FS - 3 2' (H231270-03)

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	03/23/2023	ND	2.12	106	2.00	0.398	
Toluene*	<0.050	0.050	03/23/2023	ND	2.18	109	2.00	1.76	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.14	107	2.00	1.30	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.73	112	6.00	2.38	
Total BTEX	<0.300	0.300	03/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *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	**48.0**	16.0	03/23/2023	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**10.6**	10.0	03/23/2023	ND	168	83.9	200	6.77	
DRO >C10-C28*	**1140**	10.0	03/23/2023	ND	176	87.8	200	2.32	
EXT DRO >C28-C36	**216**	10.0	03/23/2023	ND					

Surrogate: 1-Chlorooctane *83.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *102 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/21/2023	Sampling Date:	03/21/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Tamara Oldaker
Project Location:	32.8174030-103.4014180		

Sample ID: FS - 4 1.25' (H231270-04)

BTEX 8021B mg/kg **Analyzed By: JH/**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.12	106	2.00	0.398	
Toluene*	<0.050	0.050	03/23/2023	ND	2.18	109	2.00	1.76	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.14	107	2.00	1.30	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.73	112	6.00	2.38	
Total BTEX	<0.300	0.300	03/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	03/23/2023	ND	400	100	400	3.92	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	83.9	200	6.77	
DRO >C10-C28*	**235**	10.0	03/23/2023	ND	176	87.8	200	2.32	
EXT DRO >C28-C36	**50.2**	10.0	03/23/2023	ND					

Surrogate: 1-Chlorooctane *91.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *94.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/21/2023	Sampling Date:	03/21/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Tamara Oldaker
Project Location:	32.8174030-103.4014180		

Sample ID: FS - 5 1.25' (H231270-05)

BTEX 8021B mg/kg **Analyzed By: JH/**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.12	106	2.00	0.398	
Toluene*	<0.050	0.050	03/23/2023	ND	2.18	109	2.00	1.76	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.14	107	2.00	1.30	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.73	112	6.00	2.38	
Total BTEX	<0.300	0.300	03/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.0 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	03/24/2023	ND	432	108	400	7.14	

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	03/23/2023	ND	168	83.9	200	6.77	
DRO >C10-C28*	**133**	10.0	03/23/2023	ND	176	87.8	200	2.32	
EXT DRO >C28-C36	**19.3**	10.0	03/23/2023	ND					

Surrogate: 1-Chlorooctane *92.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *102 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC
Project Manager: Beaux Jennings
Address: 601 N. Marienfeld St. STE 400
City: Midland State: TX Zip: 79701
Phone #: 210-219-8858 Fax #:
Project #: 03B1226230 Project Owner:
Project Name: Blue Bell #2
Project Location: 32.8174030, -103.4614180
Sampler Name: Kailee Smith

BILL TO
P.O. #:
Company: Ensolum, LLC
Attn:
Address: Beaux Jennings
City:
State: Zip:
Phone #: 210-219-8858
Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chlorides 4500	BTEX 8021B	TPH 8015M
H231270																		
1	FS-1	2'	C	1			X					X		3-21-23	1052	X	X	X
2	FS-2	2'	C	1			X					X		3-21-23	1054	X	X	X
3	FS-3	2'	C	1			X					X		3-21-23	1056	X	X	X
4	FS-4	1.25'	C	1			X					X		3-21-23	1058	X	X	X
5	FS-5	1.25'	C	1			X					X		3-21-23	1100	X	X	X

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

Relinquished By: Date: 3-21-23 Time: 1237 Received By:
Relinquished By: Date: Time: Received By:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C 6.1 Corrected Temp. °C 5.5
Sample Condition: Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No
CHECKED BY: (Initials)

Verbal Result: ☐ Yes ☒ No Add'l Phone #:
All Results are emailed. Please provide Email address:
BJennings@ensolum.com
REMARKS:

Turnaround Time: Standard ☑ Rush ☐
Thermometer ID #113
Correction Factor -0.5°C
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

FORM-006 R 3.2 10/07/21

CARDINAL Laboratories

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

March 31, 2023

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BLUE BELL #2

Enclosed are the results of analyses for samples received by the laboratory on 03/30/23 11:37.

