ENSOLUM

CLOSURE REPORT

Property:

Lateral 2B-1 (05/03/24)
Unit Letter F, S21 T27N R11W
San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2412451499

July 15, 2024

Ensolum Project No. 05A1226316

Prepared for:

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

Prepared by:

Landon Daniell
Staff Geologist

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:	Lateral 2B-1 (05/03/24) (Site)
NM EMNRD OCD Incident ID No.	NAPP2412451499
Location:	36.56086° North, 108.00953° West Unit Letter F, Section 21, Township 27 North, Range 11 West San Juan County, New Mexico
Property:	Navajo Nation
Regulatory:	Navajo Nation Environmental Protection Agency (NNEPA) and New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On May 3, 2024, Enterprise personnel identified a release of natural gas and associated pipeline liquids from the Lateral 2B-1 pipeline. Enterprise subsequently isolated and locked the pipeline out of service. On May 3, 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 and the NNEPA were 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 NNEPA and 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 or adjacent PLSS sections. The closest POD (SJ-00077) is approximately 2.2 miles southeast of the site and approximately 124 feet higher in elevation than the Site. The recorded depth to water (DTW) for this POD is 550 feet below grade surface (bgs) (**Figure A**, **Appendix B**).

- Six cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in adjacent PLSS sections. These CPWs are depicted in **Figure B** (**Appendix B**). Documentation for the cathodic protection well located near the Angel Peak #3E production pad indicates a depth to water of 30 feet bgs. This cathodic protection well is located approximately 0.74 miles southwest of the Site and is approximately 81 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Scott E Federal 22 #22 and #32 production pads indicates a depth to water of approximately 95 feet bgs. This cathodic protection well is located approximately 1.23 miles east of the Site and is approximately 39 feet higher in elevation than the Site (CPW elevation was determined using GoogleEarth® due to a likely discrepancy in the OCD documentation). Documentation for the cathodic protection well located near the Angel Peak #2E production pad indicates a depth to water of 30 feet bgs. This cathodic protection well is located approximately 1.38 miles northwest of the Site and is approximately 131 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Whitley A #2 production pad indicates dampness at 110 feet bgs and depth to water of approximately 230 feet bgs. This cathodic protection well is located approximately 1.47 miles northwest of the Site and is approximately 149 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Whitley A #100 production pad indicates depth to water of approximately 85 feet bgs. This cathodic protection well is located approximately 1.58 miles northwest of the Site and is approximately 143 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Fullerton Federal 15 #41 production pad indicates depth to water of approximately 120 feet bgs. This cathodic protection well is located approximately 1.92 miles northeast of the Site and is approximately 20 feet lower in elevation than the Site.

- The Site is not located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C**, **Appendix B**).

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

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

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

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

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

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

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

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

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

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

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

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

3.0 SOIL REMEDIATION ACTIVITIES

On May 3, 2024, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, West States Energy Contractors provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The excavation measured approximately 18 feet long and 15 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 10 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of clay loam overlying unconsolidated silty sand.

Approximately 268 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 six composite soil samples (S-1 through S-6) 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. The excavator bucket was utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

Sampling Event

On May 6, 2024, sampling was performed at the Site. The NNEPA was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-1 (10') and S-5 (10') were collected from the floor of the excavation. Composite soil samples S-2 (0' to 10'), S-3 (0' to 10'), S-4 (0' to 10'), and S-6 (0' to 10') 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-6) to the applicable NM EMNRD OCD closure criteria. The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

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

- The laboratory analytical results for the composite soil samples indicate that total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg.

- The laboratory analytical results for the composite soil samples indicate that 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 that 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

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

- Approximately 268 yd^3 of petroleum hydrocarbon-affected soils were transported to the Envirotech landfarm for disposal/remediation.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Limitations

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

9.3 Reliance

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

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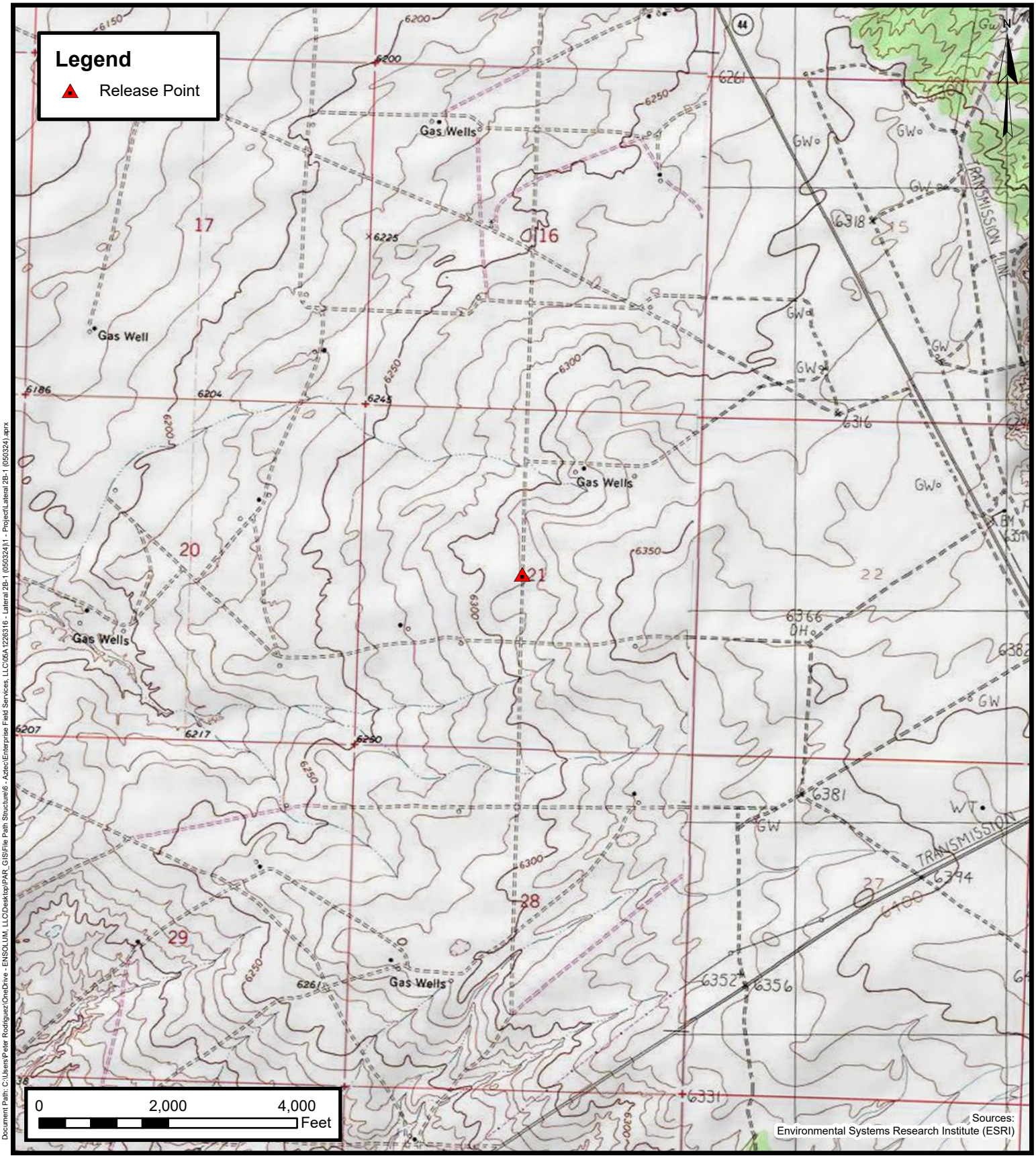
APPENDIX A

Figures



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ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Topographic Map

Enterprise Field Services, LLC
Lateral 2B-1 (05/03/24)
Project Number: 05A1226316
Unit Letter F, S21 T27N R11W, San Juan County, NM
36.56086, -108.00953

