ENSOLUM

CLOSURE REPORT

Property:

Lateral 2C-39 (07/25/24)
Unit Letter G, S08 T25N R03W
San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2421837149

November 12, 2024 (Updated November 26 and February 14, 2025)

Ensolum Project No. 05A1226328

Prepared for:

Enterprise Field Services, LLC
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Prepared by:

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1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Lateral 2C-39 (Site)
NM EMNRD OCD Incident ID No.	NAPP2421837149
Location:	36.412578° North, 107.16511° West Unit Letter G, Section 08, Township 25 North, Range 03 West Rio Arriba County, New Mexico
Property:	Private Property
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On July 25, 2024, Enterprise personnel identified a release of natural gas and associated pipeline liquids from the Lateral 2C-39 pipeline. Enterprise subsequently isolated and locked the pipeline out of service. On August 2, 2024, Enterprise initiated activities to repair the pipeline. On August 5, 2024, Enterprise initiated activities to remediate petroleum hydrocarbon impact. Enterprise determined the release was "reportable" and 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). One POD was identified in the same Public Land Survey System (PLSS) section and two PODs were identified in adjacent PLSS sections (**Figure A**, **Appendix B**). The closest POD (SJ-01305) is approximately 0.64 miles southwest of the site and approximately 20 feet higher in elevation than the Site. The recorded depth to water (DTW) for this POD is 265 feet below grade surface (bgs). POD SJ-02224 is approximately 1.63 miles southwest of the site and approximately 84 feet higher in elevation than the Site. The recorded depth to water (DTW) for this POD is 56

feet below grade surface (bgs). POD SJ-04364 POD 8 is approximately 1.24 miles southwest of the site and approximately 58 feet higher in elevation than the Site. The recorded depth to water (DTW) for this POD is 31 feet below grade surface (bgs).

- No cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the same or adjacent PLSS sections (**Figure B** (**Appendix B**)).

- The Site is located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C**, **Appendix B**). A first order drainage to a "blue line" ephemeral wash is located approximately 135 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**). The closest riverine is approximately 345 feet southeast of the Site.

- 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 2, 2024, Enterprise initiated activities to repair the pipeline. On August 5, 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 37 feet long and 27 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 14 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of unconsolidated silty sandy clay.

Approximately 535 cubic yards (yd^3) of petroleum hydrocarbon-affected soils and 19 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm in San Juan County, NM for disposal/remediation. The executed C-138 solid waste acceptance form 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 pipeline (**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 18 composite soil samples (S-1 through S-17) from the excavation and one composite 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 August 8, 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 (14'), S-2 (14') S-3 (14'), and S-4 (14'), were collected from the floor of the excavation. Composite soil samples S-5 (0' to 14'), S-6 (0' to 14'), S-7 (0' to 14'), S-8 (0' to 14'), S-9 (0' to 14'), S-10 (0' to 14'), S-11 (0' to 14'), S-12 (0' to 14'), and S-13 (0' to 14') were collected

from the walls of the excavation. The results for composite soil samples S-8, S-9, S-10, and S-13 indicated chloride concentration exceedances.

Second Sampling Event
On August 14, 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. The east and south walls were further excavated to remove suspected chloride impact. Composite soil samples S-14 (0' to 14'), S-15 (0' to 14') S-16 (0' to 14'), and S-17 (0' to 14') were collected from the walls to replace composite soil samples S-13, S-8, S-9, and S-10, respectively.

Third Sampling Event
On January 23, 2025, 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-7, S-11, S-12, S-14 through S-17, and BF-1) to the applicable NM EMNRD OCD closure criteria. Due to the high PQLs/RLs associated with the TPH MRO results when using EPA SW-846 Method 8015, Ensolum only compared the quantified TPH results to the New Mexico EMNRD OCD closure criteria. The results for composite soil samples S-8, S-9, S-10, and S-13 are not included in the following discussion because the impacted soils were removed from the Site and taken to the landfarm. 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 samples indicate that total 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 samples S-1, S-2, S-3, and S-4 indicate total combined TPH GRO/DRO/MRO concentrations ranging from 17 mg/kg (S-3) to 68 mg/kg (S-1), which are less than the NM EMNRD OCD closure criteria of 100 mg/kg. The analytical

results for the other composite soil samples collected from soils remaining at the Site indicate that total combined TPH GRO/DRO/MRO concentrations are less than the laboratory PQLs / RLs, which are less than the NM EMNRD OCD closure criteria of 100 mg/kg.

- The laboratory analytical results for composite soil samples S-5, S-7, S-11, S-12, S-14, S-15, S16 and S-17 indicate chloride concentrations ranging from 67 mg/kg (S-5) to 600 mg/kg (S-12), respectively, which are less than or equal to the NM EMNRD OCD closure criteria of 600 mg/kg. The analytical results for the other composite soil samples collected from soils remaining at the Site indicate that chloride concentrations are less 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. The backfill and the upper four feet of the excavation have been analytically verified to be below the Tier I soil standards of 50 mg/kg BTEX, 10 mg/kg benzene, 100 mg/kg total combined TPH, and 600 mg/kg Chloride. See **APPENDIX D** and **APPENDIX F** for further documentation.

8.0 REVEGETATION

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 Grassland Vegetation Community. Enterprise will reseed the area with the appropriate seed mix during the next favorable growing season. Enterprise will provide revegetation documentation under separate cover.

9.0 FINDINGS AND RECOMMENDATION

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

- Approximately 535 yd^3 of petroleum hydrocarbon-affected soils and 19 bbls of hydro-excavation soil cuttings and water 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.

10.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

10.1 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).

10.2 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.

10.3 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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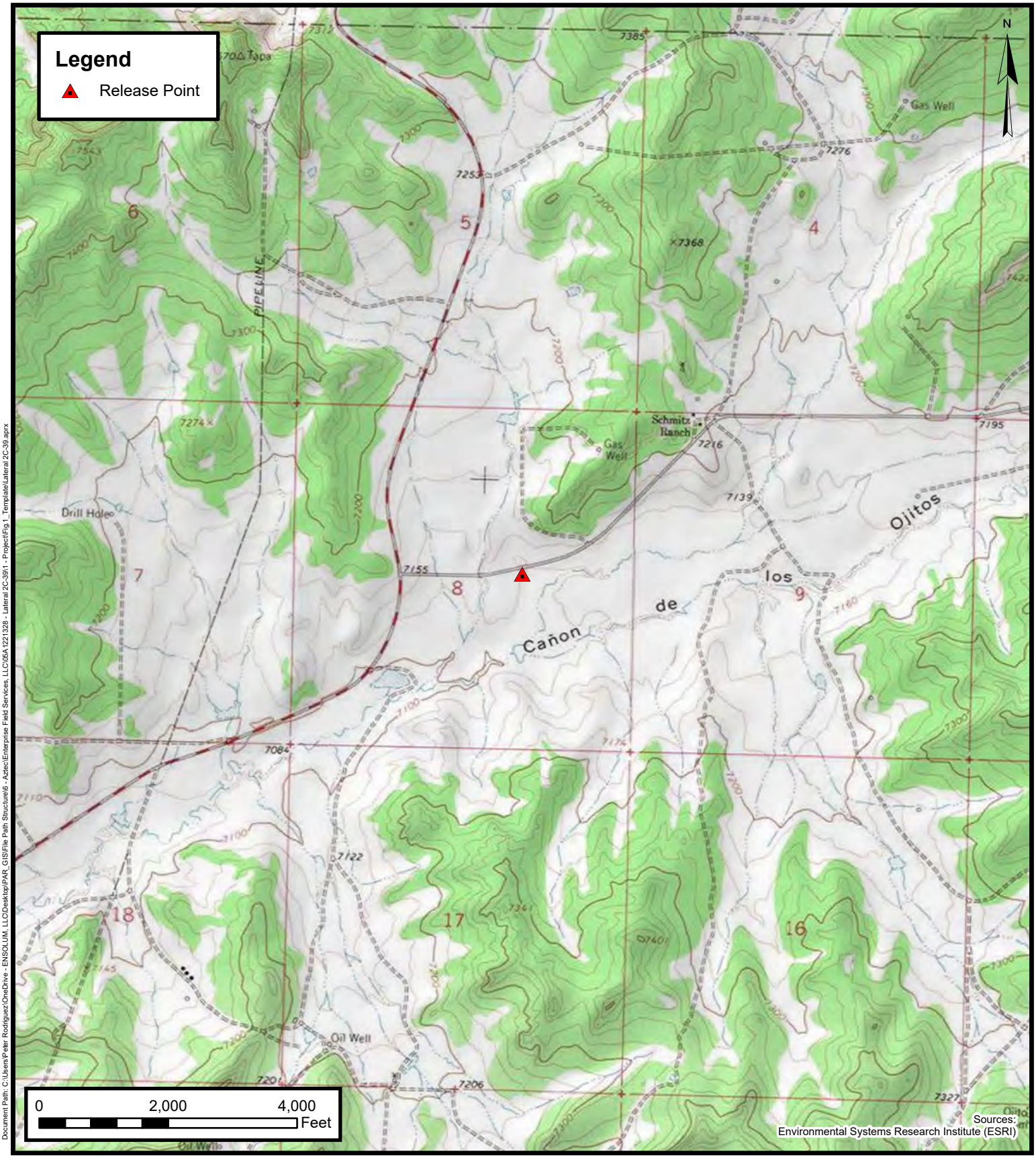
APPENDIX A

Figures



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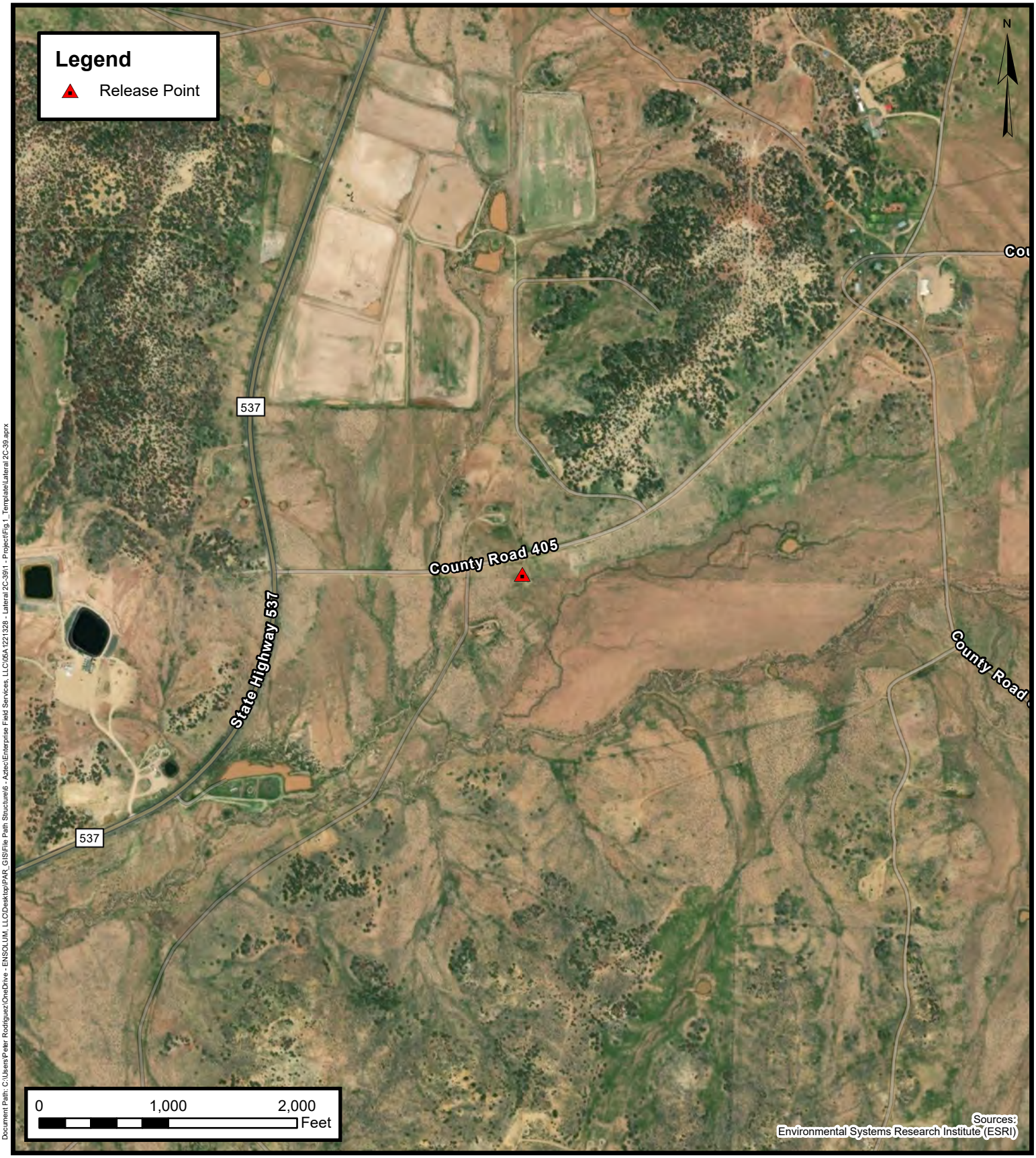
Topographic Map

Enterprise Field Services, LLC
Lateral 2C-39 (07/25/24)
Project Number: 05A1221328
Unit Letter G, S8 T25N R3W, Rio Arriba County, New Mexico
36.412578, -107.16511

FIGURE
1



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Site Vicinity Map

Enterprise Field Services, LLC
Lateral 2C-39 (07/25/24)
Project Number: 05A1221328
Unit Letter G, S8 T25N R3W, Rio Arriba County, New Mexico
36.412578, -107.16511

FIGURE
2

N

S-1
08.08.24
F (14')

Benzene...	<0.019
Toluene...	<0.038
Ethylbenzene...	<0.038
Xylenes...	<0.077
Total BTEX...	ND
TPH GRO...	<3.8
TPH DRO...	68
TPH MRO...	<50
Total Combined TPH GRO/DRO/MRO...	68
Chlorides...	<60

S-2
08.08.24
F (14')

Benzene...	<0.017
Toluene...	<0.034
Ethylbenzene...	<0.034
Xylenes...	<0.067
Total BTEX...	ND
TPH GRO...	<3.4
TPH DRO...	18
TPH MRO...	<45
Total Combined TPH GRO/DRO/MRO...	18
Chlorides...	<60

S-3
08.08.24
F (14')

Benzene...	<0.021
Toluene...	<0.041
Ethylbenzene...	<0.041
Xylenes...	<0.082
Total BTEX...	ND
TPH GRO...	<4.1
TPH DRO...	17
TPH MRO...	<48
Total Combined TPH GRO/DRO/MRO...	17
Chlorides...	<60

S-4
08.08.24
F (14')

