ENSOLUM

CLOSURE REPORT

Property:

State Gas Com #3 (08/30/24) Release
Unit Letter J, S32 T31N R12W
San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2424355183

January 28, 2025

Ensolum Project No. 05A12263334

Prepared for:

Enterprise Field Services, LLC
614 Reilly Avenue
Farmington, NM 87401
Attn: Mr. Thomas Long

Prepared by:

Chad D'Aponti
Project Scientist

Kyle Summers
Senior Managing Geologist

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LIST OF APPENDICES

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	State Gas Com #3 (08/30/24) Release (Site)
NM EMNRD OCD Incident ID No.	NAPP2424355183
Location:	36.85498° North, 108.11931° West Unit Letter J, Section 32, Township 31 North, Range 12 West San Juan County, New Mexico
Property:	State Trust Land
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On August 27, 2024, a release of natural gas from the State Gas Com #3 pipeline was identified. Enterprise subsequently isolated and locked the pipeline out of service. On August 30, 2024, Enterprise initiated activities to remediate petroleum hydrocarbon impact. In addition, Enterprise determined the release was "reportable" due to the potential volume of impacted soil. The NM EMNRD OCD was subsequently notified.

A **Topographic Map** depicting the location of the Site is included as **Figure 1**, and a **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 NM EMNRD OCD closure criteria.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the NM EMNRD OCD. During the evaluation and remediation of the Site, Ensolum, LLC (Ensolum) referenced New Mexico Administrative Code (NMAC) 19.15.29 *Releases,* which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action. The appropriate closure criteria for sites are determined using the siting requirements outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. Ensolum utilized the general site characteristics and information available from NM state agency databases and federal agency geospatial databases to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following Siting bullets are provided in **Appendix B**.

- The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs were identified in the same Public Land Survey System (PLSS) section as the Site. Numerous PODs were identified in the adjacent PLSS sections. Documentation for POD SJ-02145 indicates a depth to water (DTW) of 110 feet below grade surface (bgs). This POD is located approximately 0.64 miles southeast of the Site and is approximately 34 feet lower in elevation than the Site. Documentation for POD SJ-03204 indicates a depth to water of 20 feet below grade surface (bgs). This POD is located approximately 1.10 miles southwest of the Site and

is approximately 126 feet lower in elevation than the Site. Documentation for POD SJ-04197 POD 1 indicates a depth to water of 140 feet below grade surface (bgs). This POD is located approximately 0.82 miles northwest of the Site and is approximately 97 feet lower in elevation than the Site.

- Four cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the adjacent PLSS sections. These CPWs are depicted on **Figure B** (**Appendix B**). Documentation for the cathodic protection well located near the Thompson 1R production pad indicates a depth to water of 200 feet bgs. This cathodic protection well is located approximately 0.74 miles east of the Site and is approximately 79 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Taliaferro #3E production pad indicates a depth to water of approximately 170 feet bgs. This cathodic protection well is located approximately 0.97 miles southwest of the Site and is approximately 86 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Taliaferro #7 production pad indicates depths to water of approximately 100 feet and 170 feet bgs. This cathodic protection well is located approximately 0.92 miles northwest of the Site and is approximately 65 feet higher in elevation than the Site. Documentation for the cathodic protection well located near the Taliaferro #4E production pad indicates depths to water of approximately 80 feet and 190 feet bgs. This cathodic protection well is located approximately 1.39 miles north of the Site and is approximately 9 feet lower in elevation than the Site.

- The Site is located within 300 feet of a NM EMNRD OCD-defined, significant watercourse (**Figure C**, **Appendix B**). A first order drainage to a “blue line” ephemeral wash is located approximately 5 feet east of the Site.

- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.

- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (**Figure D**, **Appendix B**).

- No springs, or private domestic freshwater wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site (**Figure E**, **Appendix B**).

- No freshwater wells or springs were identified within 1,000 feet of the Site (**Figure E**, **Appendix B**).

- 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 New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.

- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not within 300 feet of a wetland (**Figure F**, **Appendix B**).

- Based on information identified in the NM Mining and Minerals Division’s Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (**Figure G**, **Appendix B**).

- The Site is not located within an unstable area per Paragraph (6) of Subsection U of 19.15.2.7 NMAC.

- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year floodplain (**Figure H**, **Appendix B**).

Based on available information Enterprise estimates the depth to water at the Site to potentially be less than 50 feet bgs, resulting in a Tier I ranking. The closure criteria for soils remaining in place at the Site include:

Tier I Closure Criteria for Soils Impacted by a Release		
Constituent[1]	**Method**	**Limit**
Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
TPH (GRO+DRO+MRO)[2]	EPA SW-846 Method 8015	100 mg/kg
BTEX[3]	EPA SW-846 Method 8021 or 8260	50 mg/kg
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg

[1] – Constituent concentrations are in milligrams per kilogram (mg/kg).
[2] – Total Petroleum Hydrocarbons (TPH). Gasoline Range Organics (GRO). Diesel Range Organics (DRO). Motor Oil/Lube Oil Range Organics (MRO).
[3] – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

3.0 SOIL REMEDIATION ACTIVITIES

On August 30, 2024, Enterprise initiated activities to remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, OFT Construction, Inc., provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The excavation measured approximately 20 feet long and 10 feet wide at the maximum extents, with a footprint of approximately 200 square feet (ft^2). The maximum depth of the excavation measured approximately 8 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of Silty sandy clay.

An estimated 65 cubic yards (yd^3) of petroleum hydrocarbon-affected soils were transported to the Envirotech, Inc., (Envirotech) landfarm in San Juan County, NM for disposal/remediation. The excavated soils were apparently accepted by the land farm under a C-138 for a different State Com #3 release nearby (nAPP2422558840). That executed C-138 solid waste acceptance form for a total of 235 yd^3 of petroleum hydrocarbon-affected soils and 5 barrels (bbls) of hydro-excavation soil cuttings and water is provided in **Appendix C**. The excavation was backfilled with imported fill and then contoured to the 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 meter run (**Appendix A**). Photographic documentation of the field activities is included in **Appendix D**.

4.0 SOIL SAMPLING PROGRAM

Ensolum field screened the soil samples from the excavation utilizing a calibrated Dexsil PetroFLAG® hydrocarbon analyzer system and a photoionization detector (PID) fitted with a 10.6 eV lamp to guide excavation extents.

Ensolum's soil sampling program included the collection of six composite soil samples (S-1 through S-6) from the excavation and one composite soil sample (BF-1) from the backfill for laboratory analysis. The composite samples were comprised of five aliquots each and represent

an estimated 200 square foot (ft^2) or less sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. The excavator bucket and/or hand tools were utilized to obtain fresh aliquots from the excavation and backfill. Regulatory correspondence is provided in **Appendix E**.

First Sampling Event
On September 03, 2024, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-1 (8') and S-2 (8') were collected from the floor of the excavation. Composite soil samples S-3 (0' to 8'), S-4 (0' to 8'), S-5 (0' to 8'), and S-6 (0' to 8'), were collected from the walls of the excavation.

Second Sampling Event
On January 15, 2024, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil sample BF-1 was collected from the imported fill.

All soil samples were collected and placed in laboratory-prepared glassware. The containers were labeled and sealed using the laboratory-supplied labels and custody seals and were stored on ice in a cooler. The samples were relinquished to the courier for Eurofins Environment Testing South Central LLC (Eurofins) of Albuquerque, NM, under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX using Environmental Protection Agency (EPA) SW-846 Method 8021; TPH GRO/DRO/MRO using EPA SW-846 Method 8015; and chlorides using EPA Method 300.0.

The laboratory analytical results are summarized in **Table 1** (**Appendix F**). The laboratory data sheets and executed chain-of-custody forms are provided in **Appendix G**.

6.0 SOIL DATA EVALUATION

Ensolum compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-6 and BF-1) to the applicable NM EMNRD OCD closure criteria. The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

- The laboratory analytical results for the composite soil samples indicate that benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 10 mg/kg.

- The laboratory analytical results for the composite soil sample S-3 and S-5 indicate total BTEX concentrations of 0.33 mg/kg and 0.27 mg/kg, respectively, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for the other composite soil samples collected from the soils remaining at the Site indicate total combined BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg.

- The laboratory analytical results for composite soil sample S-3 indicate a total combined TPH GRO/DRO/MRO concentration of 18 mg/kg, which is less than the NM EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for the other composite soil samples collected from the soils remaining at the Site indicate total combined TPH GRO/DRO/MRO is

not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 100 mg/kg.

- The analytical results for the composite soil samples indicate that chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 600 mg/kg.

7.0 RECLAMATION

The excavation was backfilled with imported fill and then contoured to the surrounding grade. Once the Site is no longer being used for oil and gas production, final reclamation and revegetation will be addressed in accordance with 19.15.29.13 NMAC utilizing the recommended seed mix as described in the Vegetation Community Descriptions and Seed Mixes provided by the BLM Farmington Field Office. In this case the surrounding flood-plain/wash vegetation is predominantly of the Sagebrush Vegetation Community. Enterprise will reseed the area with the appropriate seed mix during the next favorable growing season.

8.0 FINDINGS AND RECOMMENDATION

- Seven composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, BTEX, chloride, or total combined TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.

- An estimated 65 yd^3 of petroleum hydrocarbon-affected soils were transported to the Envirotech landfarm for disposal/remediation.

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).

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 recommendation 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, 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 of Enterprise 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 this 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.