FIGURE
1

ENSOLUM
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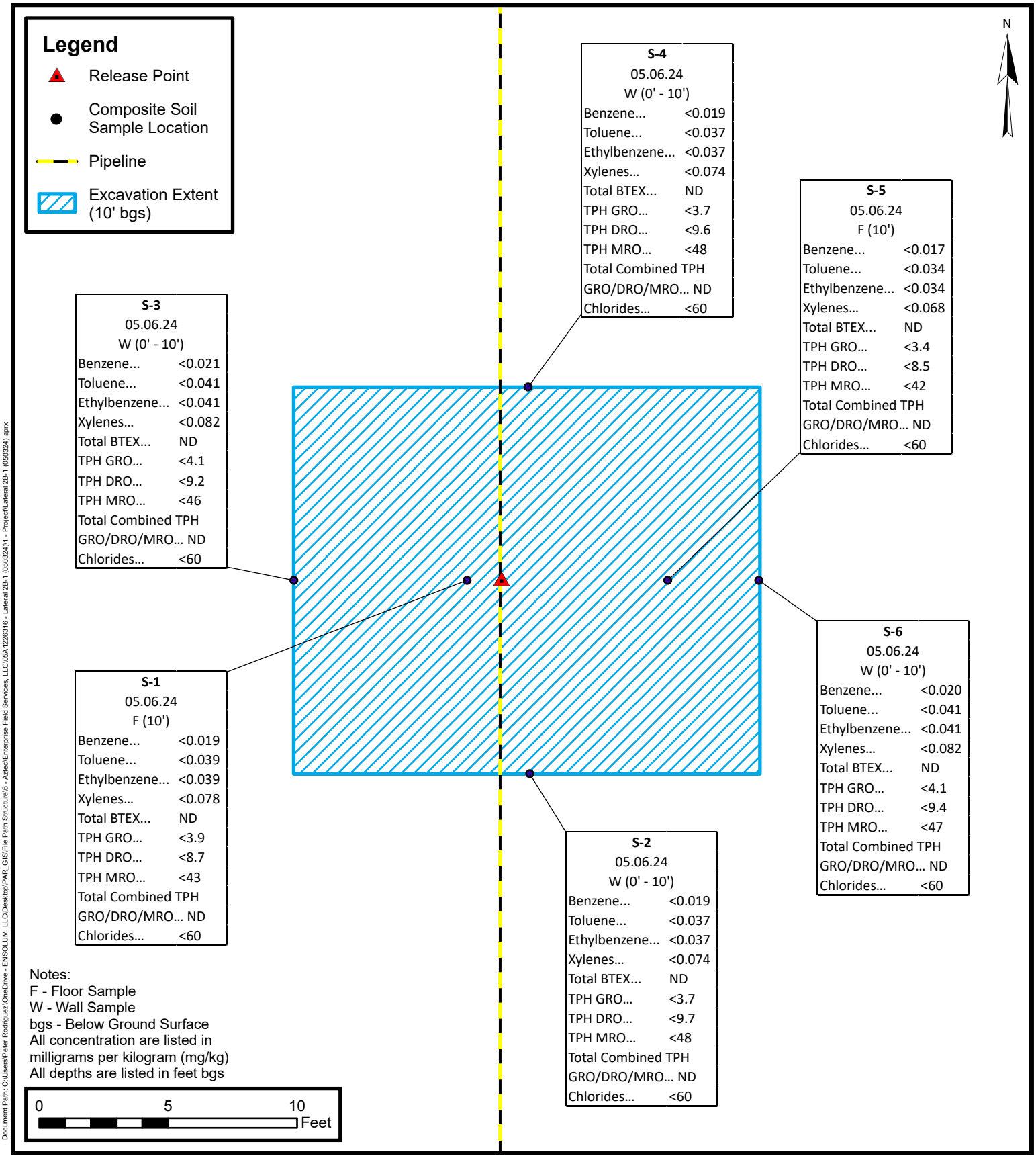
Site Vicinity Map

Enterprise Field Services, LLC
Lateral 2B-1 (05/03/24)
Project Number: 05A1226316
Unit Letter F, S21 T27N R11W, San Juan County, NM
36.56086, -108.00953

FIGURE
2



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Environmental, Engineering and Hydrogeologic Consultants

Site Map with Soil Analytical Results

Enterprise Field Services, LLC
Lateral 2B-1 (05/03/24)
Project Number: 05A1226316
Unit Letter F, S21 T27N R11W, San Juan County, NM
36.56086, -108.00953

FIGURE
3

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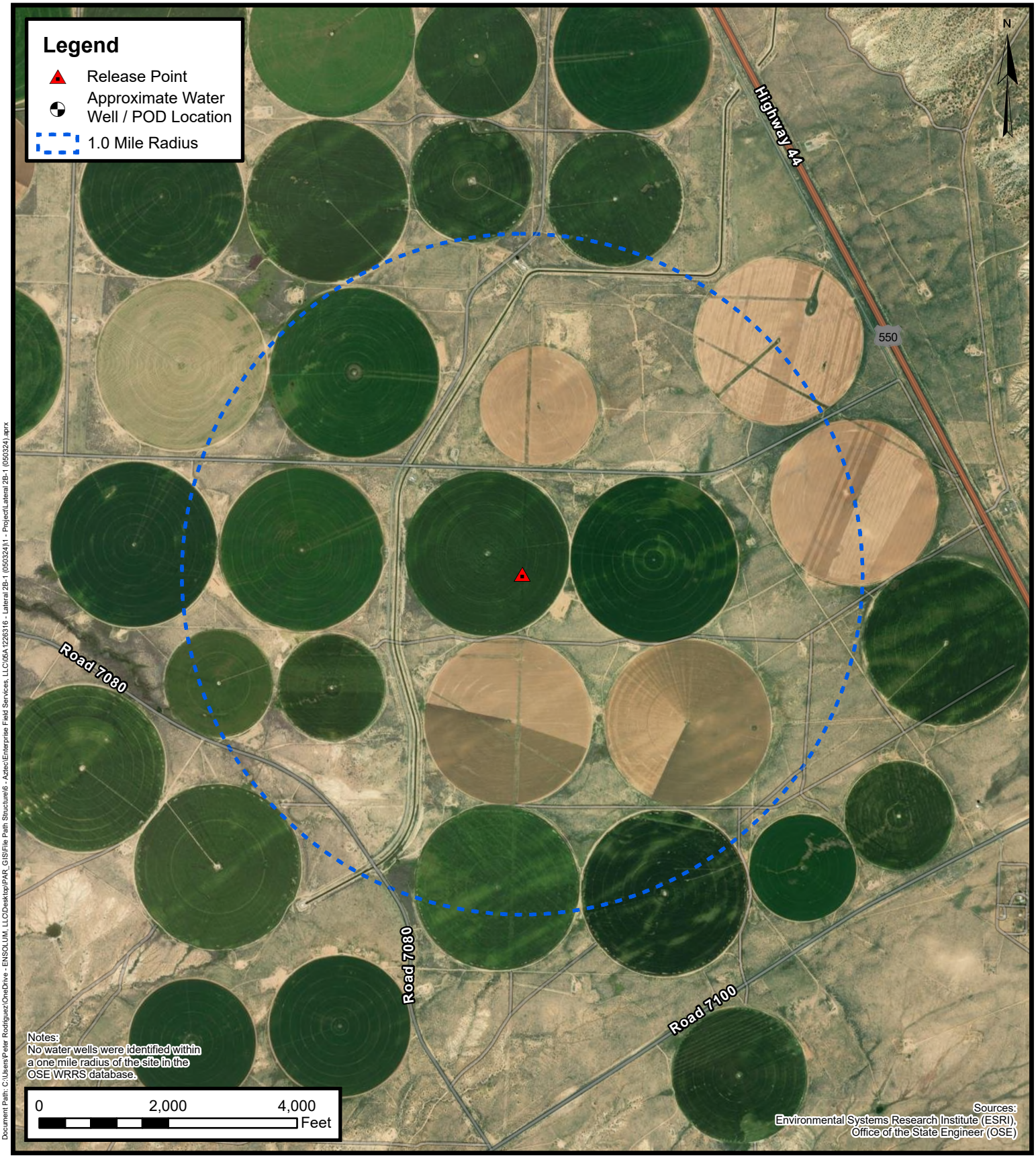
APPENDIX B

Siting Figures and Documentation



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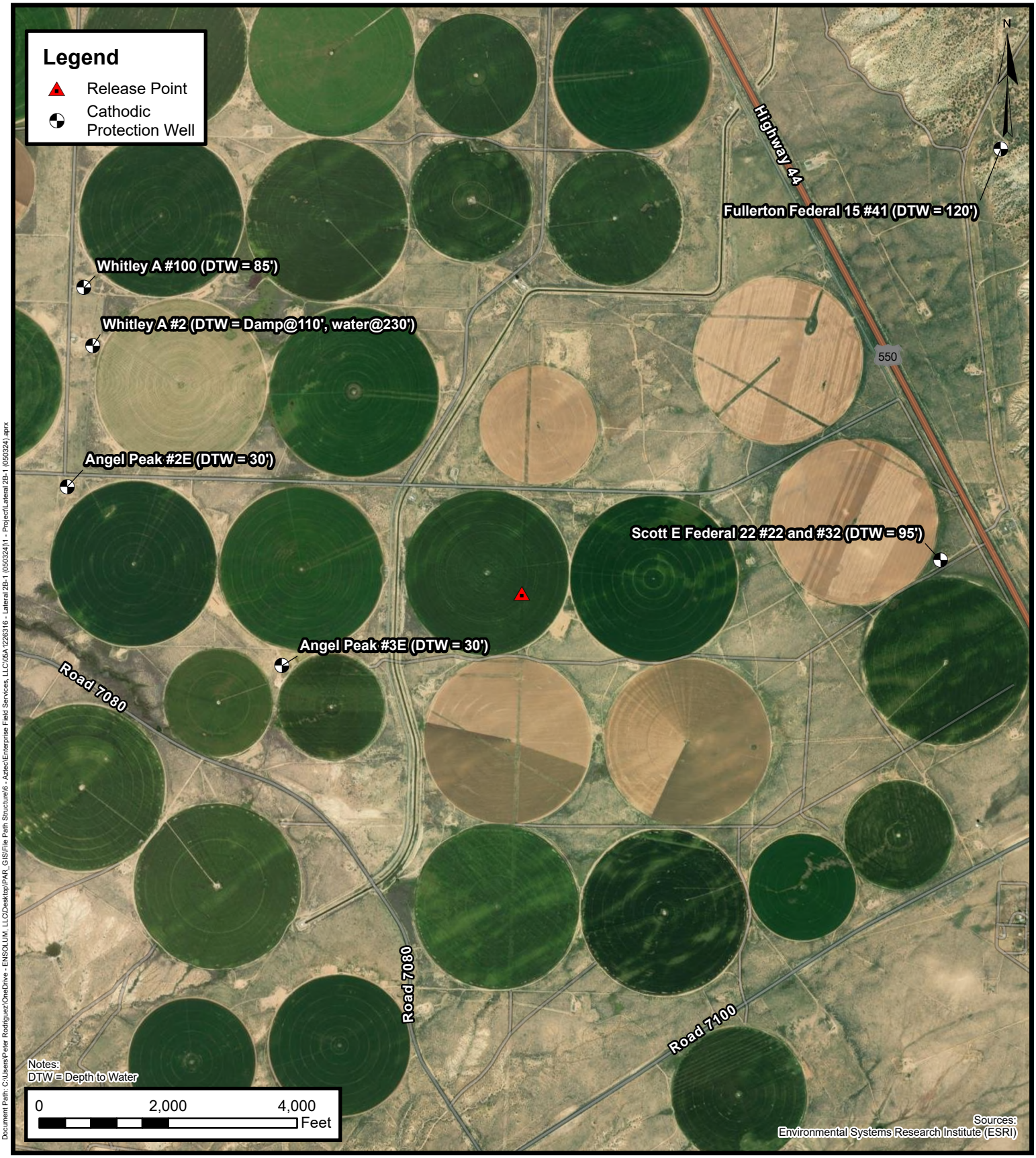
1.0 Mile Radius Water Well / POD Location Map