Benzene...	<0.018
Toluene...	<0.036
Ethylbenzene...	<0.036
Xylenes...	<0.072
Total BTEX...	ND
TPH GRO...	<3.6
TPH DRO...	21
TPH MRO...	<45
Total Combined TPH GRO/DRO/MRO...	21
Chlorides...	<60

S-5
08.08.24
W (0' - 14')

Benzene...	<0.024
Toluene...	<0.048
Ethylbenzene...	<0.048
Xylenes...	<0.096
Total BTEX...	ND
TPH GRO...	<4.8
TPH DRO...	<9.3
TPH MRO...	<47
Total Combined TPH GRO/DRO/MRO...	ND
Chlorides...	67

S-6
08.08.24
W (0' - 14')

Benzene...	<0.018
Toluene...	<0.036
Ethylbenzene...	<0.036
Xylenes...	<0.072
Total BTEX...	ND
TPH GRO...	<3.6
TPH DRO...	<9.2
TPH MRO...	<46
Total Combined TPH GRO/DRO/MRO...	ND
Chlorides...	<60

S-7
08.08.24
W (0' - 14')

Benzene...	<0.021
Toluene...	<0.042
Ethylbenzene...	<0.042
Xylenes...	<0.085
Total BTEX...	ND
TPH GRO...	<4.2
TPH DRO...	<9.8
TPH MRO...	<49
Total Combined TPH GRO/DRO/MRO...	ND
Chlorides...	74

S-8
08.08.24
W (0' - 14')

Benzene...	<0.019
Toluene...	<0.037
Ethylbenzene...	<0.037
Xylenes...	<0.075
Total BTEX...	ND
TPH GRO...	<3.7
TPH DRO...	<9.4
TPH MRO...	<47
Total Combined TPH GRO/DRO/MRO...	ND
Chlorides...	760

S-9
08.08.24
W (0' - 14')

Benzene...	<0.022
Toluene...	<0.045
Ethylbenzene...	<0.045
Xylenes...	<0.089
Total BTEX...	ND
TPH GRO...	<4.5
TPH DRO...	<9.6
TPH MRO...	<48
Total Combined TPH GRO/DRO/MRO...	ND
Chlorides...	880

S-10
08.08.24
W (0' - 14')

Benzene...	<0.026
Toluene...	<0.051
Ethylbenzene...	<0.051
Xylenes...	<0.10
Total BTEX...	ND
TPH GRO...	<5.1
TPH DRO...	<9.6
TPH MRO...	<48
Total Combined TPH GRO/DRO/MRO...	ND
Chlorides...	630

S-11
08.08.24
W (0' - 14')

Benzene...	<0.020
Toluene...	<0.041
Ethylbenzene...	<0.041
Xylenes...	<0.082
Total BTEX...	ND
TPH GRO...	<4.1
TPH DRO...	<9.7
TPH MRO...	<49
Total Combined TPH GRO/DRO/MRO...	ND
Chlorides...	570

S-12
08.08.24
W (0' - 14')

Benzene...	<0.020
Toluene...	<0.040
Ethylbenzene...	<0.040
Xylenes...	<0.081
Total BTEX...	ND
TPH GRO...	<4.0
TPH DRO...	<9.4
TPH MRO...	<47
Total Combined TPH GRO/DRO/MRO...	ND
Chlorides...	600

S-13
08.08.24
W (0' - 14')

Benzene...	<0.022
Toluene...	<0.045
Ethylbenzene...	<0.045
Xylenes...	<0.089
Total BTEX...	ND
TPH GRO...	<4.5
TPH DRO...	<10
TPH MRO...	<50
Total Combined TPH GRO/DRO/MRO...	ND
Chlorides...	1,600

S-14
08.14.24
W (0' - 14')

Benzene...	NS
Toluene...	NS
Ethylbenzene...	NS
Xylenes...	NS
Total BTEX...	NS
TPH GRO...	NS
TPH DRO...	NS
TPH MRO...	NS
Total Combined TPH GRO/DRO/MRO...	NS
Chlorides...	420

S-15
08.14.24
W (0' - 14')

Benzene...	NS
Toluene...	NS
Ethylbenzene...	NS
Xylenes...	NS
Total BTEX...	NS
TPH GRO...	NS
TPH DRO...	NS
TPH MRO...	NS
Total Combined TPH GRO/DRO/MRO...	NS
Chlorides...	510

S-16
08.14.24
W (0' - 14')

Benzene...	NS
Toluene...	NS
Ethylbenzene...	NS
Xylenes...	NS
Total BTEX...	NS
TPH GRO...	NS
TPH DRO...	NS
TPH MRO...	NS
Total Combined TPH GRO/DRO/MRO...	NS
Chlorides...	310

S-17
08.14.24
W (0' - 14')

Benzene...	NS
Toluene...	NS
Ethylbenzene...	NS
Xylenes...	NS
Total BTEX...	NS
TPH GRO...	NS
TPH DRO...	NS
TPH MRO...	NS
Total Combined TPH GRO/DRO/MRO...	NS
Chlorides...	390

Notes:
F - Floor Sample
W - Wall Sample
All concentration are listed in milligrams per kilogram (mg/kg).
All depths are listed in feet BGS.
Concentrations in **red** exceed the applicable NM EMNRD OCD Closure Criteria.
Analytical callouts in gray denote sampling location removed by excavation.

0 10 20 Feet

LEGEND

- Release Point
- Composite Soil Sample Location
- Pipeline
- Former Extent of Excavation
- Excavation Extent (14' bgs)

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Site Map with Soil Analytical Results

Enterprise Field Services, LLC
Lateral 2C-39 (07/25/24)
Unit Letter G, S8 T25N R3W
Rio Arriba County, New Mexico
36.412578, -107.16511

Figure

3

Project Number: 05A1221328

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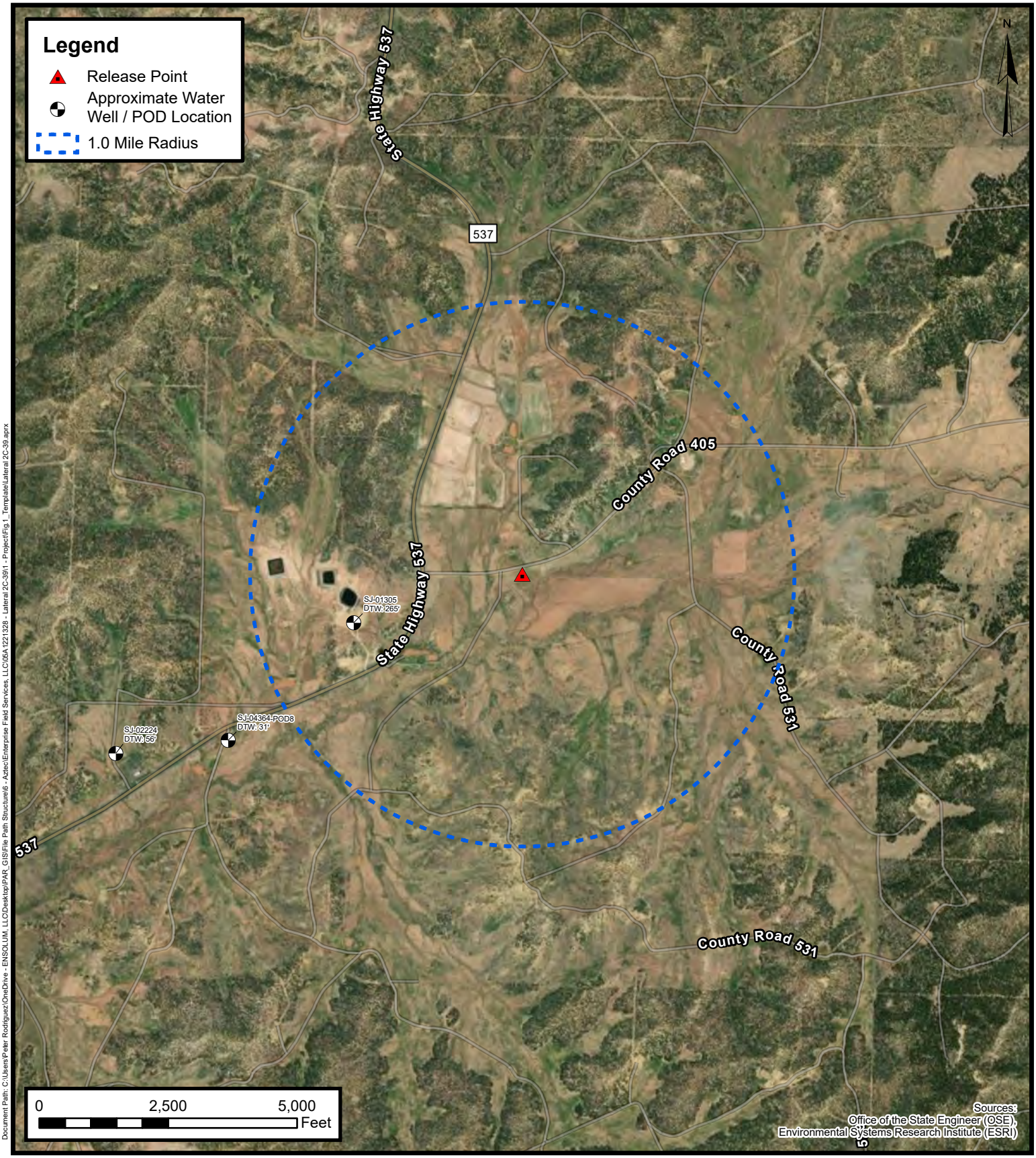
APPENDIX B

Siting Figures and Documentation



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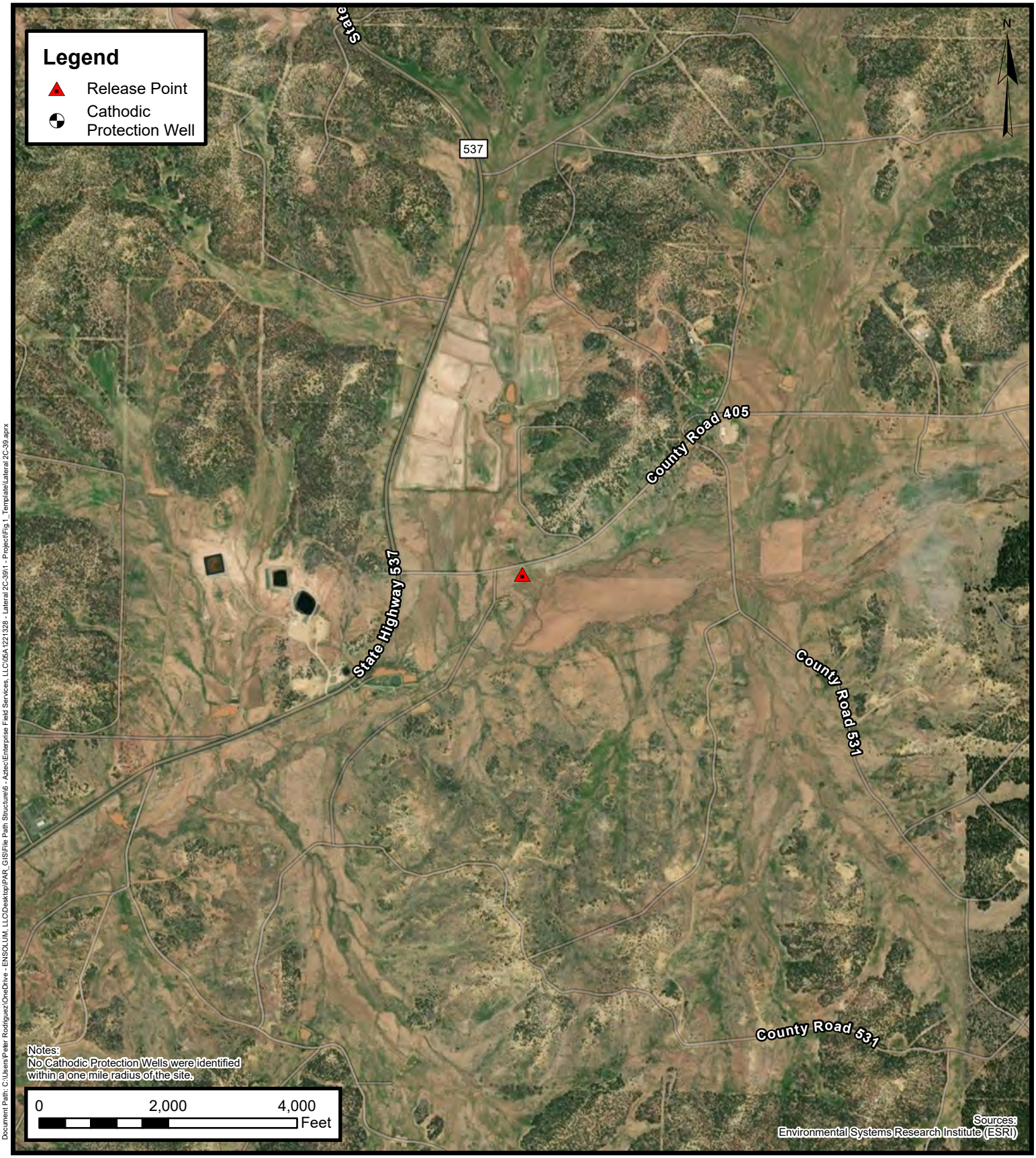
1.0 Mile Radius Water Well / POD Location Map

Enterprise Field Services, LLC
Lateral 2C-39 (07/25/24)
Project Number: 05A1221328
Unit Letter G, S8 T25N R3W, Rio Arriba County, New Mexico
36.412578, -107.16511