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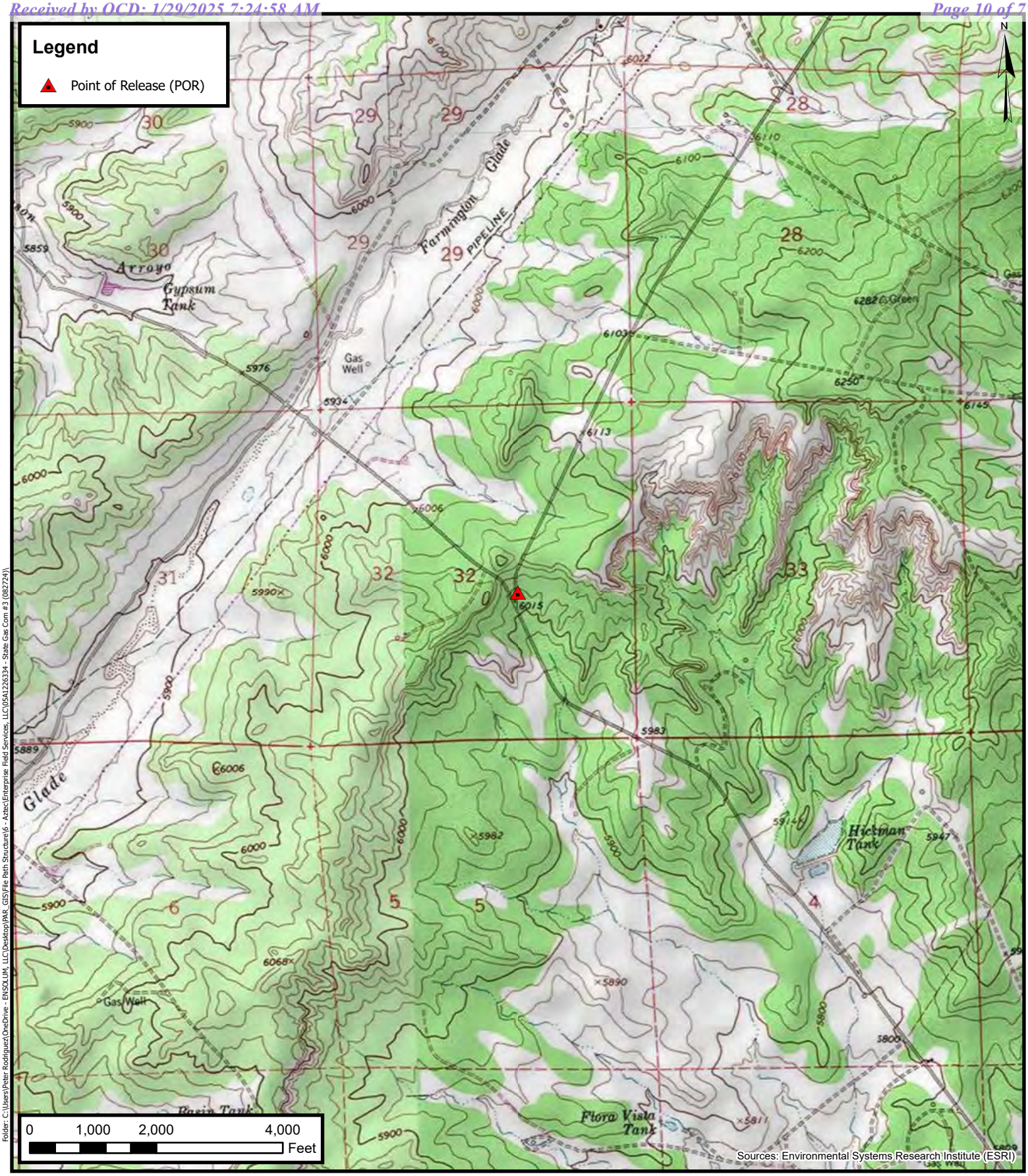
APPENDIX A

Figures



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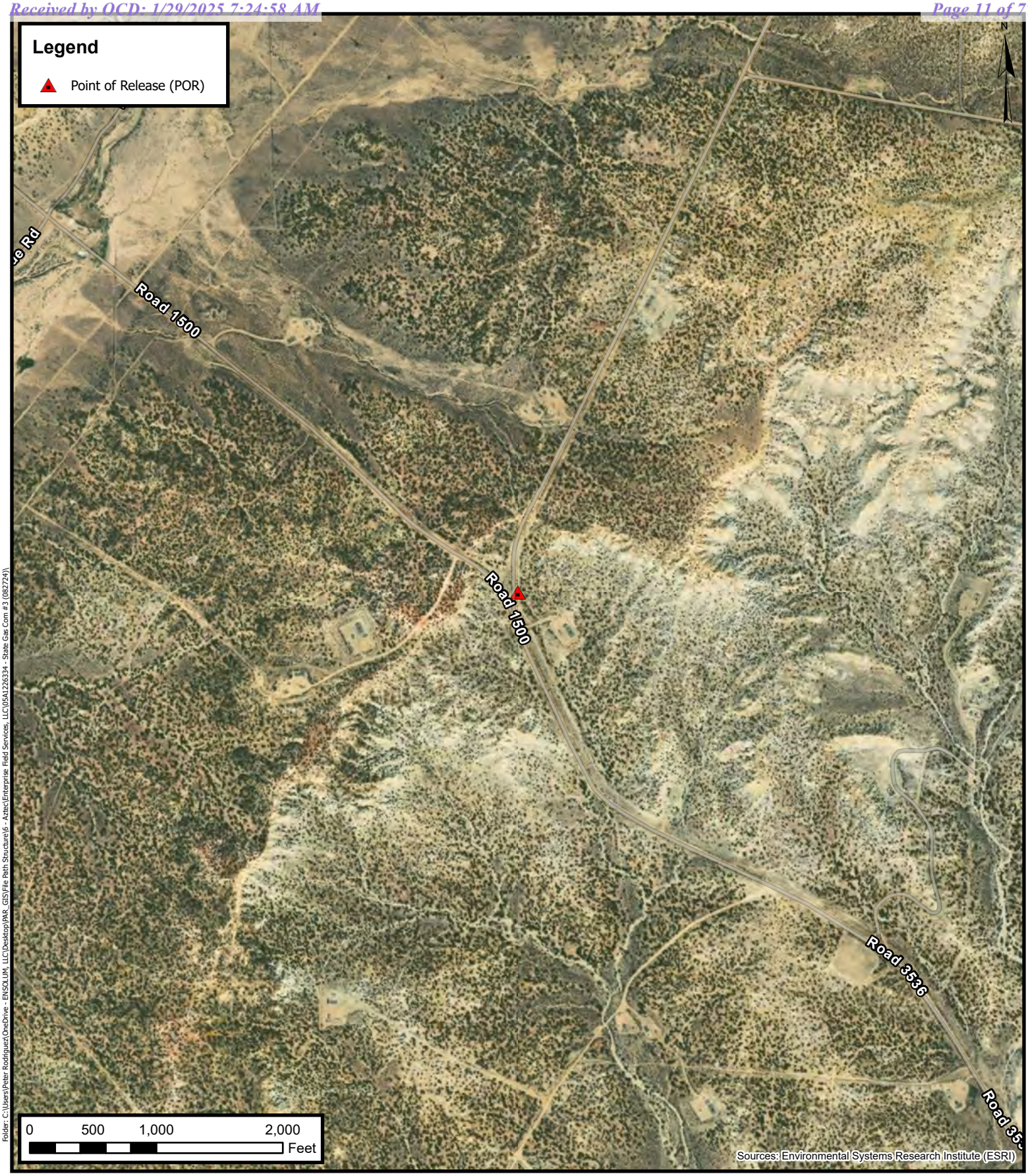
Environmental, Engineering and Hydrogeologic Consultants

Topographic Map

Enterprise Field Services, LLC
State Gas Com #3 (08/30/24)
Project Number: 05A1226334
Unit J, Sec 32, T31W, R12N, San Juan County, New Mexico
36.85498, -108.11931

FIGURE 1



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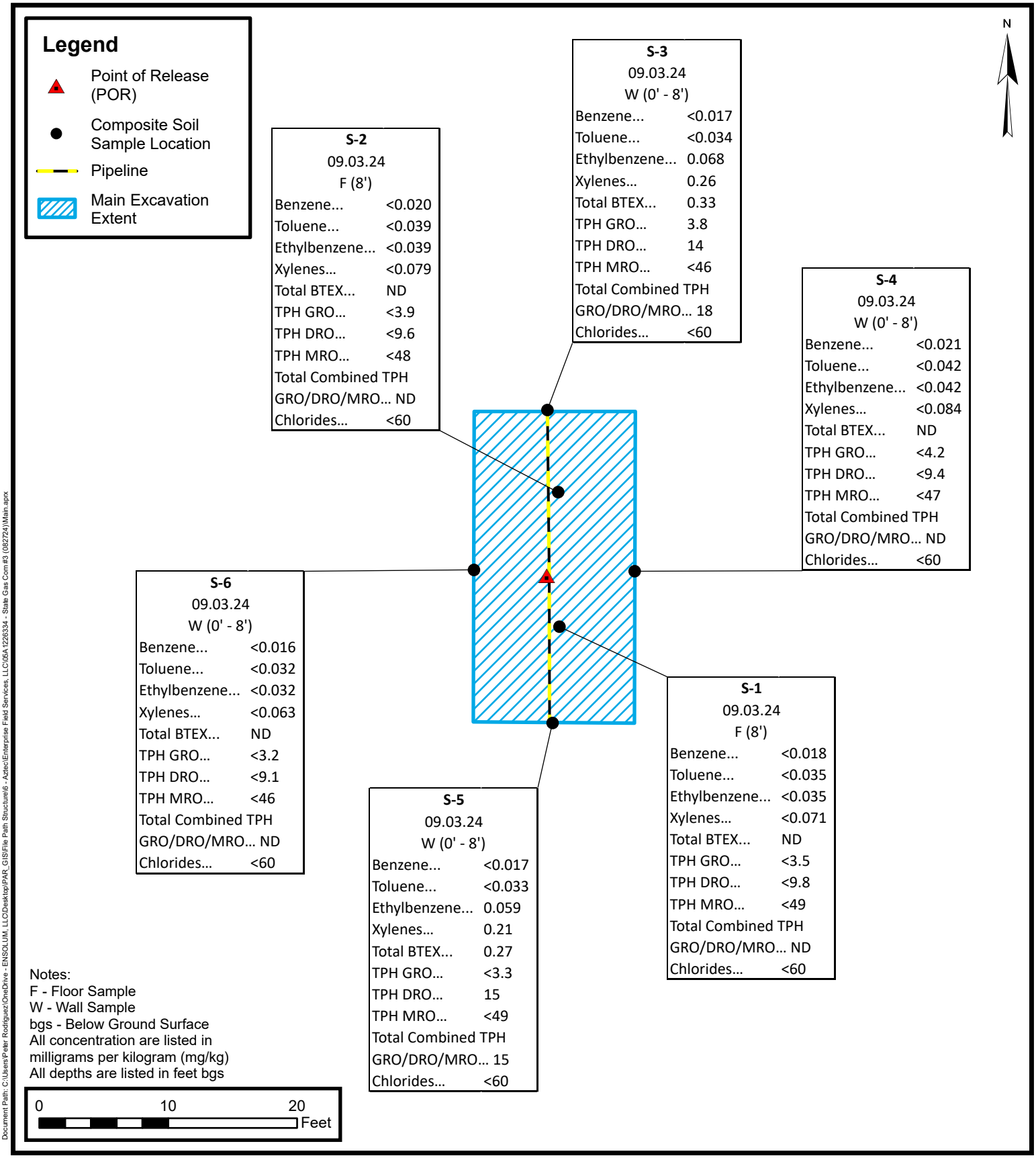
Site Vicinity Map

