Enterprise Products

ENTERPRISE PRODUCTS PARTNERS L.P.
ENTERPRISE PRODUCTS HOLDINGS LLC
(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

May 13, 2024

OCD Website

EMNRD Oil Conservation Division
Aztec District III Office
Attn: Nelson Velez
1000 Rio Brazos Road
Aztec, NM 87410

RE: Closure Report
Enterprise Field Services, LLC
State Gas Com #3
San Juan County, NM

Mr. Velez:

Enterprise Field Services, LLC is submitting the Closure Report for the State Gas Com #3 release that occurred on March 10, 2024.

If you have questions or require additional information, please contact our field representative, Thomas Long at (505) 599-2286 or Brian Stone, Field Environmental Manager at (970) 263-3020.

Thank you,

Jon E. Fields
Director, Field Environmental

/bjm
Attachment

P.O. BOX 4324
HOUSTON, TEXAS 77210-4324
713.381.6500

1100 LOUISIANA STREET
HOUSTON, TEXAS 77002-5227
www.enterpriseproducts.com

ENSOLUM

CLOSURE REPORT

Property:

State Gas Com #3 (3/15/24)
Unit Letter P, S32 T31N R12W
San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2407540038

May 3, 2024

Ensolum Project No. 05A1226313

Prepared for:

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

Prepared by:

Kyle Summers
Senior Managing Geologist

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1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	State Gas Com #3 (3/15/24) (Site)
NM EMNRD OCD Incident ID No.	NAPP2407540038
Location:	36.850794° North, 108.117259° West Unit Letter P, Section 32, Township 31 North, Range 12 West San Juan County, New Mexico
Property:	New Mexico State Land Office
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On March 10, 2024, Enterprise personnel identified a release of natural gas and associated pipeline liquids from the State Gas Com #3 well tie pipeline. Enterprise subsequently isolated and locked the pipeline out of service. On March 15, 2024, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact. Enterprise determined the release was "reportable" due to the potential volume of impacted soil. The NM EMNRD OCD was subsequently notified.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

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

- The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs were identified in the same Public Land Survey System (PLSS) section as the Site. Numerous PODs were identified in the adjacent PLSS sections. The average depth to water (DTW) for the PODs is 82 feet below grade surface (bgs). The closest POD (SJ-04197-POD1) is approximately 1.07 miles northwest of the site and approximately 31 feet lower in elevation than the Site. The recorded DTW for this POD is 140 feet bgs (**Figure A**, **Appendix B**). The

OSE interactive map identifies POD SJ-02145 (DTW 110') to be closer than POD SJ-04197, however, based on the PLSS information in the well record, the actual location is approximately 1.3 miles southeast of the Site.

- Four cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the adjacent PLSS sections. These CPWs are depicted on **Figure B** (**Appendix B**). Documentation for the cathodic protection well located near the Thompson 1R production pad indicates a depth to water of 200 feet bgs. This cathodic protection well is located approximately 0.60 miles east of the Site and is approximately 9 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Taliaferro #3E production pad indicates a depth to water of approximately 170 feet bgs. This cathodic protection well is located approximately 1.06 miles west of the Site and is approximately 17 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Taliaferro #7 production pad indicates depths to water of approximately 100 and 170 feet bgs. This cathodic protection well is located approximately 1.24 miles northwest of the Site and is approximately 5 feet higher in elevation than the Site. Documentation for the cathodic protection well located near the Taliaferro #4E production pad indicates depths to water of approximately 80 and 90 feet bgs. This cathodic protection well is located approximately 1. 67 miles northwest of the Site and is approximately 61 feet higher in elevation than the Site.

- The Site is located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C**, **Appendix B**). The Site was approximately 83 feet from an ephemeral wash with regular high water flow marks.

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

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

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

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

- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.

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

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

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

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

Based on available information, 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 March 15, 2024, Enterprise initiated activities to repair the pipeline and 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 final excavation measured approximately 21 feet long and 12 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 11 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of consolidated to unconsolidated silty sand and pea gravel.

Approximately 98 cubic yards (yd^3) of petroleum hydrocarbon-affected soils were transported to the Envirotech, Inc., (Envirotech) landfarm in San Juan County, NM for disposal/remediation. The 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 eight composite soil samples (S-1 through S-8) from the excavation 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. Hand tools were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

Sampling Event

On March 19, 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 (11') and S-2 (11') were collected from the floor of the excavation. Composite soil samples S-3 (0' to 11'), S-4 (0' to11'), S-5 (0' to 11'), S-6 (0' to 11'), S-7 (0' to 11'), and S-8 (0' to 11') were collected from the walls of the excavation.

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-8) to the applicable NM EMNRD OCD closure criteria. The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

- The laboratory analytical results for the composite soil samples indicate 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 composite soil samples S-1, S-2, S-3, and S-6 indicate total BTEX concentrations of 0.070 mg/kg, 0.11 mg/kg, 0.075 mg/kg, and 0.082 mg/kg, respectively, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for the other composite soil samples indicate 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 sample S-6 indicate a total combined TPH GRO/DRO/MRO concentration of 30 mg/kg, which is less than the NM EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for the other composite soil samples indicate total combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 100 mg/kg.

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

7.0 RECLAMATION

The excavation was backfilled with imported fill and then contoured to the surrounding grade. Once the Site is no longer being used for oil and gas production, final reclamation and revegetation will be addressed in accordance with 19.15.29.13 NMAC.

8.0 FINDINGS AND RECOMMENDATION

- Eight composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, BTEX, chloride, or total combined TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.
- Approximately 98 yd^3 of petroleum hydrocarbon-affected soils were transported to the Envirotech landfarm for disposal/remediation.
- Enterprise requests deferment of final reclamation and revegetation at the Site to address the requirements of 19.15.29.13 NMAC until after the Site is no longer being utilized for oil and gas production/gathering.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Limitations

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

9.3 Reliance

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the Closure

Report and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

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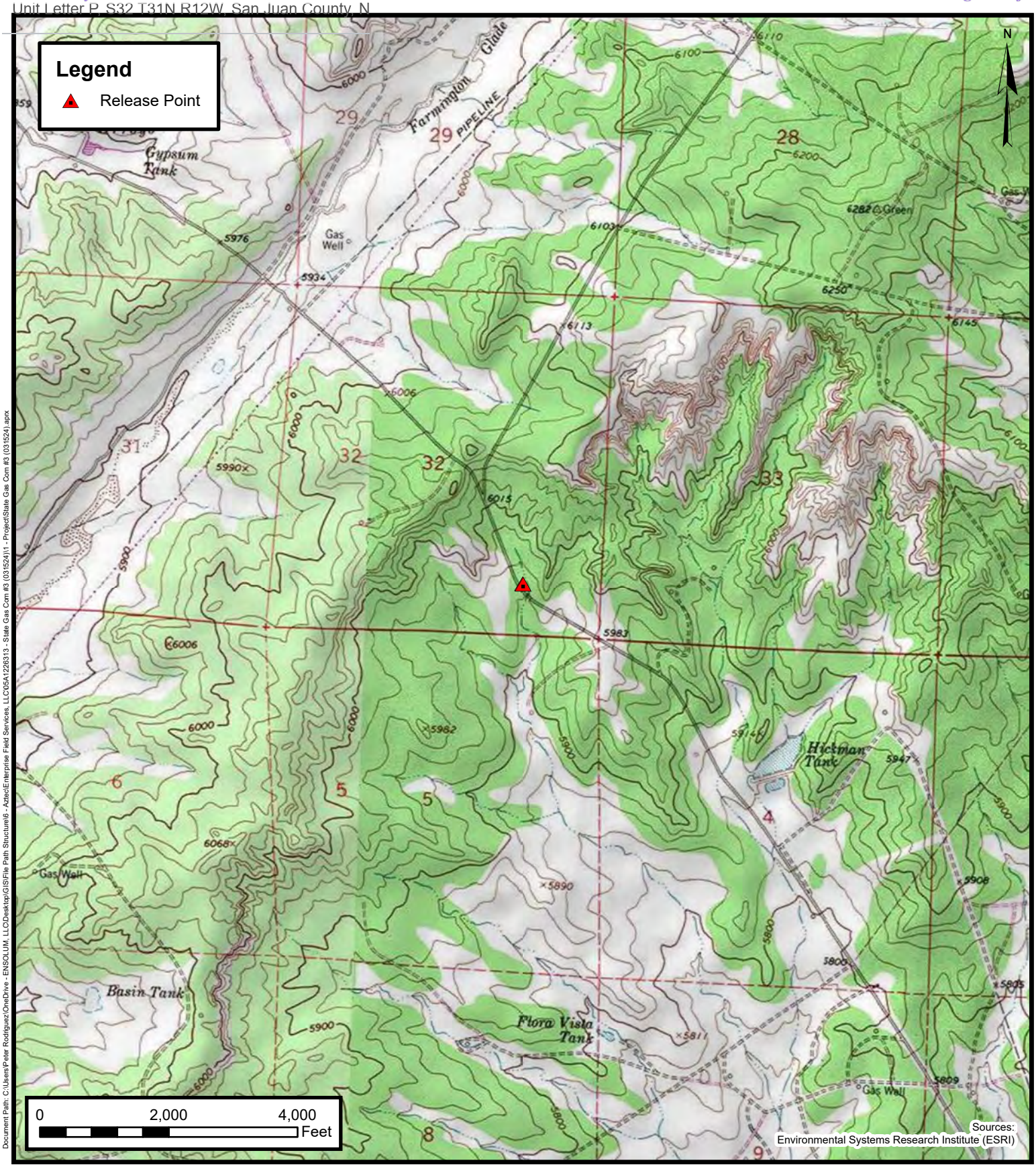
APPENDIX A

Figures

Unit Letter P, S32 T31N R12W, San Juan County, N



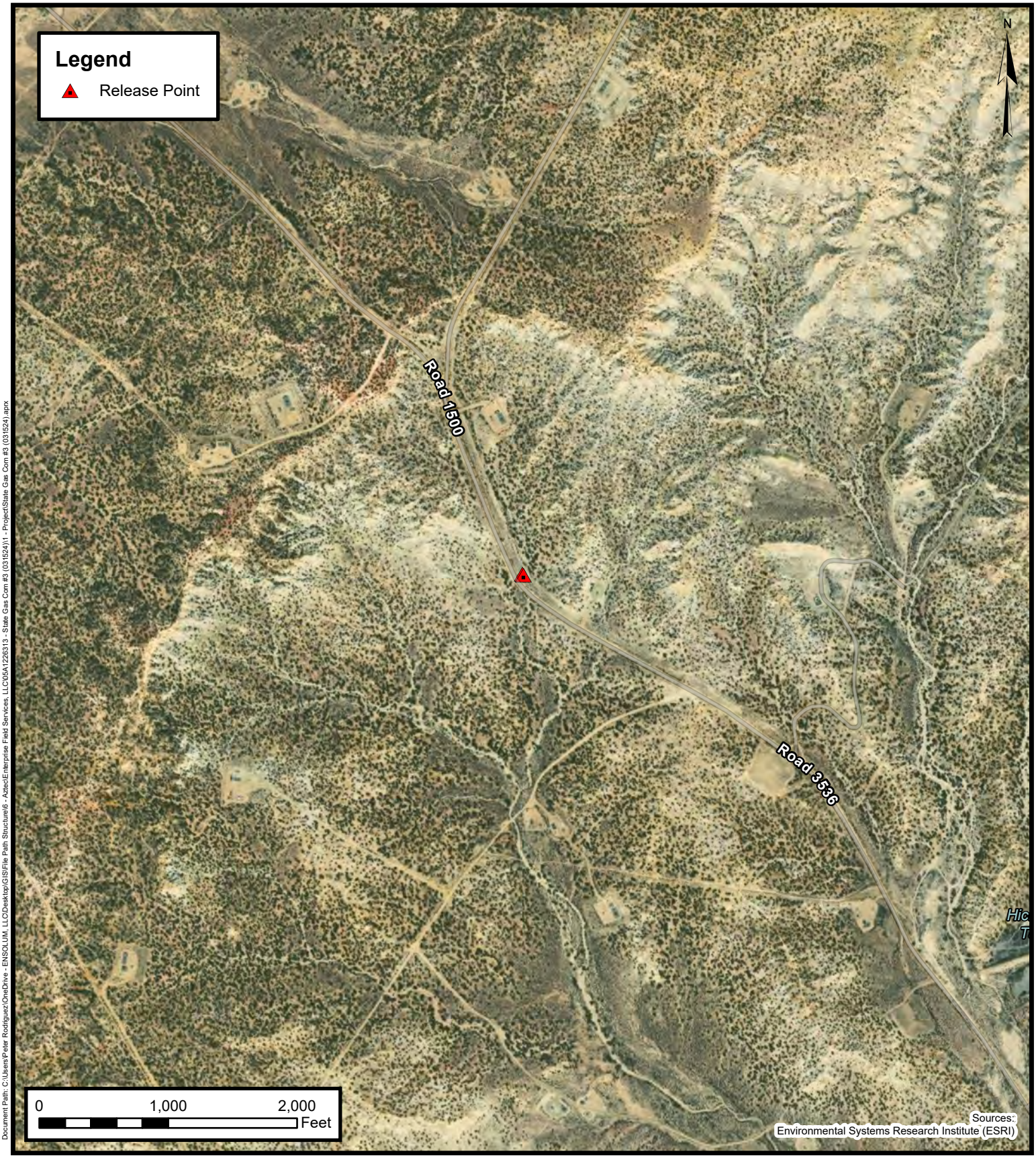
Document Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure\6 - Aztec\Enterprise Field Services, LLC\05A1226313 - State Gas Com #3 (031524)\1 - Project\State Gas Com #3 (031524).aprx