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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	03/31/2023	Sampling Type:	Soil
Project Name:	BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Tamara Oldaker
Project Location:	32.8174030-103.4014180		

Sample ID: FS - 3 3' (H231465-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2023	ND	1.87	93.6	2.00	9.02	
Toluene*	<0.050	0.050	03/30/2023	ND	1.93	96.7	2.00	7.65	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.00	100	2.00	7.39	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.29	105	6.00	5.30	
Total BTEX	<0.300	0.300	03/30/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	03/31/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	210	105	200	2.20	
DRO >C10-C28*	**29.7**	10.0	03/30/2023	ND	235	117	200	7.72	
EXT DRO >C28-C36	**12.1**	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane *128 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *158 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	03/31/2023	Sampling Type:	Soil
Project Name:	BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Tamara Oldaker
Project Location:	32.8174030-103.4014180		

Sample ID: FS - 4 3' (H231465-02)

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	03/30/2023	ND	1.87	93.6	2.00	9.02	
Toluene*	<0.050	0.050	03/30/2023	ND	1.93	96.7	2.00	7.65	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.00	100	2.00	7.39	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.29	105	6.00	5.30	
Total BTEX	<0.300	0.300	03/30/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	03/31/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	210	105	200	2.20	
DRO >C10-C28*	**10.2**	10.0	03/31/2023	ND	235	117	200	7.72	
EXT DRO >C28-C36	**11.5**	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane *117 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *143 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	03/31/2023	Sampling Type:	Soil
Project Name:	BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Tamara Oldaker
Project Location:	32.8174030-103.4014180		

Sample ID: FS - 5 3' (H231465-03)

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	03/30/2023	ND	1.87	93.6	2.00	9.02	
Toluene*	<0.050	0.050	03/30/2023	ND	1.93	96.7	2.00	7.65	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.00	100	2.00	7.39	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.29	105	6.00	5.30	
Total BTEX	<0.300	0.300	03/30/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	03/31/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	235	117	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane *124 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *158 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	03/31/2023	Sampling Type:	Soil
Project Name:	BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Tamara Oldaker
Project Location:	32.8174030-103.4014180		

Sample ID: SW - 1 0-2' (H231465-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2023	ND	1.87	93.6	2.00	9.02	
Toluene*	<0.050	0.050	03/30/2023	ND	1.93	96.7	2.00	7.65	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.00	100	2.00	7.39	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.29	105	6.00	5.30	
Total BTEX	<0.300	0.300	03/30/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	03/31/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	210	105	200	2.20	
DRO >C10-C28*	**514**	10.0	03/31/2023	ND	235	117	200	7.72	
EXT DRO >C28-C36	**31.5**	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane *101 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *120 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	03/31/2023	Sampling Type:	Soil
Project Name:	BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Tamara Oldaker
Project Location:	32.8174030-103.4014180		

Sample ID: SW - 2 0-2' (H231465-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2023	ND	2.04	102	2.00	5.49	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	6.33	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.12	106	2.00	5.64	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.44	107	6.00	5.10	
Total BTEX	<0.300	0.300	03/30/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	03/31/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	210	105	200	2.20	
DRO >C10-C28*	**1430**	10.0	03/31/2023	ND	235	117	200	7.72	
EXT DRO >C28-C36	**248**	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane *105 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *141 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	03/31/2023	Sampling Type:	Soil
Project Name:	BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Tamara Oldaker
Project Location:	32.8174030-103.4014180		

Sample ID: SW - 3 0-2' (H231465-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2023	ND	2.04	102	2.00	5.49	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	6.33	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.12	106	2.00	5.64	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.44	107	6.00	5.10	
Total BTEX	<0.300	0.300	03/30/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	03/31/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	210	105	200	2.20	
DRO >C10-C28*	**194**	10.0	03/31/2023	ND	235	117	200	7.72	
EXT DRO >C28-C36	**27.6**	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane *114 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *140 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	03/31/2023	Sampling Type:	Soil
Project Name:	BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Tamara Oldaker
Project Location:	32.8174030-103.4014180		

Sample ID: SW - 4 0-2' (H231465-07)

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	03/30/2023	ND	2.04	102	2.00	5.49	
Toluene*	<0.050	0.050	03/30/2023	ND	2.07	103	2.00	6.33	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	2.12	106	2.00	5.64	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	6.44	107	6.00	5.10	
Total BTEX	<0.300	0.300	03/30/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	03/31/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/31/2023	ND	210	105	200	2.20	
DRO >C10-C28*	**137**	10.0	03/31/2023	ND	235	117	200	7.72	
EXT DRO >C28-C36	**13.1**	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane *109 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *135 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC
Project Manager: Beaux Jennings
Address: 601 N. Marienfeld St. STE 400
City: Midland State: TX Zip: 79701
Phone #: 210-219-8858 Fax #:
Project #: 03B1226230 Project Owner:
Project Name: Blue Bell #2
Project Location: 32.8174030, -103.4014180
Sampler Name: Kailee Smith