Enterprise Field Services, LLC
State Gas Com #3 (08/30/24)
Project Number: 05A1226334
Unit J, Sec 32, T31W, R12N, San Juan County, New Mexico
36.85498, -108.11931

FIGURE 2



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Environmental, Engineering and Hydrogeologic Consultants

Site Map with Soil Analytical Results

Enterprise Field Services, LLC
State Gas Com #3 (08/30/24)
Project Number: 05A1226334
Unit J, Sec 32, T31W, R12N, San Juan County, New Mexico
36.85498, -108.11931

FIGURE
3

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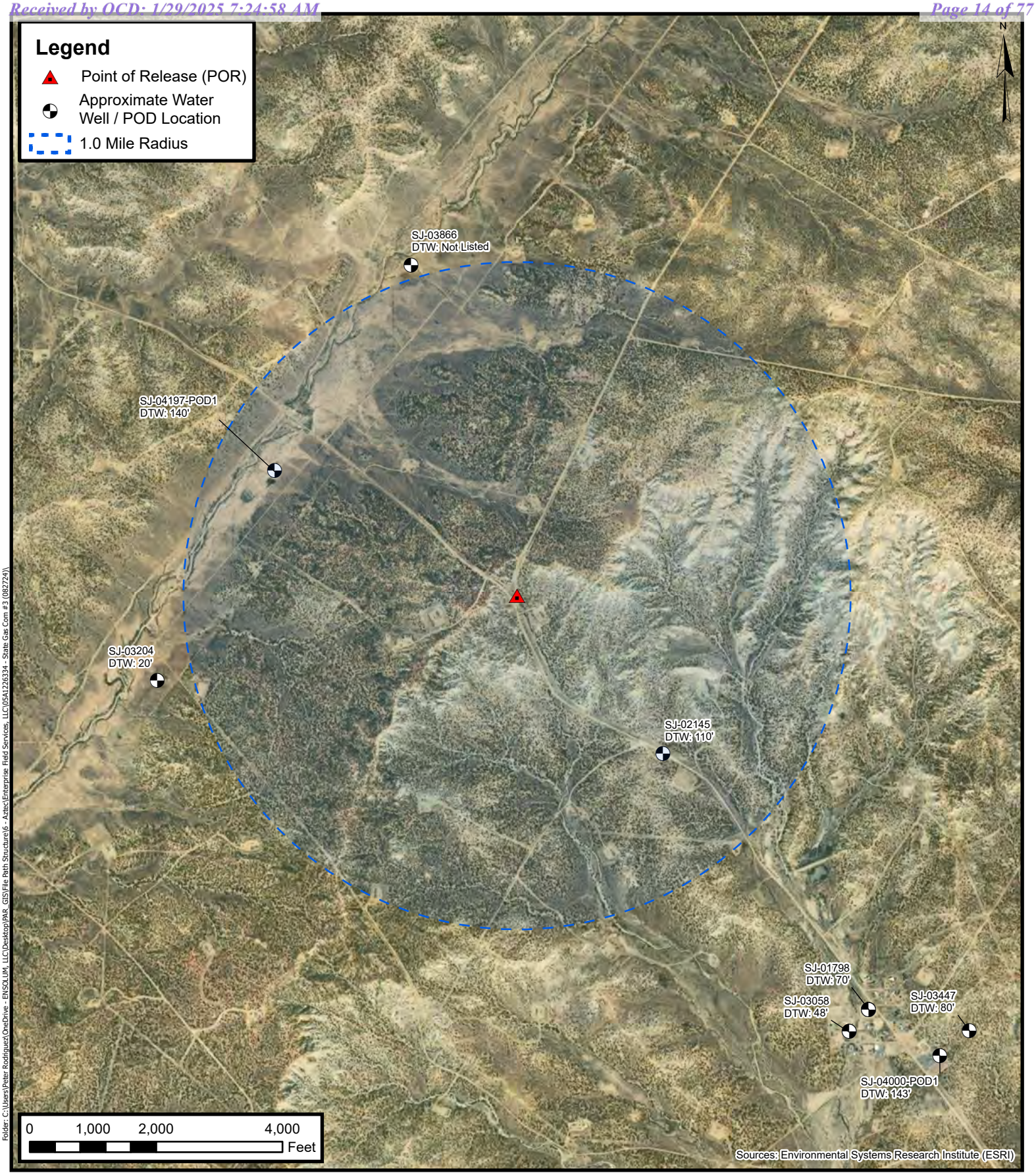
APPENDIX B

Siting Figures and Documentation



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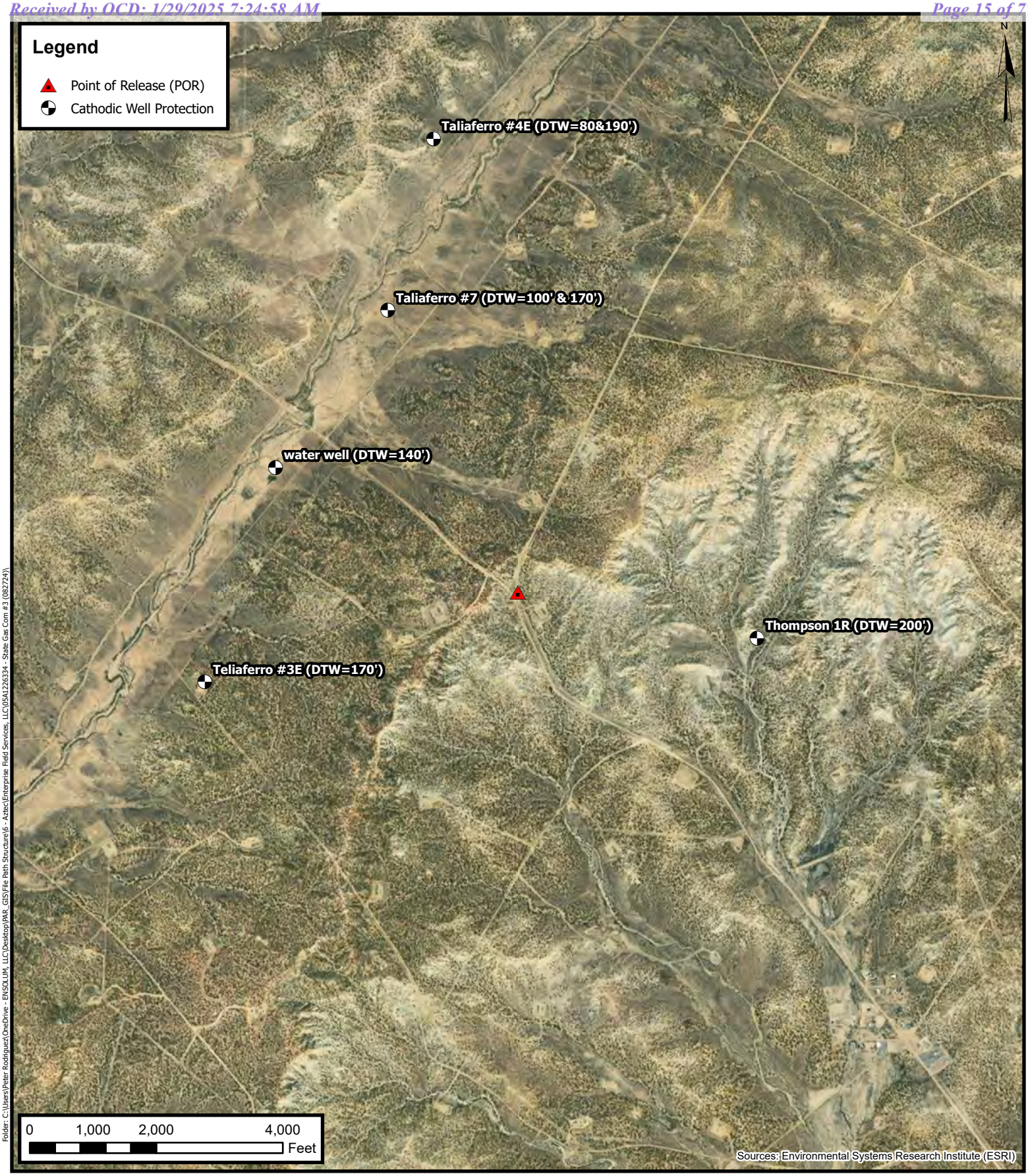
1.0 Mile Radius Water Well/POD Location Map

Enterprise Field Services, LLC
State Gas Com #3 (08/30/24)
Project Number: 05A1226334
Unit J, Sec 32, T31W, R12N, San Juan County, New Mexico
36.85498, -108.11931

FIGURE A



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Cathodic Protection Well Recorded Depth to Water

Enterprise Field Services, LLC
State Gas Com #3 (08/30/24)
Project Number: 05A1226334
Unit J, Sec 32, T31W, R12N, San Juan County, New Mexico
36.85498, -108.11931

FIGURE B

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300 Foot Radius Watercourse and Drainage Identification
Enterprise Field Services, LLC
State Gas Com #3 (08/30/24)
Project Number: 05A1226334
Unit J, Sec 32, T31W, R12N, San Juan County, New Mexico
36.85498, -108.11931