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Topographic Map

Enterprise Field Services, LLC
State Gas Com #3 (03/15/24)
Project Number: 05A1226313
Unit Letter P, S32 T31N R12W, San Juan County, New Mexico
36.850794, -108.117259

FIGURE
1



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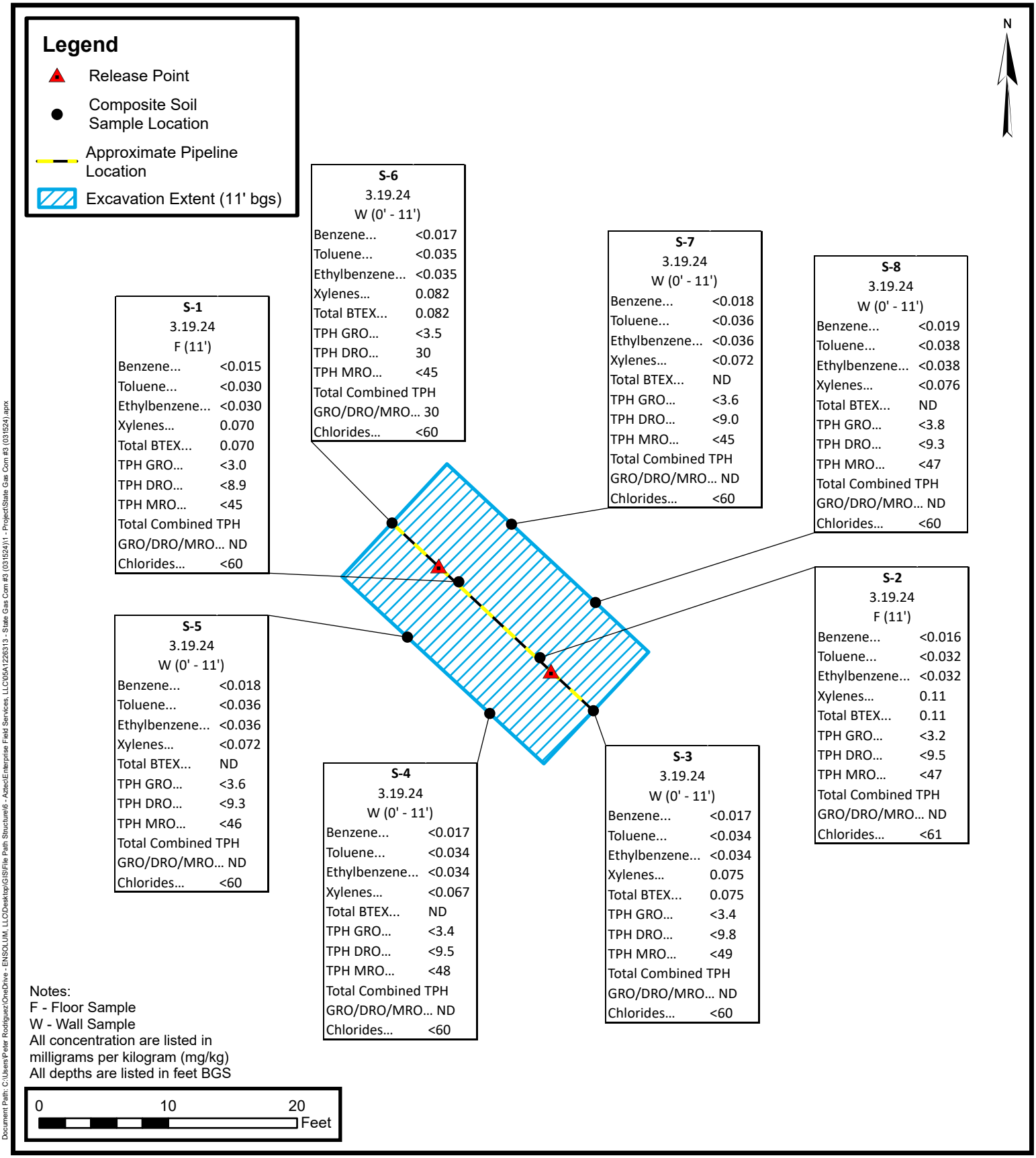
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Vicinity Map

Enterprise Field Services, LLC
State Gas Com #3 (03/15/24)
Project Number: 05A1226313
Unit Letter P, S32 T31N R12W, San Juan County, New Mexico
36.850794, -108.117259

FIGURE
2



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ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Map with Soil Analytical Results

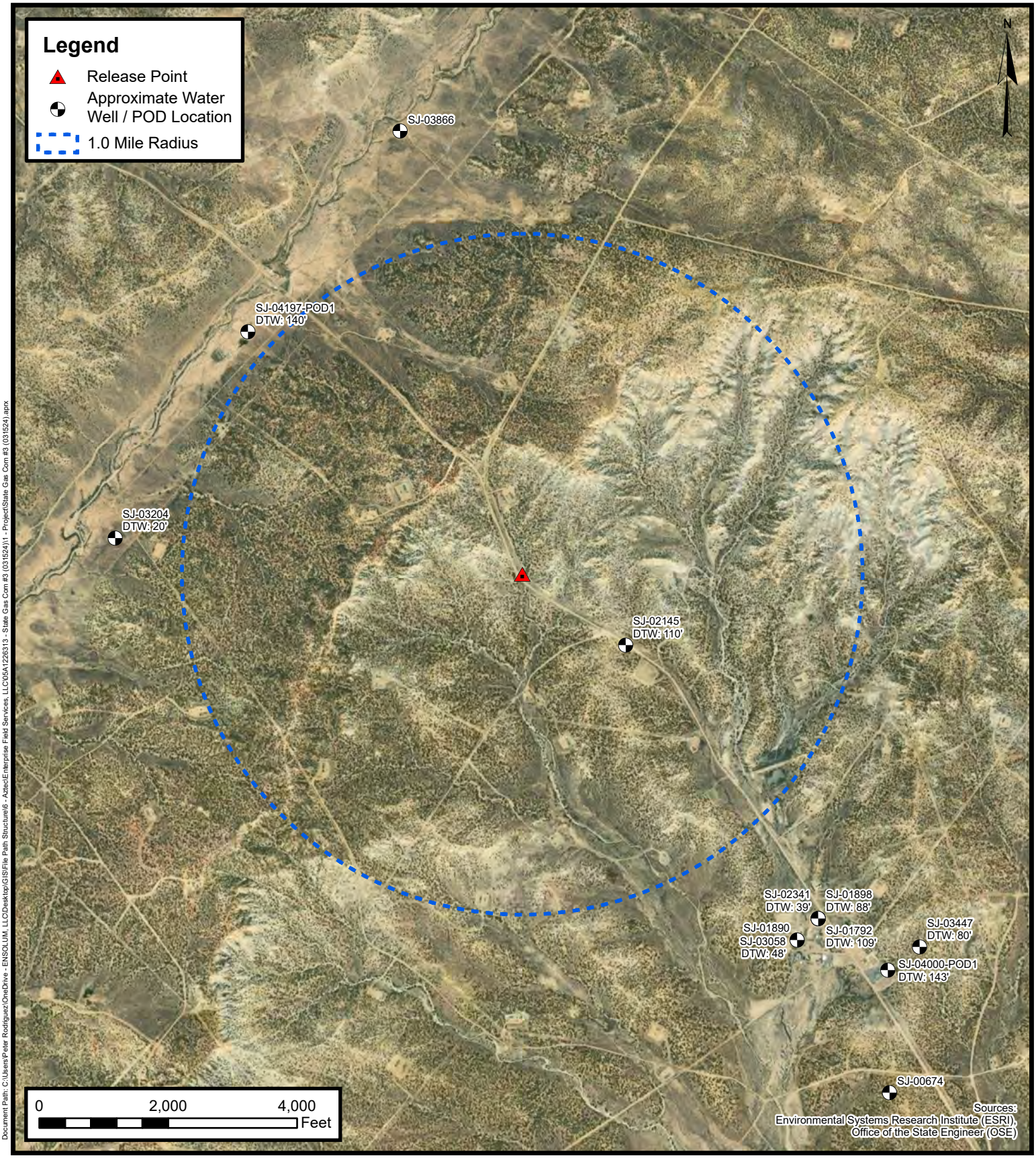
Enterprise Field Services, LLC
State Gas Com #3 (03/15/24)
Project Number: 05A1226313
Unit Letter P, S32 T31N R12W, San Juan County, New Mexico
36.850794, -108.117259

FIGURE
3

ENSOLUM

APPENDIX B

Siting Figures and Documentation



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Environmental, Engineering and Hydrogeologic Consultants

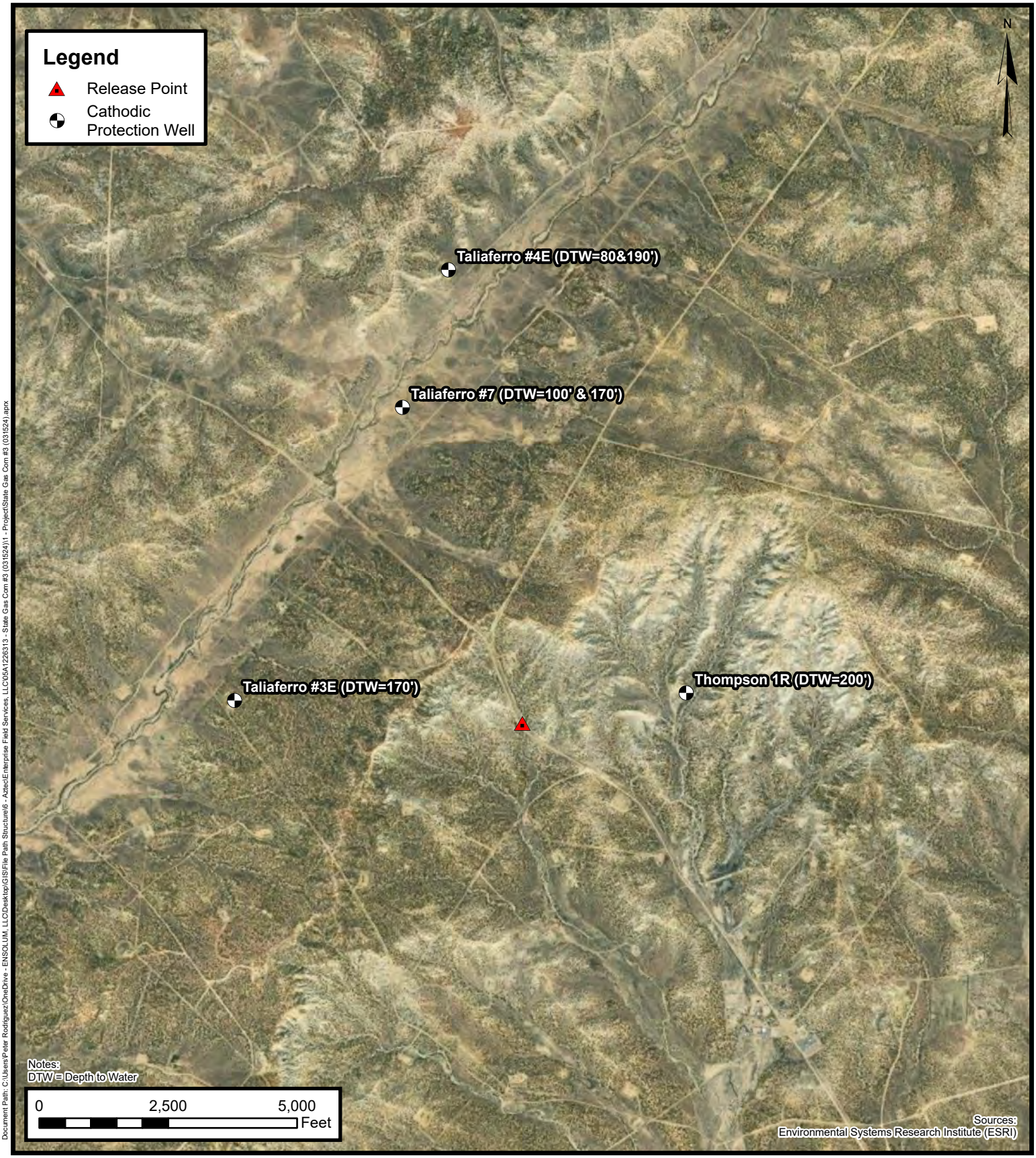
1.0 Mile Radius Water Well/POD Location Map

Enterprise Field Services, LLC
State Gas Com #3 (03/15/24)
Project Number: 05A1226313