FIGURE

A



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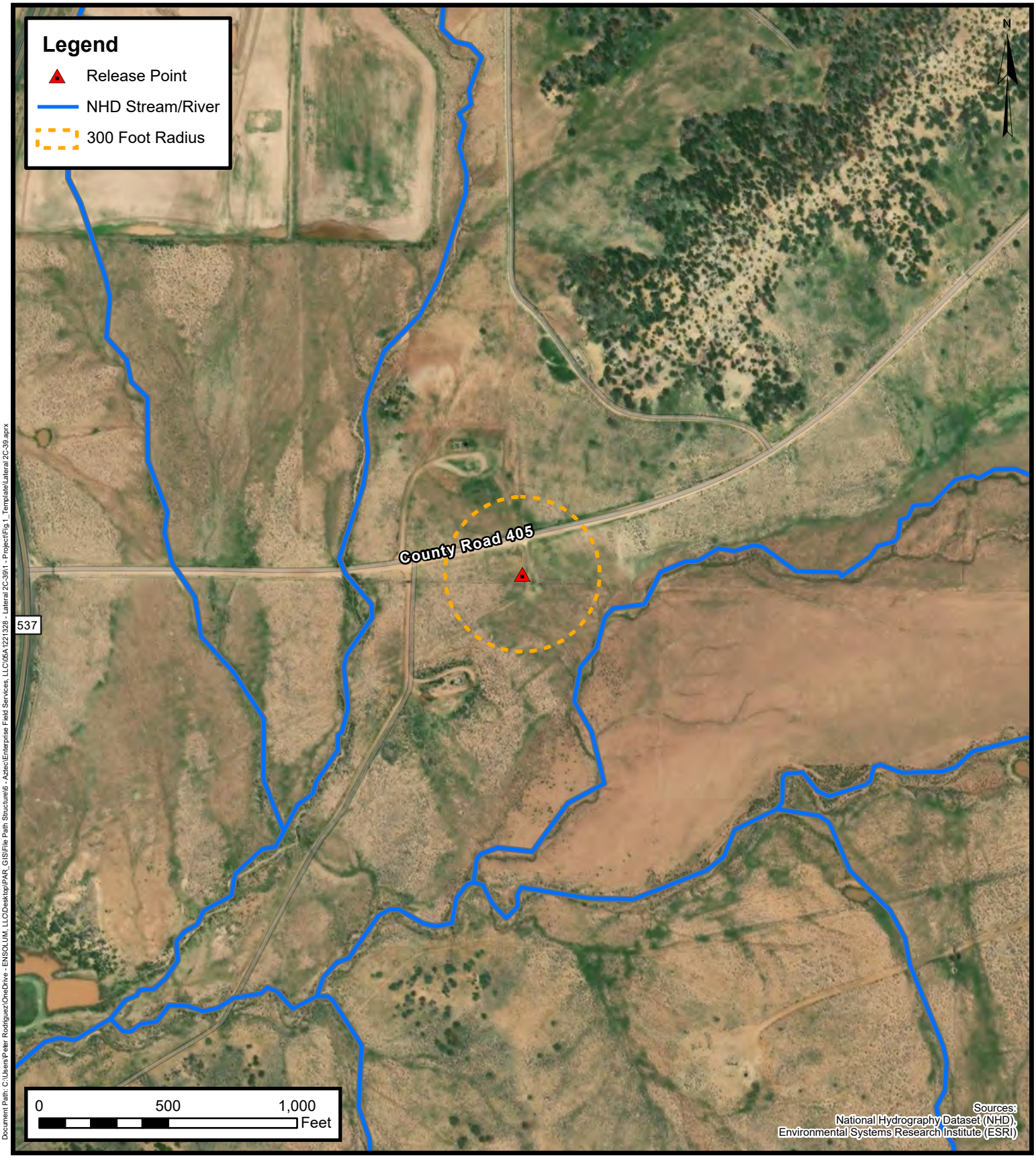
Cathodic Protection Well
Recorded Depth to Water
Enterprise Field Services, LLC
Lateral 2C-39 (07/25/24)
Project Number: 05A1221328
Unit Letter G, S8 T25N R3W, Rio Arriba County, New Mexico
36.412578, -107.16511

FIGURE
B



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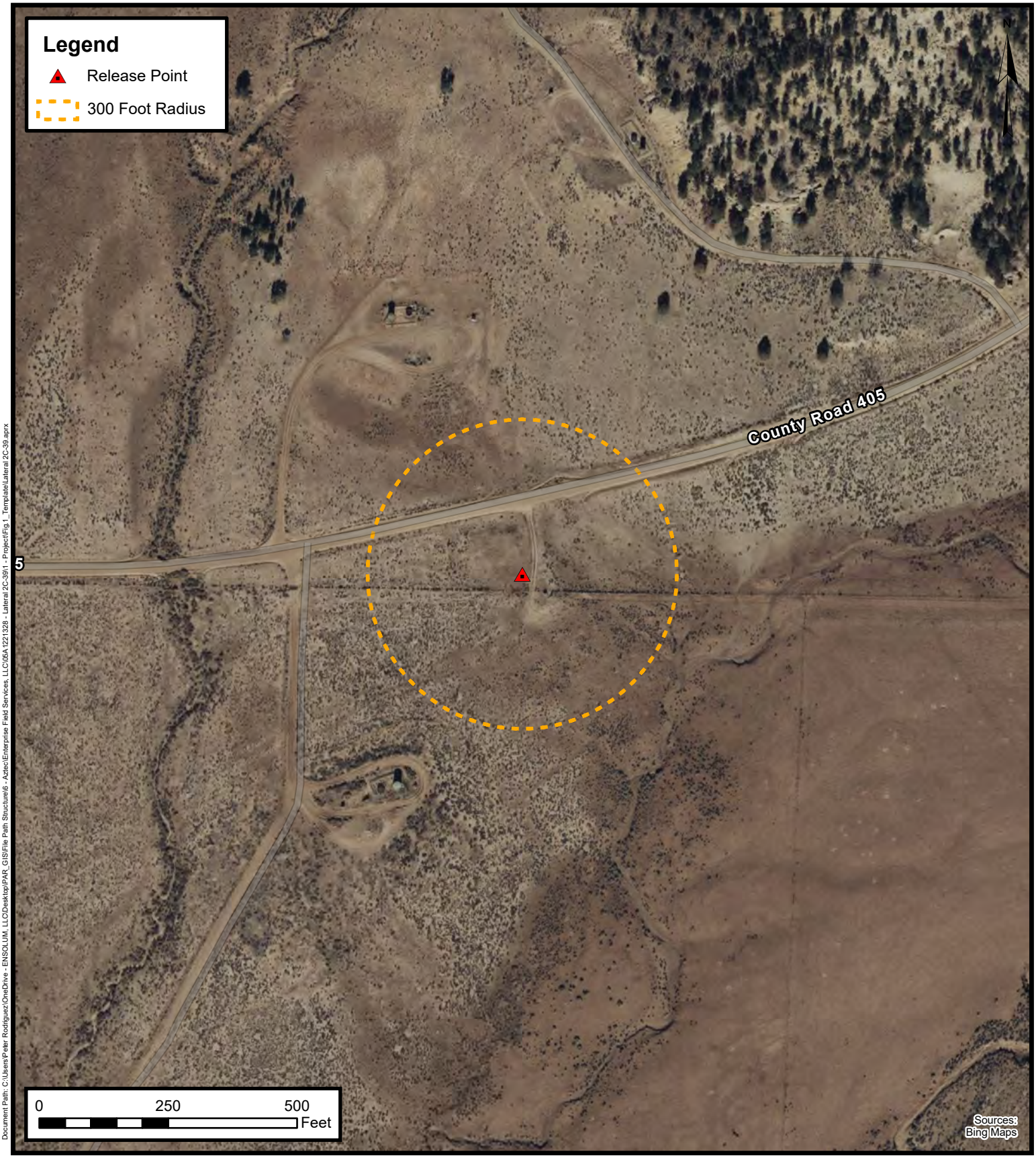
300 Foot Radius Watercourse and Drainage Identification
Enterprise Field Services, LLC
Lateral 2C-39 (07/25/24)
Project Number: 05A1221328
Unit Letter G, S8 T25N R3W, Rio Arriba County, New Mexico
36.412578, -107.16511

FIGURE
C



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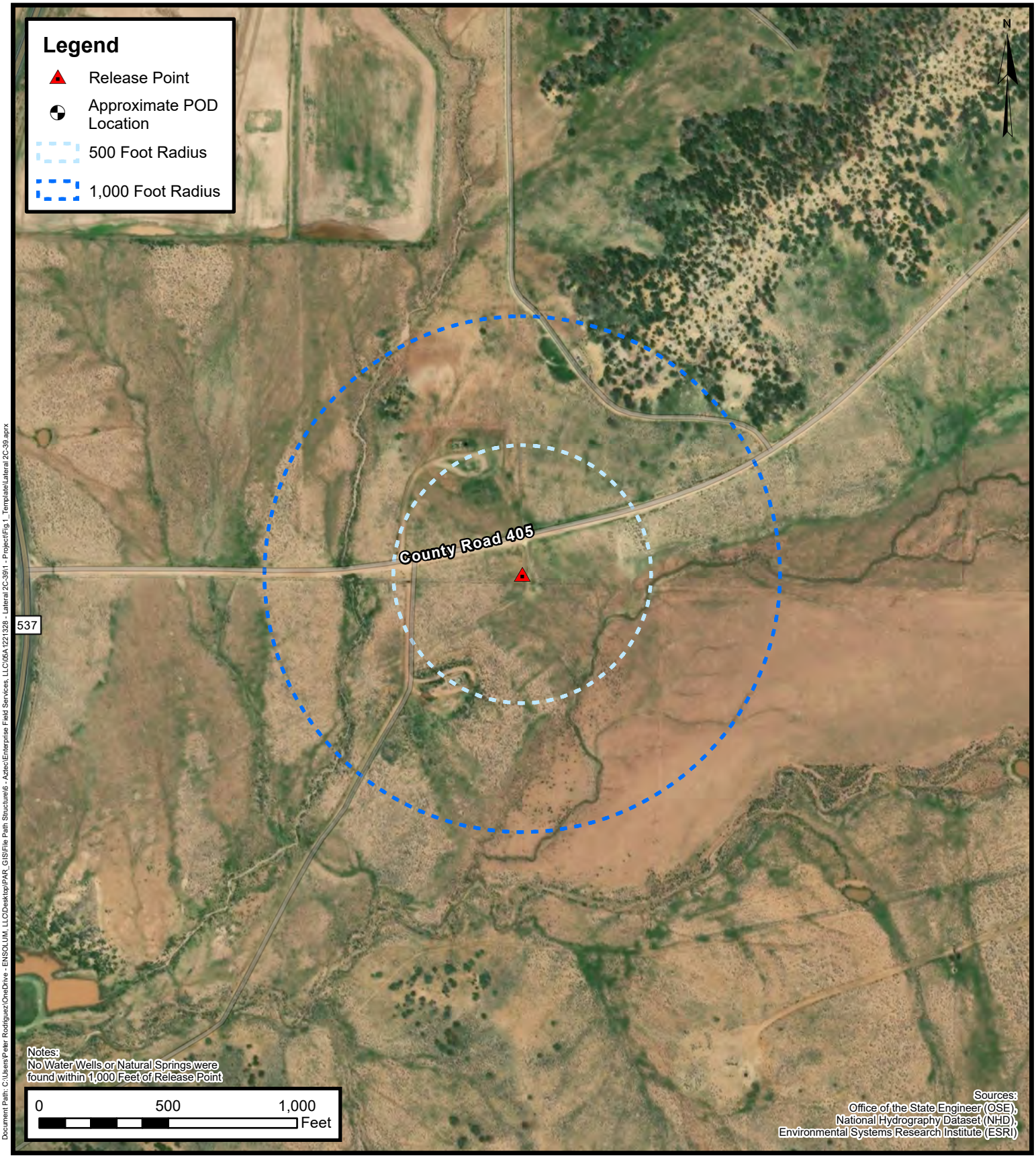
300 Foot Radius Occupied Structure Identification

Enterprise Field Services, LLC
Lateral 2C-39 (07/25/24)
Project Number: 05A1221328
Unit Letter G, S8 T25N R3W, Rio Arriba County, New Mexico
36.412578, -107.16511

FIGURE

D

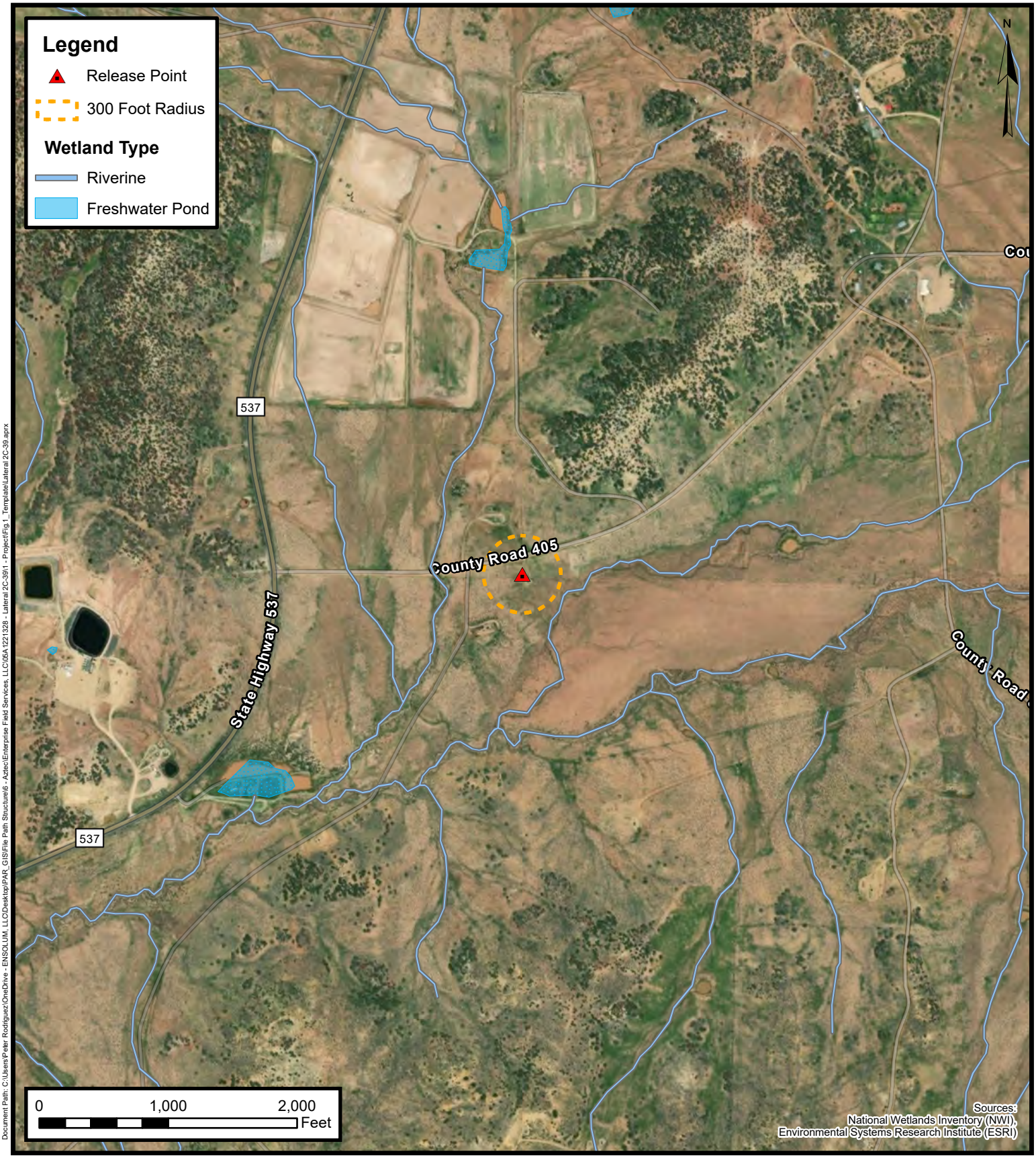


Document Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\PAR_GIS\File Path Structure\6 - Aztec\Enterprise Field Services, LLC\05A1221328 - Lateral 2C-39\1 - Project\Fig 1_Template\Lateral 2C-39.aprx