Enterprise Field Services, LLC
Lateral 2B-1 (05/03/24)
Project Number: 05A1226316
Unit Letter F, S21 T27N R11W, San Juan County, NM
36.56086, -108.00953

FIGURE

A



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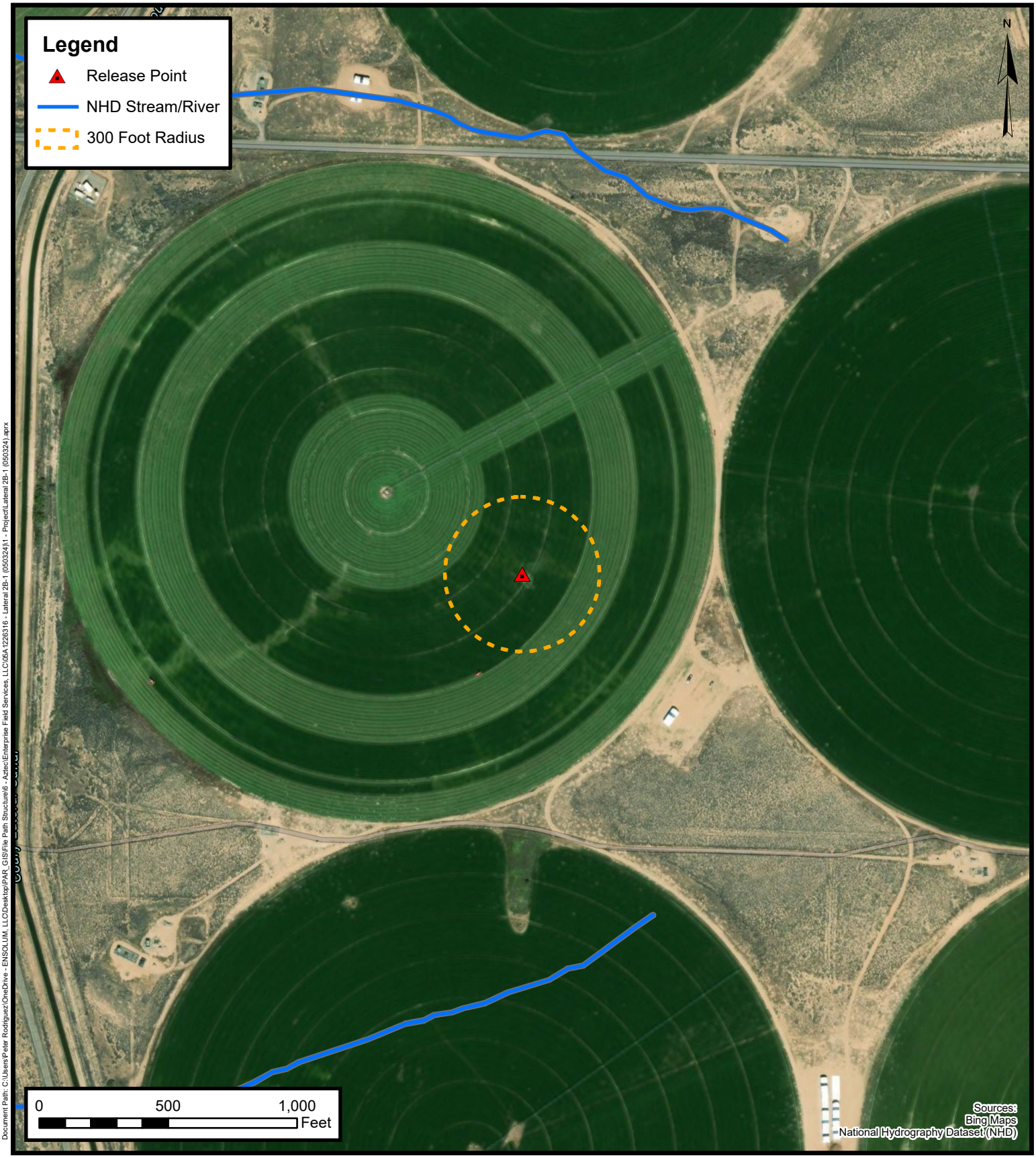
Cathodic Protection Well
Recorded Depth to Water
Enterprise Field Services, LLC
Lateral 2B-1 (05/03/24)
Project Number: 05A1226316
Unit Letter F, S21 T27N R11W, San Juan County, NM
36.56086, -108.00953

FIGURE
B



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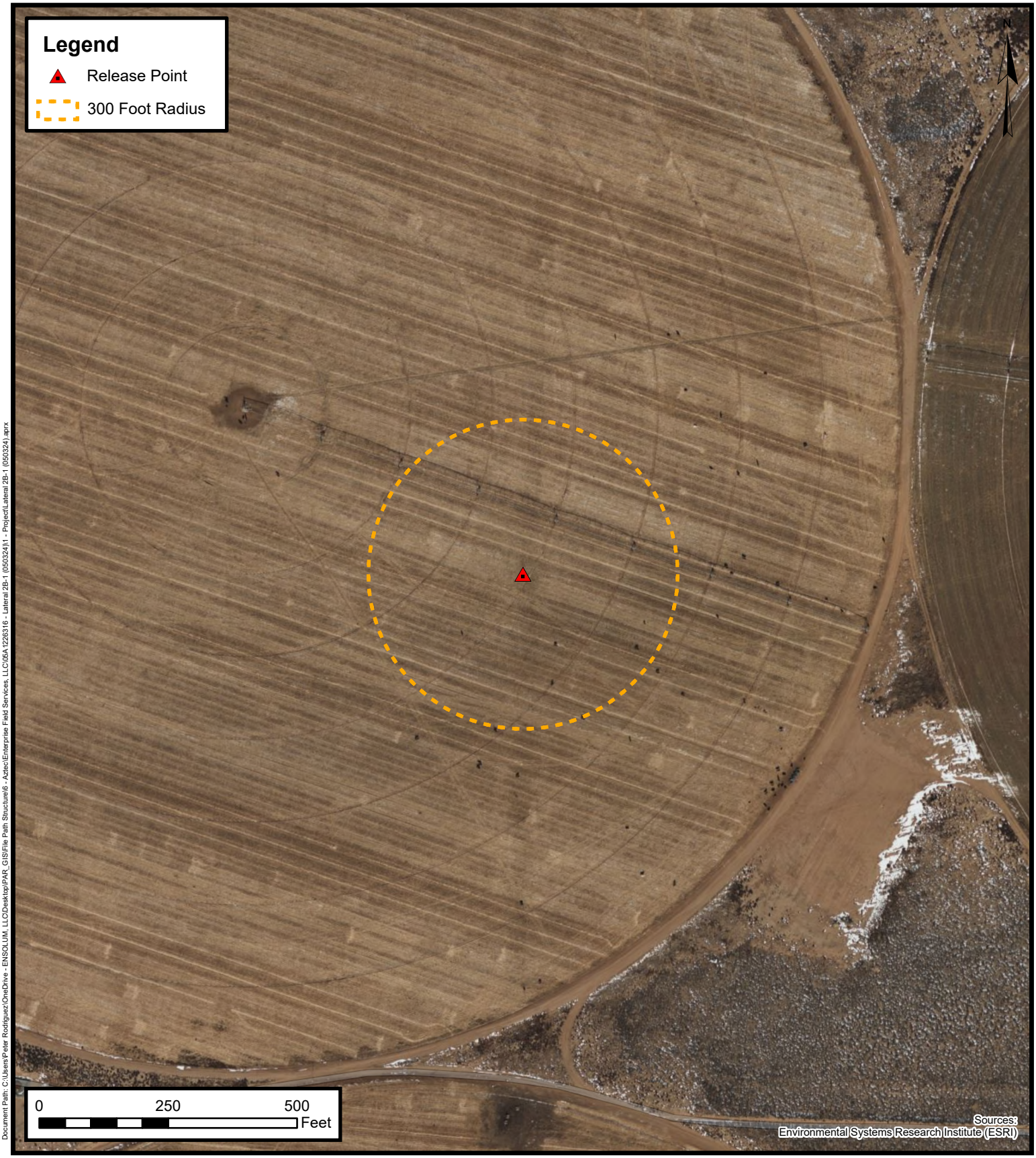
300 Foot Radius Watercourse and Drainage Identification