Unit Letter P, S32 T31N R12W, San Juan County, New Mexico
36.850794, -108.117259

FIGURE

A



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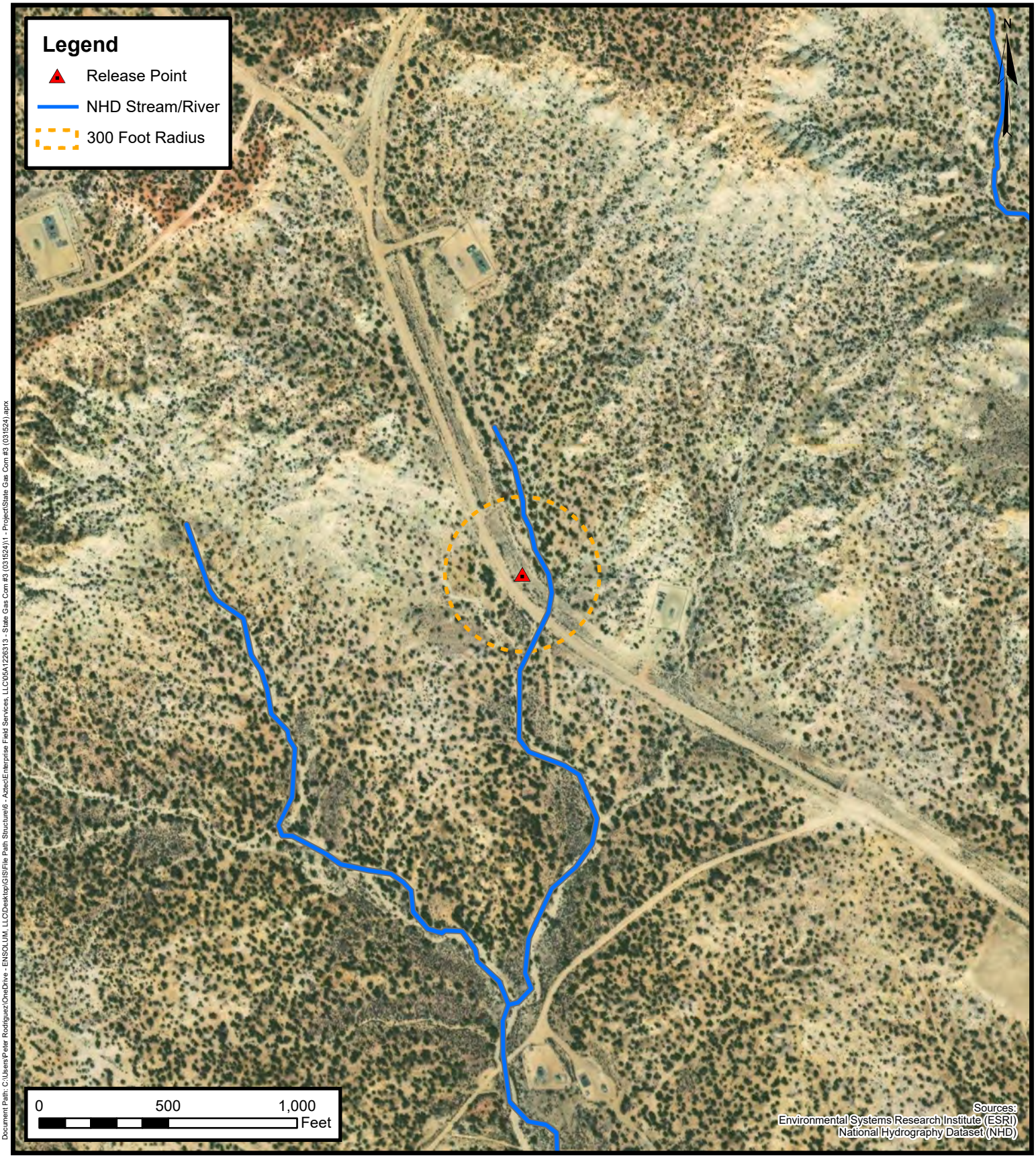
Environmental, Engineering and Hydrogeologic Consultants

Cathodic Protection Well
Recorded Depth to Water
Enterprise Field Services, LLC
State Gas Com #3 (03/15/24)
Project Number: 05A1226313
Unit Letter P, S32 T31N R12W, San Juan County, New Mexico
36.850794, -108.117259

FIGURE
B



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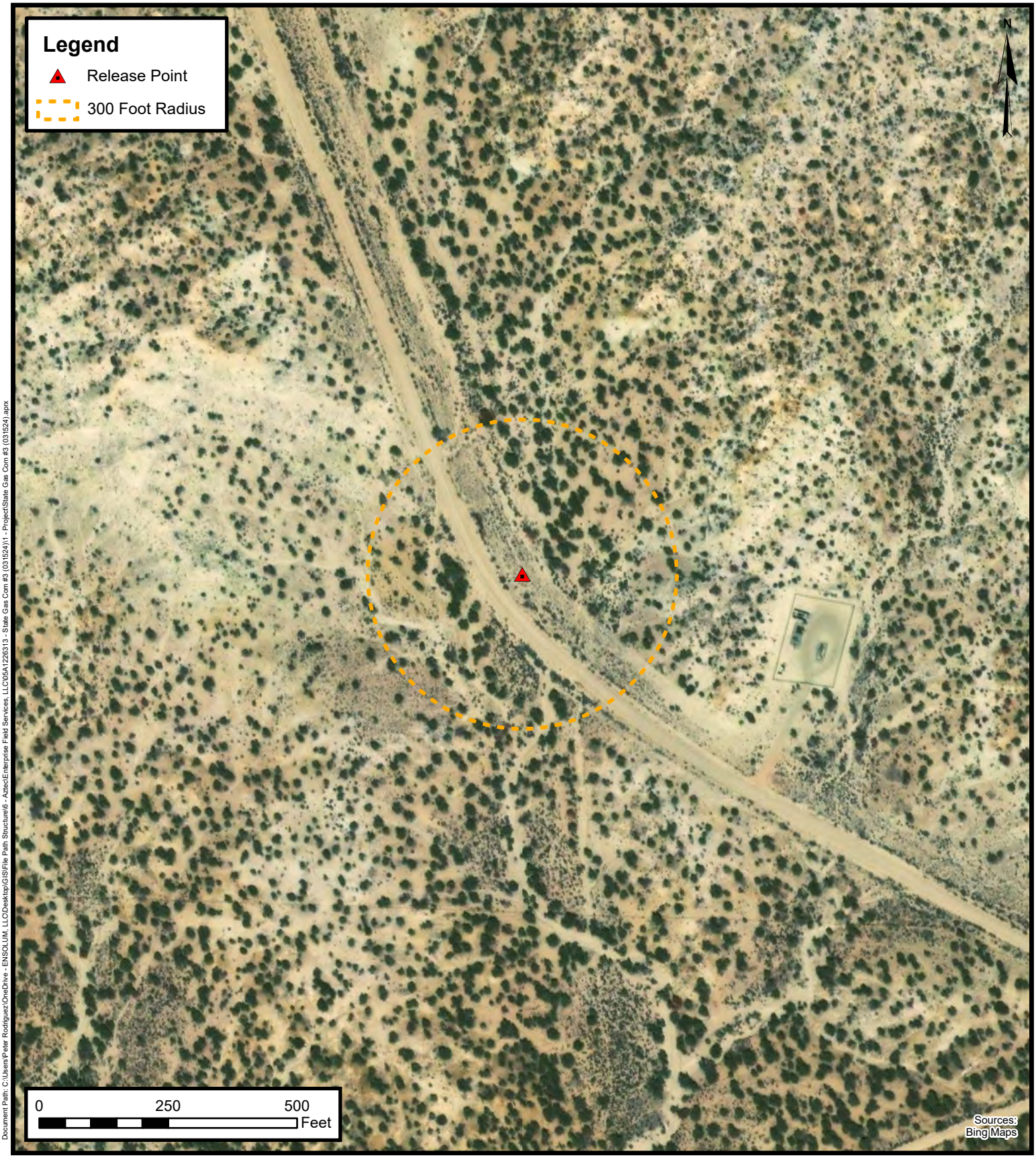
300 Foot Radius Watercourse and Drainage Identification

Enterprise Field Services, LLC
State Gas Com #3 (03/15/24)
Project Number: 05A1226313
Unit Letter P, S32 T31N R12W, San Juan County, New Mexico
36.850794, -108.117259

FIGURE

C



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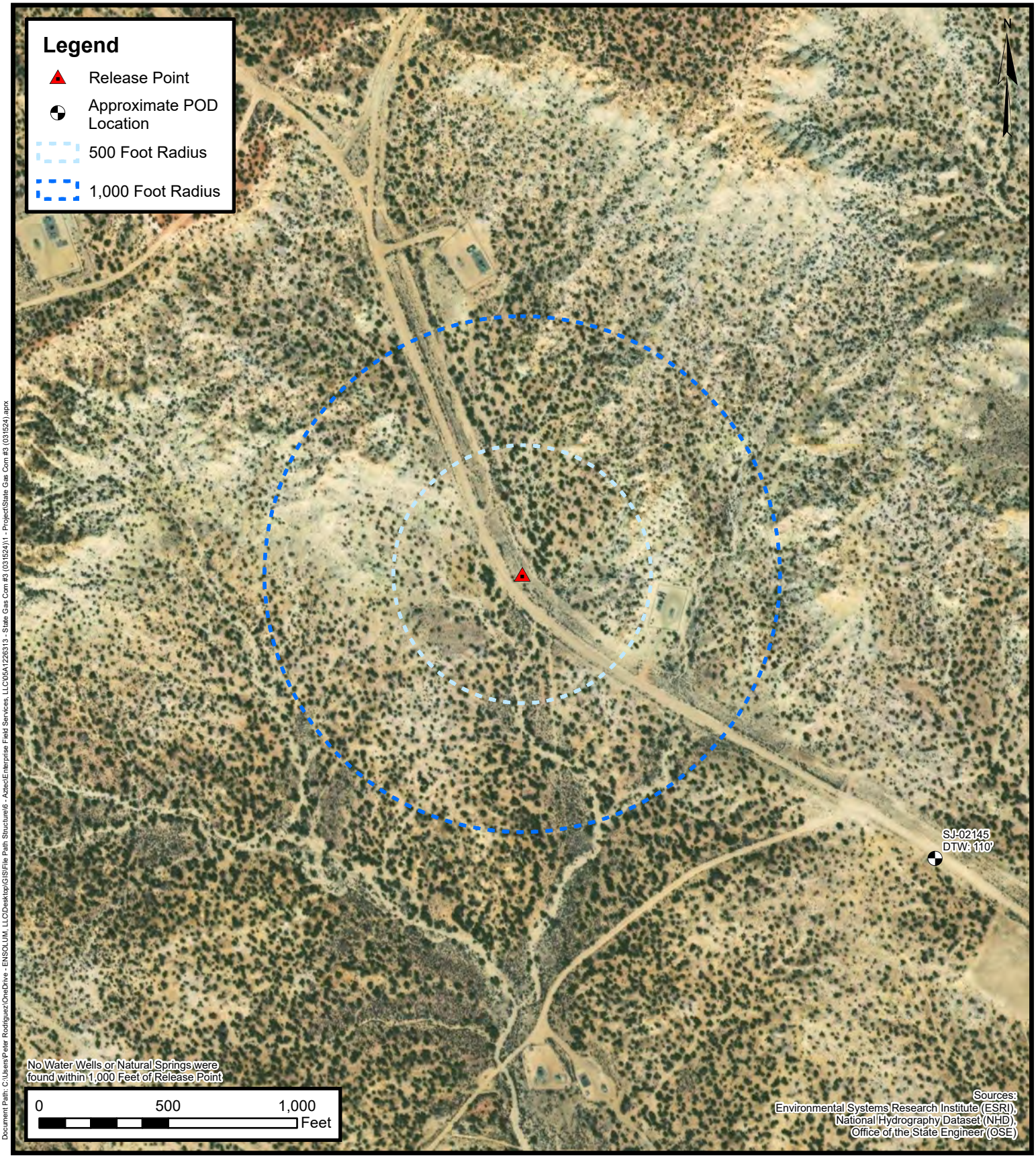
300 Foot Radius Occupied Structure Identification

Enterprise Field Services, LLC
State Gas Com #3 (03/15/24)
Project Number: 05A1226313
Unit Letter P, S32 T31N R12W, San Juan County, New Mexico
36.850794, -108.117259