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Water Well and Natural Spring Location
Enterprise Field Services, LLC
Lateral 2C-39 (07/25/24)
Project Number: 05A1221328
Unit Letter G, S8 T25N R3W, Rio Arriba County, New Mexico
36.412578, -107.16511

FIGURE
E



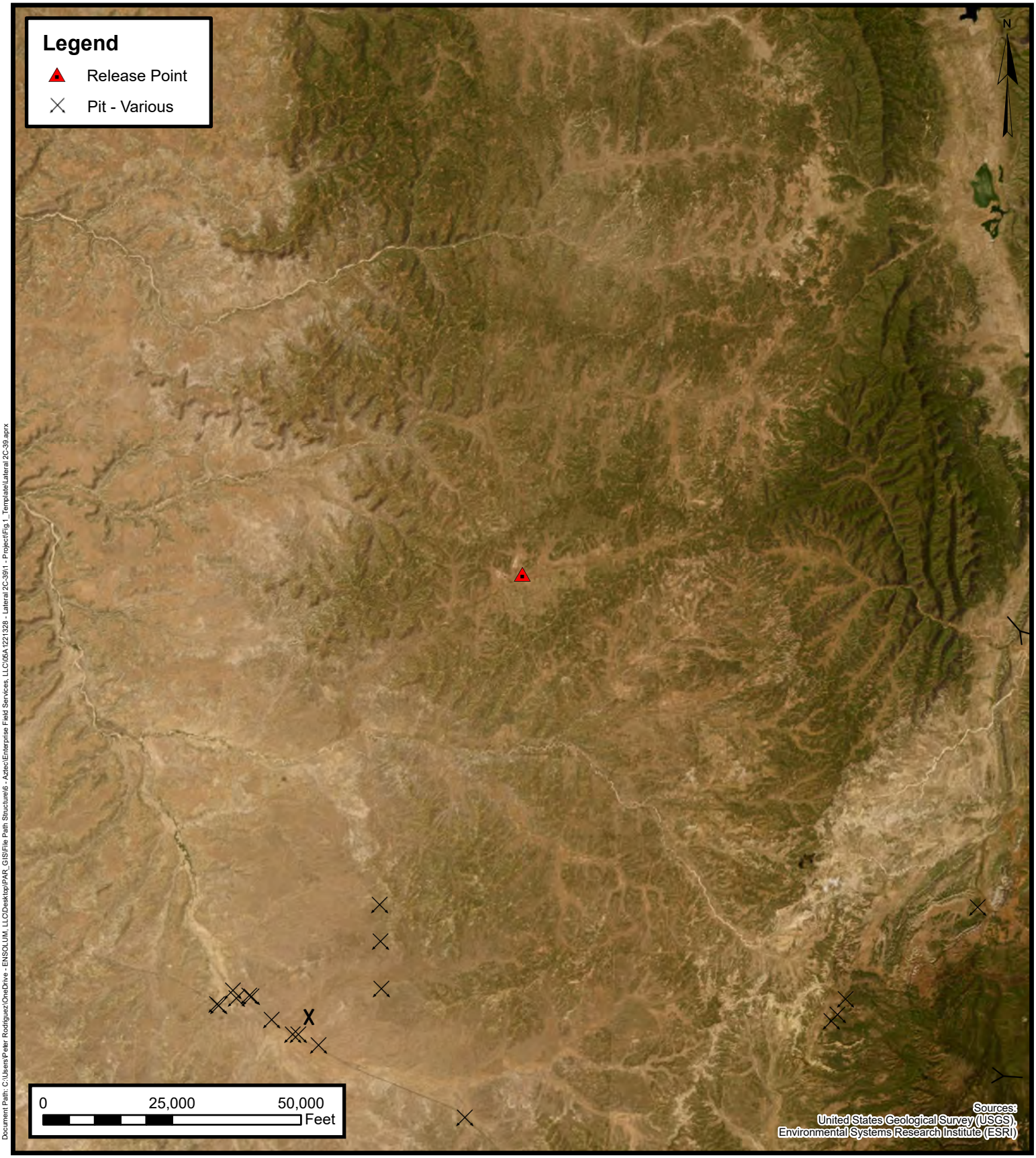
Document Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\PAR_GIS\File Path Structure\6 - Aztec\Enterprise Field Services, LLC\05A1221328 - Lateral 2C-39\1 - Project\Fig 1_Template\Lateral 2C-39.aprx

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Wetlands

Enterprise Field Services, LLC
Lateral 2C-39 (07/25/24)
Project Number: 05A1221328
Unit Letter G, S8 T25N R3W, Rio Arriba County, New Mexico
36.412578, -107.16511

FIGURE
F

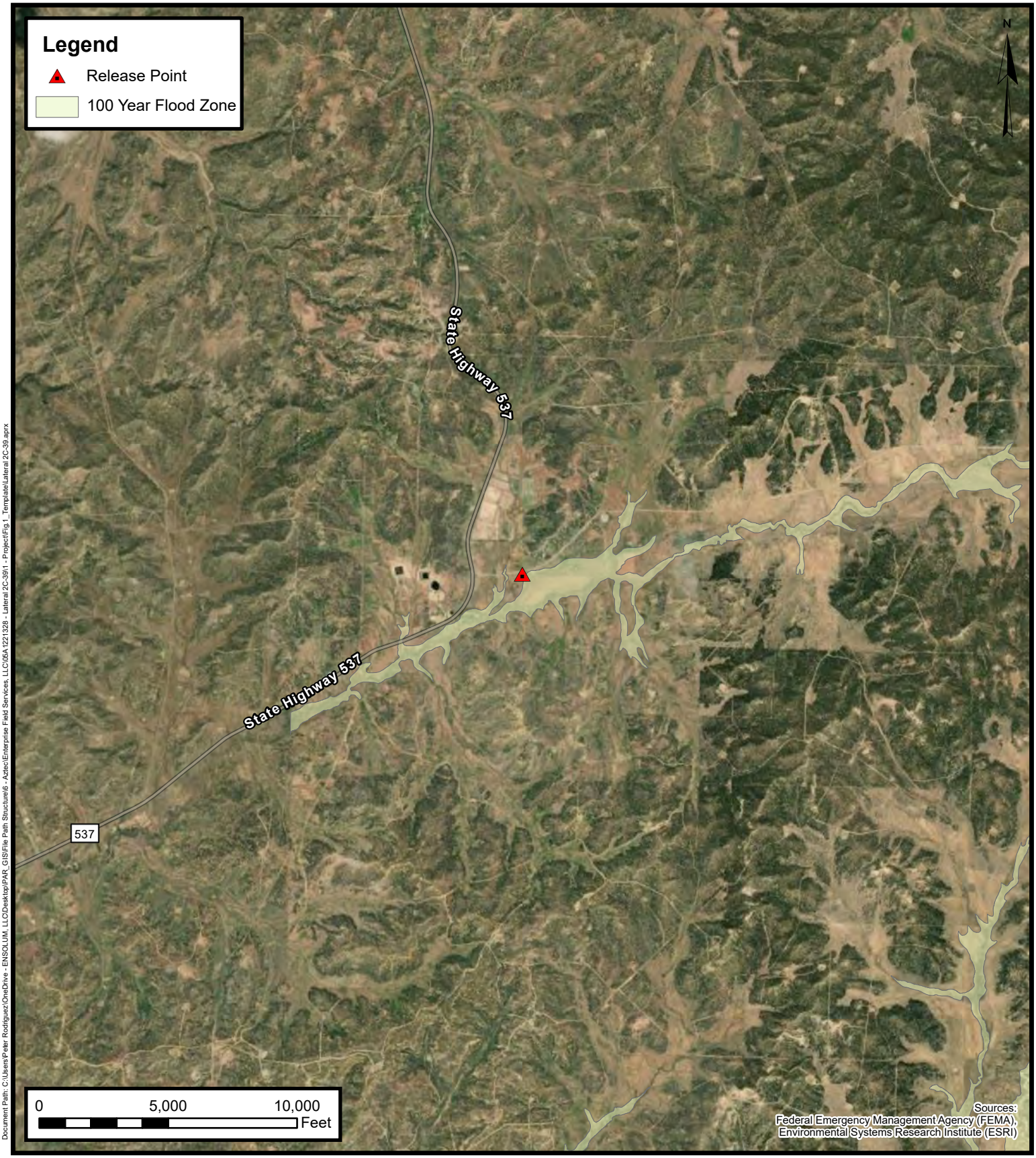


ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Mines, Mills, and Quarries

Enterprise Field Services, LLC
Lateral 2C-39 (07/25/24)
Project Number: 05A1221328
Unit Letter G, S8 T25N R3W, Rio Arriba County, New Mexico
36.412578, -107.16511

FIGURE
G



Document Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\PAR_GIS\File Path Structure\6 - Aztec\Enterprise Field Services, LLC\05A1221328 - Lateral 2C-39\1 - Project\Fig 1_Template\Lateral 2C-39.aprx

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

100-Year Flood Plain Map

Enterprise Field Services, LLC
Lateral 2C-39 (07/25/24)
Project Number: 05A1221328
Unit Letter G, S8 T25N R3W, Rio Arriba County, New Mexico
36.412578, -107.16511

FIGURE
H

ENSOLUM

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.

97057-1125

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

PayKey:AM14058
PM: Dwayne Dixon
AFE: Pending

2. Originating Site:
Lateral 2C-39

3. Location of Material (Street Address, City, State or ULSTR):
UL G Section 8 T25N R3W; 36.412578, -107.165110

Aug 2024

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) 535/19 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 8-1-2024, representative for Enterprise Products Operating authorizes Envirotech, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, Greg 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: TBD

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: Greg Crabtree TITLE: Enviro Manager DATE: 8/2/24
SIGNATURE: TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

ENSOLUM

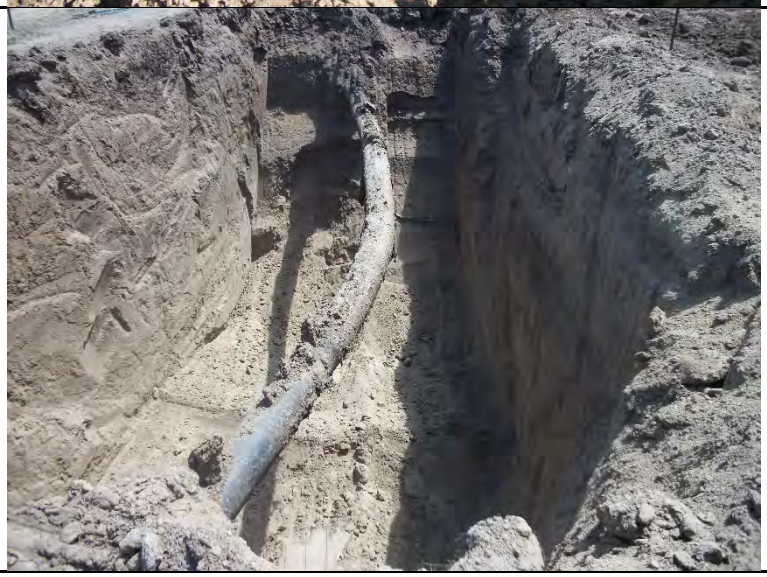
APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Lateral 2C-39 (07/25/24)
Ensolum Project No. 05A1226328

ENSOLUM

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

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Lateral 2C-39 (07/25/24)
Ensolum Project No. 05A1226328

ENSOLUM

Photograph 4 Photograph Description: View of final excavation.	
Photograph 5 Photograph Description: View of final excavation.	
Photograph 6 Photograph Description: View of the site after initial restoration.	

ENSOLUM

APPENDIX E

Regulatory Correspondence

Outlook

FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 370835

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, August 6, 2024 11:41 AM
To: Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 370835

[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#) nAPP2421837149.

The sampling event is expected to take place:

When: 08/08/2024 @ 12:00
Where: G-08-25N-03W 0 FNL 0 FEL (36.412578,-107.16511)

Additional Information: Ensolum, LLC

Additional Instructions: 36.412578,-107.16511

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

Outlook

Re: [EXTERNAL] Lateral 2C-39 - UL G Section 8 T25N R3W; 36.412578, -107.165110; NMOCD Incident # nAPP2421837149

From Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Date Tue 8/13/2024 1:13 PM
To Long, Thomas <tjlong@eprod.com>
Cc Stone, Brian <bmstone@eprod.com>

[Use caution with links/attachments]
Good day Tom,

Thank you for the notice. Your variance request specifically addressing 19.15.29.12D (1a) NMAC is approved.

If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC or from an OCD pre-approved sampling plan. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Long, Thomas <tjlong@eprod.com>
Sent: Tuesday, August 13, 2024 1:09 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: [EXTERNAL] Lateral 2C-39 - UL G Section 8 T25N R3W; 36.412578, -107.165110; NMOCD Incident # nAPP2421837149

Nelson,

This email is a notification and a variance request. Enterprise is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect soil samples for laboratory analysis on August 14, 2024 at 9:00 a.m. at the Lateral 2C-39 excavation. Please acknowledge acceptance of this variance request. If you have any questions, please call or 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

From: OCDOnline@state.nm.us
To: Long, Thomas
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 373443
Date: Tuesday, August 13, 2024 1:31:37 PM

[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#) nAPP2421837149.

The sampling event is expected to take place:

When: 08/14/2024 @ 09:00
Where: G-08-25N-03W 0 FNL 0 FEL (36.412578,-107.16511)

Additional Information: Ensolum, LLC

Additional Instructions: 36.412578,-107.16511

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

Nelson,

This email is a notification and a variance request. Enterprise is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect soil samples for laboratory analysis on August 14, 2024 at 9:00 a.m. at the Lateral 2C-39 excavation. Please acknowledge acceptance of this variance request. If you have any questions, please call or 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

From: Long, Thomas
To: Kyle Summers
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 406759
Date: Thursday, February 13, 2025 1:51:56 PM
Attachments: Re EXTERNAL Lateral 2C-39 - UL G Section 8 T25N R3W; 36.412578 -107.165110; NMOCD Incident # nAPP2421837149.msg

[**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

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, December 9, 2024 8:54 AM
To: Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 406759

[Use caution with links/attachments]

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

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2421837149, for the following reasons:

- **Remediation closure and reclamation denied for the following:**
- **1)Pursuant to 19.15.29.12(D)1(c) NMAC each composite sample is to be representative of no more than 200 square feet since no remediation plan or variance was requested. To the question "What was the total surface area (in square feet) remediated" you answered 999. Not enough base samples were collected from the excavation.**
- **2)When an excavation is furthered, samples still need to be tested for all Table I constituents unless a variance is approved. No such variance was approved for samples S-14 through S-17.**
- **3)Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a)**

NMAC. Failure to provide proper sampling notice is a compliance issue and the OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC. The sampling notice for 8/14 was submitted on 8/13, meaning at least two business days' notice was not provided.