FIGURE C

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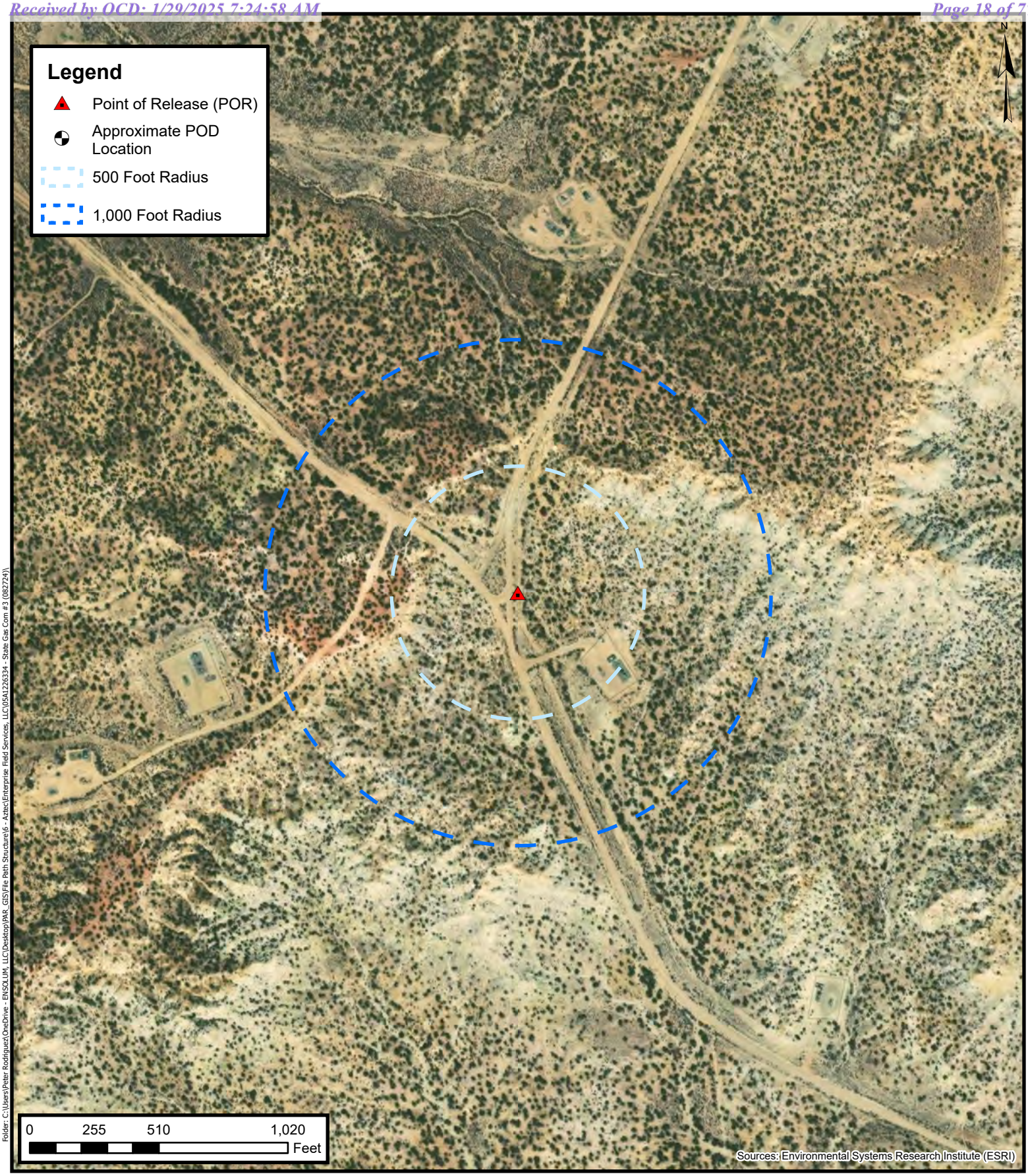
300 Foot Radius Occupied Structure Identification
Enterprise Field Services, LLC
State Gas Com #3 (08/30/24)
Project Number: 05A1226334
Unit J, Sec 32, T31W, R12N, San Juan County, New Mexico
36.85498, -108.11931

FIGURE D



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Water Well and Natural Spring Location

Enterprise Field Services, LLC
State Gas Com #3 (08/30/24)
Project Number: 05A1226334
Unit J, Sec 32, T31W, R12N, San Juan County, New Mexico
36.85498, -108.11931

FIGURE E

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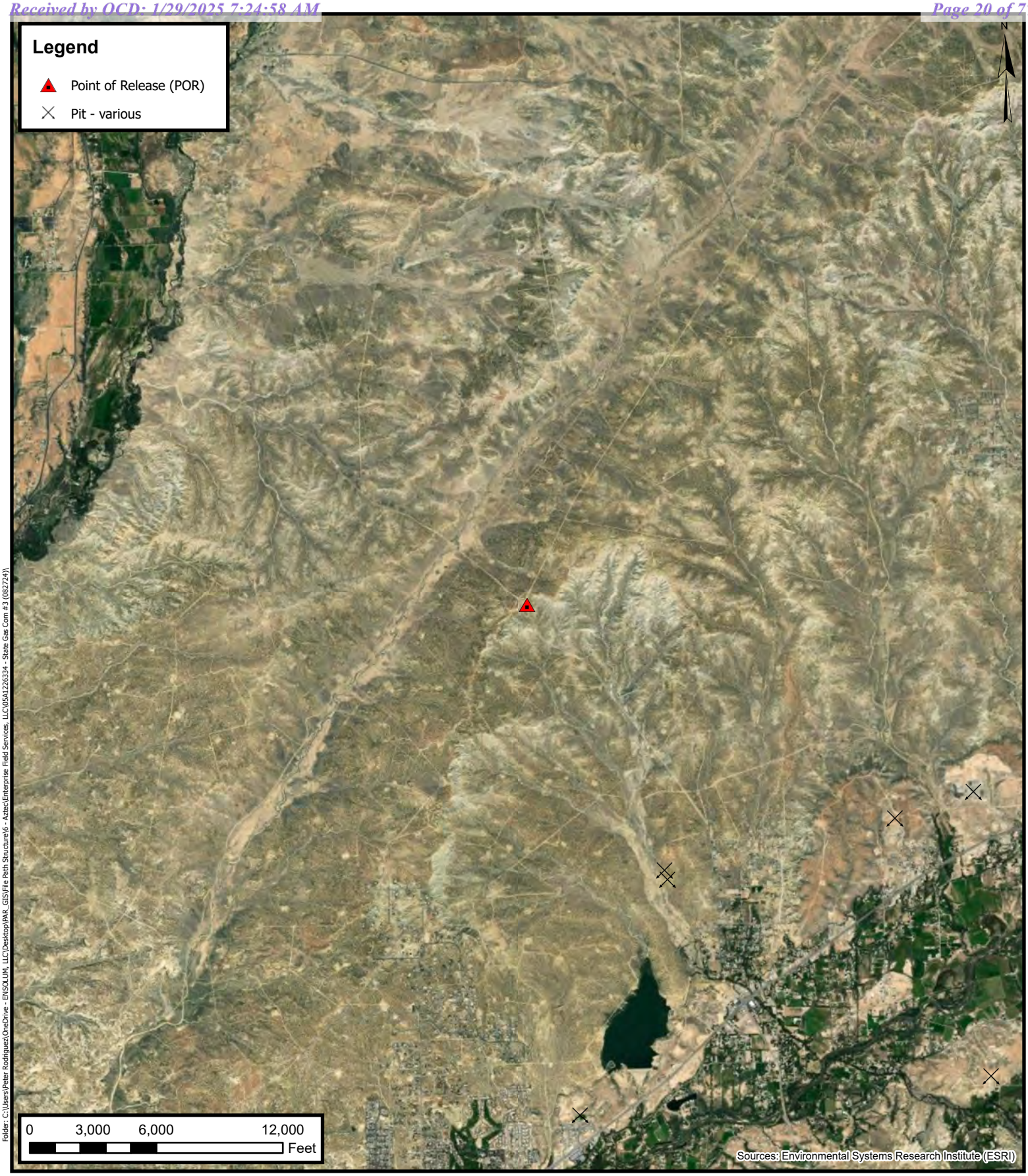
Wetlands

Enterprise Field Services, LLC
State Gas Com #3 (08/30/24)
Project Number: 05A1226334
Unit J, Sec 32, T31W, R12N, San Juan County, New Mexico
36.85498, -108.11931