FIGURE

D



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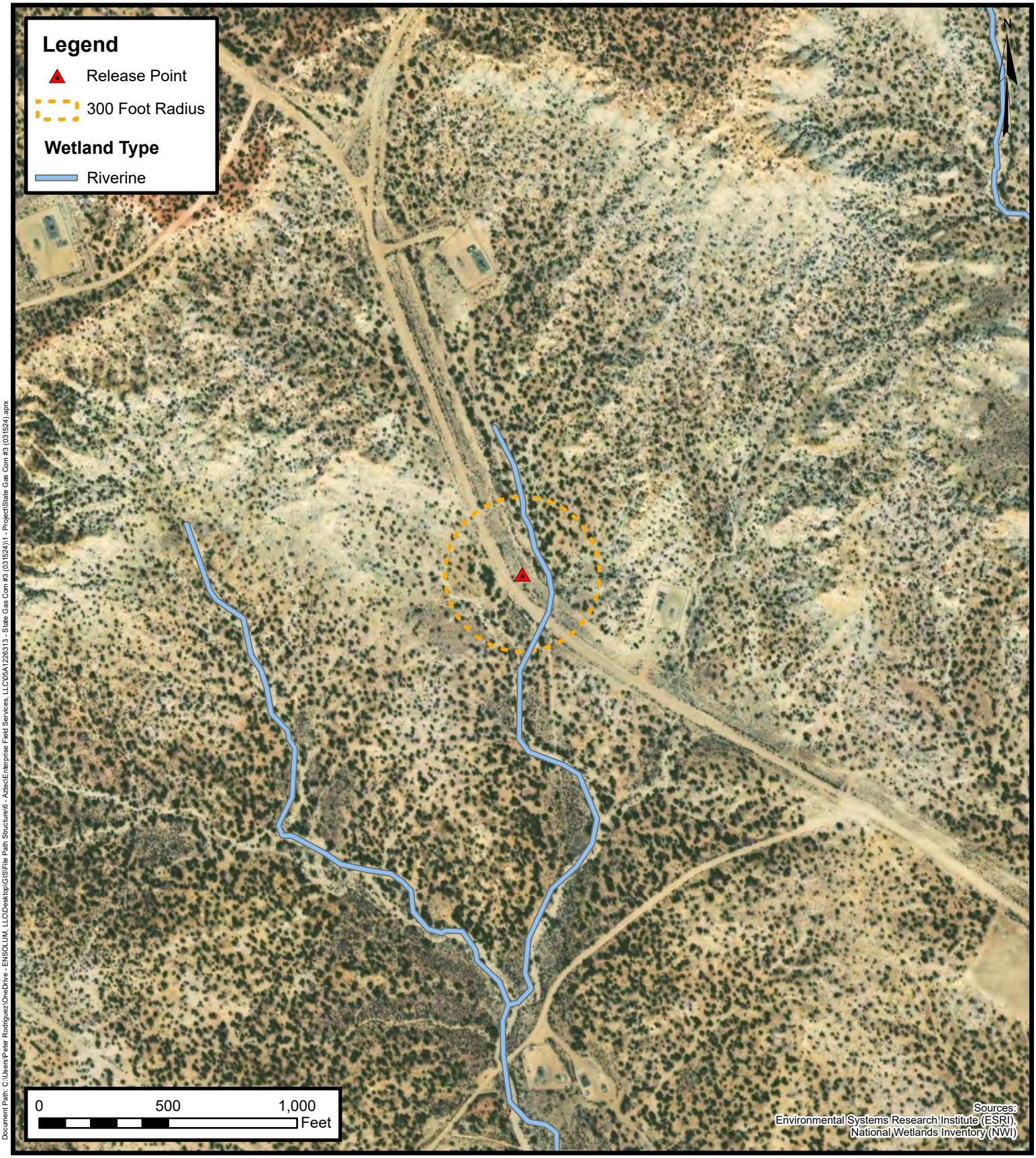
Water Well and Natural Spring Location

Enterprise Field Services, LLC
State Gas Com #3 (03/15/24)
Project Number: 05A1226313

Unit Letter P, S32 T31N R12W, San Juan County, New Mexico
36.850794, -108.117259

FIGURE

E



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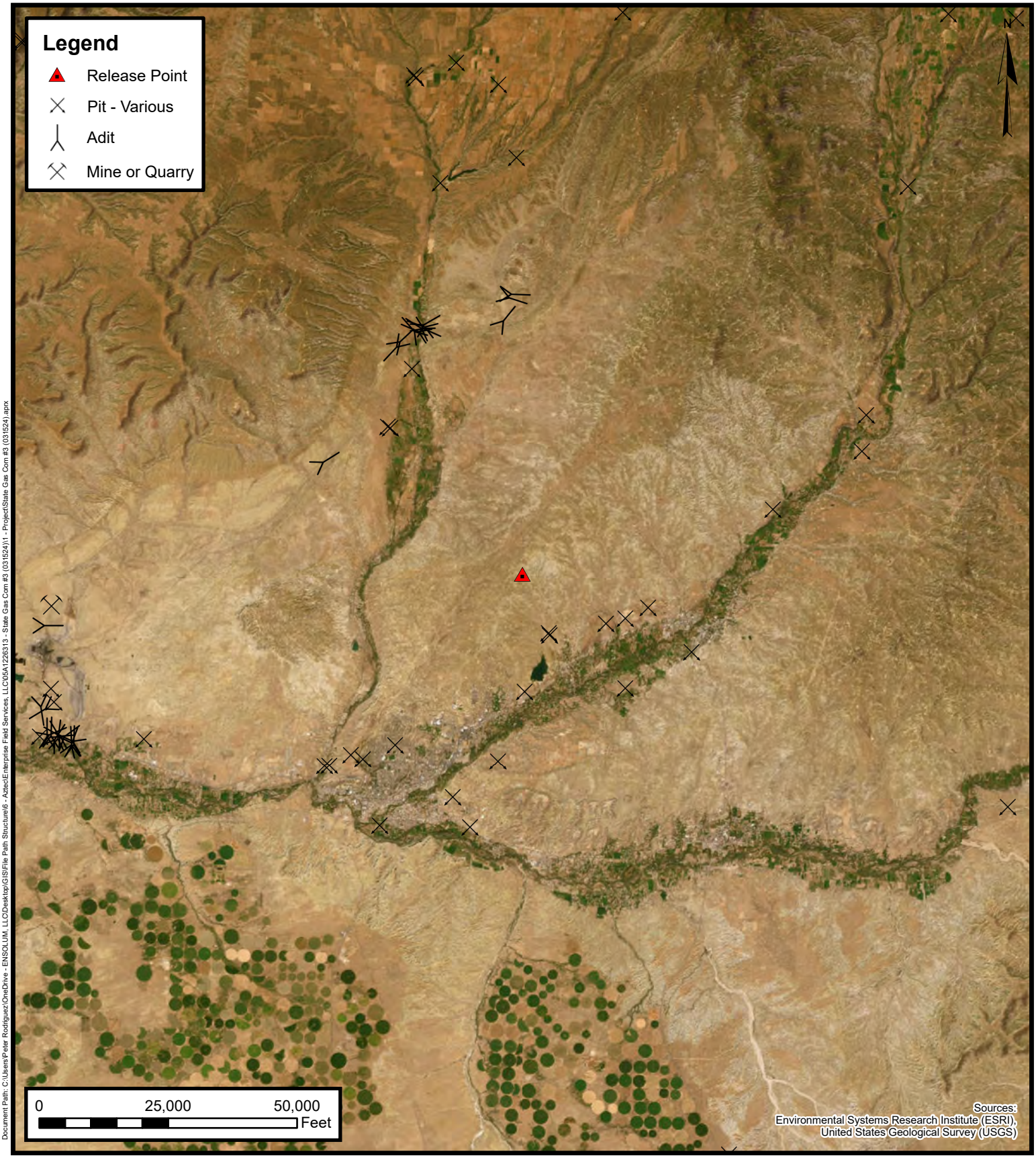
Wetlands

Enterprise Field Services, LLC
State Gas Com #3 (03/15/24)
Project Number: 05A1226313
Unit Letter P, S32 T31N R12W, San Juan County, New Mexico
36.850794, -108.117259

FIGURE
F



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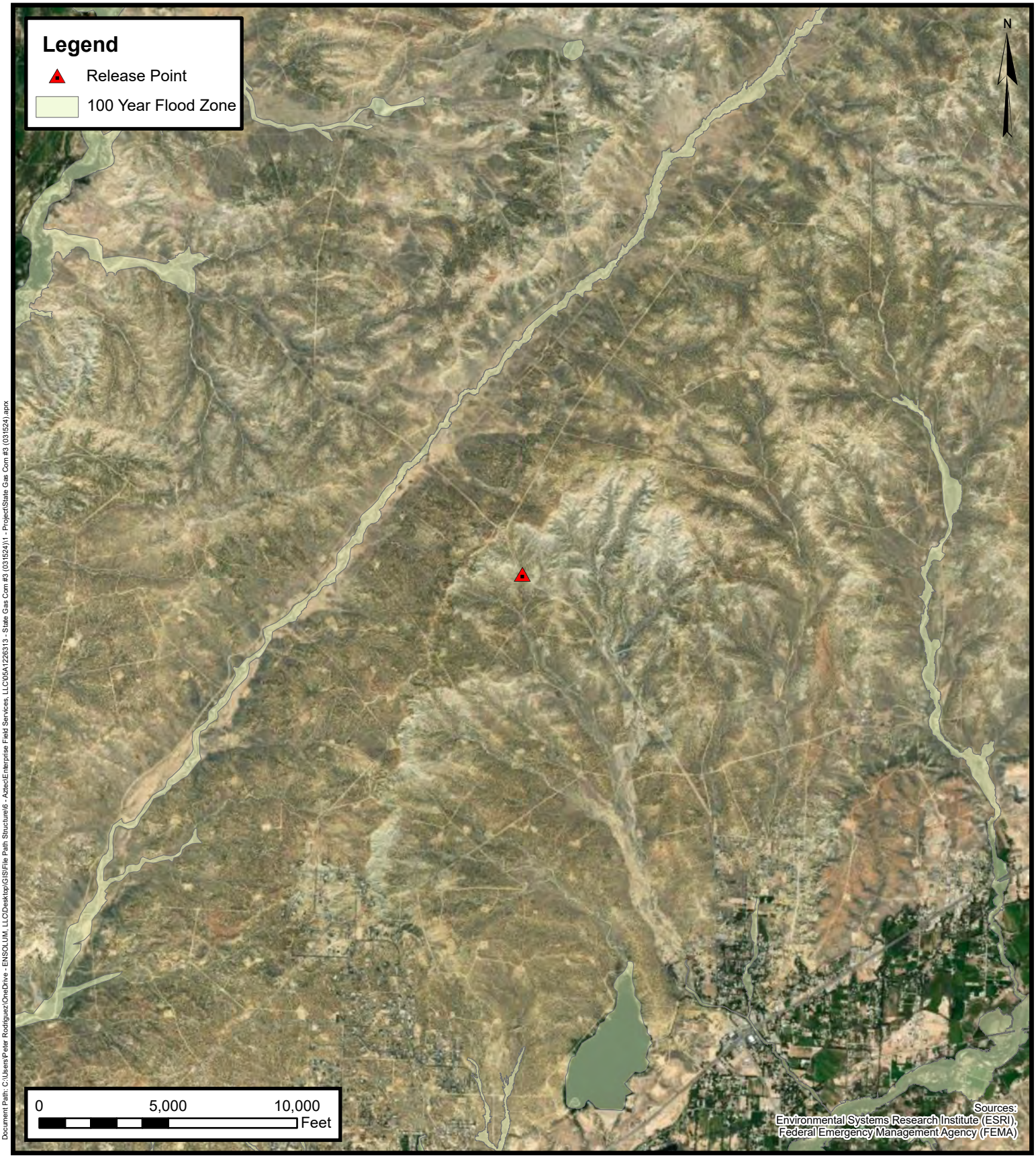
Mines, Mills, and Quarries

Enterprise Field Services, LLC
State Gas Com #3 (03/15/24)
Project Number: 05A1226313
Unit Letter P, S32 T31N R12W, San Juan County, New Mexico
36.850794, -108.117259

FIGURE
G



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ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

100-Year Flood Plain Map

Enterprise Field Services, LLC
State Gas Com #3 (03/15/24)
Project Number: 05A1226313
Unit Letter P, S32 T31N R12W, San Juan County, New Mexico
36.850794, -108.117259

FIGURE

H

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 03204	SJ	SJ	1	3	4	31	31N	12W	220133	4083029*	40	20	20
SJ 03866	SJ	SJ	1	2	3	29	31N	12W	221482	4084952	100		
SJ 04197 POD1	SJ	SJ		2	2	31	31N	12W	220763	4084003	195	140	55

Average Depth to Water: **80 feet**

Minimum Depth: **20 feet**

Maximum Depth: **140 feet**

Record Count: 3

PLSS Search:

Section(s): 32, 28, 29, 30, 31, 33 **Township:** 31N **Range:** 12W

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

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 01692	SJ	SJ		3	4	04	30N	12W	223459	4081230*	156	65	91
SJ 01792	SJ	SJ		3	4	04	30N	12W	223459	4081230*	155	109	46
SJ 01798	SJ	SJ		3	4	04	30N	12W	223459	4081230*	158	70	88
SJ 01898	SJ	SJ		3	4	04	30N	12W	223459	4081230*	140	88	52
SJ 02145	SJ	SJ	1	1	1	04	30N	12W	222547	4082522*	160	110	50
SJ 02341	SJ	SJ		3	4	04	30N	12W	223459	4081230*	85	39	46
SJ 03058	SJ	SJ	3	3	4	04	30N	12W	223358	4081129*	120	48	72
SJ 03447	SJ	SJ	4	4	4	04	30N	12W	223937	4081095*	120	80	40
SJ 04000 POD1	SJ	SJ	3	4	4	04	30N	12W	223787	4080985	280	143	137

Average Depth to Water: **83 feet**
Minimum Depth: **39 feet**
Maximum Depth: **143 feet**

Record Count: 9

PLSS Search:

Section(s): 4, 5, 6 **Township:** 30N **Range:** 12W

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

1503

30-045-24452

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit C Sec. 29 Twp 31 Rng 12

Name of Well/Wells or Pipeline Serviced TALIAFERRO #4E

cps 6297w

Elevation N/A Completion Date 12/22/86 Total Depth 380' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 80' & 190'

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 360', 350', 340', 330', 320', 310', 300', 290', 280', 270'

Depths vent pipes placed: 380'

Vent pipe perforations: 180'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

BURGE CORROSION SYSTEMS, INC.