- **4)Using the National Wetlands Inventory Mapper, wetlands are located closer than 1000 ft to ½ mile. Update under Site Characterization.**
- **5)At least one representative 5-point composite sample needs to be collected from the backfill material that is used for the reclamation of the top four feet of the excavation and submitted for laboratory analysis.**
- **Submit updated remediation closure report to the OCD by 3/10/25.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 406759.
Please review and make the required correction(s) prior to resubmitting.
If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov

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

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, January 9, 2025 2:54 PM
To: Long, Thomas <tjlong@eprod.com>
Cc: Stone, Brian <bmstone@eprod.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Lateral 2C-39 - UL G Section 8 T25N R3W; 36.412578, -107.165110; NMOCD Incident # nAPP2421837149

[Use caution with links/attachments]

Hi Tom,

Your variance request is approved. For future releases, samples are to be analyzed for all Table I constituents per 19.15.29.12(D)1 NMAC unless a variance has already been approved.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau

From: Kyle Summers
To: Landon Daniell
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 421743
Date: Thursday, January 16, 2025 2:10:57 PM
Attachments: image002.png
image003.png
image004.png
image005.png

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Long, Thomas <tjlong@eprod.com>
Sent: Thursday, January 16, 2025 1:55 PM
To: Kyle Summers <ksummers@ensolum.com>; Chad D'Aponti <cdaponti@ensolum.com>
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 421743

[**EXTERNAL EMAIL**]

2C-39 (1)

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: Thursday, January 16, 2025 1:54 PM
To: Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 421743

[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#) nAPP2421837149.

The sampling event is expected to take place:

When: 01/23/2025 @ 09:00
Where: G-08-25N-03W 0 FNL 0 FEL (36.412578,-107.16511)

Additional Information: Ensolum LLC

Additional Instructions: 36.412578,-107.16511

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

EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Long, Thomas <tjlong@eprod.com>
Sent: Thursday, January 9, 2025 12:09 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: [EXTERNAL] Lateral 2C-39 - UL G Section 8 T25N R3W; 36.412578, -107.165110; NMOCD Incident # nAPP242183714

Shelly,

This email is a variance request. Enterprise is requesting a variance for the sampling requirement per 19.15.29.12D (1) NMAC for soil samples S-14 through S-17. The previous samples S-8 through S-10 and S-13 were analyzed per Table I constituents and the results indicated only Chlorides concentrations exceeded NMOCD Table I standards. Soil samples S-14 through S-17 replaced soils samples S-8 through S-10 and S-13. Soil samples S-14 through S-17 were only analyzed for Chlorides as that BTEX, GRO, DRO and MRO concentrations were already below the Table I standards.

Please acknowledge acceptance of this variance request. If you have any questions, please call or 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

ENSOLUM

APPENDIX F

Table 1 – Soil Analytical Summary

ENSOLUM

TABLE 1
Lateral 2C-39 (07/25/24)
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**
Composite Soil Samples Removed by Excavation													
S-8	08.08.24	C	0 to 14	<0.019	<0.037	<0.037	<0.075	ND	<3.7	<9.4	<47	ND	**760**
S-9	08.08.24	C	0 to 14	<0.022	<0.045	<0.045	<0.089	ND	<4.5	<9.6	<48	ND	**880**
S-10	08.08.24	C	0 to 14	<0.026	<0.051	<0.051	<0.10	ND	<5.1	<9.6	<48	ND	**630**
S-13	08.08.24	C	0 to 14	<0.022	<0.045	<0.045	<0.089	ND	<4.5	<10	<50	ND	**1,600**
Excavation Composite Soil Samples													
S-1	08.08.24	C	14	<0.019	<0.038	<0.038	<0.077	ND	<3.8	68	<50	68	<60
S-2	08.08.24	C	14	<0.017	<0.034	<0.034	<0.067	ND	<3.4	18	<45	18	<60
S-3	08.08.24	C	14	<0.021	<0.041	<0.041	<0.082	ND	<4.1	17	<48	17	<60
S-4	08.08.24	C	14	<0.018	<0.036	<0.036	<0.072	ND	<3.6	21	<45	21	<60
S-5	08.08.24	C	0 to 14	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.3	<47	ND	67
S-6	08.08.24	C	0 to 14	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<9.2	<46	ND	<60
S-7	08.08.24	C	0 to 14	<0.021	<0.042	<0.042	<0.085	ND	<4.2	<9.8	<49	ND	74
S-11	08.08.24	C	0 to 14	<0.020	<0.041	<0.041	<0.082	ND	<4.1	<9.7	<49	ND	570
S-12	08.08.24	C	0 to 14	<0.020	<0.040	<0.040	<0.081	ND	<4.0	<9.4	<47	ND	600
S-14	08.14.24	C	0 to 14	NS	NS	NS	NS	NS	NS	NS	NS	NS	420
S-15	08.14.24	C	0 to 14	NS	NS	NS	NS	NS	NS	NS	NS	NS	510
S-16	08.14.24	C	0 to 14	NS	NS	NS	NS	NS	NS	NS	NS	NS	310
S-17	08.14.24	C	0 to 14	NS	NS	NS	NS	NS	NS	NS	NS	NS	390
Backfill Composite Soil Sample													
BF-1	01.23.25	C	BF	<0.019	<0.039	<0.039	<0.077	ND	<3.9	<9.8	<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

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 8/14/2024 10:28:59 AM

JOB DESCRIPTION

Lateral 2C-39

JOB NUMBER

885-9539-1

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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Client: Ensolum
Project/Site: Lateral 2C-39

Laboratory Job ID: 885-9539-1

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 885-9539-1
Project/Site: Lateral 2C-39

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
Project: Lateral 2C-39

Job ID: 885-9539-1

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Job Narrative
885-9539-1

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 samples were received on 8/9/2024 6:15 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 0.6°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
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
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

Client Sample ID: S-1

Date Collected: 08/08/24 12:00
Date Received: 08/09/24 06:15

Lab Sample ID: 885-9539-1

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		3.8		mg/Kg		08/09/24 09:28	08/09/24 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*08/09/24 09:28*	*08/09/24 19:53*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019		mg/Kg		08/09/24 09:28	08/09/24 19:53	1
Ethylbenzene	ND		0.038		mg/Kg		08/09/24 09:28	08/09/24 19:53	1
Toluene	ND		0.038		mg/Kg		08/09/24 09:28	08/09/24 19:53	1
Xylenes, Total	ND		0.077		mg/Kg		08/09/24 09:28	08/09/24 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*08/09/24 09:28*	*08/09/24 19:53*	*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]	**68**		9.9		mg/Kg		08/09/24 09:28	08/09/24 13:22	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/09/24 09:28	08/09/24 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*	*08/09/24 09:28*	*08/09/24 13:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		08/09/24 11:18	08/09/24 13:06	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

Client Sample ID: S-2

Date Collected: 08/08/24 12:05
Date Received: 08/09/24 06:15

Lab Sample ID: 885-9539-2

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		3.4		mg/Kg		08/09/24 09:28	08/09/24 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*08/09/24 09:28*	*08/09/24 13:11*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017		mg/Kg		08/09/24 09:28	08/09/24 13:11	1
Ethylbenzene	ND		0.034		mg/Kg		08/09/24 09:28	08/09/24 13:11	1
Toluene	ND		0.034		mg/Kg		08/09/24 09:28	08/09/24 13:11	1
Xylenes, Total	ND		0.067		mg/Kg		08/09/24 09:28	08/09/24 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*08/09/24 09:28*	*08/09/24 13:11*	*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]	**18**		9.0		mg/Kg		08/09/24 09:28	08/09/24 13:33	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		08/09/24 09:28	08/09/24 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*08/09/24 09:28*	*08/09/24 13:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		08/09/24 11:18	08/09/24 13:44	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

Client Sample ID: S-3

Date Collected: 08/08/24 12:10
Date Received: 08/09/24 06:15

Lab Sample ID: 885-9539-3

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]	ND		4.1		mg/Kg		08/09/24 09:28	08/09/24 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*08/09/24 09:28*	*08/09/24 13:35*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.021		mg/Kg		08/09/24 09:28	08/09/24 13:35	1
Ethylbenzene	ND		0.041		mg/Kg		08/09/24 09:28	08/09/24 13:35	1
Toluene	ND		0.041		mg/Kg		08/09/24 09:28	08/09/24 13:35	1
Xylenes, Total	ND		0.082		mg/Kg		08/09/24 09:28	08/09/24 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*08/09/24 09:28*	*08/09/24 13:35*	*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]	**17**		9.6		mg/Kg		08/09/24 09:28	08/09/24 13:44	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/09/24 09:28	08/09/24 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*08/09/24 09:28*	*08/09/24 13:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		08/09/24 11:18	08/09/24 13:57	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

Client Sample ID: S-4

Date Collected: 08/08/24 12:15
Date Received: 08/09/24 06:15

Lab Sample ID: 885-9539-4

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		3.6		mg/Kg		08/09/24 09:28	08/09/24 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*08/09/24 09:28*	*08/09/24 13:58*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.018		mg/Kg		08/09/24 09:28	08/09/24 13:58	1
Ethylbenzene	ND		0.036		mg/Kg		08/09/24 09:28	08/09/24 13:58	1
Toluene	ND		0.036		mg/Kg		08/09/24 09:28	08/09/24 13:58	1
Xylenes, Total	ND		0.072		mg/Kg		08/09/24 09:28	08/09/24 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*08/09/24 09:28*	*08/09/24 13:58*	*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]	**21**		9.1		mg/Kg		08/09/24 09:28	08/09/24 13:55	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		08/09/24 09:28	08/09/24 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*08/09/24 09:28*	*08/09/24 13:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		08/09/24 11:18	08/09/24 14:10	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

Client Sample ID: S-5

Date Collected: 08/08/24 12:20
Date Received: 08/09/24 06:15

Lab Sample ID: 885-9539-5

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		4.8		mg/Kg		08/09/24 09:28	08/09/24 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*08/09/24 09:28*	*08/09/24 14:22*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		08/09/24 09:28	08/09/24 14:22	1
Ethylbenzene	ND		0.048		mg/Kg		08/09/24 09:28	08/09/24 14:22	1
Toluene	ND		0.048		mg/Kg		08/09/24 09:28	08/09/24 14:22	1
Xylenes, Total	ND		0.096		mg/Kg		08/09/24 09:28	08/09/24 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*08/09/24 09:28*	*08/09/24 14:22*	*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		9.3		mg/Kg		08/09/24 09:28	08/09/24 14:05	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/09/24 09:28	08/09/24 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*	*08/09/24 09:28*	*08/09/24 14:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67**		60		mg/Kg		08/09/24 11:18	08/10/24 11:32	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

Client Sample ID: S-6

Lab Sample ID: 885-9539-6

Date Collected: 08/08/24 12:25
Matrix: Solid
Date Received: 08/09/24 06:15

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		3.6		mg/Kg		08/09/24 09:28	08/09/24 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*08/09/24 09:28*	*08/09/24 14:46*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.018		mg/Kg		08/09/24 09:28	08/09/24 14:46	1
Ethylbenzene	ND		0.036		mg/Kg		08/09/24 09:28	08/09/24 14:46	1
Toluene	ND		0.036		mg/Kg		08/09/24 09:28	08/09/24 14:46	1
Xylenes, Total	ND		0.072		mg/Kg		08/09/24 09:28	08/09/24 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*08/09/24 09:28*	*08/09/24 14:46*	*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		9.2		mg/Kg		08/09/24 09:28	08/09/24 14:16	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		08/09/24 09:28	08/09/24 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*107*		*62 - 134*	*08/09/24 09:28*	*08/09/24 14:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		08/09/24 11:18	08/10/24 11:45	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

Client Sample ID: S-7

Date Collected: 08/08/24 12:30
Date Received: 08/09/24 06:15

Lab Sample ID: 885-9539-7

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		08/09/24 09:28	08/09/24 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*08/09/24 09:28*	*08/09/24 15:09*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.021		mg/Kg		08/09/24 09:28	08/09/24 15:09	1
Ethylbenzene	ND		0.042		mg/Kg		08/09/24 09:28	08/09/24 15:09	1
Toluene	ND		0.042		mg/Kg		08/09/24 09:28	08/09/24 15:09	1
Xylenes, Total	ND		0.085		mg/Kg		08/09/24 09:28	08/09/24 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*08/09/24 09:28*	*08/09/24 15:09*	*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		08/09/24 09:28	08/09/24 14:27	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/09/24 09:28	08/09/24 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*08/09/24 09:28*	*08/09/24 14:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74**		60		mg/Kg		08/09/24 11:18	08/09/24 15:14	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

Client Sample ID: S-8

Date Collected: 08/08/24 12:35
Date Received: 08/09/24 06:15

Lab Sample ID: 885-9539-8

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		3.7		mg/Kg		08/09/24 09:28	08/09/24 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*08/09/24 09:28*	*08/09/24 15:33*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019		mg/Kg		08/09/24 09:28	08/09/24 15:33	1
Ethylbenzene	ND		0.037		mg/Kg		08/09/24 09:28	08/09/24 15:33	1
Toluene	ND		0.037		mg/Kg		08/09/24 09:28	08/09/24 15:33	1
Xylenes, Total	ND		0.075		mg/Kg		08/09/24 09:28	08/09/24 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*08/09/24 09:28*	*08/09/24 15:33*	*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		08/09/24 09:28	08/09/24 14:49	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/09/24 09:28	08/09/24 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*114*		*62 - 134*	*08/09/24 09:28*	*08/09/24 14:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**760**		60		mg/Kg		08/09/24 11:18	08/09/24 15:27	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

Client Sample ID: S-9

Date Collected: 08/08/24 12:40
Date Received: 08/09/24 06:15

Lab Sample ID: 885-9539-9

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		4.5		mg/Kg		08/09/24 09:28	08/09/24 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*08/09/24 09:28*	*08/09/24 15:57*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022		mg/Kg		08/09/24 09:28	08/09/24 15:57	1
Ethylbenzene	ND		0.045		mg/Kg		08/09/24 09:28	08/09/24 15:57	1
Toluene	ND		0.045		mg/Kg		08/09/24 09:28	08/09/24 15:57	1
Xylenes, Total	ND		0.089		mg/Kg		08/09/24 09:28	08/09/24 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*08/09/24 09:28*	*08/09/24 15:57*	*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		08/09/24 09:28	08/09/24 15:00	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/09/24 09:28	08/09/24 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*116*		*62 - 134*	*08/09/24 09:28*	*08/09/24 15:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**880**		60		mg/Kg		08/09/24 11:18	08/09/24 15:40	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