Enterprise Field Services, LLC
Lateral 2B-1 (05/03/24)
Project Number: 05A1226316
Unit Letter F, S21 T27N R11W, San Juan County, NM
36.56086, -108.00953

FIGURE

C



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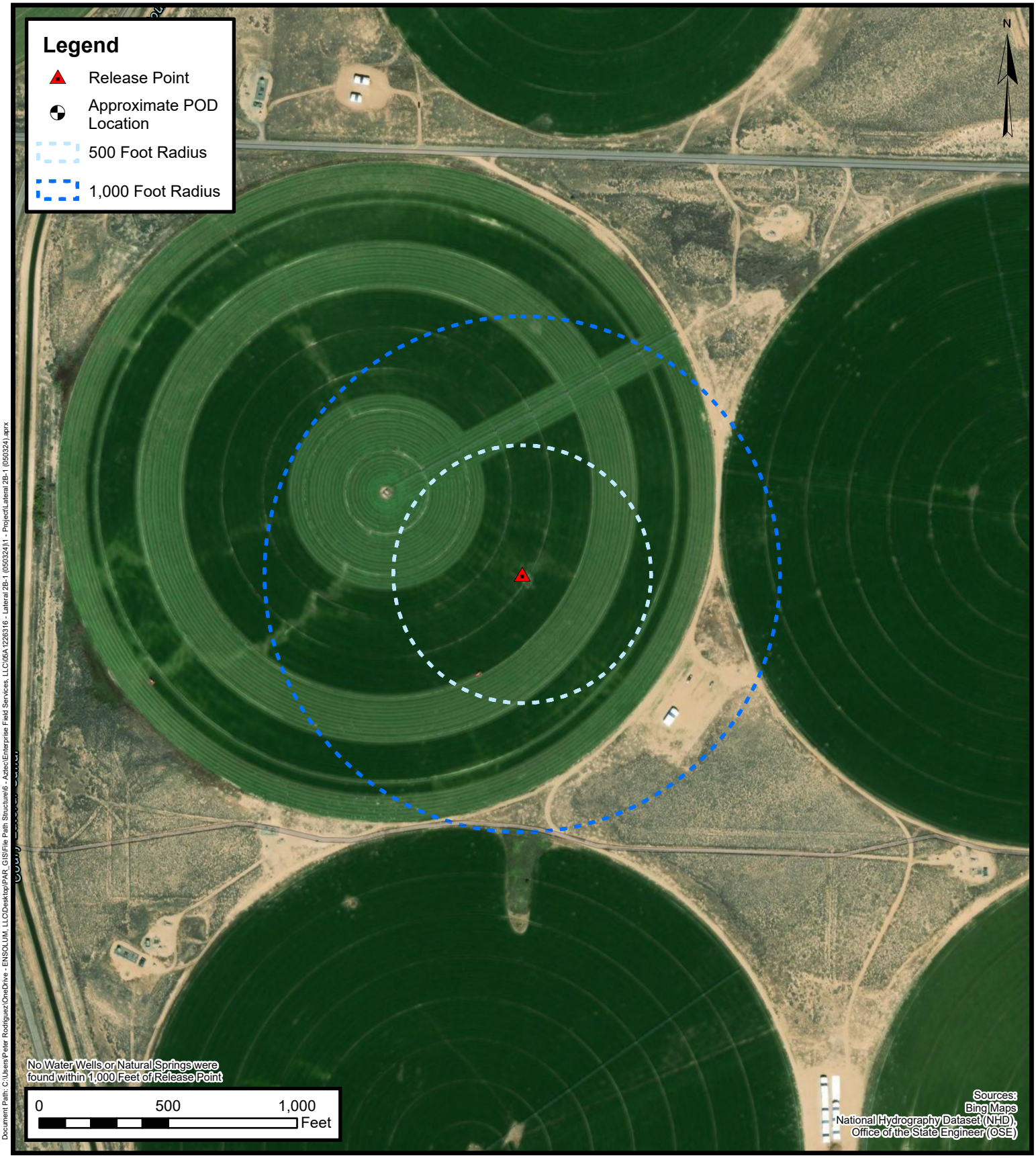
300 Foot Radius Occupied Structure Identification

Enterprise Field Services, LLC
Lateral 2B-1 (05/03/24)
Project Number: 05A1226316
Unit Letter F, S21 T27N R11W, San Juan County, NM
36.56086, -108.00953

FIGURE

D



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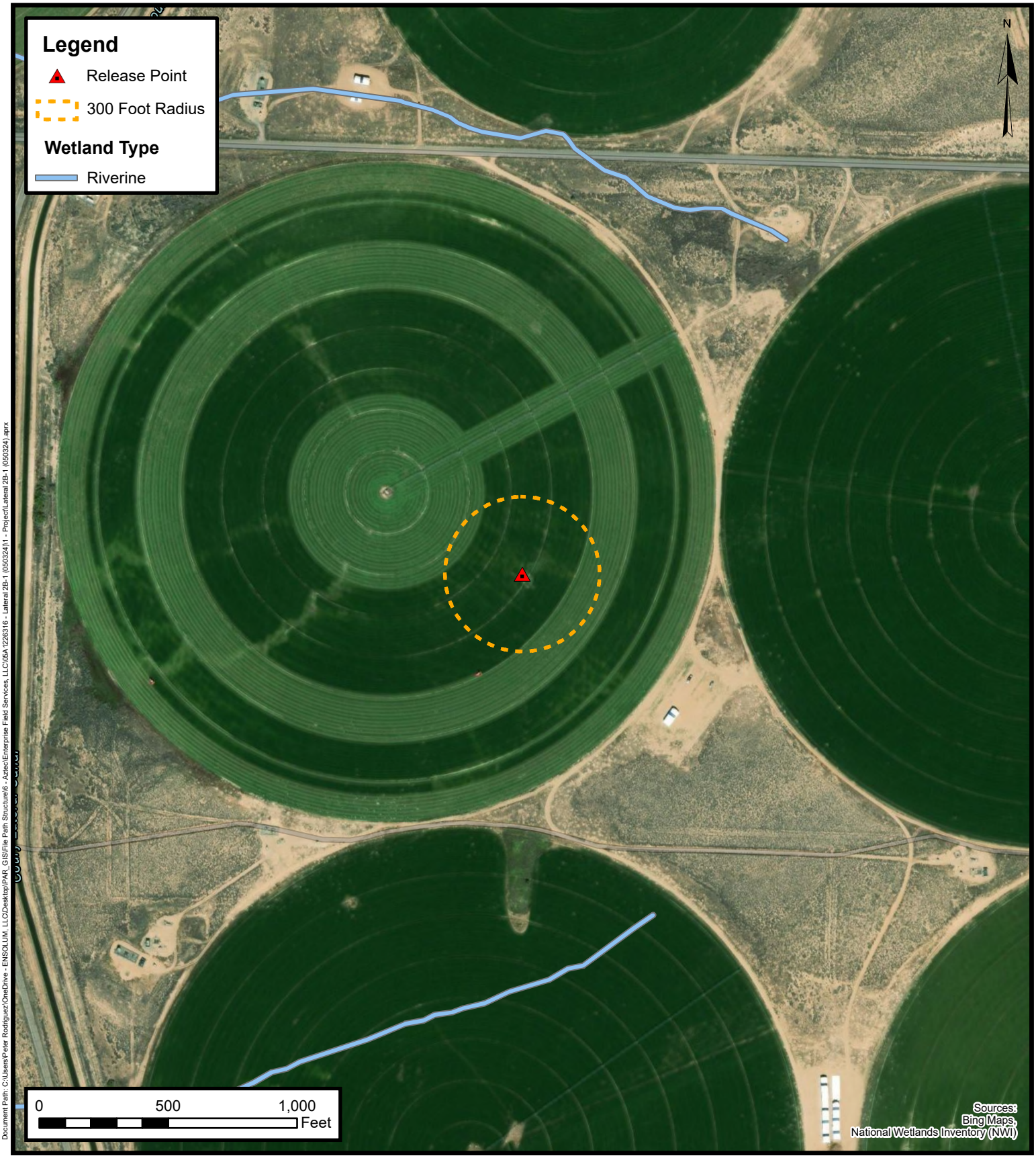
Water Well and Natural Spring Location
Enterprise Field Services, LLC
Lateral 2B-1 (05/03/24)
Project Number: 05A1226316
Unit Letter F, S21 T27N R11W, San Juan County, NM
36.56086, -108.00953