P.O. BOX 1359 - PHONE 334-6141
AZTEC, NEW MEXICO 87410

Drilling Log (Attach Hereto). ☒ (297w)

Completion Date December 22, 1986

Well Name	Location	
Taliaferro # 4-E	Unocal Texas Petroleum	C 29-31-12
Type & Size Bit Used		Work Order No.

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
380'				

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	360	350	340	330	320	310	300	290	280	270
Anode Output (Amps)	4.4	3.8	4.0	3.3	3.5	3.8	3.3	3.0	3.0	3.8

	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20
Anode Depth										
Anode Output (Amps)										

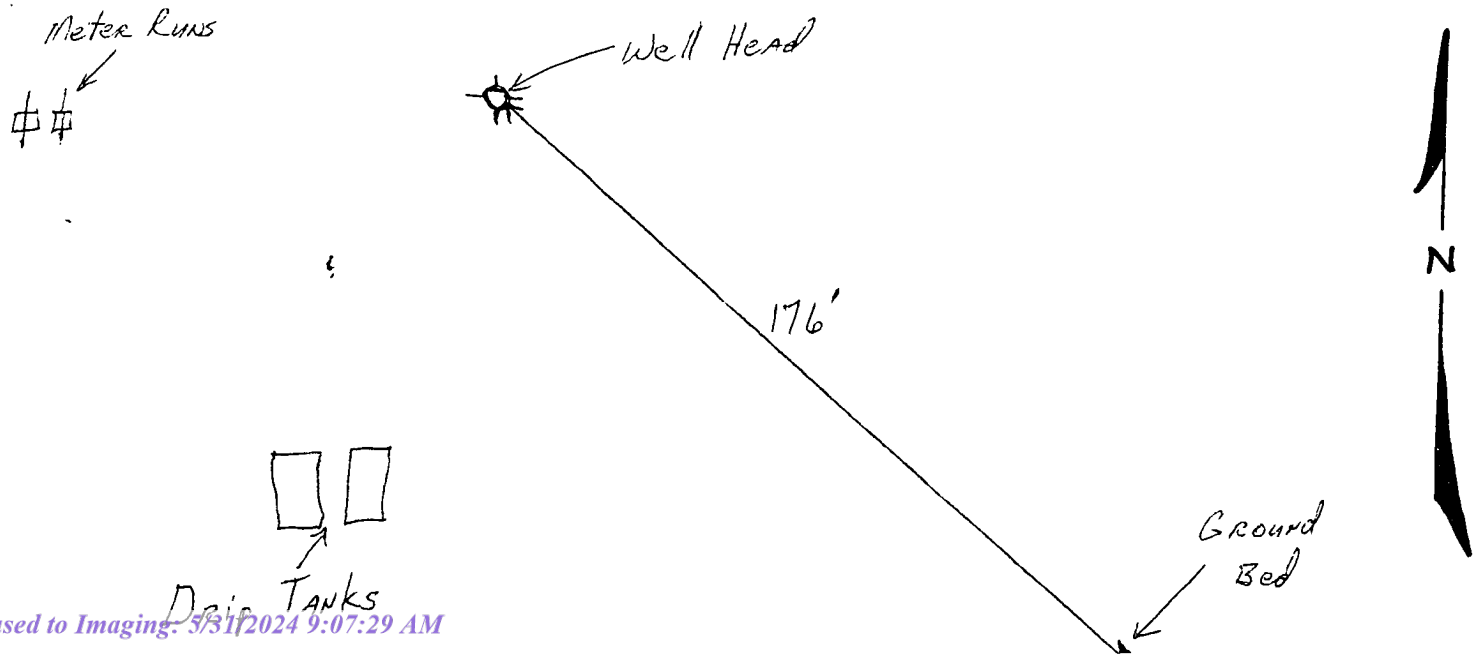
Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 41.6	Amps 20.7	Ohms 2.15	3430'	

Remarks: Water standing at 200' when hole was logged. Used 350' of 1" vent pipe w/ 150' of perforations.

All Construction Completed

Cody Mumbrea
(Signature)

GROUND BED LAYOUT SKETCH



CORROSION CONTROL CO. — 301 Ash — Aztec, New Mexico

COMPANY Union Texas Petroleum DAILY DRILLING REPORT December 22 1986

WELL NAME:	WELL NUMBER:	SECTION:	TOWNSHIP:	RANGE:
Taliaferro	4-E	29	31	12

WATER AT	FEET	HOLE MADE:
80' & 190'		380'

DESCRIPTION OF FORMATION

FROM	TO	FORMATION IS	COLOR
0'	80'	Sand w/clay stringers	Brown
80'	190'	Clay & sand	Brown
190'	240'	Sand & Bentonite	Gray
240'	380'	Shale w/some sand.	Gray.

REMARKS: Water Volume was approx 6 gallons per minute.

Driller Cody Mendoza Tool Dresser

1502

30-045-24763

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit L Sec. 29 Twp 31 Rng 12

Name of Well/Wells or Pipeline Serviced TALIAFERRO #7

cps 6298w

Elevation N/A Completion Date 12/16/86 Total Depth 320' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 100' & 170'

Depths gas encountered: N/A

Type & amount of coke breeze used: 1500 lbs.

Depths anodes placed: 300', 290', 280', 270', 260', 250', 240', 230', 220', 200'

Depths vent pipes placed: 320'

Vent pipe perforations: 150'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

BURGE CORROSION SYSTEMS, INC.

P.O. BOX 1359 - PHONE 334-6141
AZTEC, NEW MEXICO 87410

Drilling Log (Attach Hereto). ☒ Le 298W Completion Date December 16, 1986

Well Name	Location	
Taliaferro #7	Union Texas Petroleum	L 29-31N-12W
Type & Size Bit Used: 6&3/4"		Work Order No.

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
320'	7 Hrs.	1500#		

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	300	290	280	270	260	250	240	230	220	200
Anode Output (Amps)	5.2	3.7	3.6	3.5	4.5	3.7	3.6	4.4	3.9	3.6
Anode Depth	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20
Anode Output (Amps)	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20

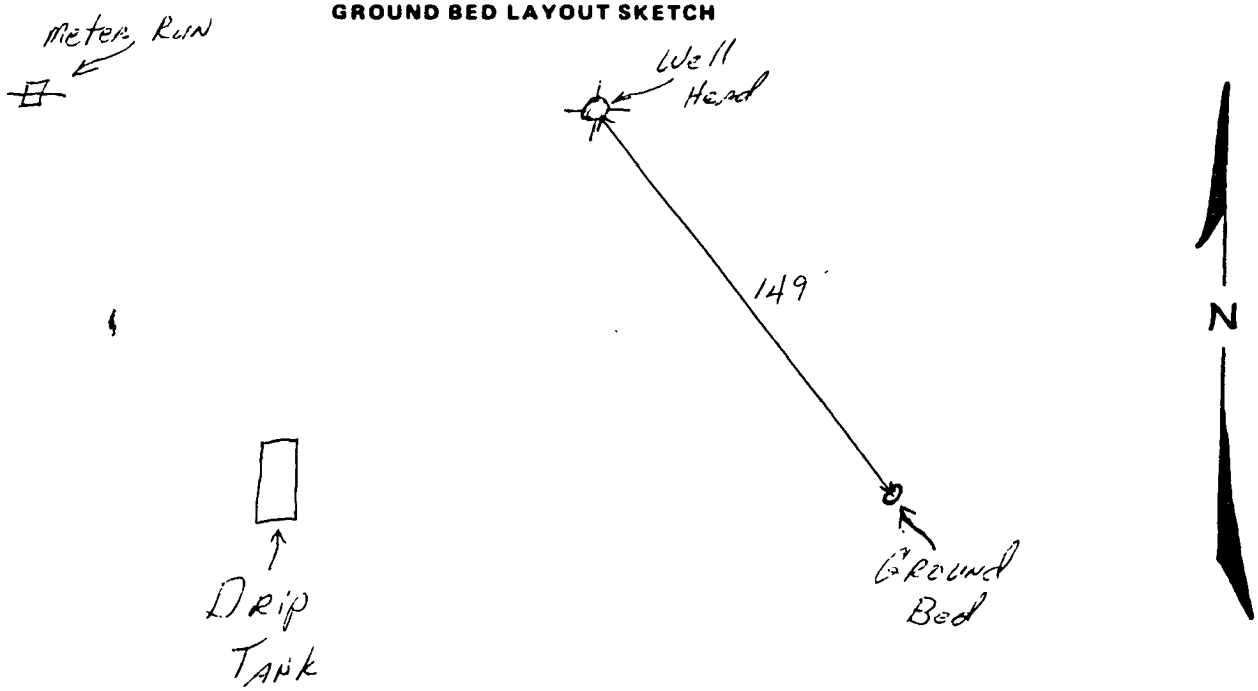
Total Circuit Resistance				No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.4	Amps 21.2	Ohms 0.52		2700'	

Remarks: Water was standing at 165' when the hole was logged. Used 320' of 1" vent pipe with 150' of perforations.

All Construction Completed

Cody Mendoza (Signature)

GROUND BED LAYOUT SKETCH



CORROSION CONTROL CO. — 301 Ash — Aztec, New Mexico

COMPANY Union Texas Petroleum DAILY DRILLING REPORT December 16 19 86

WELL NAME:	WELL NUMBER:	SECTION:	TOWNSHIP:	RANGE:
Taliaferro	7	29	31	12

WATER AT	FEET	HOLE MADE:
100' and 170'		320'

DESCRIPTION OF FORMATION

FROM	TO	FORMATION IS	COLOR
0	40	Sand	Brown
40	90	Clay	Brown
90	130	Sand	Lt. Gray
130	160	Sand stone	Lt. Brown
160	180	Coarse water sand	Gray
180	300	Sandy shale	Gray
300	320	Sand	Lt. Brown

REMARKS: Hole was making approx. 35 gallons of water per minute.

Driller Cody Mendoza Tool Dresser

1504

30-045-25078

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit O Sec. 31 Twp 31 Rng 12

Name of Well/Wells or Pipeline Serviced TALIAFERRO #3E

cps 6295w

Elevation N/A Completion Date 12/18/86 Total Depth 300' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 170'

Depths gas encountered: N/A

Type & amount of coke breeze used: 1400 lbs.

Depths anodes placed: 280', 270', 260', 250', 240', 230', 220', 210', 200', 190'

Depths vent pipes placed: 300'

Vent pipe perforations: 150'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

BURGE CORROSION SYSTEMS, INC.

P.O. BOX 1359 - PHONE 334-6141
AZTEC, NEW MEXICO 87410

Drilling Log (Attach Hereto). ☒ (295 W

Completion Date December 18, 1986

Well Name	Location	
Taliaferro #3-E	Union Texas Petroleum	O 31-31N-12W
Type & Size Bit Used: 6&3/4"		Work Order No.