Client Sample ID: S-10

Date Collected: 08/08/24 12:45
Date Received: 08/09/24 06:15

Lab Sample ID: 885-9539-10

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		5.1		mg/Kg		08/09/24 09:28	08/09/24 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*35 - 166*	*08/09/24 09:28*	*08/09/24 16:20*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.026		mg/Kg		08/09/24 09:28	08/09/24 16:20	1
Ethylbenzene	ND		0.051		mg/Kg		08/09/24 09:28	08/09/24 16:20	1
Toluene	ND		0.051		mg/Kg		08/09/24 09:28	08/09/24 16:20	1
Xylenes, Total	ND		0.10		mg/Kg		08/09/24 09:28	08/09/24 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*08/09/24 09:28*	*08/09/24 16:20*	*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		08/09/24 09:28	08/09/24 15:10	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		08/09/24 09:28	08/09/24 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*117*		*62 - 134*	*08/09/24 09:28*	*08/09/24 15:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**630**		60		mg/Kg		08/09/24 11:18	08/09/24 15:53	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

Client Sample ID: S-11

Date Collected: 08/08/24 12:50
Date Received: 08/09/24 06:15

Lab Sample ID: 885-9539-11

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		4.1		mg/Kg		08/09/24 09:28	08/09/24 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*08/09/24 09:28*	*08/09/24 17:08*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		08/09/24 09:28	08/09/24 17:08	1
Ethylbenzene	ND		0.041		mg/Kg		08/09/24 09:28	08/09/24 17:08	1
Toluene	ND		0.041		mg/Kg		08/09/24 09:28	08/09/24 17:08	1
Xylenes, Total	ND		0.082		mg/Kg		08/09/24 09:28	08/09/24 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*08/09/24 09:28*	*08/09/24 17:08*	*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		9.7		mg/Kg		08/09/24 09:28	08/09/24 15:21	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		08/09/24 09:28	08/09/24 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*117*		*62 - 134*	*08/09/24 09:28*	*08/09/24 15:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**570**		60		mg/Kg		08/09/24 11:18	08/09/24 16:06	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

Client Sample ID: S-12

Date Collected: 08/08/24 12:55
Date Received: 08/09/24 06:15

Lab Sample ID: 885-9539-12

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		4.0		mg/Kg		08/09/24 09:28	08/09/24 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*08/09/24 09:28*	*08/09/24 17:32*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		08/09/24 09:28	08/09/24 17:32	1
Ethylbenzene	ND		0.040		mg/Kg		08/09/24 09:28	08/09/24 17:32	1
Toluene	ND		0.040		mg/Kg		08/09/24 09:28	08/09/24 17:32	1
Xylenes, Total	ND		0.081		mg/Kg		08/09/24 09:28	08/09/24 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*08/09/24 09:28*	*08/09/24 17:32*	*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		08/09/24 09:28	08/09/24 15:32	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		08/09/24 09:28	08/09/24 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*122*		*62 - 134*	*08/09/24 09:28*	*08/09/24 15:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**600**		60		mg/Kg		08/09/24 11:18	08/09/24 16:19	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

Client Sample ID: S-13

Date Collected: 08/08/24 13:00
Date Received: 08/09/24 06:15

Lab Sample ID: 885-9539-13

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		4.5		mg/Kg		08/09/24 09:28	08/09/24 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*08/09/24 09:28*	*08/09/24 17:55*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022		mg/Kg		08/09/24 09:28	08/09/24 17:55	1
Ethylbenzene	ND		0.045		mg/Kg		08/09/24 09:28	08/09/24 17:55	1
Toluene	ND		0.045		mg/Kg		08/09/24 09:28	08/09/24 17:55	1
Xylenes, Total	ND		0.089		mg/Kg		08/09/24 09:28	08/09/24 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*08/09/24 09:28*	*08/09/24 17:55*	*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		10		mg/Kg		08/09/24 09:28	08/09/24 15:43	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/09/24 09:28	08/09/24 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*118*		*62 - 134*	*08/09/24 09:28*	*08/09/24 15:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1600**		60		mg/Kg		08/09/24 11:18	08/09/24 16:32	20

QC Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

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

Lab Sample ID: MB 885-9980/1-A
Matrix: Solid
Analysis Batch: 10028

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9980

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		08/09/24 09:28	08/09/24 12:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*35 - 166*	*08/09/24 09:28*	*08/09/24 12:24*	*1*

Lab Sample ID: LCS 885-9980/2-A
Matrix: Solid
Analysis Batch: 10028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9980

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	24.0		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*197*		*35 - 166*

Lab Sample ID: 885-9539-1 MS
Matrix: Solid
Analysis Batch: 10028

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 9980

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		19.2	19.9		mg/Kg		98	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*214*		*35 - 166*

Lab Sample ID: 885-9539-1 MSD
Matrix: Solid
Analysis Batch: 10028

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 9980

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		19.2	19.8		mg/Kg		98	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*218*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-9980/1-A
Matrix: Solid
Analysis Batch: 10030

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9980

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		08/09/24 09:28	08/09/24 12:24	1
Ethylbenzene	ND		0.050		mg/Kg		08/09/24 09:28	08/09/24 12:24	1
Toluene	ND		0.050		mg/Kg		08/09/24 09:28	08/09/24 12:24	1

QC Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

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

Lab Sample ID: MB 885-9980/1-A
Matrix: Solid
Analysis Batch: 10030

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9980

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		08/09/24 09:28	08/09/24 12:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*08/09/24 09:28*	*08/09/24 12:24*	*1*

Lab Sample ID: LCS 885-9980/3-A
Matrix: Solid
Analysis Batch: 10030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9980

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.887		mg/Kg		89	70 - 130		
Ethylbenzene			1.00	0.826		mg/Kg		83	70 - 130		
Toluene			1.00	0.833		mg/Kg		83	70 - 130		
Xylenes, Total			3.00	2.50		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*

Lab Sample ID: 885-9539-2 MS
Matrix: Solid
Analysis Batch: 10030

Client Sample ID: S-2
Prep Type: Total/NA
Prep Batch: 9980

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.670	0.563		mg/Kg		84	70 - 130		
Ethylbenzene	ND		0.670	0.535		mg/Kg		80	70 - 130		
Toluene	ND		0.670	0.538		mg/Kg		79	70 - 130		
Xylenes, Total	ND		2.01	1.61		mg/Kg		79	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*

Lab Sample ID: 885-9539-2 MSD
Matrix: Solid
Analysis Batch: 10030

Client Sample ID: S-2
Prep Type: Total/NA
Prep Batch: 9980

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.670	0.550		mg/Kg		82	70 - 130	2	20
Ethylbenzene	ND		0.670	0.534		mg/Kg		80	70 - 130	0	20
Toluene	ND		0.670	0.525		mg/Kg		77	70 - 130	2	20
Xylenes, Total	ND		2.01	1.61		mg/Kg		79	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*

QC Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

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

Lab Sample ID: MB 885-9981/1-A
Matrix: Solid
Analysis Batch: 10024

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9981

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		08/09/24 09:28	08/09/24 13:01	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		08/09/24 09:28	08/09/24 13:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*08/09/24 09:28*	*08/09/24 13:01*	*1*

Lab Sample ID: LCS 885-9981/2-A
Matrix: Solid
Analysis Batch: 10024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9981

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	43.6		mg/Kg		87	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*

Lab Sample ID: 885-9539-13 MS
Matrix: Solid
Analysis Batch: 10024

Client Sample ID: S-13
Prep Type: Total/NA
Prep Batch: 9981

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		49.7	45.4		mg/Kg		91	44 - 136		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*

Lab Sample ID: 885-9539-13 MSD
Matrix: Solid
Analysis Batch: 10024

Client Sample ID: S-13
Prep Type: Total/NA
Prep Batch: 9981

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		49.9	48.5		mg/Kg		97	44 - 136	7	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 885-10043/6
Matrix: Solid
Analysis Batch: 10043

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		

QC Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-9999/1-A
Matrix: Solid
Analysis Batch: 10026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9999

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		08/09/24 11:18	08/09/24 12:40	1

Lab Sample ID: LCS 885-9999/2-A
Matrix: Solid
Analysis Batch: 10026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9999

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	31.7		mg/Kg		106	90 - 110		

QC Association Summary

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

GC VOA

Prep Batch: 9980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9539-1	S-1	Total/NA	Solid	5035	
885-9539-2	S-2	Total/NA	Solid	5035	
885-9539-3	S-3	Total/NA	Solid	5035	
885-9539-4	S-4	Total/NA	Solid	5035	
885-9539-5	S-5	Total/NA	Solid	5035	
885-9539-6	S-6	Total/NA	Solid	5035	
885-9539-7	S-7	Total/NA	Solid	5035	
885-9539-8	S-8	Total/NA	Solid	5035	
885-9539-9	S-9	Total/NA	Solid	5035	
885-9539-10	S-10	Total/NA	Solid	5035	
885-9539-11	S-11	Total/NA	Solid	5035	
885-9539-12	S-12	Total/NA	Solid	5035	
885-9539-13	S-13	Total/NA	Solid	5035	
MB 885-9980/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-9980/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-9980/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-9539-1 MS	S-1	Total/NA	Solid	5035	
885-9539-1 MSD	S-1	Total/NA	Solid	5035	
885-9539-2 MS	S-2	Total/NA	Solid	5035	
885-9539-2 MSD	S-2	Total/NA	Solid	5035	

Analysis Batch: 10028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9539-1	S-1	Total/NA	Solid	8015M/D	9980
885-9539-2	S-2	Total/NA	Solid	8015M/D	9980
885-9539-3	S-3	Total/NA	Solid	8015M/D	9980
885-9539-4	S-4	Total/NA	Solid	8015M/D	9980
885-9539-5	S-5	Total/NA	Solid	8015M/D	9980
885-9539-6	S-6	Total/NA	Solid	8015M/D	9980
885-9539-7	S-7	Total/NA	Solid	8015M/D	9980
885-9539-8	S-8	Total/NA	Solid	8015M/D	9980
885-9539-9	S-9	Total/NA	Solid	8015M/D	9980
885-9539-10	S-10	Total/NA	Solid	8015M/D	9980
885-9539-11	S-11	Total/NA	Solid	8015M/D	9980
885-9539-12	S-12	Total/NA	Solid	8015M/D	9980
885-9539-13	S-13	Total/NA	Solid	8015M/D	9980
MB 885-9980/1-A	Method Blank	Total/NA	Solid	8015M/D	9980
LCS 885-9980/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	9980
885-9539-1 MS	S-1	Total/NA	Solid	8015M/D	9980
885-9539-1 MSD	S-1	Total/NA	Solid	8015M/D	9980

Analysis Batch: 10030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9539-1	S-1	Total/NA	Solid	8021B	9980
885-9539-2	S-2	Total/NA	Solid	8021B	9980
885-9539-3	S-3	Total/NA	Solid	8021B	9980
885-9539-4	S-4	Total/NA	Solid	8021B	9980
885-9539-5	S-5	Total/NA	Solid	8021B	9980
885-9539-6	S-6	Total/NA	Solid	8021B	9980
885-9539-7	S-7	Total/NA	Solid	8021B	9980
885-9539-8	S-8	Total/NA	Solid	8021B	9980

QC Association Summary

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

GC VOA (Continued)

Analysis Batch: 10030 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9539-9	S-9	Total/NA	Solid	8021B	9980
885-9539-10	S-10	Total/NA	Solid	8021B	9980
885-9539-11	S-11	Total/NA	Solid	8021B	9980
885-9539-12	S-12	Total/NA	Solid	8021B	9980
885-9539-13	S-13	Total/NA	Solid	8021B	9980
MB 885-9980/1-A	Method Blank	Total/NA	Solid	8021B	9980
LCS 885-9980/3-A	Lab Control Sample	Total/NA	Solid	8021B	9980
885-9539-2 MS	S-2	Total/NA	Solid	8021B	9980
885-9539-2 MSD	S-2	Total/NA	Solid	8021B	9980

GC Semi VOA

Prep Batch: 9981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9539-1	S-1	Total/NA	Solid	SHAKE	
885-9539-2	S-2	Total/NA	Solid	SHAKE	
885-9539-3	S-3	Total/NA	Solid	SHAKE	
885-9539-4	S-4	Total/NA	Solid	SHAKE	
885-9539-5	S-5	Total/NA	Solid	SHAKE	
885-9539-6	S-6	Total/NA	Solid	SHAKE	
885-9539-7	S-7	Total/NA	Solid	SHAKE	
885-9539-8	S-8	Total/NA	Solid	SHAKE	
885-9539-9	S-9	Total/NA	Solid	SHAKE	
885-9539-10	S-10	Total/NA	Solid	SHAKE	
885-9539-11	S-11	Total/NA	Solid	SHAKE	
885-9539-12	S-12	Total/NA	Solid	SHAKE	
885-9539-13	S-13	Total/NA	Solid	SHAKE	
MB 885-9981/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-9981/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-9539-13 MS	S-13	Total/NA	Solid	SHAKE	
885-9539-13 MSD	S-13	Total/NA	Solid	SHAKE	

Analysis Batch: 10024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9539-1	S-1	Total/NA	Solid	8015M/D	9981
885-9539-2	S-2	Total/NA	Solid	8015M/D	9981
885-9539-3	S-3	Total/NA	Solid	8015M/D	9981
885-9539-4	S-4	Total/NA	Solid	8015M/D	9981
885-9539-5	S-5	Total/NA	Solid	8015M/D	9981
885-9539-6	S-6	Total/NA	Solid	8015M/D	9981
885-9539-7	S-7	Total/NA	Solid	8015M/D	9981
885-9539-8	S-8	Total/NA	Solid	8015M/D	9981
885-9539-9	S-9	Total/NA	Solid	8015M/D	9981
885-9539-10	S-10	Total/NA	Solid	8015M/D	9981
885-9539-11	S-11	Total/NA	Solid	8015M/D	9981
885-9539-12	S-12	Total/NA	Solid	8015M/D	9981
885-9539-13	S-13	Total/NA	Solid	8015M/D	9981
MB 885-9981/1-A	Method Blank	Total/NA	Solid	8015M/D	9981
LCS 885-9981/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	9981
885-9539-13 MS	S-13	Total/NA	Solid	8015M/D	9981
885-9539-13 MSD	S-13	Total/NA	Solid	8015M/D	9981