BILL TO
P.O. #:
Company: Ensolum, LLC
Attn: Beaux Jennings
Address: 601 N. Marienfeld
City:
State: Zip:
Phone #: 210-219-8858
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Chlorides 4500	BTEX 8021b	TPH 8015m
H231465																		
1	FS-3	3'	C	1			X					X		3-30-23	0850	X	X	X
2	FS-4	3'	C	1			X					X		3-30-23	0852	X	X	X
3	FS-5	3'	C	1			X					X		3-30-23	0854	X	X	X
4	SW-1	0-2'	C	1			X					X		3-30-23	0944	X	X	X
5	SW-2	0-2'	C	1			X					X		3-30-23	0946	X	X	X
6	SW-3	0-2'	C	1			X					X		3-30-23	0948	X	X	X
7	SW-4	0-2'	C	1			X					X		3-30-23	0950	X	X	X

NFE
KS

Relinquished By: Date: 3-30-23 Time: 1137 Received By:
Relinquished By: Date: Time: Received By:

Verbal Result: ☐ Yes ☑ No Add'l Phone #:
All Results are emailed. Please provide Email address:
REMARKS:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C 31 Corrected Temp. °C 2.5
Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No
CHECKED BY: (Initials) LD

Turnaround Time: Standard ☐ Rush ☑ 24hr.
Thermometer ID #113 Correction Factor -0.5°C
Bacteria (only) Sample Condition Cool ☐ Yes ☐ Nc Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

FORM-006 R 3.2 10/07/21

CARDINAL Laboratories

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

April 11, 2023

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BLUE BELL #2

Enclosed are the results of analyses for samples received by the laboratory on 04/10/23 9:20.

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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	04/10/2023	Sampling Date:	04/07/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8174030-103.4014180		

Sample ID: SW - 1 0-2' (H231662-01)

TPH 8015M **mg/kg** **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	185	92.6	200	4.82	
DRO >C10-C28*	**295**	10.0	04/10/2023	ND	180	89.9	200	3.48	
EXT DRO >C28-C36	**53.6**	10.0	04/10/2023	ND					

Surrogate: 1-Chlorooctane	*106 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*140 %*	*49.1-148*

Sample ID: SW - 2 0-2' (H231662-02)

TPH 8015M **mg/kg** **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	185	92.6	200	4.82	
DRO >C10-C28*	**15.1**	10.0	04/10/2023	ND	180	89.9	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	04/10/2023	ND					

Surrogate: 1-Chlorooctane	*97.0 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*107 %*	*49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	04/10/2023	Sampling Date:	04/07/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8174030-103.4014180		

Sample ID: SW - 3 0-2' (H231662-03)

TPH 8015M **mg/kg** **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	185	92.6	200	4.82	
DRO >C10-C28*	**136**	10.0	04/10/2023	ND	180	89.9	200	3.48	
EXT DRO >C28-C36	**24.1**	10.0	04/10/2023	ND					

Surrogate: 1-Chlorooctane	*94.5 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*106 %*	*49.1-148*

Sample ID: SW - 4 0-2' (H231662-04)

TPH 8015M **mg/kg** **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2023	ND	185	92.6	200	4.82	
DRO >C10-C28*	**100**	10.0	04/10/2023	ND	180	89.9	200	3.48	
EXT DRO >C28-C36	**12.2**	10.0	04/10/2023	ND					

Surrogate: 1-Chlorooctane	*98.0 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*108 %*	*49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC	**BILL TO**
Project Manager: Beaux Jennings	P.O. #:
Address: 601 N. Marienfeld St. STE 400	Company: Ensolum, LLC
City: Midland State: TX Zip: 79701	Attn: Beaux Jennings
Phone #: 210-219-8858 Fax #:	Address:
Project #: 03B1226230 Project Owner:	City:
Project Name: Blue Bell #2	State: Zip:
Project Location: 32.8174050, -103.4014180	Phone #: 210-219-8858
Sampler Name: Kailee Smith	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: TPH 8015M
H231662																
1	SW-1	0-2'	C	1			X					X		4-7-23	0906	X
2	SW-2	0-2'	C	1			X					X		4-7-23	0908	X
3	SW-3	0-2'	C	1			X					X		4-7-23	0910	X
4	SW-11	0-2'	C	1			X					X		4-7-23	0912	X

WFE
KS

Relinquished By:	Date: 4-7-23 Time: 1053	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: 4/10/23 Time: 0920	Received By:	All Results are emailed. Please provide Email address:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 1.2 Corrected Temp. °C 0.1	Sample Condition Cool Intact ☑ Yes ☐ Yes ☐ No ☐ No	CHECKED BY: (Initials)

REMARKS:

Turnaround Time: 24 Standard ☐ Rush ☒ 24 HR

Thermometer ID #113 Correction Factor -0.5°C -0.6

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

FORM-006 R 3.2 10/07/21

CARDINAL Laboratories

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

April 17, 2023

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BLUE BELL #2

Enclosed are the results of analyses for samples received by the laboratory on 04/14/23 15:55.