Anode Hole Depth	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
300'	7 Hrs.	1400#		

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	280	270	260	250	240	230	220	210	200	190
Anode Output (Amps)	2.5	3.3	3.5	3.7	3.3	3.1	2.6	3.7	2.6	2.7
Anode Depth										
Anode Output (Amps)										

#11	#12	#13	#14	#15	#16	#17	#18	#19	#20

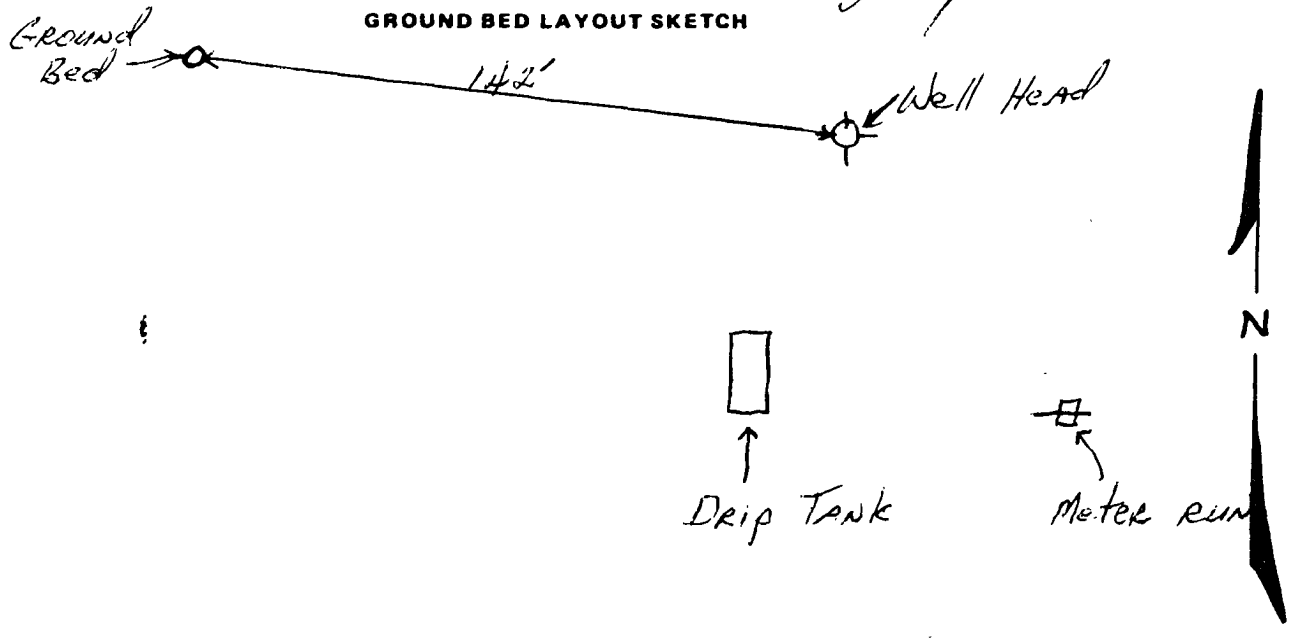
Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.6	Amps 15.2	Ohms 0.76	2700'	

Remarks: Water was standing at 170' when the hole was logged. Used 300' of 1" vent pipe with 150' of perforations.

All Construction Completed

Cody Mankins
(Signature)

GROUND BED LAYOUT SKETCH



COMPANY Union Texas Petroleum DAILY DRILLING REPORT December 18 1986

WELL NAME:	WELL NUMBER:	SECTION:	TOWNSHIP:	RANGE:
Taliaferro	3-E	31	31	12

WATER AT	FEET	HOLE MADE:
70' and 170'		300'

DESCRIPTION OF FORMATION

FROM	TO	FORMATION IS	COLOR
0	60	Sand	Brown
60	80	Coarse sand	Gray
80	150	Sand and clay	Brown
150	180	Coarse water sand	Gray
180	290	Sandy shale	Grav
290	300	Gravel and sand	Brown

REMARKS: Hole was making approx. 40 gallons of water per minute.

Driller Cody Mathews Tool Dresser

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

Operator BURLINGTON RESOURCES Location: Unit K Sec. 33 Twp 31 Rng 12

Name of Well/Wells or Pipeline Serviced

THOMPSON 1R 30-045-29569

Elevation ____ Completion Date 7-2-98 Total Depth 380 Land Type SF

Casing Strings, Sizes, Types & Depths

20' 8" PVC

If Casing Strings are cemented, show amounts & types used

NONE

If Cement or Bentonite Plugs have been placed, show depths & amounts used

NONE

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 200 7 GAL PER MIN

Depths gas encountered: NONE

Ground bed depth with type & amount of coke breeze used:

380' SW LARUSCO

Depths anodes placed: 215-230-235-240-315-320-225-330

Depths vent pipes placed: 0-340

Vent pipe perforations: 210-240

Remarks:

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OIL CON. DIV.
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

TIERRA DYNAMIC COMPANY DEEP WELL GROUNDED LOG DATA SHEET

COMPANY NAME: LT ENERGY

WELL NAME THOMPSON LR

LEGAL LOCATION: 33 31 -12 COUNTY: SAN JUAN

DATE: 7-2-98 TYPE OF COKE: SW LARGE PD

DEPTH: 380 AMT. OF COKE BACKFILL: 2300#

BIT SIZE: 6¼ VENT PIPE: 0-340

DRILLER NAME: MERCER PERF. PIPE: 240-340

SIZE AND TYPE OF CASING: 20' 8" PVC ANODE AMT. & TYPE: 8

BOULDER DRILLING:

DEPTH FT.	LOG	ANODE	DEPTH FT.	LOG	ANODE	DEPTH FT.	LOG	ANODE
100	.8		265	.6		430		
105	.8		270	.8		435		
110	.6		275	.7		440		
115	.7		280	.7		445		
120	1.0		285	.9		450		
125	.9		290	.6		455		
130	1.1		295	.6		460		
135	1.0		300	.7		465		
140	.9		305	.8		470		
145	.7		310	.9		475		
150	.7		315	1.2		480		
155	1.1		320	1.8		485		
160	.6		325	1.6		490		
165	.8		330	1.5		495		
170	1.0		335	1.9		500		
175	1.2		340	.8		505		
180	1.2		345	.9		510		
185	.8		350	.8		515		
190	.8		355	.8		520		
195	1.0		360	1.7		525		
200	.9		365	1.0		530		
205	.8		370	.8		535		
210	.7		375			540		
215	1.1		380			545		
220	.8		385			550		
225	.9		390			555		
230	1.0		395			560		
235	1.1		400			565		
240	1.1		405			570		
245	.9		410			575		
250	.7		415			580		
255	.6		420			585		
260	1.0		425			590		
						595		

COMPLETION INFORMATION:

WATER DEPTHS: WATER 200

ISOLATION PLUGS:

ANODE#	DEPTH	OUTPUT NO COK	OUTPUT COKED
1	330	1.5	5.7
2	325	1.6	6.7
3	320	1.5	6.7
4	315	1.3	6.1
5	240	1.6	5.3
6	235	1.1	3.9 5.7
7	230	.9	5.1
8	215	.9	3.9
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

LOGING VOLTS: 12.3 VOLTAGE SOURCE: BAT.

TOTAL AMPS: 13.2 TOTAL G/B RESISTANCE: 0.93Ω

REMARKS:

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:RB21200
PM: Gary Turner
AFE: N72653

2. Originating Site:
State Com #3

3. Location of Material (Street Address, City, State or ULSTR):
UL P Section 32 T31N R12W; 36.850794, -108.117259

March 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) 98 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 11-6-2023, 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: OFT Yeshua

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: Envirs. Manager DATE: 3/18/24
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
State Gas Com #3 (03/15/24)
Ensolum Project No. 05A1226313

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 final excavation.	

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
State Gas Com #3 (03/15/24)
Ensolum Project No. 05A1226313

ENSOLUM

Photograph 4 Photograph Description: View of the site after initial restoration.	

ENSOLUM

APPENDIX E

Regulatory Correspondence

From: Kyle Summers
To: Ranee Deechilly
Subject: Fwd: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 323683
Date: Friday, March 15, 2024 7:07:03 PM

Fyi.

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Long, Thomas <tjlong@eprod.com>
Sent: Friday, March 15, 2024 11:33:22 AM
To: Kyle Summers <ksummers@ensolum.com>; Chad D'Aponti <Chad.DAponti@apexcos.com>
Subject: Fwd: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 323683

[**EXTERNAL EMAIL**]

FYI
Tom Long

Begin forwarded message:

From: OCDOnline@state.nm.us
Date: March 15, 2024 at 11:11:49 AM MDT
To: "Long, Thomas" <tjlong@eprod.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 323683

[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#) nAPP2407540038.

The sampling event is expected to take place:

When: 03/19/2024 @ 09:00
Where: P-32-31N-12W 0 FNL 0 FEL (36.850794,-108.117259)

Additional Information: Ensolum, LLC

Additional Instructions: 36.850794,-108.117259

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required.

Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

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

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

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

_____

ENSOLUM

APPENDIX F

Table 1 – Soil Analytical Summary

ENSOLUM

TABLE 1
State Gas Com #3 (03/15/24)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[1] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO)[1] (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I)				10	NE	NE	NE	50	NE	NE	NE	100	600
Excavation Composite Soil Samples													
S-1	3.19.24	C	11	<0.015	<0.030	<0.030	0.070	0.070	<3.0	<8.9	<45	ND	<60
S-2	3.19.24	C	11	<0.016	<0.032	<0.032	0.11	0.11	<3.2	<9.5	<47	ND	<61
S-3	3.19.24	C	0 to 11	<0.017	<0.034	<0.034	0.075	0.075	<3.4	<9.8	<49	ND	<60
S-4	3.19.24	C	0 to 11	<0.017	<0.034	<0.034	<0.067	ND	<3.4	<9.5	<48	ND	<60
S-5	3.19.24	C	0 to 11	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<9.3	<46	ND	<60
S-6	3.19.24	C	0 to 11	<0.017	<0.035	<0.035	0.082	0.082	<3.5	30	<45	30	<60
S-7	3.19.24	C	0 to 11	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<9.0	<45	ND	<60
S-8	3.19.24	C	0 to 11	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.3	<47	ND	<60

[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

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

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 4/3/2024 8:32:00 AM

JOB DESCRIPTION

State GC #3

JOB NUMBER

885-1432-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

my EOL

Eurofins Albuquerque

Job Notes

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

Authorization

Generated
4/3/2024 8:32:00 AM

Authorized for release by
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Client: Ensolum
Project/Site: State GC #3

Laboratory Job ID: 885-1432-1

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Definitions/Glossary

Client: Ensolum
Project/Site: State GC #3

Job ID: 885-1432-1

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: State GC #3

Job ID: 885-1432-1

Job ID: 885-1432-1 Eurofins Albuquerque

Job Narrative
885-1432-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 3/20/2024 7:55 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 1.1°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: State GC #3

Job ID: 885-1432-1

Client Sample ID: S-1
Date Collected: 03/19/24 09:00
Date Received: 03/20/24 07:55

Lab Sample ID: 885-1432-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.0		mg/Kg		03/20/24 08:33	03/20/24 10:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 244*	*03/20/24 08:33*	*03/20/24 10:25*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.015		mg/Kg		03/20/24 08:33	03/20/24 10:25	1
Ethylbenzene	ND		0.030		mg/Kg		03/20/24 08:33	03/20/24 10:25	1
Toluene	ND		0.030		mg/Kg		03/20/24 08:33	03/20/24 10:25	1
Xylenes, Total	**0.070**		0.061		mg/Kg		03/20/24 08:33	03/20/24 10:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*03/20/24 08:33*	*03/20/24 10:25*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		03/20/24 08:27	03/20/24 10:40	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		03/20/24 08:27	03/20/24 10:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*03/20/24 08:27*	*03/20/24 10:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/20/24 08:00	03/20/24 09:38	20

Client Sample Results

Client: Ensolum
Project/Site: State GC #3

Job ID: 885-1432-1

Client Sample ID: S-2
Date Collected: 03/19/24 09:05
Date Received: 03/20/24 07:55

Lab Sample ID: 885-1432-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.2		mg/Kg		03/20/24 08:33	03/20/24 10:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*15 - 244*	*03/20/24 08:33*	*03/20/24 10:47*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.016		mg/Kg		03/20/24 08:33	03/20/24 10:47	1
Ethylbenzene	ND		0.032		mg/Kg		03/20/24 08:33	03/20/24 10:47	1
Toluene	ND		0.032		mg/Kg		03/20/24 08:33	03/20/24 10:47	1
Xylenes, Total	**0.11**		0.064		mg/Kg		03/20/24 08:33	03/20/24 10:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*39 - 146*	*03/20/24 08:33*	*03/20/24 10:47*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		03/20/24 08:27	03/20/24 10:52	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		03/20/24 08:27	03/20/24 10:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*03/20/24 08:27*	*03/20/24 10:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61		mg/Kg		03/20/24 08:00	03/20/24 09:54	20

Client Sample Results

Client: Ensolum
Project/Site: State GC #3

Job ID: 885-1432-1

Client Sample ID: S-3
Date Collected: 03/19/24 09:10
Date Received: 03/20/24 07:55

Lab Sample ID: 885-1432-3
Matrix: Solid

Method: SW846 8015D - 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		03/20/24 08:33	03/20/24 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*15 - 244*	*03/20/24 08:33*	*03/20/24 11:09*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017		mg/Kg		03/20/24 08:33	03/20/24 11:09	1
Ethylbenzene	ND		0.034		mg/Kg		03/20/24 08:33	03/20/24 11:09	1
Toluene	ND		0.034		mg/Kg		03/20/24 08:33	03/20/24 11:09	1
Xylenes, Total	**0.075**		0.067		mg/Kg		03/20/24 08:33	03/20/24 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*39 - 146*	*03/20/24 08:33*	*03/20/24 11:09*	*1*

Method: SW846 8015D - 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		03/20/24 08:27	03/20/24 11:04	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		03/20/24 08:27	03/20/24 11:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*03/20/24 08:27*	*03/20/24 11:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/20/24 08:00	03/20/24 10:09	20

Client Sample Results

Client: Ensolum
Project/Site: State GC #3

Job ID: 885-1432-1

Client Sample ID: S-4
Date Collected: 03/19/24 09:15
Date Received: 03/20/24 07:55