QC Association Summary

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

HPLC/IC

Prep Batch: 9999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9539-1	S-1	Total/NA	Solid	300_Prep	
885-9539-2	S-2	Total/NA	Solid	300_Prep	
885-9539-3	S-3	Total/NA	Solid	300_Prep	
885-9539-4	S-4	Total/NA	Solid	300_Prep	
885-9539-5	S-5	Total/NA	Solid	300_Prep	
885-9539-6	S-6	Total/NA	Solid	300_Prep	
885-9539-7	S-7	Total/NA	Solid	300_Prep	
885-9539-8	S-8	Total/NA	Solid	300_Prep	
885-9539-9	S-9	Total/NA	Solid	300_Prep	
885-9539-10	S-10	Total/NA	Solid	300_Prep	
885-9539-11	S-11	Total/NA	Solid	300_Prep	
885-9539-12	S-12	Total/NA	Solid	300_Prep	
885-9539-13	S-13	Total/NA	Solid	300_Prep	
MB 885-9999/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-9999/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-9539-1 MSD	S-1	Total/NA	Solid	300_Prep	

Analysis Batch: 10026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9539-1	S-1	Total/NA	Solid	300.0	9999
885-9539-2	S-2	Total/NA	Solid	300.0	9999
885-9539-3	S-3	Total/NA	Solid	300.0	9999
885-9539-4	S-4	Total/NA	Solid	300.0	9999
885-9539-7	S-7	Total/NA	Solid	300.0	9999
885-9539-8	S-8	Total/NA	Solid	300.0	9999
885-9539-9	S-9	Total/NA	Solid	300.0	9999
885-9539-10	S-10	Total/NA	Solid	300.0	9999
885-9539-11	S-11	Total/NA	Solid	300.0	9999
885-9539-12	S-12	Total/NA	Solid	300.0	9999
885-9539-13	S-13	Total/NA	Solid	300.0	9999
MB 885-9999/1-A	Method Blank	Total/NA	Solid	300.0	9999
LCS 885-9999/2-A	Lab Control Sample	Total/NA	Solid	300.0	9999
885-9539-1 MSD	S-1	Total/NA	Solid	300.0	9999

Analysis Batch: 10043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9539-5	S-5	Total/NA	Solid	300.0	9999
885-9539-6	S-6	Total/NA	Solid	300.0	9999
MRL 885-10043/6	Lab Control Sample	Total/NA	Solid	300.0	

Lab Chronicle

Client: Ensolum
Job ID: 885-9539-1
Project/Site: Lateral 2C-39

Client Sample ID: S-1
Lab Sample ID: 885-9539-1
Date Collected: 08/08/24 12:00
Matrix: Solid
Date Received: 08/09/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10028	JP	EET ALB	08/09/24 19:53
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8021B		1	10030	JP	EET ALB	08/09/24 19:53
Total/NA	Prep	SHAKE			9981	EM	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10024	DH	EET ALB	08/09/24 13:22
Total/NA	Prep	300_Prep			9999	EH	EET ALB	08/09/24 11:18
Total/NA	Analysis	300.0		20	10026	RC	EET ALB	08/09/24 13:06

Client Sample ID: S-2
Lab Sample ID: 885-9539-2
Date Collected: 08/08/24 12:05
Matrix: Solid
Date Received: 08/09/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10028	JP	EET ALB	08/09/24 13:11
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8021B		1	10030	JP	EET ALB	08/09/24 13:11
Total/NA	Prep	SHAKE			9981	EM	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10024	DH	EET ALB	08/09/24 13:33
Total/NA	Prep	300_Prep			9999	EH	EET ALB	08/09/24 11:18
Total/NA	Analysis	300.0		20	10026	RC	EET ALB	08/09/24 13:44

Client Sample ID: S-3
Lab Sample ID: 885-9539-3
Date Collected: 08/08/24 12:10
Matrix: Solid
Date Received: 08/09/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10028	JP	EET ALB	08/09/24 13:35
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8021B		1	10030	JP	EET ALB	08/09/24 13:35
Total/NA	Prep	SHAKE			9981	EM	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10024	DH	EET ALB	08/09/24 13:44
Total/NA	Prep	300_Prep			9999	EH	EET ALB	08/09/24 11:18
Total/NA	Analysis	300.0		20	10026	RC	EET ALB	08/09/24 13:57

Client Sample ID: S-4
Lab Sample ID: 885-9539-4
Date Collected: 08/08/24 12:15
Matrix: Solid
Date Received: 08/09/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10028	JP	EET ALB	08/09/24 13:58

Lab Chronicle

Client: Ensolum
Job ID: 885-9539-1
Project/Site: Lateral 2C-39

Client Sample ID: S-4
Lab Sample ID: 885-9539-4
Date Collected: 08/08/24 12:15
Matrix: Solid
Date Received: 08/09/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8021B		1	10030	JP	EET ALB	08/09/24 13:58
Total/NA	Prep	SHAKE			9981	EM	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10024	DH	EET ALB	08/09/24 13:55
Total/NA	Prep	300_Prep			9999	EH	EET ALB	08/09/24 11:18
Total/NA	Analysis	300.0		20	10026	RC	EET ALB	08/09/24 14:10

Client Sample ID: S-5
Lab Sample ID: 885-9539-5
Date Collected: 08/08/24 12:20
Matrix: Solid
Date Received: 08/09/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10028	JP	EET ALB	08/09/24 14:22
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8021B		1	10030	JP	EET ALB	08/09/24 14:22
Total/NA	Prep	SHAKE			9981	EM	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10024	DH	EET ALB	08/09/24 14:05
Total/NA	Prep	300_Prep			9999	EH	EET ALB	08/09/24 11:18
Total/NA	Analysis	300.0		20	10043	RC	EET ALB	08/10/24 11:32

Client Sample ID: S-6
Lab Sample ID: 885-9539-6
Date Collected: 08/08/24 12:25
Matrix: Solid
Date Received: 08/09/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10028	JP	EET ALB	08/09/24 14:46
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8021B		1	10030	JP	EET ALB	08/09/24 14:46
Total/NA	Prep	SHAKE			9981	EM	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10024	DH	EET ALB	08/09/24 14:16
Total/NA	Prep	300_Prep			9999	EH	EET ALB	08/09/24 11:18
Total/NA	Analysis	300.0		20	10043	RC	EET ALB	08/10/24 11:45

Client Sample ID: S-7
Lab Sample ID: 885-9539-7
Date Collected: 08/08/24 12:30
Matrix: Solid
Date Received: 08/09/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10028	JP	EET ALB	08/09/24 15:09
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8021B		1	10030	JP	EET ALB	08/09/24 15:09

Lab Chronicle

Client: Ensolum
Job ID: 885-9539-1
Project/Site: Lateral 2C-39

Client Sample ID: S-7
Lab Sample ID: 885-9539-7
Date Collected: 08/08/24 12:30
Matrix: Solid
Date Received: 08/09/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			9981	EM	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10024	DH	EET ALB	08/09/24 14:27
Total/NA	Prep	300_Prep			9999	EH	EET ALB	08/09/24 11:18
Total/NA	Analysis	300.0		20	10026	RC	EET ALB	08/09/24 15:14

Client Sample ID: S-8
Lab Sample ID: 885-9539-8
Date Collected: 08/08/24 12:35
Matrix: Solid
Date Received: 08/09/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10028	JP	EET ALB	08/09/24 15:33
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8021B		1	10030	JP	EET ALB	08/09/24 15:33
Total/NA	Prep	SHAKE			9981	EM	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10024	DH	EET ALB	08/09/24 14:49
Total/NA	Prep	300_Prep			9999	EH	EET ALB	08/09/24 11:18
Total/NA	Analysis	300.0		20	10026	RC	EET ALB	08/09/24 15:27

Client Sample ID: S-9
Lab Sample ID: 885-9539-9
Date Collected: 08/08/24 12:40
Matrix: Solid
Date Received: 08/09/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10028	JP	EET ALB	08/09/24 15:57
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8021B		1	10030	JP	EET ALB	08/09/24 15:57
Total/NA	Prep	SHAKE			9981	EM	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10024	DH	EET ALB	08/09/24 15:00
Total/NA	Prep	300_Prep			9999	EH	EET ALB	08/09/24 11:18
Total/NA	Analysis	300.0		20	10026	RC	EET ALB	08/09/24 15:40

Client Sample ID: S-10
Lab Sample ID: 885-9539-10
Date Collected: 08/08/24 12:45
Matrix: Solid
Date Received: 08/09/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10028	JP	EET ALB	08/09/24 16:20
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8021B		1	10030	JP	EET ALB	08/09/24 16:20
Total/NA	Prep	SHAKE			9981	EM	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10024	DH	EET ALB	08/09/24 15:10

Lab Chronicle

Client: Ensolum
Job ID: 885-9539-1
Project/Site: Lateral 2C-39

Client Sample ID: S-10
Lab Sample ID: 885-9539-10
Date Collected: 08/08/24 12:45
Matrix: Solid
Date Received: 08/09/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			9999	EH	EET ALB	08/09/24 11:18
Total/NA	Analysis	300.0		20	10026	RC	EET ALB	08/09/24 15:53

Client Sample ID: S-11
Lab Sample ID: 885-9539-11
Date Collected: 08/08/24 12:50
Matrix: Solid
Date Received: 08/09/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10028	JP	EET ALB	08/09/24 17:08
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8021B		1	10030	JP	EET ALB	08/09/24 17:08
Total/NA	Prep	SHAKE			9981	EM	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10024	DH	EET ALB	08/09/24 15:21
Total/NA	Prep	300_Prep			9999	EH	EET ALB	08/09/24 11:18
Total/NA	Analysis	300.0		20	10026	RC	EET ALB	08/09/24 16:06

Client Sample ID: S-12
Lab Sample ID: 885-9539-12
Date Collected: 08/08/24 12:55
Matrix: Solid
Date Received: 08/09/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10028	JP	EET ALB	08/09/24 17:32
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8021B		1	10030	JP	EET ALB	08/09/24 17:32
Total/NA	Prep	SHAKE			9981	EM	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10024	DH	EET ALB	08/09/24 15:32
Total/NA	Prep	300_Prep			9999	EH	EET ALB	08/09/24 11:18
Total/NA	Analysis	300.0		20	10026	RC	EET ALB	08/09/24 16:19

Client Sample ID: S-13
Lab Sample ID: 885-9539-13
Date Collected: 08/08/24 13:00
Matrix: Solid
Date Received: 08/09/24 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10028	JP	EET ALB	08/09/24 17:55
Total/NA	Prep	5035			9980	AT	EET ALB	08/09/24 09:28
Total/NA	Analysis	8021B		1	10030	JP	EET ALB	08/09/24 17:55
Total/NA	Prep	SHAKE			9981	EM	EET ALB	08/09/24 09:28
Total/NA	Analysis	8015M/D		1	10024	DH	EET ALB	08/09/24 15:43
Total/NA	Prep	300_Prep			9999	EH	EET ALB	08/09/24 11:18
Total/NA	Analysis	300.0		20	10026	RC	EET ALB	08/09/24 16:32

Lab Chronicle

Client: Ensolum
Project/Site: Lateral 2C-39

Job ID: 885-9539-1

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Job ID: 885-9539-1
Project/Site: Lateral 2C-39

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

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: 100%
☐ Standard ☒ Rush 8-9-24

Project Name: Lateral 2C-39

Project #:

Project Manager: K Summers

Sampler: C DApont.

On Ice: ☒ Yes ☐ No Yogi

# of Coolers: 2

Cooler Temp(including CF): 0.4 +0.2=0.6 (°C)
0.6 +0.2=0.8-c

HALL ENVIRONMENTAL ANALYSIS LABORA

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

885-9539 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)
8/8	1200	S	S-1	1 4oz Jar	Cool	1	✓	✓					✓			
8/8	1205	S	S-2		Cool	2	✓	✓					✓			
8/8	1210	S	S-3		Cool	3	✓	✓					✓			
8/8	1215	S	S-4		Cool	4	✓	✓					✓			
8/8	1220	S	S-5		Cool	5	✓	✓					✓			
8/8	1225	S	S-6		Cool	6	✓	✓					✓			
8/8	1230	S	S-7		Cool	7	✓	✓					✓			
8/8	1235	S	S-8		Cool	8	✓	✓					✓			
8/8	1240	S	S-9		Cool	9	✓	✓					✓			
8/8	1245	S	S-10		Cool	10	✓	✓					✓			
8/8	1250	S	S-11		Cool	11	✓	✓					✓			
8/8	1255	S	S-12		Cool	12	✓	✓					✓			

Date	Time	Relinquished by	Received by	Via	Date	Time
8/8/24	1450				8/8/24	1450
8/8/24	1720			~~Courier~~	8/9/24	0:15

Remarks: Tom Long
Reg Eng - AM14058

1 of 2

Save 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

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address:

Phone #:

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: 100%
☐ Standard ☒ Rush 8-9-24

Project Name: Lateral 2C-39

Project #:

Project Manager: KS

Sampler: CT

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp (including CF): 0.4 +0.2 = 0.6 (°C)
0.6 +0.2 = 0.8 °C

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

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~~, ~~NO3~~, ~~NO2~~, ~~PO4~~, ~~SO4~~	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
8/8	1300	S	S-13	1 4oz Jar	Cool	13	✓	✓					✓			

Date:	Time.	Relinquished by.	Received by	Via	Date	Time
8/8/24	1450				8/8/24	1450
8/8/24	1720			Courier	8/9/24	6:15

Remarks: T Long
AM14058

2 of 2

Same 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: 885-9539-1

Login Number: 9539 **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.	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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/20/2024 3:13:30 PM

JOB DESCRIPTION

Lateral 2C-39 (7-25-2024)

JOB NUMBER

885-9921-1

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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8/20/2024 3:13:30 PM

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

Client: Ensolum
Project/Site: Lateral 2C-39 (7-25-2024)

Laboratory Job ID: 885-9921-1

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 885-9921-1
Project/Site: Lateral 2C-39 (7-25-2024)

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: 885-9921-1
Project: Lateral 2C-39 (7-25-2024)

Job ID: 885-9921-1 Eurofins Albuquerque

Job Narrative
885-9921-1

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 samples were received on 8/15/2024 6:10 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 3.9°C.