FIGURE
E



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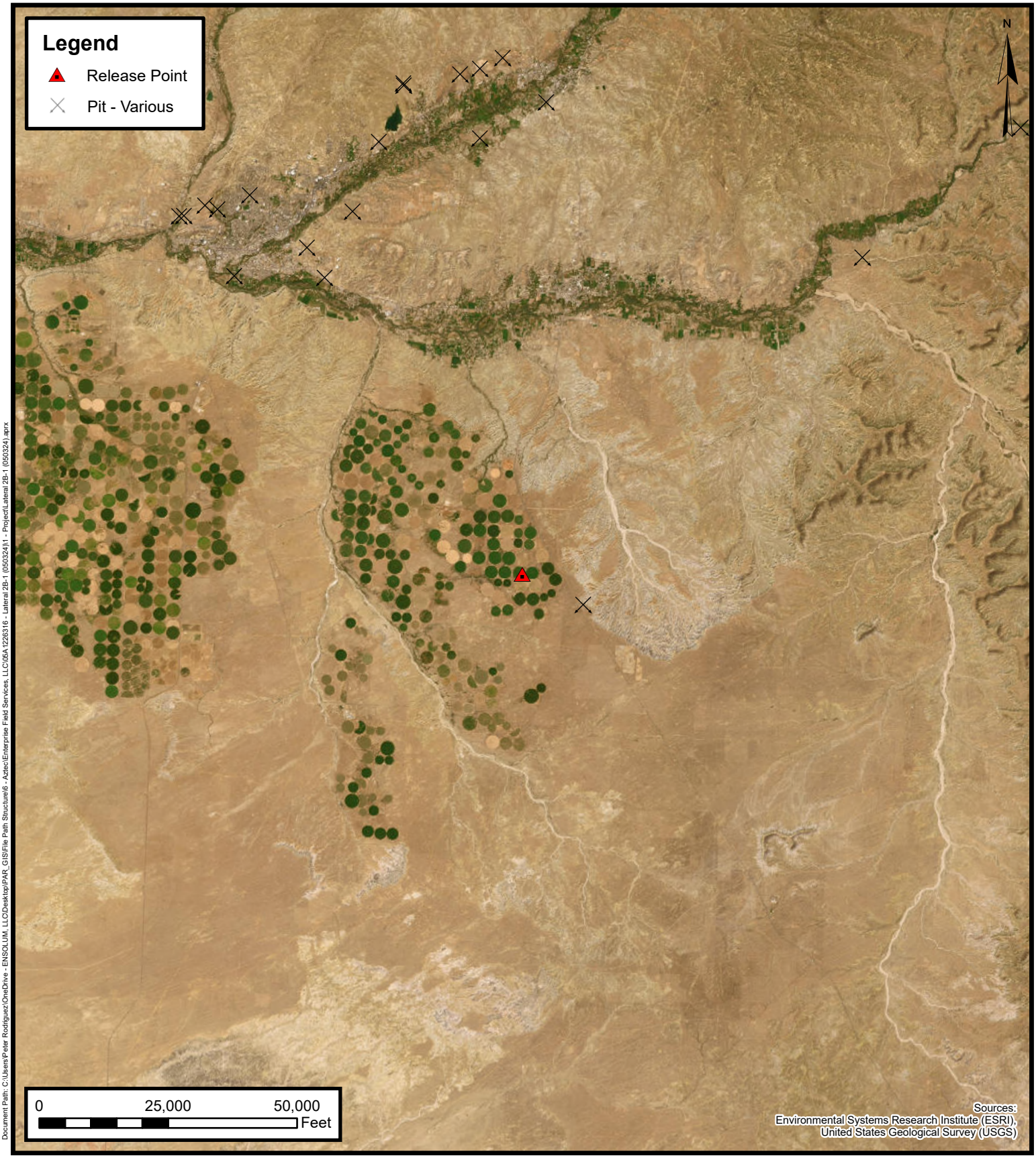
Wetlands

Enterprise Field Services, LLC
Lateral 2B-1 (05/03/24)
Project Number: 05A1226316
Unit Letter F, S21 T27N R11W, San Juan County, NM
36.56086, -108.00953

FIGURE
F



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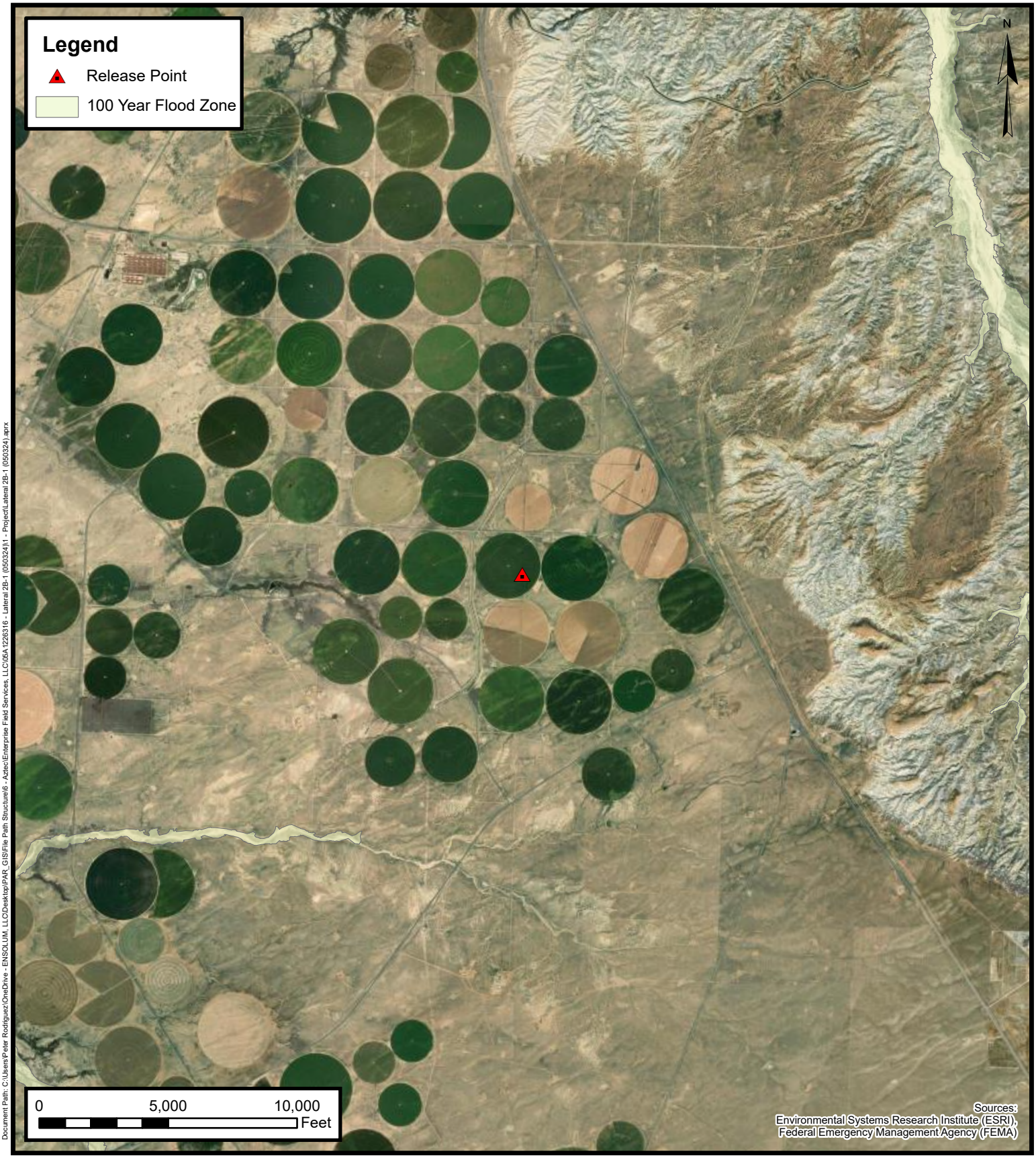
Mines, Mills, and Quarries

Enterprise Field Services, LLC
Lateral 2B-1 (05/03/24)
Project Number: 05A1226316
Unit Letter F, S21 T27N R11W, San Juan County, NM
36.56086, -108.00953

FIGURE
G



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100-Year Flood Plain Map

Enterprise Field Services, LLC
Lateral 2B-1 (05/03/24)
Project Number: 05A1226316
Unit Letter F, S21 T27N R11W, San Juan County, NM
36.56086, -108.00953

FIGURE
H

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

No records found.