Lab Sample ID: 885-1432-4
Matrix: Solid

Method: SW846 8015D - 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		03/20/24 08:33	03/20/24 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*15 - 244*	*03/20/24 08:33*	*03/20/24 11:31*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017		mg/Kg		03/20/24 08:33	03/20/24 11:31	1
Ethylbenzene	ND		0.034		mg/Kg		03/20/24 08:33	03/20/24 11:31	1
Toluene	ND		0.034		mg/Kg		03/20/24 08:33	03/20/24 11:31	1
Xylenes, Total	ND		0.067		mg/Kg		03/20/24 08:33	03/20/24 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*39 - 146*	*03/20/24 08:33*	*03/20/24 11:31*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		03/20/24 08:27	03/20/24 11:16	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		03/20/24 08:27	03/20/24 11:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*03/20/24 08:27*	*03/20/24 11:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/20/24 08:00	03/20/24 10:24	20

Client Sample Results

Client: Ensolum
Project/Site: State GC #3

Job ID: 885-1432-1

Client Sample ID: S-5
Date Collected: 03/19/24 09:20
Date Received: 03/20/24 07:55

Lab Sample ID: 885-1432-5
Matrix: Solid

Method: SW846 8015D - 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		03/20/24 08:33	03/20/24 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*15 - 244*	*03/20/24 08:33*	*03/20/24 11:53*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.018		mg/Kg		03/20/24 08:33	03/20/24 11:53	1
Ethylbenzene	ND		0.036		mg/Kg		03/20/24 08:33	03/20/24 11:53	1
Toluene	ND		0.036		mg/Kg		03/20/24 08:33	03/20/24 11:53	1
Xylenes, Total	ND		0.072		mg/Kg		03/20/24 08:33	03/20/24 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*39 - 146*	*03/20/24 08:33*	*03/20/24 11:53*	*1*

Method: SW846 8015D - 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		03/20/24 08:27	03/20/24 11:29	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		03/20/24 08:27	03/20/24 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*03/20/24 08:27*	*03/20/24 11:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/20/24 08:00	03/20/24 10:39	20

Client Sample Results

Client: Ensolum
Project/Site: State GC #3

Job ID: 885-1432-1

Client Sample ID: S-6
Date Collected: 03/19/24 09:25
Date Received: 03/20/24 07:55

Lab Sample ID: 885-1432-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.5		mg/Kg		03/20/24 08:33	03/20/24 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*15 - 244*	*03/20/24 08:33*	*03/20/24 12:15*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017		mg/Kg		03/20/24 08:33	03/20/24 12:15	1
Ethylbenzene	ND		0.035		mg/Kg		03/20/24 08:33	03/20/24 12:15	1
Toluene	ND		0.035		mg/Kg		03/20/24 08:33	03/20/24 12:15	1
Xylenes, Total	**0.082**		0.070		mg/Kg		03/20/24 08:33	03/20/24 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*39 - 146*	*03/20/24 08:33*	*03/20/24 12:15*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**30**		9.1		mg/Kg		03/20/24 08:27	03/20/24 11:41	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		03/20/24 08:27	03/20/24 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*110*		*62 - 134*	*03/20/24 08:27*	*03/20/24 11:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/20/24 08:00	03/20/24 11:25	20

Client Sample Results

Client: Ensolum
Project/Site: State GC #3

Job ID: 885-1432-1

Client Sample ID: S-7
Date Collected: 03/19/24 09:30
Date Received: 03/20/24 07:55

Lab Sample ID: 885-1432-7
Matrix: Solid

Method: SW846 8015D - 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		03/20/24 08:33	03/20/24 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 244*	*03/20/24 08:33*	*03/20/24 12:36*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.018		mg/Kg		03/20/24 08:33	03/20/24 12:36	1
Ethylbenzene	ND		0.036		mg/Kg		03/20/24 08:33	03/20/24 12:36	1
Toluene	ND		0.036		mg/Kg		03/20/24 08:33	03/20/24 12:36	1
Xylenes, Total	ND		0.072		mg/Kg		03/20/24 08:33	03/20/24 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*39 - 146*	*03/20/24 08:33*	*03/20/24 12:36*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		03/20/24 08:27	03/20/24 11:53	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		03/20/24 08:27	03/20/24 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*03/20/24 08:27*	*03/20/24 11:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/20/24 08:00	03/20/24 11:40	20

Client Sample Results

Client: Ensolum
Project/Site: State GC #3

Job ID: 885-1432-1

Client Sample ID: S-8
Date Collected: 03/19/24 09:35
Date Received: 03/20/24 07:55

Lab Sample ID: 885-1432-8
Matrix: Solid

Method: SW846 8015D - 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		03/20/24 08:33	03/20/24 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 244*	*03/20/24 08:33*	*03/20/24 12:58*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019		mg/Kg		03/20/24 08:33	03/20/24 12:58	1
Ethylbenzene	ND		0.038		mg/Kg		03/20/24 08:33	03/20/24 12:58	1
Toluene	ND		0.038		mg/Kg		03/20/24 08:33	03/20/24 12:58	1
Xylenes, Total	ND		0.076		mg/Kg		03/20/24 08:33	03/20/24 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*39 - 146*	*03/20/24 08:33*	*03/20/24 12:58*	*1*

Method: SW846 8015D - 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		03/20/24 08:27	03/20/24 12:05	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		03/20/24 08:27	03/20/24 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*03/20/24 08:27*	*03/20/24 12:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/20/24 08:00	03/20/24 11:55	20

QC Sample Results

Client: Ensolum
Project/Site: State GC #3

Job ID: 885-1432-1

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

Lab Sample ID: MB 885-1984/1-A
Matrix: Solid
Analysis Batch: 2025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1984

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		03/20/24 08:33	03/20/24 10:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 244*	*03/20/24 08:33*	*03/20/24 10:03*	*1*

Lab Sample ID: LCS 885-1984/2-A
Matrix: Solid
Analysis Batch: 2025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1984

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	25.8		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*230*		*15 - 244*

Lab Sample ID: 885-1432-1 MS
Matrix: Solid
Analysis Batch: 2025

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 1984

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		15.1	16.3		mg/Kg		108	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*219*		*15 - 244*

Lab Sample ID: 885-1432-1 MSD
Matrix: Solid
Analysis Batch: 2025

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 1984

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		15.1	15.5		mg/Kg		102	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*219*		*15 - 244*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-1984/1-A
Matrix: Solid
Analysis Batch: 2046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1984

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/20/24 08:33	03/20/24 10:03	1
Ethylbenzene	ND		0.050		mg/Kg		03/20/24 08:33	03/20/24 10:03	1
Toluene	ND		0.050		mg/Kg		03/20/24 08:33	03/20/24 10:03	1

QC Sample Results

Client: Ensolum
Project/Site: State GC #3

Job ID: 885-1432-1

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

Lab Sample ID: MB 885-1984/1-A
Matrix: Solid
Analysis Batch: 2046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1984

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		03/20/24 08:33	03/20/24 10:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*39 - 146*	*03/20/24 08:33*	*03/20/24 10:03*	*1*

Lab Sample ID: LCS 885-1984/3-A
Matrix: Solid
Analysis Batch: 2046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1984

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.971		mg/Kg		97	70 - 130		
Ethylbenzene			1.00	0.990		mg/Kg		99	70 - 130		
Toluene			1.00	0.973		mg/Kg		97	70 - 130		
Xylenes, Total			3.00	3.00		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*39 - 146*

Lab Sample ID: 885-1432-2 MS
Matrix: Solid
Analysis Batch: 2046

Client Sample ID: S-2
Prep Type: Total/NA
Prep Batch: 1984

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.640	0.517		mg/Kg		81	70 - 130		
Ethylbenzene	ND		0.640	0.557		mg/Kg		86	70 - 130		
Toluene	ND		0.640	0.562		mg/Kg		84	70 - 130		
Xylenes, Total	0.11		1.92	1.75		mg/Kg		86	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*39 - 146*

Lab Sample ID: 885-1432-2 MSD
Matrix: Solid
Analysis Batch: 2046

Client Sample ID: S-2
Prep Type: Total/NA
Prep Batch: 1984

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.640	0.520		mg/Kg		81	70 - 130	1	20
Ethylbenzene	ND		0.640	0.556		mg/Kg		86	70 - 130	0	20
Toluene	ND		0.640	0.563		mg/Kg		84	70 - 130	0	20
Xylenes, Total	0.11		1.92	1.74		mg/Kg		85	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*39 - 146*

QC Sample Results

Client: Ensolum
Project/Site: State GC #3

Job ID: 885-1432-1

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

Lab Sample ID: MB 885-1983/1-A
Matrix: Solid
Analysis Batch: 2016

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1983

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		03/20/24 08:27	03/20/24 10:04	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		03/20/24 08:27	03/20/24 10:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*03/20/24 08:27*	*03/20/24 10:04*	*1*

Lab Sample ID: LCS 885-1983/2-A
Matrix: Solid
Analysis Batch: 2016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1983

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	47.7		mg/Kg		95	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*85*		*62 - 134*

Lab Sample ID: 885-1432-8 MS
Matrix: Solid
Analysis Batch: 2016

Client Sample ID: S-8
Prep Type: Total/NA
Prep Batch: 1983

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		47.7	44.8		mg/Kg		94	44 - 136		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*

Lab Sample ID: 885-1432-8 MSD
Matrix: Solid
Analysis Batch: 2016

Client Sample ID: S-8
Prep Type: Total/NA
Prep Batch: 1983

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		48.4	42.2		mg/Kg		87	44 - 136	6	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-1977/1-A
Matrix: Solid
Analysis Batch: 2031

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1977

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		03/20/24 08:00	03/20/24 08:12	1

QC Sample Results

Client: Ensolum
Project/Site: State GC #3

Job ID: 885-1432-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-1977/2-A
Matrix: Solid
Analysis Batch: 2031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1977

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.6		mg/Kg		95	90 - 110		

QC Association Summary

Client: Ensolum
Project/Site: State GC #3

Job ID: 885-1432-1

GC VOA

Prep Batch: 1984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1432-1	S-1	Total/NA	Solid	5035	
885-1432-2	S-2	Total/NA	Solid	5035	
885-1432-3	S-3	Total/NA	Solid	5035	
885-1432-4	S-4	Total/NA	Solid	5035	
885-1432-5	S-5	Total/NA	Solid	5035	
885-1432-6	S-6	Total/NA	Solid	5035	
885-1432-7	S-7	Total/NA	Solid	5035	
885-1432-8	S-8	Total/NA	Solid	5035	
MB 885-1984/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-1984/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-1984/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-1432-1 MS	S-1	Total/NA	Solid	5035	
885-1432-1 MSD	S-1	Total/NA	Solid	5035	
885-1432-2 MS	S-2	Total/NA	Solid	5035	
885-1432-2 MSD	S-2	Total/NA	Solid	5035	

Analysis Batch: 2025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1432-1	S-1	Total/NA	Solid	8015D	1984
885-1432-2	S-2	Total/NA	Solid	8015D	1984
885-1432-3	S-3	Total/NA	Solid	8015D	1984
885-1432-4	S-4	Total/NA	Solid	8015D	1984
885-1432-5	S-5	Total/NA	Solid	8015D	1984
885-1432-6	S-6	Total/NA	Solid	8015D	1984
885-1432-7	S-7	Total/NA	Solid	8015D	1984
885-1432-8	S-8	Total/NA	Solid	8015D	1984
MB 885-1984/1-A	Method Blank	Total/NA	Solid	8015D	1984
LCS 885-1984/2-A	Lab Control Sample	Total/NA	Solid	8015D	1984
885-1432-1 MS	S-1	Total/NA	Solid	8015D	1984
885-1432-1 MSD	S-1	Total/NA	Solid	8015D	1984

Analysis Batch: 2046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1432-1	S-1	Total/NA	Solid	8021B	1984
885-1432-2	S-2	Total/NA	Solid	8021B	1984
885-1432-3	S-3	Total/NA	Solid	8021B	1984
885-1432-4	S-4	Total/NA	Solid	8021B	1984
885-1432-5	S-5	Total/NA	Solid	8021B	1984
885-1432-6	S-6	Total/NA	Solid	8021B	1984
885-1432-7	S-7	Total/NA	Solid	8021B	1984
885-1432-8	S-8	Total/NA	Solid	8021B	1984
MB 885-1984/1-A	Method Blank	Total/NA	Solid	8021B	1984
LCS 885-1984/3-A	Lab Control Sample	Total/NA	Solid	8021B	1984
885-1432-2 MS	S-2	Total/NA	Solid	8021B	1984
885-1432-2 MSD	S-2	Total/NA	Solid	8021B	1984

GC Semi VOA

Prep Batch: 1983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1432-1	S-1	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ensolum
Project/Site: State GC #3

Job ID: 885-1432-1

GC Semi VOA (Continued)