FIGURE F



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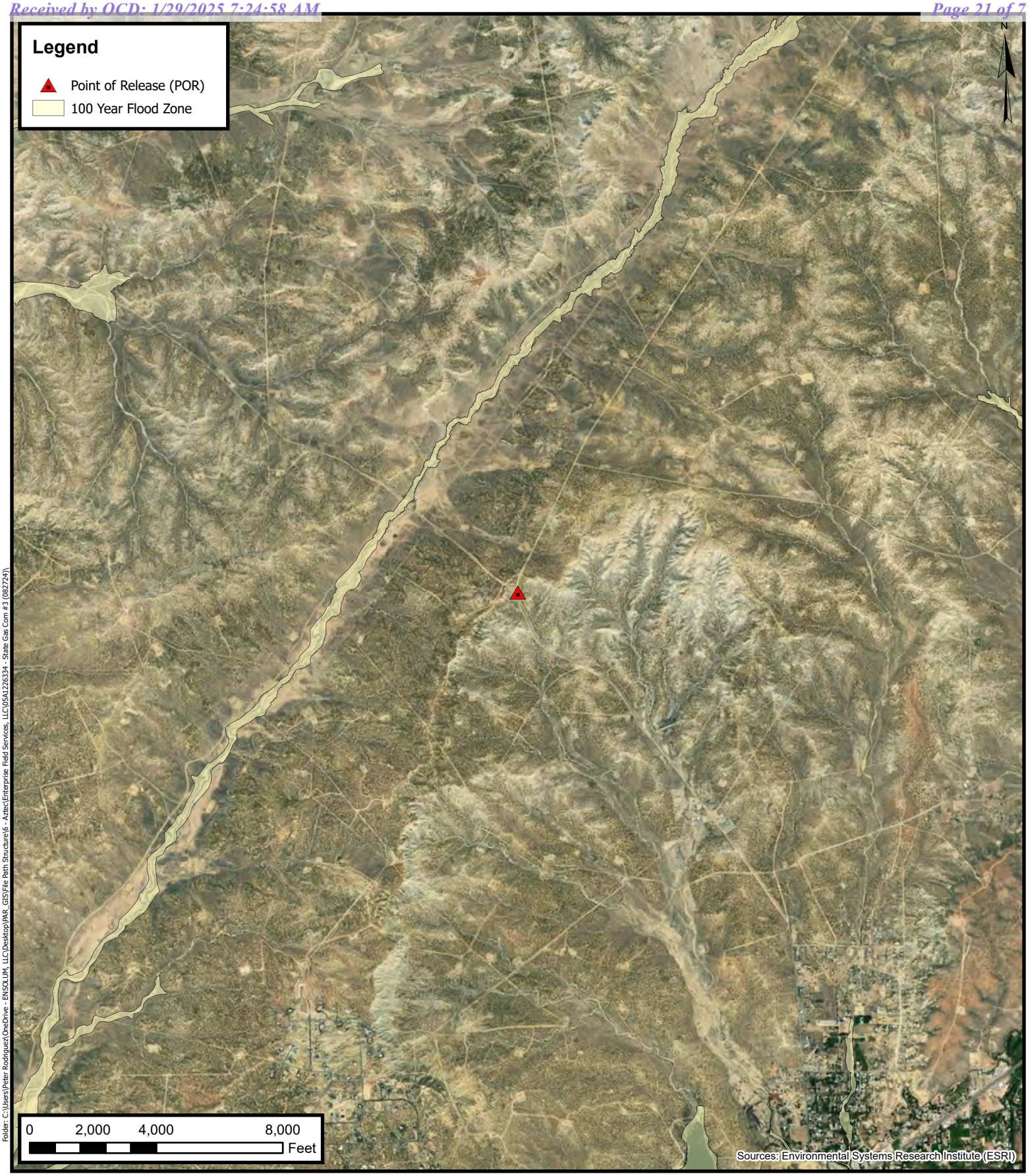
Mines, Mills, and Quarries

Enterprise Field Services, LLC
State Gas Com #3 (08/30/24)
Project Number: 05A1226334
Unit J, Sec 32, T31W, R12N, San Juan County, New Mexico
36.85498, -108.11931

FIGURE G



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100-Year Flood Plain Map

Enterprise Field Services, LLC
State Gas Com #3 (08/30/24)
Project Number: 05A1226334
Unit J, Sec 32, T31W, R12N, San Juan County, New Mexico
36.85498, -108.11931

FIGURE H

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APPENDIX C

Executed C-138 Solid Waste Acceptance Form

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

PayKey:RB21200
PM: Gary Turner
AFE: N74338

2. Originating Site:
State Com #3

3. Location of Material (Street Address, City, State or ULSTR):
UL P Section 32 T31N R12W; 36.852697, -108.118221

4. Source and Description of Waste:
Source: Remediation activities associated with a natural gas pipeline leak.
Description: Hydrocarbon/Condensate impacted soil associated natural gas pipeline release.
Estimated Volume 50 yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) 235/5 yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long Thomas Long 8-8-2024, representative for Enterprise Products Operating authorizes Envirotech, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, Grey Crabtree, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: OFT

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **Envirotech Inc. Soil Remediation Facility * Permit #: NM 01-0011**
Address of Facility: **Hilltop, NM**
Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Grey Crabtree TITLE: Envivo Manager DATE: 8/12/24
SIGNATURE: TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

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APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
State Com 3 (August 30, 2024)
Ensolum Project No. 05A1226334

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Photograph 1 Photograph Description: View of the release area.	
Photograph 2 Photograph Description: View of the in-process excavation activities.	
Photograph 3 Photograph Description: View of final excavation.	

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
State Com 3 (August 30, 2024)
Ensolum Project No. 05A1226334

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Photograph 4 Photograph Description: View of the excavation final restoration.	

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APPENDIX E

Regulatory Correspondence

Outlook

From: Long, Thomas <tjlong@eprod.com>
Sent: Wednesday, October 30, 2024 1:21 PM
To: Kyle Summers <ksummers@ensolum.com>
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 379736

[**EXTERNAL EMAIL**]

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

Enterprise Products

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Friday, August 30, 2024 3:22 PM
To: Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 379736

[Use caution with links/attachments]

To whom it may concern (c/o Thomas Long for Enterprise Field Services, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2424355183.

The sampling event is expected to take place:

When: 09/03/2024 @ 12:00
Where: J-32-31N-12W 0 FNL 0 FEL (36.85498,-108.11931)

Additional Information: Ensolum, LLC

Additional Instructions: 36.85498,-108.11931

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: Long, Thomas
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 419741
Date: Monday, January 13, 2025 7:17:53 AM

[Use caution with links/attachments]

To whom it may concern (c/o Thomas Long for Enterprise Field Services, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2424355183.

The sampling event is expected to take place:

When: 01/15/2025 @ 08:00
Where: J-32-31N-12W 0 FNL 0 FEL (36.85498,-108.11931)

Additional Information: Ensolum, LLC.

Additional Instructions: 36.85498,-108.11931

This is a backfill sampling event.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

ENSOLUM

APPENDIX F

Table 1 – Soil Analytical Summary

ENSOLUM

TABLE 1
State Gas Com #3 (08/30/24)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[1] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO)[1] (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I)				**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**100**	**600**
Excavation Composite Soil Samples													
S-1	09.03.24	C	8	<0.018	<0.035	<0.035	<0.071	ND	<3.5	<9.8	<49	ND	<60
S-2	09.03.24	C	8	<0.020	<0.039	<0.039	<0.079	ND	<3.9	<9.6	<48	ND	<60
S-3	09.03.24	C	0 to 8	<0.017	<0.034	0.068	0.26	0.33	3.8	14	<46	18	<60
S-4	09.03.24	C	0 to 8	<0.021	<0.042	<0.042	<0.084	ND	<4.2	<9.4	<47	ND	<60
S-5	09.03.24	C	0 to 8	<0.017	<0.033	0.059	0.21	0.27	<3.3	15	<49	15	<60
S-6	09.03.24	C	0 to 8	<0.016	<0.032	<0.032	<0.063	ND	<3.2	<9.1	<46	ND	<60
Backfill Composite Soil Sample													
BF-1	01.15.24	C	BF	<0.019	<0.038	<0.038	<0.075	ND	<3.8	<9.9	<49	ND	<60

*Note: Concentrations in **bold** and yellow exceed the applicable NM EMNRD Closure Criteria*

[1] = Total combined concentrations are rounded to two (2) significant figures to match the laboratory resolution of the individual constituents.

ND = Not Detected above the Practical Quantitation Limits (PQLs) or Reporting Limits (RLs)

NE = Not established

NS = Not sampled

mg/kg = milligrams per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

BF = Backfill Sample

ENSOLUM

APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Summers
Ensolum
606 S Rio Grande
Suite A
Aztec, New Mexico 87410

Generated 1/28/2025 1:01:04 PM Revision 1

JOB DESCRIPTION

State Gas Com #3 August 30

JOB NUMBER

885-11056-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

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Revision 1

Authorized for release by
John Caldwell, Project Manager
john.caldwell@et.eurofinsus.com
(505)345-3975

Client: Ensolum
Project/Site: State Gas Com #3 August 30

Laboratory Job ID: 885-11056-1

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 885-11056-1
Project/Site: State Gas Com #3 August 30

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 885-11056-1
Project: State Gas Com #3 August 30

Job ID: 885-11056-1 Eurofins Albuquerque

Job Narrative
885-11056-1

REVISION

The report being provided is a revision of the original report sent on 9/9/2024. The report (revision 1) is being revised due to Client asked to changed the project name to State Gas Com #3 August 30.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/4/2024 7:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.7°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-11572 recovered above the upper control limit for Diesel Range Organics [C10-C28]. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: S-1 (885-11056-1), S-2 (885-11056-2), S-4 (885-11056-4) and S-6 (885-11056-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Job ID: 885-11056-1
Project/Site: State Gas Com #3 August 30

Client Sample ID: S-1
Date Collected: 09/03/24 12:00
Date Received: 09/04/24 07:15

Lab Sample ID: 885-11056-1
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.5		mg/Kg		09/04/24 08:32	09/05/24 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*09/04/24 08:32*	*09/05/24 16:31*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.018		mg/Kg		09/04/24 08:32	09/05/24 16:31	1
Ethylbenzene	ND		0.035		mg/Kg		09/04/24 08:32	09/05/24 16:31	1
Toluene	ND		0.035		mg/Kg		09/04/24 08:32	09/05/24 16:31	1
Xylenes, Total	ND		0.071		mg/Kg		09/04/24 08:32	09/05/24 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*09/04/24 08:32*	*09/05/24 16:31*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		09/04/24 08:42	09/04/24 15:41	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/04/24 08:42	09/04/24 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*09/04/24 08:42*	*09/04/24 15:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/04/24 09:10	09/04/24 11:33	20

Client Sample Results

Client: Ensolum
Job ID: 885-11056-1
Project/Site: State Gas Com #3 August 30

Client Sample ID: S-2
Date Collected: 09/03/24 12:05
Date Received: 09/04/24 07:15

Lab Sample ID: 885-11056-2
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.9		mg/Kg		09/04/24 08:32	09/05/24 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*09/04/24 08:32*	*09/05/24 16:53*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		09/04/24 08:32	09/05/24 16:53	1
Ethylbenzene	ND		0.039		mg/Kg		09/04/24 08:32	09/05/24 16:53	1
Toluene	ND		0.039		mg/Kg		09/04/24 08:32	09/05/24 16:53	1
Xylenes, Total	ND		0.079		mg/Kg		09/04/24 08:32	09/05/24 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*09/04/24 08:32*	*09/05/24 16:53*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		09/04/24 08:42	09/04/24 16:05	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/04/24 08:42	09/04/24 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*09/04/24 08:42*	*09/04/24 16:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/04/24 09:10	09/04/24 11:48	20