PLSS Search:

Section(s): 15, 16, 17, 20, 21, 22, 27, 28, 29 **Township:** 27N **Range:** 11W

30-045-28425

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

Operator Bonneville Fuels Corp. Location: Unit ___ Sec. 15 Twp 22 Rng 11

Name of Well/Wells or Pipeline Serviced Fullerton Fed #15-41

Elevation ___ Completion Date 5-16-91 Total Depth 300' Land Type* F

Casing, Sizes, Types & Depths NA-None

If Casing is cemented, show amounts & types used NA-None

If Cement or Bentonite Plugs have been placed, show depths & amounts used
NA-None

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JUN 7 1991
OIL CON. DIV.
DIST. 3

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

Fresh, Clear, Salty, Sulphur, Etc. First ~~only~~ streak of clear water at 120' Depth

Depths gas encountered: NA-None

Type & amount of coke breeze used: CARBO-40 - 99.9% Carbon - 1,300 LBS.

Depths anodes placed: 220', 230', 240', 250', 260' & 270' Deep.

Depths vent pipes placed: 0 to 300' Deep

Vent pipe perforations: Laser Cut Slots from 140' to 300' Deep.

Remarks: Solid 1" dia. PVC (vent) pipe from 0' to 140' Deep.

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.

DEEP WELL TYPE GROUNDBED DATA

DATA SHEET NO. One (1)

COMPANY BONNEVILLE FUELS CORP JOB No. 751-00118 DATE: 5-16-91

WELL: FULLERTON FED #15-41 PIPELINE:

LOCATION: SEC. 15 TWP. 27 RGE. 11 CO. SAN JUAN STATE NM

ELEV. ____ FT: ROTARY 300' FT: CABLE TOOL -0- FT: CASING -0- FT.

GROUNDBED: DEPTH 300' FT. DIA. 6" IN. GAS 1300 LBS. ANODES LOA STRING

DEPTH. FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE E	I	R	NO COKE I	WITH COKE I	ANODE NO.	DEPTH. TOP OF ANODES
	FIRST WATER 120							
150	0-60 SANDY		3.8					
155	60-80 SHALE		4.1					
160	80-120 SANDY		4.0					
165	120-190 SHALE + SAND		4.2					
170	190-300 SANDY SHALE		3.9					
175			4.4					
180			4.2					
185			4.5					
190			4.6					
195			4.7					
200			4.8					
205			4.5					
210			5.0					
215			4.9					
220			5.3					220
225			5.4					
230			5.8					
235			5.6					
240			5.8					
245	5.7 AVERAGES		5.8					
250			5.7					
255			5.7					
260			5.8					
265			5.7		5.7	21.6		
270			5.6					270
275			5.6					
280			5.3					
285			5.3					
290			5.0					
295			4.7					
300			4.8					

RECEIVED
JUN 7 1991
OIL CON. DIV.
DIST. 3

GROUNDBED RESISTANCE: (1) VOLTS 12.35 - AMPS 21.5 - 0.57 OHMS

(2) VIBROGROUND _____ OHMS

GENERAL CATHODIC PROTECTION SERVICES CO.
A LUKENS COMPANY

#2 30-045-~~0674~~

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

Operator Meridian Oil Inc Location: Unit M Sec. 17 Twp 27 Rng 11

Name of Well/Wells or Pipeline Serviced Whitley A #2

Elevation 6171 Completion Date _____ Total Depth _____ Land Type _____

Casing Strings, Sizes, Types & Depths Set 99' of 8" P.V.C. schedule 40 casing

If Casing Strings are cemented, show amounts & types used Cemented with 18 sacks of Type II cement.

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

NO

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. Damp 110', WATER AT 230'

Depths gas encountered: NO

Ground bed depth with type & amount of coke breeze used: 470' with 6,000 lbs Loresco Type SW

Depths anodes placed: 450, 430, 420, 410, 400, 390, 380, 370, 360, 350, 340, 265, 210, 185, 175

Depths vent pipes placed: 470'

Vent pipe perforations: bottom 350'

Remarks:

RECEIVED
JAN 11 1996
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.

3875

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

30-045-28969

Operator Meridian Oil Inc. Location: Unit L Sec. 17 Twp 27 Rng 11

Name of Well/Wells or Pipeline Serviced

Whitley A #100

Elevation ____ Completion Date 9/13/93 Total Depth 446' Land Type I

Casing Strings, Sizes, Types & Depths 9/10 Set 78' of 8" PVC Casing.

No Gas, Water, or Boulders Were Encountered During Casing.

If Casing Strings are cemented, show amounts & types used Cemented

With 16 Sacks.

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. Hit Water at 85', And More Fresh Water

At 250'. A Water Sample Was Taken.

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 446' Depth,

Used 126 Sacks of Asbury 218R (6300#)

Depths anodes placed: 418', 411', 404', 397' 387', 375', 369' 342' 335' 328', 321' 314' 307', 278', +271'

Depths vent pipes placed: Surface To 446'.

Vent pipe perforations: Bottom 340'.

Remarks:

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JAN 31 1994
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.

#2E 30-045-26246 3935

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 D Sec. 20 Twp 27 Rng 11

Name of Well/Wells or Pipeline Serviced ANGEL PEAK #2E

cps 1853w

Elevation 6189' Completion Date 11/13/87 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. 30' NO SAMPLE

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 265', 205', 170', 160', 150', 140', 130', 120', 110', 100'

Depths vent pipes placed: N/A

Vent pipe perforations: 260'

Remarks: gb #1

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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.

MERIDIAN OIL INC.
Farmington Region
Post Office Box 4289
Farmington, New Mexico 87499
(505) 327-0251

FM 07 0235 Rev 10-91

X

General

Drilling Log (Attach Hereto) ☐ WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Completion Date 11-13-87

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
1853w	Angel Peak 2E		.79 N.w.	☑ Good ☐ Bad

Location:	Anode Size:	Anode Type:	Size Bit:
D 2C-27-11	21" x 60"	Duriron	6 3/4

Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
300	295	4 hrs			

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	265	205	170	160	150	140	130	120	110	100
Anode Output (Amps)	5.6	5.0	7.0	6.8	7.8	8.1	7.6	7.0	5.7	6.4
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 11.9	Amps 32	Ohms .37			

Remarks: Driller said water was at 40'. No water sample was taken. Vent pipe is perforated up to 40'

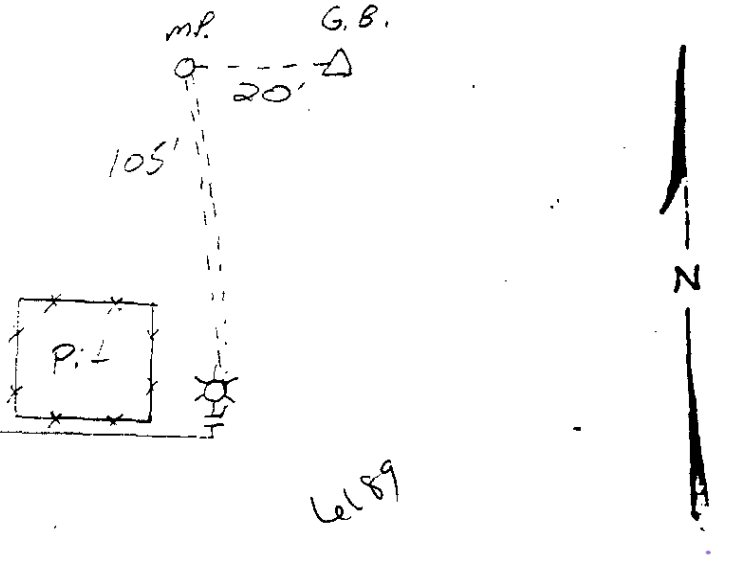
Rectifier Size: 40 V 16 A
Addn'l Depth
Depth Credit: 205 ✓
Extra Cable: 30 ✓
Ditch & 1 Cable: 20 ✓
Ditch & 2 Cable: 105
25' Meter Pole:
20' Meter Pole: 365.00 ✓
10' Stub Pole:
Junction Box: 269.90 ✓

799.98
4399.50 ✓
-820.00 4378.98
600 ✓
1400 ✓
94.50 ✓

All Construction Completed

Randy Smith
(Signature)

GROUND BED LAYOUT SKETCH



5083.38
Tx 254.17
5337.5 ✓

5128.38
256.42
5384.80

6189

BURG CORROSION SYSTEMS, INC.