Prep Batch: 1983 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1432-2	S-2	Total/NA	Solid	SHAKE	
885-1432-3	S-3	Total/NA	Solid	SHAKE	
885-1432-4	S-4	Total/NA	Solid	SHAKE	
885-1432-5	S-5	Total/NA	Solid	SHAKE	
885-1432-6	S-6	Total/NA	Solid	SHAKE	
885-1432-7	S-7	Total/NA	Solid	SHAKE	
885-1432-8	S-8	Total/NA	Solid	SHAKE	
MB 885-1983/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-1983/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-1432-8 MS	S-8	Total/NA	Solid	SHAKE	
885-1432-8 MSD	S-8	Total/NA	Solid	SHAKE	

Analysis Batch: 2016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1432-1	S-1	Total/NA	Solid	8015D	1983
885-1432-2	S-2	Total/NA	Solid	8015D	1983
885-1432-3	S-3	Total/NA	Solid	8015D	1983
885-1432-4	S-4	Total/NA	Solid	8015D	1983
885-1432-5	S-5	Total/NA	Solid	8015D	1983
885-1432-6	S-6	Total/NA	Solid	8015D	1983
885-1432-7	S-7	Total/NA	Solid	8015D	1983
885-1432-8	S-8	Total/NA	Solid	8015D	1983
MB 885-1983/1-A	Method Blank	Total/NA	Solid	8015D	1983
LCS 885-1983/2-A	Lab Control Sample	Total/NA	Solid	8015D	1983
885-1432-8 MS	S-8	Total/NA	Solid	8015D	1983
885-1432-8 MSD	S-8	Total/NA	Solid	8015D	1983

HPLC/IC

Prep Batch: 1977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1432-1	S-1	Total/NA	Solid	300_Prep	
885-1432-2	S-2	Total/NA	Solid	300_Prep	
885-1432-3	S-3	Total/NA	Solid	300_Prep	
885-1432-4	S-4	Total/NA	Solid	300_Prep	
885-1432-5	S-5	Total/NA	Solid	300_Prep	
885-1432-6	S-6	Total/NA	Solid	300_Prep	
885-1432-7	S-7	Total/NA	Solid	300_Prep	
885-1432-8	S-8	Total/NA	Solid	300_Prep	
MB 885-1977/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-1977/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 2031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1432-1	S-1	Total/NA	Solid	300.0	1977
885-1432-2	S-2	Total/NA	Solid	300.0	1977
885-1432-3	S-3	Total/NA	Solid	300.0	1977
885-1432-4	S-4	Total/NA	Solid	300.0	1977
885-1432-5	S-5	Total/NA	Solid	300.0	1977
885-1432-6	S-6	Total/NA	Solid	300.0	1977
885-1432-7	S-7	Total/NA	Solid	300.0	1977

QC Association Summary

Client: Ensolum
Project/Site: State GC #3

Job ID: 885-1432-1

HPLC/IC (Continued)

Analysis Batch: 2031 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1432-8	S-8	Total/NA	Solid	300.0	1977
MB 885-1977/1-A	Method Blank	Total/NA	Solid	300.0	1977
LCS 885-1977/2-A	Lab Control Sample	Total/NA	Solid	300.0	1977

Lab Chronicle

Client: Ensolum
Job ID: 885-1432-1
Project/Site: State GC #3

Client Sample ID: S-1
Lab Sample ID: 885-1432-1
Date Collected: 03/19/24 09:00
Matrix: Solid
Date Received: 03/20/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1984	JR	EET ALB	03/20/24 08:33
Total/NA	Analysis	8015D		1	2025	RA	EET ALB	03/20/24 10:25
Total/NA	Prep	5035			1984	JR	EET ALB	03/20/24 08:33
Total/NA	Analysis	8021B		1	2046	RA	EET ALB	03/20/24 10:25
Total/NA	Prep	SHAKE			1983	JU	EET ALB	03/20/24 08:27
Total/NA	Analysis	8015D		1	2016	JU	EET ALB	03/20/24 10:40
Total/NA	Prep	300_Prep			1977	JT	EET ALB	03/20/24 08:00
Total/NA	Analysis	300.0		20	2031	JT	EET ALB	03/20/24 09:38

Client Sample ID: S-2
Lab Sample ID: 885-1432-2
Date Collected: 03/19/24 09:05
Matrix: Solid
Date Received: 03/20/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1984	JR	EET ALB	03/20/24 08:33
Total/NA	Analysis	8015D		1	2025	RA	EET ALB	03/20/24 10:47
Total/NA	Prep	5035			1984	JR	EET ALB	03/20/24 08:33
Total/NA	Analysis	8021B		1	2046	RA	EET ALB	03/20/24 10:47
Total/NA	Prep	SHAKE			1983	JU	EET ALB	03/20/24 08:27
Total/NA	Analysis	8015D		1	2016	JU	EET ALB	03/20/24 10:52
Total/NA	Prep	300_Prep			1977	JT	EET ALB	03/20/24 08:00
Total/NA	Analysis	300.0		20	2031	JT	EET ALB	03/20/24 09:54

Client Sample ID: S-3
Lab Sample ID: 885-1432-3
Date Collected: 03/19/24 09:10
Matrix: Solid
Date Received: 03/20/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1984	JR	EET ALB	03/20/24 08:33
Total/NA	Analysis	8015D		1	2025	RA	EET ALB	03/20/24 11:09
Total/NA	Prep	5035			1984	JR	EET ALB	03/20/24 08:33
Total/NA	Analysis	8021B		1	2046	RA	EET ALB	03/20/24 11:09
Total/NA	Prep	SHAKE			1983	JU	EET ALB	03/20/24 08:27
Total/NA	Analysis	8015D		1	2016	JU	EET ALB	03/20/24 11:04
Total/NA	Prep	300_Prep			1977	JT	EET ALB	03/20/24 08:00
Total/NA	Analysis	300.0		20	2031	JT	EET ALB	03/20/24 10:09

Client Sample ID: S-4
Lab Sample ID: 885-1432-4
Date Collected: 03/19/24 09:15
Matrix: Solid
Date Received: 03/20/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1984	JR	EET ALB	03/20/24 08:33
Total/NA	Analysis	8015D		1	2025	RA	EET ALB	03/20/24 11:31

Lab Chronicle

Client: Ensolum
Job ID: 885-1432-1
Project/Site: State GC #3

Client Sample ID: S-4
Lab Sample ID: 885-1432-4
Date Collected: 03/19/24 09:15
Matrix: Solid
Date Received: 03/20/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1984	JR	EET ALB	03/20/24 08:33
Total/NA	Analysis	8021B		1	2046	RA	EET ALB	03/20/24 11:31
Total/NA	Prep	SHAKE			1983	JU	EET ALB	03/20/24 08:27
Total/NA	Analysis	8015D		1	2016	JU	EET ALB	03/20/24 11:16
Total/NA	Prep	300_Prep			1977	JT	EET ALB	03/20/24 08:00
Total/NA	Analysis	300.0		20	2031	JT	EET ALB	03/20/24 10:24

Client Sample ID: S-5
Lab Sample ID: 885-1432-5
Date Collected: 03/19/24 09:20
Matrix: Solid
Date Received: 03/20/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1984	JR	EET ALB	03/20/24 08:33
Total/NA	Analysis	8015D		1	2025	RA	EET ALB	03/20/24 11:53
Total/NA	Prep	5035			1984	JR	EET ALB	03/20/24 08:33
Total/NA	Analysis	8021B		1	2046	RA	EET ALB	03/20/24 11:53
Total/NA	Prep	SHAKE			1983	JU	EET ALB	03/20/24 08:27
Total/NA	Analysis	8015D		1	2016	JU	EET ALB	03/20/24 11:29
Total/NA	Prep	300_Prep			1977	JT	EET ALB	03/20/24 08:00
Total/NA	Analysis	300.0		20	2031	JT	EET ALB	03/20/24 10:39

Client Sample ID: S-6
Lab Sample ID: 885-1432-6
Date Collected: 03/19/24 09:25
Matrix: Solid
Date Received: 03/20/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1984	JR	EET ALB	03/20/24 08:33
Total/NA	Analysis	8015D		1	2025	RA	EET ALB	03/20/24 12:15
Total/NA	Prep	5035			1984	JR	EET ALB	03/20/24 08:33
Total/NA	Analysis	8021B		1	2046	RA	EET ALB	03/20/24 12:15
Total/NA	Prep	SHAKE			1983	JU	EET ALB	03/20/24 08:27
Total/NA	Analysis	8015D		1	2016	JU	EET ALB	03/20/24 11:41
Total/NA	Prep	300_Prep			1977	JT	EET ALB	03/20/24 08:00
Total/NA	Analysis	300.0		20	2031	JT	EET ALB	03/20/24 11:25

Client Sample ID: S-7
Lab Sample ID: 885-1432-7
Date Collected: 03/19/24 09:30
Matrix: Solid
Date Received: 03/20/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1984	JR	EET ALB	03/20/24 08:33
Total/NA	Analysis	8015D		1	2025	RA	EET ALB	03/20/24 12:36
Total/NA	Prep	5035			1984	JR	EET ALB	03/20/24 08:33
Total/NA	Analysis	8021B		1	2046	RA	EET ALB	03/20/24 12:36

Lab Chronicle

Client: Ensolum
Job ID: 885-1432-1
Project/Site: State GC #3

Client Sample ID: S-7
Lab Sample ID: 885-1432-7
Date Collected: 03/19/24 09:30
Matrix: Solid
Date Received: 03/20/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			1983	JU	EET ALB	03/20/24 08:27
Total/NA	Analysis	8015D		1	2016	JU	EET ALB	03/20/24 11:53
Total/NA	Prep	300_Prep			1977	JT	EET ALB	03/20/24 08:00
Total/NA	Analysis	300.0		20	2031	JT	EET ALB	03/20/24 11:40

Client Sample ID: S-8
Lab Sample ID: 885-1432-8
Date Collected: 03/19/24 09:35
Matrix: Solid
Date Received: 03/20/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			1984	JR	EET ALB	03/20/24 08:33
Total/NA	Analysis	8015D		1	2025	RA	EET ALB	03/20/24 12:58
Total/NA	Prep	5035			1984	JR	EET ALB	03/20/24 08:33
Total/NA	Analysis	8021B		1	2046	RA	EET ALB	03/20/24 12:58
Total/NA	Prep	SHAKE			1983	JU	EET ALB	03/20/24 08:27
Total/NA	Analysis	8015D		1	2016	JU	EET ALB	03/20/24 12:05
Total/NA	Prep	300_Prep			1977	JT	EET ALB	03/20/24 08:00
Total/NA	Analysis	300.0		20	2031	JT	EET ALB	03/20/24 11:55

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

Accreditation/Certification Summary

Client: Ensolum
Job ID: 885-1432-1
Project/Site: State GC #3

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: 1 day
☐ Standard ☒ Rush 3-20-24

Project Name: State GC #3

Project #:

Project Manager: K Summers

Sampler: C Whipont
On Ice: ☒ Yes ☐ No Yogi
# of Coolers: 1
Cooler Temp (including CF): 1.1 - 0 = 1.1 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
885-1432 COC
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)						
3/19	900	S	S-1	1 4oz Jar	Cool		✓	✓					✓									
3/19	905	S	S-2		Cool		✓	✓					✓									
3/19	910	S	S-3		Cool		✓	✓					✓									
3/19	915	S	S-4		Cool		✓	✓					✓									
3/19	920	S	S-5		Cool		✓	✓					✓									
3/19	925	S	S-6		Cool		✓	✓					✓									
3/19	930	S	S-7		Cool		✓	✓					✓									
3/19	935	S	S-8		Cool		✓	✓					✓									

Date	Time	Relinquished by	Received by	Via	Date	Time
3/19/24	1039	[signature]	CM Watson [signature]		3/19/24	1039
3/19/24	1717	Christen Walters [signature]		Courier	3/20/24	0755

Remarks: Tom Long
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.

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4/3/2024

Login Sample Receipt Checklist

Client: Ensolum Job Number: 885-1432-1

Login Number: 1432 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Cason, Cheyenne

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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QUESTIONS

Action 343438

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 343438
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2407540038**
Incident Name	**NAPP2407540038 STATE GAS COM #3 @ 0**
Incident Type	**Natural Gas Release**
Incident Status	**Remediation Closure Report Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	State Gas Com #3
Date Release Discovered	03/15/2024
Surface Owner	State

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

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

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 343438
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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

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

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 03/18/2024

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 343438
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 100 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	61
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	30
GRO+DRO (EPA SW-846 Method 8015M)	30
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	03/15/2024
On what date will (or did) the final sampling or liner inspection occur	03/19/2024
On what date will (or was) the remediation complete(d)	03/20/2024
What is the estimated surface area (in square feet) that will be reclaimed	252
What is the estimated volume (in cubic yards) that will be reclaimed	98
What is the estimated surface area (in square feet) that will be remediated	252
What is the estimated volume (in cubic yards) that will be remediated	98
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: 343438
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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: 05/13/2024
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: 343438
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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: 343438
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**323683**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**03/19/2024**
What was the (estimated) number of samples that were to be gathered	**6**
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	252
What was the total volume (cubic yards) remediated	98
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	252
What was the total volume (in cubic yards) reclaimed	98
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: 05/13/2024

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 343438
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 343438

CONDITIONS

Operator:	OGRID:
Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	241602
	Action Number: 343438
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	5/31/2024