Client Sample Results

Client: Ensolum
Job ID: 885-11056-1
Project/Site: State Gas Com #3 August 30

Client Sample ID: S-3
Date Collected: 09/03/24 12:10
Date Received: 09/04/24 07:15

Lab Sample ID: 885-11056-3
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	**3.8**		3.4		mg/Kg		09/04/24 08:32	09/05/24 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*35 - 166*	*09/04/24 08:32*	*09/05/24 17:15*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017		mg/Kg		09/04/24 08:32	09/05/24 17:15	1
Ethylbenzene	ND		0.034		mg/Kg		09/04/24 08:32	09/05/24 17:15	1
Toluene	**0.068**		0.034		mg/Kg		09/04/24 08:32	09/05/24 17:15	1
Xylenes, Total	**0.26**		0.068		mg/Kg		09/04/24 08:32	09/05/24 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*48 - 145*	*09/04/24 08:32*	*09/05/24 17:15*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**14**		9.2		mg/Kg		09/04/24 08:42	09/05/24 12:14	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/04/24 08:42	09/05/24 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*110*		*62 - 134*	*09/04/24 08:42*	*09/05/24 12:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/04/24 09:10	09/04/24 12:03	20

Client Sample Results

Client: Ensolum
Project/Site: State Gas Com #3 August 30

Job ID: 885-11056-1

Client Sample ID: S-4
Date Collected: 09/03/24 12:15
Date Received: 09/04/24 07:15

Lab Sample ID: 885-11056-4
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.2		mg/Kg		09/04/24 08:32	09/05/24 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*35 - 166*	*09/04/24 08:32*	*09/05/24 17:37*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.021		mg/Kg		09/04/24 08:32	09/05/24 17:37	1
Ethylbenzene	ND		0.042		mg/Kg		09/04/24 08:32	09/05/24 17:37	1
Toluene	ND		0.042		mg/Kg		09/04/24 08:32	09/05/24 17:37	1
Xylenes, Total	ND		0.084		mg/Kg		09/04/24 08:32	09/05/24 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*48 - 145*	*09/04/24 08:32*	*09/05/24 17:37*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		09/04/24 08:42	09/04/24 16:53	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/04/24 08:42	09/04/24 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*09/04/24 08:42*	*09/04/24 16:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/04/24 09:10	09/04/24 12:18	20

Client Sample Results

Client: Ensolum
Job ID: 885-11056-1
Project/Site: State Gas Com #3 August 30

Client Sample ID: S-5
Lab Sample ID: 885-11056-5
Date Collected: 09/03/24 12:20
Matrix: Solid
Date Received: 09/04/24 07:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.3		mg/Kg		09/04/24 08:32	09/05/24 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*35 - 166*	*09/04/24 08:32*	*09/05/24 17:59*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017		mg/Kg		09/04/24 08:32	09/05/24 17:59	1
Ethylbenzene	ND		0.033		mg/Kg		09/04/24 08:32	09/05/24 17:59	1
Toluene	**0.059**		0.033		mg/Kg		09/04/24 08:32	09/05/24 17:59	1
Xylenes, Total	**0.21**		0.066		mg/Kg		09/04/24 08:32	09/05/24 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*09/04/24 08:32*	*09/05/24 17:59*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**15**		9.8		mg/Kg		09/04/24 08:42	09/05/24 12:38	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/04/24 08:42	09/05/24 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*110*		*62 - 134*	*09/04/24 08:42*	*09/05/24 12:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/04/24 09:10	09/04/24 12:33	20

Client Sample Results

Client: Ensolum
Job ID: 885-11056-1
Project/Site: State Gas Com #3 August 30

Client Sample ID: S-6
Lab Sample ID: 885-11056-6
Date Collected: 09/03/24 12:25
Matrix: Solid
Date Received: 09/04/24 07:15

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.2		mg/Kg		09/04/24 08:32	09/05/24 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*09/04/24 08:32*	*09/05/24 18:42*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.016		mg/Kg		09/04/24 08:32	09/05/24 18:42	1
Ethylbenzene	ND		0.032		mg/Kg		09/04/24 08:32	09/05/24 18:42	1
Toluene	ND		0.032		mg/Kg		09/04/24 08:32	09/05/24 18:42	1
Xylenes, Total	ND		0.063		mg/Kg		09/04/24 08:32	09/05/24 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*09/04/24 08:32*	*09/05/24 18:42*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		09/04/24 08:42	09/04/24 17:40	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/04/24 08:42	09/04/24 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*09/04/24 08:42*	*09/04/24 17:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/04/24 09:10	09/04/24 12:48	20

QC Sample Results

Client: Ensolum
Project/Site: State Gas Com #3 August 30

Job ID: 885-11056-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-11552/1-A
Matrix: Solid
Analysis Batch: 11738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11552

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		09/04/24 08:32	09/05/24 16:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*35 - 166*	*09/04/24 08:32*	*09/05/24 16:10*	*1*

Lab Sample ID: LCS 885-11552/2-A
Matrix: Solid
Analysis Batch: 11738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11552

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	26.4		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*227*	*S1+*	*35 - 166*

Lab Sample ID: 885-11056-1 MS
Matrix: Solid
Analysis Batch: 11738

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 11552

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		17.7	17.5		mg/Kg		99	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*206*	*S1+*	*35 - 166*

Lab Sample ID: 885-11056-1 MSD
Matrix: Solid
Analysis Batch: 11738

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 11552

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		17.7	18.1		mg/Kg		102	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*208*	*S1+*	*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-11552/1-A
Matrix: Solid
Analysis Batch: 11740

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11552

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/04/24 08:32	09/05/24 16:10	1
Ethylbenzene	ND		0.050		mg/Kg		09/04/24 08:32	09/05/24 16:10	1
Toluene	ND		0.050		mg/Kg		09/04/24 08:32	09/05/24 16:10	1

QC Sample Results

Client: Ensolum
Project/Site: State Gas Com #3 August 30

Job ID: 885-11056-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-11552/1-A
Matrix: Solid
Analysis Batch: 11740

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11552

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		09/04/24 08:32	09/05/24 16:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*48 - 145*	*09/04/24 08:32*	*09/05/24 16:10*	*1*

Lab Sample ID: LCS 885-11552/3-A
Matrix: Solid
Analysis Batch: 11740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11552

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.01		mg/Kg		101	70 - 130		
Ethylbenzene			1.00	1.04		mg/Kg		104	70 - 130		
Toluene			1.00	1.03		mg/Kg		103	70 - 130		
Xylenes, Total			3.00	3.09		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*48 - 145*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-11555/1-A
Matrix: Solid
Analysis Batch: 11572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11555

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/04/24 08:42	09/04/24 14:17	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/04/24 08:42	09/04/24 14:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*09/04/24 08:42*	*09/04/24 14:17*	*1*

Lab Sample ID: LCS 885-11555/2-A
Matrix: Solid
Analysis Batch: 11659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11555

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	56.2		mg/Kg		112	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*108*		*62 - 134*

QC Sample Results

Client: Ensolum
Project/Site: State Gas Com #3 August 30

Job ID: 885-11056-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-11056-6 MS
Matrix: Solid
Analysis Batch: 11659

Client Sample ID: S-6
Prep Type: Total/NA
Prep Batch: 11555

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		47.5	53.9		mg/Kg		94	44 - 136		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*

Lab Sample ID: 885-11056-6 MSD
Matrix: Solid
Analysis Batch: 11659

Client Sample ID: S-6
Prep Type: Total/NA
Prep Batch: 11555

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		46.9	55.5		mg/Kg		99	44 - 136	3	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*109*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-11570/1-A
Matrix: Solid
Analysis Batch: 11605

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11570

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		09/04/24 09:10	09/04/24 11:03	1

Lab Sample ID: LCS 885-11570/2-A
Matrix: Solid
Analysis Batch: 11605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11570

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.3		mg/Kg		94	90 - 110		

QC Association Summary

Client: Ensolum
Project/Site: State Gas Com #3 August 30

Job ID: 885-11056-1

GC VOA

Prep Batch: 11552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11056-1	S-1	Total/NA	Solid	5035	
885-11056-2	S-2	Total/NA	Solid	5035	
885-11056-3	S-3	Total/NA	Solid	5035	
885-11056-4	S-4	Total/NA	Solid	5035	
885-11056-5	S-5	Total/NA	Solid	5035	
885-11056-6	S-6	Total/NA	Solid	5035	
MB 885-11552/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-11552/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-11552/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-11056-1 MS	S-1	Total/NA	Solid	5035	
885-11056-1 MSD	S-1	Total/NA	Solid	5035	

Analysis Batch: 11738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11056-1	S-1	Total/NA	Solid	8015M/D	11552
885-11056-2	S-2	Total/NA	Solid	8015M/D	11552
885-11056-3	S-3	Total/NA	Solid	8015M/D	11552
885-11056-4	S-4	Total/NA	Solid	8015M/D	11552
885-11056-5	S-5	Total/NA	Solid	8015M/D	11552
885-11056-6	S-6	Total/NA	Solid	8015M/D	11552
MB 885-11552/1-A	Method Blank	Total/NA	Solid	8015M/D	11552
LCS 885-11552/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11552
885-11056-1 MS	S-1	Total/NA	Solid	8015M/D	11552
885-11056-1 MSD	S-1	Total/NA	Solid	8015M/D	11552

Analysis Batch: 11740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11056-1	S-1	Total/NA	Solid	8021B	11552
885-11056-2	S-2	Total/NA	Solid	8021B	11552
885-11056-3	S-3	Total/NA	Solid	8021B	11552
885-11056-4	S-4	Total/NA	Solid	8021B	11552
885-11056-5	S-5	Total/NA	Solid	8021B	11552
885-11056-6	S-6	Total/NA	Solid	8021B	11552
MB 885-11552/1-A	Method Blank	Total/NA	Solid	8021B	11552
LCS 885-11552/3-A	Lab Control Sample	Total/NA	Solid	8021B	11552