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

DEEP WELL GROUNDBED LOG

Date 11-13-84

Company Meridian Oil (EPS) .37 Ω

Well No. 2E Location Angel Peak Volts Applied 11.9 Amperes 32

Depth	Reading	Notes	Depth	Reading	Notes	Depth	Anode / Depth	Reading	Depth	Reading
0										
5			230	1.6		455	(1) 265	2.9	680	5.6
10			235	1.6		460	(2) 205	2.6	685	5.0
15			240	1.8		465	(3) 170	3.5	690	7.0
20			245	1.8		470	(4) 160	3.5	695	6.8
25			250	1.7		475	(5) 150	3.3	700	7.8
30			255	1.7		480	(6) 140	3.6	705	8.1
35			260	2.2		485	(7) 130	3.6	710	7.6
40			265	2.7	✓ (1)	490	(8) 120	3.2	715	9.0
45			270	2.1		495	(9) 110	3.1	720	5.7
50			275	1.4		500	(10) 100	3.3	725	6.4
55			280	1.1		505			730	
60	2.5		285	.9		510			735	
65	2.9		290	.9		515			740	
70	2.9		295	TD 295		520			745	
75	2.9		300			525			750	
80	2.3		305			530			755	
85	2.0		310			535			760	
90	1.9		315			540			765	
95	2.1		320			545			770	
100	2.9	✓ (10)	325			550			775	
105	2.9		330			555			780	
110	2.7	✓ (9)	335			560			785	
115	2.2		340			565			790	
120	2.8	✓ (8)	345			670			795	
125	3.2		350			575			800	
130	3.2	✓ (7)	355			580			805	
135	3.1		360			585			810	
140	3.2	✓ (6)	365			590			815	
145	3.3		370			595			820	
150	3.0	✓ (5)	375			600			825	
155	3.2		380			605			830	
160	2.9	✓ (4)	385			610			835	
165	3.0		390			615			840	
170	3.0	✓ (3)	395			620			845	
175	2.1		400			625			850	
180	1.5		405			630			855	
185	1.5		410			635			860	
190	1.3		415			640			865	
195	1.9		420			645			870	
200	1.8		425			650			875	
205	2.4	✓ (2)	430			655			880	
210	2.0		435			660			885	
215	1.9		440			665			890	
220	1.8		445			670			895	
225	1.7		450			675			900	

GENERAL CATHODIC PROTECTION SERVICES

WELL TYPE GROUNDBED DATA

DATA SHEET NO. _____

COMPANY _____ JOB No. _____ DATE: _____

WELL: ANGEL PEAK #2E PIPELINE: _____

LOCATION: SEC. _____ TWP. _____ RGE. _____ CO. _____ STATE _____

ELEV. _____ FT: ROTARY _____ FT: CABLE TOOL _____ FT: CASING _____ FT.

GROUNDBED: DEPTH _____ FT. DIA. _____ IN. GAS _____ LBS. ANODES _____

DEPTH, FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE			NO COKE	WITH COKE	DEPTH TOP OF ANODES	
	FIRST WATER AT 35'	E	I	R			NO.	FT.
5	SAND							
10								
15								
20								
25								
30								
35								
40								
45								
50								
55								
60								
65	SHALE							
70								
75								
80								
85								
90								
95								
100								
5								
10								
15								
20								
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								
75								
80	SAND							
85								
90								
95								
200								
5	SHALE & SAND							
10								
15								

GROUNDBED RESISTANCE: (1) VOLTS _____ ÷ AMPS _____ = _____ OHMS

(2) VIBROGROUND _____ OHMS

GENERAL CPS
CATHODIC PROTECTION SERVICES

WELL TYPE GROUNDBED DATA

DATA SHEET NO. _____

COMPANY _____ JOB No. _____ DATE: _____

WELL: _____ PIPELINE: _____

LOCATION: SEC. _____ TWP. _____ RGE. _____ CO. _____ STATE _____

ELEV. _____ FT: ROTARY _____ FT: CABLE TOOL _____ FT: CASING _____ FT.

GROUNDBED: DEPTH _____ FT. DIA. _____ IN. GAS _____ LBS. ANODES _____

DEPTH, FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE			NO COKE	WITH COKE	DEPTH TOP OF ANODES	
		E	I	R			NO.	FT.
20	SHALE & SAND							
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								
75								
80								
85								
90								
95								
300								
5								
10								
15								
20								
25								
30								
35								
40								
45								
50	TD							
55								
60								
65								
70	295'							
75								
80								
85								
90								
95								
400								
5								
10								
15								
20								
25								
30								

GROUNDBED RESISTANCE: (1) VOLTS _____ ÷ AMPS _____ = _____ OHMS

(2) VIBROGROUND _____ OHMS

#3E

30-045-26247

3940

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 I Sec. 20 Twp 27 Rng 11

Name of Well/Wells or Pipeline Serviced ANGEL PEAK #3E

cps 1858w

Elevation 6239' Completion Date 11/13/87 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. 30' NO SAMPLE

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 270', 245', 235', 215', 205', 195', 185', 175', 165', 155'

Depths vent pipes placed: N/A

Vent pipe perforations: 270'

Remarks: gb #1

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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.

MERIDIAN OIL INC.
Farmington Region
Post Office Box 4239
Farmington, New Mexico 87499
(505) 327-0251

K
General

WELL CASING
ing Log (Attach Hereto) ☐ CATHODIC PROTECTION CONSTRUCTION REPORT Completion Date 11-13-87
DAILY LOG

#	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
1858w	Angel Peak 3E		-82 w	☑ Good ☐ Bad

ation:	Anode Size:	Anode Type:	Size Bit:
20-27-11	2" x 60"	Duriron	6 3/4"

pth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
300	298	3 hrs			

ode Depth	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
270	245	235	215	205	195	185	175	165	155
ode Output (Amps)									
5.0	4.4	5.2	5.2	6.2	6.5	6.5	6.4	6.5	6.0
ode Depth									
11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
ode Output (Amps)									
11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20

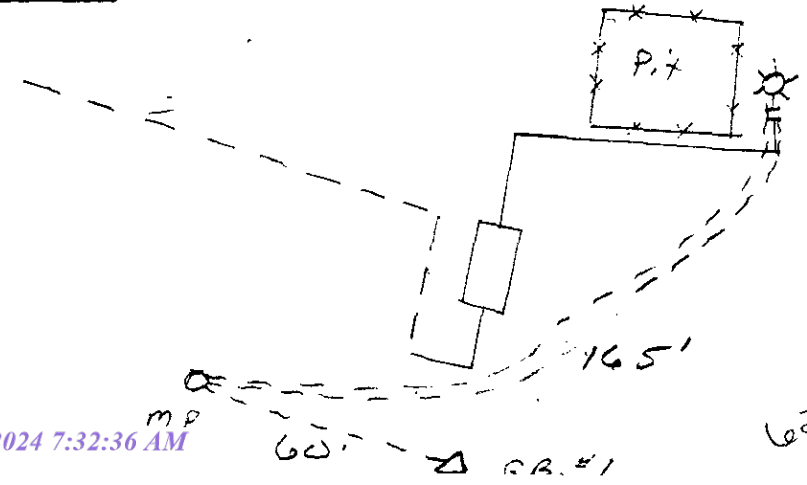
otal Circuit Resistance					
olts 12	Amps 26.8	Ohms .45	No. 8 C.P. Cable Used	No. 2 C.P. Cable Used	

emarks: Driller said water wat 30'. Vent pipe is perforated up 30'. No water sample was taken

ectifier Size:	40 V 16 A	799.98
.ddn'l Depth		4399.00
Depth Credit:	202 ✓	-808.00 ✓ 4390.98
Extra Cable:	30 ✓	60.00 ✓
Ditch & 1 Cable:	60 ✓	42.00 ✓
Ditch & 2 Cable:	165 ✓	148.50 ✓
5' Meter Pole:		
0' Meter Pole:	365.00 ✓	
.0' Stub Pole:		
Junction Box:	269.90 ✓	

All Construction Completed
Randy Smith
(Signature)

GROUND BED LAYOUT SKETCH



5177.38
1X 259.87
5436.25
5222.38
261.11
5483.49

BURGE CORROSION SYSTEMS, INC.

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

DEEP WELL GROUNDBED LOG

Date 11-13-87

Company Meridian Oil

Well No. #3E Location Angel Peak Volts Applied 12 Amperes 26.8

Depth	Reading	Remarks	Depth	Reading	Remarks	Depth	Reading	Depth	Reading
5			230	2.1		455	(1) 278 3.0	680	5.0
10			235	2.5	✓ (3)	460	(2) 245 2.6	685	4.4
15			240	2.3		465	(3) 235 2.8	690	5.2
20			245	2.4	✓ (2)	470	(4) 215 2.5	695	5.2
25			250	2.1		475	(5) 205 3.2	700	6.2
30	.7		255	1.9		480	(6) 195 3.0	705	6.5
35	1.1		260	1.6		485	(7) 185 3.4	710	6.5
40	2.0		265	1.9		490	(8) 175 3.0	715	6.4
45	2.4		270	2.5	✓ (1)	495	(9) 165 3.0	720	6.5
50	2.1		275	2.0		500	(10) 155 2.6	725	6.0
55	1.6		280	1.3		505		730	
60	1.0		285	1.4		510		735	
65	1.0		290	1.5		515		740	
70	2.1		295	TD 298		520		745	
75	2.3		300			525		750	
80	2.5		305			530		755	
85	2.2		310			535		760	
90	1.5		315			540		765	
95	1.6		320			545		770	
100	1.3		325			550		775	
105	1.7		330			555		780	
110	2.0		335			560		785	
115	1.7		340			565		790	
120	1.5		345			570		795	
125	1.7		350			575		800	
130	1.6		355			580		805	
135	1.5		360			585		810	
140	1.3		365			590		815	
145	1.0		370			595		820	
150	1.3		375			600		825	
155	2.4	✓ (10)	380			605		830	
160	2.6		385			610		835	
165	2.7	✓ (9)	390			615		840	
170	2.9		395			620		845	
175	3.0	✓ (8)	400			625		850	
180	2.8		405			630		855	
185	2.8	✓ (7)	410			635		860	
190	2.2		415			640		865	
195	2.7	✓ (6)	420			645		870	
200	2.6		425			650		875	
205	2.8	✓ (5)	430			655		880	
210	2.4		435			660		885	
215	2.2	✓ (4)	440			665		890	
220	2.8		445			670		895	
225	1.7		450			675		900	

GENERAL CPS
CATHODIC PROTECTION SERVICES

WELL TYPE GROUNDBED DATA

DATA SHEET NO. _____

COMPANY MERIDIAN JOB No. _____ DATE: 11-13-82

WELL: ANGER PEAK PIPELINE: _____

LOCATION: SEC. 20 TWP. 22N RGE. 11W CO. _____ STATE NM

ELEV. _____ FT: ROTARY 298' FT: CABLE TOOL -0- FT: CASING -0- FT.