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 accreditated 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,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	04/14/2023	Sampling Date:	04/14/2023
Reported:	04/17/2023	Sampling Type:	Soil
Project Name:	BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Tamara Oldaker
Project Location:	32.8174030,-103.414180		

Sample ID: SW - 1 0-2' (H231817-01)

TPH 8015M **mg/kg** **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	212	106	200	0.116	
DRO >C10-C28*	<10.0	10.0	04/15/2023	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					

Surrogate: 1-Chlorooctane	*68.7 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*72.5 %*	*49.1-148*

Sample ID: SW - 3 0-2' (H231817-02)

TPH 8015M **mg/kg** **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	212	106	200	0.116	
DRO >C10-C28*	<10.0	10.0	04/15/2023	ND	207	104	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					

Surrogate: 1-Chlorooctane	*55.1 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*58.6 %*	*49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	04/14/2023	Sampling Date:	04/14/2023
Reported:	04/17/2023	Sampling Type:	Soil
Project Name:	BLUE BELL #2	Sampling Condition:	Cool & Intact
Project Number:	03B1226230	Sample Received By:	Tamara Oldaker
Project Location:	32.8174030,-103.414180		

Sample ID: SW - 4 0-2' (H231817-03)

TPH 8015M **mg/kg** **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	171	85.3	200	1.89	
DRO >C10-C28*	<10.0	10.0	04/15/2023	ND	168	83.8	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					

Surrogate: 1-Chlorooctane	*78.7 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*82.4 %*	*49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC
Project Manager: Beaux Jennings
Address: 601 N. Marienfeld St. STE 400
City: Midland State: TX Zip: 79701
Phone #: 210-219-8858 Fax #:
Project #: 03B1226230 Project Owner:
Project Name: Blue Bell #2
Project Location: 32.817403, -103.41418 Lea County, NM
Sampler Name: Kaitlee Smith

BILL TO
P.O. #:
Company: Ensolum, LLC
Attn: Beaux Jennings
Address:
City:
State: Zip:
Phone #: 210-219-8858
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH 8015M
H231817																
1	SW-1	0-2'	C	1			X					X		4-14-23	1315	X
2	SW-3	0-2'	C	1			X					X		4-14-23	1358	X
3	SW-4	0-2'	C	1			X					X		4-14-23	1330	X

NFE
KS

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

Relinquished By: Date: 4-14-23 Time: 1555 Received By:
Relinquished By: Date: Time: Received By:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:
Observed Temp. °C 2.5
Corrected Temp. °C 1.9
Sample Condition: Cool Yes / Intact Yes; No / No
CHECKED BY: (Initials)

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:
REMARKS:
Turnaround Time: Standard ☐ Rush ☑ 24hrs
Thermometer ID #113
Correction Factor -0.5°C
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No
Observed Temp. °C
Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

FORM-006 R 3.2 10/07/21

ENSOLUM

APPENDIX F

C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2307232497
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Enterprise Field Services, LLC	OGRID: 241602
Contact Name: Christopher Spore	Contact Telephone: 432-214-3264
Contact email: caspore@eprod.com	Incident # nAPP2307232497
Contact mailing address: PO Box 4324, Houston, TX 77210	

Location of Release Source

Latitude 32.817403 Longitude -103.401418
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Blue Bell #2	Site Type: Central Tank Battery
Date Release Discovered: 03/04/2023	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
L3	19	17S	36E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls): 40	Volume Recovered (bbls): 0
☐ Produced Water	Volume Released (bbls):	Volume Recovered (bbls):
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Human error during loading operations and overfilled tank trailer. Released crude flowed off the tank battery pad onto the pasture area.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2307232497
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Unauthorized release of a volume, excluding gases, of 25 barrels or more.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Christopher Spore of Enterprise via telephone on 03/05/2023.	

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.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Christopher Spore
Title: Lead Field Environmental

Signature: Chris Aspore
Date: 05/22/2023

email: caspore@eprod.com
Telephone: 432-214-3264

OCD Only

Received by: _____ Date: _____

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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2307232497
District RP	
Facility ID	
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	N/A (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

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State of New Mexico
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Printed Name: Christopher Spore

Title: Lead Field Environmental

Signature: Christopher Spore

Date: 05/22/2023

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Remediation Plan

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

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

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

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

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Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2307232497
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Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Christopher Spore
Title: Lead Field Environmental

Signature: Christopher Spore
Date: 05/22/2023

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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

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

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 230054
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	9/18/2023