GC Semi VOA

Prep Batch: 11555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11056-1	S-1	Total/NA	Solid	SHAKE	
885-11056-2	S-2	Total/NA	Solid	SHAKE	
885-11056-3	S-3	Total/NA	Solid	SHAKE	
885-11056-4	S-4	Total/NA	Solid	SHAKE	
885-11056-5	S-5	Total/NA	Solid	SHAKE	
885-11056-6	S-6	Total/NA	Solid	SHAKE	
MB 885-11555/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-11555/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-11056-6 MS	S-6	Total/NA	Solid	SHAKE	
885-11056-6 MSD	S-6	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ensolum
Project/Site: State Gas Com #3 August 30

Job ID: 885-11056-1

GC Semi VOA

Analysis Batch: 11572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11056-1	S-1	Total/NA	Solid	8015M/D	11555
885-11056-2	S-2	Total/NA	Solid	8015M/D	11555
885-11056-4	S-4	Total/NA	Solid	8015M/D	11555
885-11056-6	S-6	Total/NA	Solid	8015M/D	11555
MB 885-11555/1-A	Method Blank	Total/NA	Solid	8015M/D	11555

Analysis Batch: 11659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11056-3	S-3	Total/NA	Solid	8015M/D	11555
885-11056-5	S-5	Total/NA	Solid	8015M/D	11555
LCS 885-11555/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11555
885-11056-6 MS	S-6	Total/NA	Solid	8015M/D	11555
885-11056-6 MSD	S-6	Total/NA	Solid	8015M/D	11555

HPLC/IC

Prep Batch: 11570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11056-1	S-1	Total/NA	Solid	300_Prep	
885-11056-2	S-2	Total/NA	Solid	300_Prep	
885-11056-3	S-3	Total/NA	Solid	300_Prep	
885-11056-4	S-4	Total/NA	Solid	300_Prep	
885-11056-5	S-5	Total/NA	Solid	300_Prep	
885-11056-6	S-6	Total/NA	Solid	300_Prep	
MB 885-11570/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-11570/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 11605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11056-1	S-1	Total/NA	Solid	300.0	11570
885-11056-2	S-2	Total/NA	Solid	300.0	11570
885-11056-3	S-3	Total/NA	Solid	300.0	11570
885-11056-4	S-4	Total/NA	Solid	300.0	11570
885-11056-5	S-5	Total/NA	Solid	300.0	11570
885-11056-6	S-6	Total/NA	Solid	300.0	11570
MB 885-11570/1-A	Method Blank	Total/NA	Solid	300.0	11570
LCS 885-11570/2-A	Lab Control Sample	Total/NA	Solid	300.0	11570

Lab Chronicle

Client: Ensolum
Job ID: 885-11056-1
Project/Site: State Gas Com #3 August 30

Client Sample ID: S-1
Lab Sample ID: 885-11056-1
Date Collected: 09/03/24 12:00
Matrix: Solid
Date Received: 09/04/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			11552	AT	EET ALB	09/04/24 08:32
Total/NA	Analysis	8015M/D		1	11738	AT	EET ALB	09/05/24 16:31
Total/NA	Prep	5035			11552	AT	EET ALB	09/04/24 08:32
Total/NA	Analysis	8021B		1	11740	AT	EET ALB	09/05/24 16:31
Total/NA	Prep	SHAKE			11555	KR	EET ALB	09/04/24 08:42
Total/NA	Analysis	8015M/D		1	11572	KR	EET ALB	09/04/24 15:41
Total/NA	Prep	300_Prep			11570	RC	EET ALB	09/04/24 09:10
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/04/24 11:33

Client Sample ID: S-2
Lab Sample ID: 885-11056-2
Date Collected: 09/03/24 12:05
Matrix: Solid
Date Received: 09/04/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			11552	AT	EET ALB	09/04/24 08:32
Total/NA	Analysis	8015M/D		1	11738	AT	EET ALB	09/05/24 16:53
Total/NA	Prep	5035			11552	AT	EET ALB	09/04/24 08:32
Total/NA	Analysis	8021B		1	11740	AT	EET ALB	09/05/24 16:53
Total/NA	Prep	SHAKE			11555	KR	EET ALB	09/04/24 08:42
Total/NA	Analysis	8015M/D		1	11572	KR	EET ALB	09/04/24 16:05
Total/NA	Prep	300_Prep			11570	RC	EET ALB	09/04/24 09:10
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/04/24 11:48

Client Sample ID: S-3
Lab Sample ID: 885-11056-3
Date Collected: 09/03/24 12:10
Matrix: Solid
Date Received: 09/04/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			11552	AT	EET ALB	09/04/24 08:32
Total/NA	Analysis	8015M/D		1	11738	AT	EET ALB	09/05/24 17:15
Total/NA	Prep	5035			11552	AT	EET ALB	09/04/24 08:32
Total/NA	Analysis	8021B		1	11740	AT	EET ALB	09/05/24 17:15
Total/NA	Prep	SHAKE			11555	KR	EET ALB	09/04/24 08:42
Total/NA	Analysis	8015M/D		1	11659	KR	EET ALB	09/05/24 12:14
Total/NA	Prep	300_Prep			11570	RC	EET ALB	09/04/24 09:10
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/04/24 12:03

Client Sample ID: S-4
Lab Sample ID: 885-11056-4
Date Collected: 09/03/24 12:15
Matrix: Solid
Date Received: 09/04/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			11552	AT	EET ALB	09/04/24 08:32
Total/NA	Analysis	8015M/D		1	11738	AT	EET ALB	09/05/24 17:37

Lab Chronicle

Client: Ensolum Job ID: 885-11056-1
Project/Site: State Gas Com #3 August 30

Client Sample ID: S-4 Lab Sample ID: 885-11056-4
Date Collected: 09/03/24 12:15 **Matrix: Solid**
Date Received: 09/04/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			11552	AT	EET ALB	09/04/24 08:32
Total/NA	Analysis	8021B		1	11740	AT	EET ALB	09/05/24 17:37
Total/NA	Prep	SHAKE			11555	KR	EET ALB	09/04/24 08:42
Total/NA	Analysis	8015M/D		1	11572	KR	EET ALB	09/04/24 16:53
Total/NA	Prep	300_Prep			11570	RC	EET ALB	09/04/24 09:10
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/04/24 12:18

Client Sample ID: S-5 Lab Sample ID: 885-11056-5
Date Collected: 09/03/24 12:20 **Matrix: Solid**
Date Received: 09/04/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			11552	AT	EET ALB	09/04/24 08:32
Total/NA	Analysis	8015M/D		1	11738	AT	EET ALB	09/05/24 17:59
Total/NA	Prep	5035			11552	AT	EET ALB	09/04/24 08:32
Total/NA	Analysis	8021B		1	11740	AT	EET ALB	09/05/24 17:59
Total/NA	Prep	SHAKE			11555	KR	EET ALB	09/04/24 08:42
Total/NA	Analysis	8015M/D		1	11659	KR	EET ALB	09/05/24 12:38
Total/NA	Prep	300_Prep			11570	RC	EET ALB	09/04/24 09:10
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/04/24 12:33

Client Sample ID: S-6 Lab Sample ID: 885-11056-6
Date Collected: 09/03/24 12:25 **Matrix: Solid**
Date Received: 09/04/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			11552	AT	EET ALB	09/04/24 08:32
Total/NA	Analysis	8015M/D		1	11738	AT	EET ALB	09/05/24 18:42
Total/NA	Prep	5035			11552	AT	EET ALB	09/04/24 08:32
Total/NA	Analysis	8021B		1	11740	AT	EET ALB	09/05/24 18:42
Total/NA	Prep	SHAKE			11555	KR	EET ALB	09/04/24 08:42
Total/NA	Analysis	8015M/D		1	11572	KR	EET ALB	09/04/24 17:40
Total/NA	Prep	300_Prep			11570	RC	EET ALB	09/04/24 09:10
Total/NA	Analysis	300.0		20	11605	EH	EET ALB	09/04/24 12:48

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ensolum
Job ID: 885-11056-1
Project/Site: State Gas Com #3 August 30

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-25-25

Chain-of-Custody Record

Client: Ensolum, LLC.

Mailing Address: 606 S Rio Grande Suit A 87410

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 120 %
☐ Standard ☑ Rush 9-4-24

Project Name: State Gas Com #3 August '24

Project #:

Project Manager: K Summers

Sampler: C Whaon

On Ice: ☑ Yes ☐ No check

# of Coolers: 1

Cooler Temp(Including CF): 3.8 - 0.1 = 3.7 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORA

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

885-11056 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
9/3	1206	S	S-1	1 4oz Jar	Cool	1	✓	✓					✓			
9/3	1205	S	S-2		Cool	2	✓	✓					✓			
9/3	1210	S	S-3		Cool	3	✓	✓					✓			
9/3	1215	S	S-4		Cool	4	✓	✓					✓			
9/3	1220	S	S-5		Cool	5	✓	✓					✓			
9/3	1225	S	S-6		Cool	6	✓	✓					✓			

Date	Time	Relinquished by:	Received by:	Via	Date	Time
9/3/24	1152				9/3/24	1152
9/3/24	1711			Courier	9/4/24	7:15

Remarks: Tom Long AM 140058 Standard Day

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Ensolum Job Number: 885-11056-1

Login Number: 11056 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kyle Summers
Ensolum
606 S Rio Grande
Suite A
Aztec, New Mexico 87410

Generated 1/22/2025 3:49:43 PM

JOB DESCRIPTION

State Com #3 (08/30/24)

JOB NUMBER

885-18480-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
1/22/2025 3:49:43 PM

Authorized for release by
John Caldwell, Project Manager
john.caldwell@et.eurofinsus.com
(505)345-3975

Client: Ensolum
Project/Site: State Com #3 (08/30/24)

Laboratory Job ID: 885-18480-1

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 885-18480-1
Project/Site: State Com #3 (08/30/24)

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 885-18480-1
Project: State Com #3 (08/30/24)

Job ID: 885-18480-1 Eurofins Albuquerque

Job Narrative
885-18480-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 1/16/2025 7:10 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.2°C.