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: 885-9921-1
Project/Site: Lateral 2C-39 (7-25-2024)

Client Sample ID: S-14
Lab Sample ID: 885-9921-1
Date Collected: 08/14/24 09:15
Matrix: Solid
Date Received: 08/15/24 06:10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	420		59		mg/Kg		08/15/24 09:15	08/15/24 12:19	20

Client Sample Results

Client: Ensolum
Job ID: 885-9921-1
Project/Site: Lateral 2C-39 (7-25-2024)

Client Sample ID: S-15
Lab Sample ID: 885-9921-2
Date Collected: 08/14/24 09:20
Matrix: Solid
Date Received: 08/15/24 06:10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	510		60		mg/Kg		08/15/24 09:15	08/15/24 12:31	20

Client Sample Results

Client: Ensolum
Job ID: 885-9921-1
Project/Site: Lateral 2C-39 (7-25-2024)

Client Sample ID: S-16
Lab Sample ID: 885-9921-3
Date Collected: 08/14/24 09:25
Matrix: Solid
Date Received: 08/15/24 06:10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	310		60		mg/Kg		08/15/24 09:15	08/15/24 12:44	20

Client Sample Results

Client: Ensolum
Job ID: 885-9921-1
Project/Site: Lateral 2C-39 (7-25-2024)

Client Sample ID: S-17
Lab Sample ID: 885-9921-4
Date Collected: 08/14/24 09:30
Matrix: Solid
Date Received: 08/15/24 06:10

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	390		60		mg/Kg		08/15/24 09:15	08/15/24 12:56	20

QC Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39 (7-25-2024)

Job ID: 885-9921-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-10312/1-A
Matrix: Solid
Analysis Batch: 10376

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10312

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		08/15/24 09:15	08/15/24 11:54	1

Lab Sample ID: LCS 885-10312/2-A
Matrix: Solid
Analysis Batch: 10376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10312

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.8		mg/Kg		96	90 - 110		

QC Association Summary

Client: Ensolum
Job ID: 885-9921-1
Project/Site: Lateral 2C-39 (7-25-2024)

HPLC/IC

Prep Batch: 10312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9921-1	S-14	Total/NA	Solid	300_Prep	
885-9921-2	S-15	Total/NA	Solid	300_Prep	
885-9921-3	S-16	Total/NA	Solid	300_Prep	
885-9921-4	S-17	Total/NA	Solid	300_Prep	
MB 885-10312/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-10312/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 10376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-9921-1	S-14	Total/NA	Solid	300.0	10312
885-9921-2	S-15	Total/NA	Solid	300.0	10312
885-9921-3	S-16	Total/NA	Solid	300.0	10312
885-9921-4	S-17	Total/NA	Solid	300.0	10312
MB 885-10312/1-A	Method Blank	Total/NA	Solid	300.0	10312
LCS 885-10312/2-A	Lab Control Sample	Total/NA	Solid	300.0	10312

Lab Chronicle

Client: Ensolum
Job ID: 885-9921-1
Project/Site: Lateral 2C-39 (7-25-2024)

Client Sample ID: S-14
Lab Sample ID: 885-9921-1
Date Collected: 08/14/24 09:15
Matrix: Solid
Date Received: 08/15/24 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			10312	EH	EET ALB	08/15/24 09:15
Total/NA	Analysis	300.0		20	10376	EH	EET ALB	08/15/24 12:19

Client Sample ID: S-15
Lab Sample ID: 885-9921-2
Date Collected: 08/14/24 09:20
Matrix: Solid
Date Received: 08/15/24 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			10312	EH	EET ALB	08/15/24 09:15
Total/NA	Analysis	300.0		20	10376	EH	EET ALB	08/15/24 12:31

Client Sample ID: S-16
Lab Sample ID: 885-9921-3
Date Collected: 08/14/24 09:25
Matrix: Solid
Date Received: 08/15/24 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			10312	EH	EET ALB	08/15/24 09:15
Total/NA	Analysis	300.0		20	10376	EH	EET ALB	08/15/24 12:44

Client Sample ID: S-17
Lab Sample ID: 885-9921-4
Date Collected: 08/14/24 09:30
Matrix: Solid
Date Received: 08/15/24 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			10312	EH	EET ALB	08/15/24 09:15
Total/NA	Analysis	300.0		20	10376	EH	EET ALB	08/15/24 12:56

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Job ID: 885-9921-1
Project/Site: Lateral 2C-39 (7-25-2024)

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

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: Same Day

☐ Standard ☒ Rush 100% Day

Project Name: Lateral 2C-39 (7-25-2024)

Project #: SEE NOTES

Project Manager: K. Summers

Sampler: L. Daniel

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 3.6+0.3=3.9 (°C)

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

885-9921 COC

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, NO3, NO2, PO4, SO4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
8/14/24	9:15	S	S-14	1402 jar	Cool	1							X			
	9:20	S	S-15			2							X			
	9:25	S	S-16			3							X			
	9:30	S	S-17			4							X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
8/14/24	1512				8/14/24	1512
8/14/24	1800			Courier	8/15/24	10:10

Remarks:

PM Tom Long
Pas key: RB24200
Non AFE# N74367

Same 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: 885-9921-1

Login Number: 9921 **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.	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	

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/28/2025 4:50:07 PM

JOB DESCRIPTION

Lateral 2C-39 #1

JOB NUMBER

885-18825-1

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

Client: Ensolum
Project/Site: Lateral 2C-39 #1

Laboratory Job ID: 885-18825-1

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 885-18825-1
Project/Site: Lateral 2C-39 #1

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
Project: Lateral 2C-39 #1

Job ID: 885-18825-1

Job ID: 885-18825-1 Eurofins Albuquerque

Job Narrative
885-18825-1

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 1/24/2025 7:12 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 -2.3°C.

Receipt Exceptions
The following sample was received at the laboratory outside the required temperature criteria: BF-1 (885-18825-1). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

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
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
Project/Site: Lateral 2C-39 #1

Job ID: 885-18825-1

Client Sample ID: BF-1

Date Collected: 01/23/25 09:00
Date Received: 01/24/25 07:12

Lab Sample ID: 885-18825-1

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		3.9		mg/Kg		01/24/25 09:33	01/24/25 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*01/24/25 09:33*	*01/24/25 11:39*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019		mg/Kg		01/24/25 09:33	01/24/25 11:39	1
Ethylbenzene	ND		0.039		mg/Kg		01/24/25 09:33	01/24/25 11:39	1
Toluene	ND		0.039		mg/Kg		01/24/25 09:33	01/24/25 11:39	1
Xylenes, Total	ND		0.077		mg/Kg		01/24/25 09:33	01/24/25 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*01/24/25 09:33*	*01/24/25 11:39*	*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		01/24/25 09:57	01/24/25 11:32	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		01/24/25 09:57	01/24/25 11:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*112*		*62 - 134*	*01/24/25 09:57*	*01/24/25 11:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		01/24/25 07:35	01/24/25 11:00	20

QC Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39 #1

Job ID: 885-18825-1

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

Lab Sample ID: MB 885-19796/1-A
Matrix: Solid
Analysis Batch: 19793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19796

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		01/24/25 09:33	01/24/25 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*01/24/25 09:33*	*01/24/25 11:15*	*1*

Lab Sample ID: LCS 885-19796/2-A
Matrix: Solid
Analysis Batch: 19793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19796

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	21.1		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*187*		*35 - 166*

Lab Sample ID: 885-18825-1 MS
Matrix: Solid
Analysis Batch: 19826

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 19796

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		19.3	18.8		mg/Kg		97	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*203*		*35 - 166*

Lab Sample ID: 885-18825-1 MSD
Matrix: Solid
Analysis Batch: 19826

Client Sample ID: BF-1
Prep Type: Total/NA
Prep Batch: 19796

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		19.3	18.6		mg/Kg		96	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*207*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-19796/1-A
Matrix: Solid
Analysis Batch: 19794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19796

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		01/24/25 09:33	01/24/25 11:15	1
Ethylbenzene	ND		0.050		mg/Kg		01/24/25 09:33	01/24/25 11:15	1
Toluene	ND		0.050		mg/Kg		01/24/25 09:33	01/24/25 11:15	1

QC Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39 #1

Job ID: 885-18825-1

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

Lab Sample ID: MB 885-19796/1-A
Matrix: Solid
Analysis Batch: 19794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19796

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		01/24/25 09:33	01/24/25 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*01/24/25 09:33*	*01/24/25 11:15*	*1*

Lab Sample ID: LCS 885-19796/3-A
Matrix: Solid
Analysis Batch: 19794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19796

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.02		mg/Kg		102	70 - 130		
Ethylbenzene			1.00	1.05		mg/Kg		105	70 - 130		
Toluene			1.00	1.04		mg/Kg		104	70 - 130		
Xylenes, Total			3.00	3.13		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*48 - 145*

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

Lab Sample ID: MB 885-19800/1-A
Matrix: Solid
Analysis Batch: 19788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19800

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		01/24/25 09:57	01/24/25 11:11	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		01/24/25 09:57	01/24/25 11:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*113*		*62 - 134*	*01/24/25 09:57*	*01/24/25 11:11*	*1*

Lab Sample ID: LCS 885-19800/2-A
Matrix: Solid
Analysis Batch: 19788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19800

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	51.3		mg/Kg		103	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*

QC Sample Results

Client: Ensolum
Project/Site: Lateral 2C-39 #1

Job ID: 885-18825-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-19786/1-A
Matrix: Solid
Analysis Batch: 19784

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19786

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		01/24/25 07:35	01/24/25 08:19	1

Lab Sample ID: LCS 885-19786/3-A
Matrix: Solid
Analysis Batch: 19784

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19786

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	15.2		mg/Kg		101	90 - 110		

Lab Sample ID: MRL 885-19786/2-A
Matrix: Solid
Analysis Batch: 19784

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19786

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			1.50	1.65		mg/L		110	50 - 150		

QC Association Summary

Client: Ensolum
Project/Site: Lateral 2C-39 #1

Job ID: 885-18825-1

GC VOA

Analysis Batch: 19793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18825-1	BF-1	Total/NA	Solid	8015M/D	19796
MB 885-19796/1-A	Method Blank	Total/NA	Solid	8015M/D	19796
LCS 885-19796/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	19796

Analysis Batch: 19794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18825-1	BF-1	Total/NA	Solid	8021B	19796
MB 885-19796/1-A	Method Blank	Total/NA	Solid	8021B	19796
LCS 885-19796/3-A	Lab Control Sample	Total/NA	Solid	8021B	19796

Prep Batch: 19796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18825-1	BF-1	Total/NA	Solid	5035	
MB 885-19796/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-19796/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-19796/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-18825-1 MS	BF-1	Total/NA	Solid	5035	
885-18825-1 MSD	BF-1	Total/NA	Solid	5035	

Analysis Batch: 19826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18825-1 MS	BF-1	Total/NA	Solid	8015M/D	19796
885-18825-1 MSD	BF-1	Total/NA	Solid	8015M/D	19796

GC Semi VOA

Analysis Batch: 19788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18825-1	BF-1	Total/NA	Solid	8015M/D	19800
MB 885-19800/1-A	Method Blank	Total/NA	Solid	8015M/D	19800
LCS 885-19800/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	19800

Prep Batch: 19800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18825-1	BF-1	Total/NA	Solid	SHAKE	
MB 885-19800/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-19800/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Analysis Batch: 19784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18825-1	BF-1	Total/NA	Solid	300.0	19786
MB 885-19786/1-A	Method Blank	Total/NA	Solid	300.0	19786
LCS 885-19786/3-A	Lab Control Sample	Total/NA	Solid	300.0	19786
MRL 885-19786/2-A	Lab Control Sample	Total/NA	Solid	300.0	19786

Prep Batch: 19786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-18825-1	BF-1	Total/NA	Solid	300_Prep	
MB 885-19786/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-19786/3-A	Lab Control Sample	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ensolum
Job ID: 885-18825-1
Project/Site: Lateral 2C-39 #1

HPLC/IC (Continued)

Prep Batch: 19786 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 885-19786/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: Ensolum
Job ID: 885-18825-1
Project/Site: Lateral 2C-39 #1

Client Sample ID: BF-1
Date Collected: 01/23/25 09:00
Date Received: 01/24/25 07:12

Lab Sample ID: 885-18825-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			19796	JP	EET ALB	01/24/25 09:33
Total/NA	Analysis	8015M/D		1	19793	JP	EET ALB	01/24/25 11:39
Total/NA	Prep	5035			19796	JP	EET ALB	01/24/25 09:33
Total/NA	Analysis	8021B		1	19794	JP	EET ALB	01/24/25 11:39
Total/NA	Prep	SHAKE			19800	MI	EET ALB	01/24/25 09:57
Total/NA	Analysis	8015M/D		1	19788	MI	EET ALB	01/24/25 11:32
Total/NA	Prep	300_Prep			19786	RC	EET ALB	01/24/25 07:35
Total/NA	Analysis	300.0		20	19784	RC	EET ALB	01/24/25 11:00

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Job ID: 885-18825-1
Project/Site: Lateral 2C-39 #1

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

Mailing Address: 606 S Rio Grande Suite A 87410

Phone #:

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 2nd 24
☐ Standard ☒ Rush 1-24-25

Project Name: Lateral 2C-39 #1

Project #:

Project Manager: K Summers

Sampler: C DiAponte

On Ice: ~~☐ Yes~~ ☐ No

# of Coolers: 1 Majo

Cooler Temp(including CF): -2.2+0.2=2.3 (°C)

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

885-18825 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / ~~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~~, NO2, NO3, PO4, SO4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
1/23	900	S	BF-1	4oz Jar	Cool		✓	✓					✓			

Analysis Request

Date	Time:	Relinquished by:	Received by.	Via·	Date	Time
1/23/25	1443				1/23/25	1443
Date. 1/23/25	Time: 1716	Relinquished by:	Received by:	Via.	Date	Time
				Courier	1/24/25	7:12

Remarks: Not Frozen 1/24/25
Tom Long
Am 1405 8

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: 885-18825-1

Login Number: 18825 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: McQuiston, Steven

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.	False	Refer to Job Narrative for details.
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	

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

QUESTIONS

Action 433379

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 433379
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2421837149**
Incident Name	**NAPP2421837149 LATERAL 2C-39 @ 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	LATERAL 2C-39
Date Release Discovered	08/05/2024
Surface Owner	Private

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	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 433379
	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)	**More info needed to determine if 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: 08/06/2024

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 433379
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 200 and 300 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 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	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 300 and 500 (ft.)
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 100 and 200 (ft.)
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)	600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	68
GRO+DRO (EPA SW-846 Method 8015M)	68
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1
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	08/05/2024
On what date will (or did) the final sampling or liner inspection occur	01/23/2025
On what date will (or was) the remediation complete(d)	01/23/2025
What is the estimated surface area (in square feet) that will be reclaimed	815
What is the estimated volume (in cubic yards) that will be reclaimed	535
What is the estimated surface area (in square feet) that will be remediated	815
What is the estimated volume (in cubic yards) that will be remediated	535
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)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 433379
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 #2 [fEEM0112336756]
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: 02/19/2025
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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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: 433379
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 433379
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**421743**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**01/23/2025**
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	815
What was the total volume (cubic yards) remediated	535
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	815
What was the total volume (in cubic yards) reclaimed	535
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.

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

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 02/19/2025

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 433379
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	815
What was the total volume of replacement material (in cubic yards) for this site	535
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.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 02/19/2025

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QUESTIONS (continued)

Operator:	OGRID:
Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	241602
	Action Number: 433379
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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

Operator:	OGRID:
Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	241602
	Action Number: 433379
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
scwells	Reclamation approved.	3/5/2025
scwells	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	3/5/2025