Gasoline Range Organics
Method 8015D_GRO: Surrogate 4-Bromofluorobenzene recovery for the following samples were outside control limits: BF-1 (885-18480-1), (LCS 885-19406/2-A) and (885-18480-A-1-B MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Job ID: 885-18480-1
Project/Site: State Com #3 (08/30/24)

Client Sample ID: BF-1
Lab Sample ID: 885-18480-1
Date Collected: 01/15/25 08:00
Matrix: Solid
Date Received: 01/16/25 07:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.8		mg/Kg		01/16/25 08:27	01/16/25 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*01/16/25 08:27*	*01/16/25 11:54*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019		mg/Kg		01/16/25 08:27	01/16/25 11:54	1
Ethylbenzene	ND		0.038		mg/Kg		01/16/25 08:27	01/16/25 11:54	1
Toluene	ND		0.038		mg/Kg		01/16/25 08:27	01/16/25 11:54	1
Xylenes, Total	ND		0.075		mg/Kg		01/16/25 08:27	01/16/25 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*01/16/25 08:27*	*01/16/25 11:54*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		01/16/25 08:40	01/16/25 11:36	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		01/16/25 08:40	01/16/25 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*01/16/25 08:40*	*01/16/25 11:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		01/16/25 09:58	01/16/25 11:16	20

QC Sample Results

Client: Ensolum
Job ID: 885-18480-1
Project/Site: State Com #3 (08/30/24)

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-19406/1-A
Matrix: Solid
Analysis Batch: 19407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19406

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		01/16/25 08:27	01/16/25 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*01/16/25 08:27*	*01/16/25 10:43*	*1*

Lab Sample ID: LCS 885-19406/2-A
Matrix: Solid
Analysis Batch: 19407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19406

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	22.3		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*195*		*35 - 166*

Lab Sample ID: 885-18480-1 MS
Matrix: Solid
Analysis Batch: 19407

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 19406

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		18.8	18.1		mg/Kg		96	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*201*		*35 - 166*

Lab Sample ID: 885-18480-1 MSD
Matrix: Solid
Analysis Batch: 19407

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 19406

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		18.8	18.1		mg/Kg		96	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*198*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-19406/1-A
Matrix: Solid
Analysis Batch: 19408

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19406

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		01/16/25 08:27	01/16/25 10:43	1
Ethylbenzene	ND		0.050		mg/Kg		01/16/25 08:27	01/16/25 10:43	1
Toluene	ND		0.050		mg/Kg		01/16/25 08:27	01/16/25 10:43	1

QC Sample Results

Client: Ensolum
Job ID: 885-18480-1
Project/Site: State Com #3 (08/30/24)

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-19406/1-A
Matrix: Solid
Analysis Batch: 19408

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19406

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		01/16/25 08:27	01/16/25 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*01/16/25 08:27*	*01/16/25 10:43*	*1*

Lab Sample ID: LCS 885-19406/3-A
Matrix: Solid
Analysis Batch: 19408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19406

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.09		mg/Kg		109	70 - 130		
Ethylbenzene			1.00	1.10		mg/Kg		110	70 - 130		
Toluene			1.00	1.10		mg/Kg		110	70 - 130		
Xylenes, Total			3.00	3.24		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*48 - 145*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-19409/1-A
Matrix: Solid
Analysis Batch: 19335

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19409

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		01/16/25 08:40	01/16/25 11:14	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		01/16/25 08:40	01/16/25 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*01/16/25 08:40*	*01/16/25 11:14*	*1*

Lab Sample ID: LCS 885-19409/2-A
Matrix: Solid
Analysis Batch: 19335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19409

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	47.4		mg/Kg		95	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*88*		*62 - 134*

QC Sample Results

Client: Ensolum
Job ID: 885-18480-1
Project/Site: State Com #3 (08/30/24)

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 885-19411/3
Matrix: Solid
Analysis Batch: 19411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.529		mg/L		106	50 - 150		

Lab Sample ID: MB 885-19417/1-A
Matrix: Solid
Analysis Batch: 19411

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19417

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		01/16/25 09:58	01/16/25 10:46	1

Lab Sample ID: LCS 885-19417/2-A
Matrix: Solid
Analysis Batch: 19411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19417

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	14.8		mg/Kg		98	90 - 110		

QC Association Summary

Client: Ensolum
Job ID: 885-18480-1
Project/Site: State Com #3 (08/30/24)

GC VOA

Prep Batch: 19406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18480-1	BF-1	Total/NA	Solid	5035	
MB 885-19406/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-19406/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-19406/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-18480-1 MS	BF-1	Total/NA	Solid	5035	
885-18480-1 MSD	BF-1	Total/NA	Solid	5035	

Analysis Batch: 19407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18480-1	BF-1	Total/NA	Solid	8015M/D	19406
MB 885-19406/1-A	Method Blank	Total/NA	Solid	8015M/D	19406
LCS 885-19406/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	19406
885-18480-1 MS	BF-1	Total/NA	Solid	8015M/D	19406
885-18480-1 MSD	BF-1	Total/NA	Solid	8015M/D	19406

Analysis Batch: 19408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18480-1	BF-1	Total/NA	Solid	8021B	19406
MB 885-19406/1-A	Method Blank	Total/NA	Solid	8021B	19406
LCS 885-19406/3-A	Lab Control Sample	Total/NA	Solid	8021B	19406

GC Semi VOA

Analysis Batch: 19335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18480-1	BF-1	Total/NA	Solid	8015M/D	19409
MB 885-19409/1-A	Method Blank	Total/NA	Solid	8015M/D	19409
LCS 885-19409/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	19409

Prep Batch: 19409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18480-1	BF-1	Total/NA	Solid	SHAKE	
MB 885-19409/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-19409/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Analysis Batch: 19411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18480-1	BF-1	Total/NA	Solid	300.0	19417
MB 885-19417/1-A	Method Blank	Total/NA	Solid	300.0	19417
LCS 885-19417/2-A	Lab Control Sample	Total/NA	Solid	300.0	19417
MRL 885-19411/3	Lab Control Sample	Total/NA	Solid	300.0	

Prep Batch: 19417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18480-1	BF-1	Total/NA	Solid	300_Prep	
MB 885-19417/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-19417/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: Ensolum
Job ID: 885-18480-1
Project/Site: State Com #3 (08/30/24)

Client Sample ID: BF-1
Lab Sample ID: 885-18480-1

Date Collected: 01/15/25 08:00
Matrix: Solid

Date Received: 01/16/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			19406	AT	EET ALB	01/16/25 08:27
Total/NA	Analysis	8015M/D		1	19407	JP	EET ALB	01/16/25 11:54
Total/NA	Prep	5035			19406	AT	EET ALB	01/16/25 08:27
Total/NA	Analysis	8021B		1	19408	JP	EET ALB	01/16/25 11:54
Total/NA	Prep	SHAKE			19409	EM	EET ALB	01/16/25 08:40
Total/NA	Analysis	8015M/D		1	19335	EM	EET ALB	01/16/25 11:36
Total/NA	Prep	300_Prep			19417	JT	EET ALB	01/16/25 09:58
Total/NA	Analysis	300.0		20	19411	JT	EET ALB	01/16/25 11:16

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ensolum
Job ID: 885-18480-1
Project/Site: State Com #3 (08/30/24)

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-25-25

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-18480 COC

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande, Suite A
Aztec, NM 87410

Phone #:

email or Fax#: ksummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush 100% (Same D-3)

Project Name: State Com #3 (08/30/24)

Project #: 05A1226334 SEE NOTES

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☐ Yes ☐ No

# of Coolers: 1 Yogi

Cooler Temp (Including CF): -2.2-0=-2.2 (°C)

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / ~~MTBE / TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	~~Cl, F, Br, NO_3, NO_2, PO_4, SO_4~~	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
1/15/25	8:00	S	BF-1	1 4oz jar	Cool		X	X					X			

Date	Time	Relinquished by	Received by	Via	Date	Time
1/15/25	1707					
1/15/25	1744			Courier	1/16/25	7:10

Remarks: Not Frozen Jan 16 25
Tom Long
AM14058

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Ensolum Job Number: 885-18480-1

Login Number: 18480 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Samples not Frozen
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 425991

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 425991
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2424355183**
Incident Name	**NAPP2424355183 STATE COM #3 @ 0**
Incident Type	**Natural Gas Release**
Incident Status	**Reclamation Report Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	STATE COM #3
Date Release Discovered	08/30/2024
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Cause: Corrosion | Pipeline (Any) | Condensate | Released: 5 BBL | Recovered: 0 BBL | Lost: 5 BBL.
Natural Gas Vented (Mcf) Details	Cause: Corrosion | Pipeline (Any) | Natural Gas Vented | Released: 3 MCF | Recovered: 0 MCF | Lost: 3 MCF.
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 425991
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**Yes, according to supplied volumes this will be treated as a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 09/03/2024

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QUESTIONS (continued)

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QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 100 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	60
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	15
GRO+DRO (EPA SW-846 Method 8015M)	15
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	08/30/2024
On what date will (or did) the final sampling or liner inspection occur	09/03/2024
On what date will (or was) the remediation complete(d)	09/03/2024
What is the estimated surface area (in square feet) that will be reclaimed	200
What is the estimated volume (in cubic yards) that will be reclaimed	65
What is the estimated surface area (in square feet) that will be remediated	200
What is the estimated volume (in cubic yards) that will be remediated	65
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	ENVIROTECH LANDFARM #1 [fEEM0112334691]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 01/29/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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QUESTIONS

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

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**419741**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**01/15/2025**
What was the (estimated) number of samples that were to be gathered	**1**
What was the sampling surface area in square feet	**200**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	200
What was the total volume (cubic yards) remediated	65
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	200
What was the total volume (in cubic yards) reclaimed	65
Summarize any additional remediation activities not included by answers (above)	None

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 (in .pdf format) 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.

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I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 01/29/2025

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QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	200
What was the total volume of replacement material (in cubic yards) for this site	65
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	07/01/2025
Summarize any additional reclamation activities not included by answers (above)	None
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.	
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QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 425991

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Reclamation/Remediation Closure Report for Incident #NAPP2424355183 STATE COM #3, thank you. This Reclamation/Remediation Closure Report is approved.	2/7/2025