GROUNDBED: DEPTH 298' FT. DIA. 6 3/4 IN. GAB _____ LBS. ANODES _____

DEPTH, FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE			NO. COKE	WITH COKE	DEPTH TOP OF ANODES	
	FIRST WATER AT 30'	E	I	R			NO.	FT.
5								
10								
15								
20								
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								
75								
80								
85								
90								
95								
100								
5	SHALE + SAND							
10								
15								
20								
25								
30								
35								
40								
45								
50								
55								
60								
65	SHALE							
70								
75								
80								
85								
90								
95								
200								
5								
10								
15								

GROUNDBED RESISTANCE: (1) VOLTS _____ ÷ AMPS _____ = _____ OHMS

(2) VIBROGROUND _____ OHMS

GENERAL CPS
CATHODIC PROTECTION SERVICES

WE[illegible] TYPE GROUNDBED DAT.

DATA SHEET NO. _____

COMPANY _____ JOB No. _____ DATE: _____

WELL: _____ PIPELINE: _____

LOCATION: SEC. _____ TWP. _____ RGE. _____ CO. _____ STATE _____

ELEV. _____ FT: ROTARY _____ FT: CABLE TOOL _____ FT: CASING _____ F

GROUNDBED: DEPTH _____ FT. DIA. _____ IN. GAS _____ LBS. ANODES _____

DEPTH, FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE			NO COKE	WITH COKE	DEPTH TOP OF ANODES	
		E	I	R			NO.	FT.
20	SHALE							
25	SAND							
30								
35	SHALE							
40								
45								
50								
55								
60	SANDY SHALE							
65								
70								
75								
80								
85								
90								
95								
300								
5								
10								
15								
20								
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								
75								
80								
85								
90								
95								
400								
5								
10								
15								
20								
25								
30								

GROUNDBED RESISTANCE: (1) VOLTS _____ ÷ AMPS _____ = _____ OHMS

(2) VIBROGROUND _____ OHMS

22- 30-045-30898
32- 30-045-28257

686

E

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

Operator Bonneville Fuels Corp. Location: Unit NE Sec. 22 Twp 27 Rng 11

Name of Well/Wells and Pipeline Serviced Scott "E" Fed. #22-32 & #22-22

1780' FNL & 1480' FEL

Elevation 6559' & 6554' Completion Date 5-14-91 Total Depth 300' Land Type* F

Casing, Sizes, Types & Depths PVC Casing 8" I.D., 8 5/8" O.D., Schedule 40, B.E. to 25' Deep.

If Casing is cemented, show amounts & types used NA-None

If Cement or Bentonite Plugs have been placed, show depths & amounts used NA-None

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

Fresh, Clear, Salty, Sulphur, Etc. First & only Water (Clear) Streak at 95 Foot Depth.

Depths gas encountered: NA-None

Type & amount of coke breeze used: CARBO 40, 99.9% Carbon, 1,500 LBS,

Depths anodes placed: 200', 210', 220', 230', 240' and 250' Deep.

Depths vent pipes placed: 0' to 300' Deep.

Vent pipe perforations: Laser Cut Slots from 100' to 300' Deep.

Remarks: Solid 1" diameter PVC (vent) pipe from 0' to 100' Deep.

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.

RECEIVED
MAY 28 1991
OIL CON. DIV.
DIST. 3

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

Operator Bonneville Fuels Corp. Location: Unit NE Sec. 22 Twp 27 Rng 11

Name of Well/Wells and Pipeline Serviced Scott "E" Fed. #22-32 + #22-22

1780' FNL & 1480' FEL

Elevation 6559' & 6554' Completion Date 5-14-91 Total Depth 300' Land Type* F

Casing, Sizes, Types & Depths PVC Casing 8" I.D., 8 5/8" O.D., Schedule 40, B.E. to 25' Deep.

If Casing is cemented, show amounts & types used NA-None

If Cement or Bentonite Plugs have been placed, show depths & amounts used NA-None

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

Fresh, Clear, Salty, Sulphur, Etc. First + only Water (Clear) Streak at 95 Foot Depth.

Depths gas encountered: NA-None

Type & amount of coke breeze used: CARBO 40, 99.9% Carbon, 1,500 LBS.

Depths anodes placed: 200', 210', 220', 230', 240' and 250' Deep.

Depths vent pipes placed: 0' to 300' Deep.

Vent pipe perforations: Laser Cut Slots from 100' to 300' Deep.

Remarks: Solid 1" diameter PVC (vent) pipe from 0' to 100' Deep.

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-Fe
If Federal or Indian, add Lease Number.

RECEIVED
MAY 28 1991
OIL CON. DIV
DIST. 3

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

Operator Bonneville Fuels Corp. Location: Unit NE Sec. 22 Twp 27 Rng 11

Name of Well/Wells and Pipeline Serviced Scott "E" Fed. #22-32 + #22-22
1780' FNL & 1480' FEL

Elevation 6559' ~~6559'~~ Completion Date 5-14-91 Total Depth 300' Land Type* F

Casing, Sizes, Types & Depths PVC Casing 8" I.D., 8 5/8" O.D., Schedule 40, B.E. to 25' Deep.

If Casing is cemented, show amounts & types used NA-None

If Cement or Bentonite Plugs have been placed, show depths & amounts used
NA-None

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

Fresh, Clear, Salty, Sulphur, Etc. First + only Water (Clear) Streak at 95 Foot Depth.

Depths gas encountered: NA-None

Type & amount of coke breeze used: CARBO 40, 99.9% Carbon, 1,500 LBS.

Depths anodes placed: 200', 210', 220', 230', 240' and 250' Deep.

Depths vent pipes placed: 0' to 300' Deep.

Vent pipe perforations: Laser Cut Slots from 100' to 300' Deep.

Remarks: Solid 1" diameter PVC (vent) pipe from 0' to 100' Deep.

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.

RECEIVED
MAY 28 1991
OIL CON. DIV
DIST. 3

ENSOLUM

APPENDIX C

Executed C-138 Solid Waste Acceptance Form

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138
Revised 08/01/11

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

97057-1125

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

PayKey:AM14058
PM: ME Eddleman
AFE: Pending

2. Originating Site:
Lateral 2B-1

3. Location of Material (Street Address, City, State or ULSTR):
UL F Section 32 T27N R11W; 36.560860, -108.009530

May 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 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 268 yd³ / 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 5-2-2024, representative for Enterprise Products Operating authorizes Envirotech, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

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

5. Transporter: TBD West States, LdL

OCD Permitted Surface Waste Management Facility

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

Waste Acceptance Status:

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

PRINT NAME: Greg Crabtree TITLE: Enviro Manager DATE: 5/3/24
SIGNATURE: Greg Crabtree TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

ENSOLUM

APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Lateral 2B-1 (05/03/24)
Ensolum Project No. 05A1226316

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
Lateral 2B-1 (05/03/24)
Ensolum Project No. 05A1226316

ENSOLUM

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

ENSOLUM

APPENDIX E

Regulatory Correspondence

From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, May 6, 2024 8:47 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: [EXTERNAL] Lateral 2B-1 - UL F Section 32 T27N R11W; 36.560860, -108.009530 - NMOCD Incident # nAPP2412451499

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

Nelson,

The email is a notification and a variance request for the Lateral 2B-1, NMOCD Incident # nAPP2412451499. Enterprise is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect closure samples tomorrow May 7, 2024 at 9:00 a.m. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

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

logo

From: OCDOnline@state.nm.us
To: Long, Thomas
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 341028
Date: Monday, May 6, 2024 8:49:48 AM

[Use caution with links/attachments]

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2412451499.

The sampling event is expected to take place:

When: 05/07/2024 @ 09:00
Where: F-21-27N-11W 0 FNL 0 FEL (36.56086,-108.00953)

Additional Information: Ensolum, LLC

Additional Instructions: 36.56086,-108.00953

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

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

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

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

From: nnepawq@frontiernet.net
To: Long, Thomas
Subject: RE: [EXTERNAL] RE: Lateral 2B-1 - UL F Section 32 T27N R11W; 36.560860, -108.009530 - NMOCD Incident # nAPP2412451499
Date: Monday, May 6, 2024 11:24:58 AM

[Use caution with links/attachments]

Hi Tom,

That'll be okay.

--Steve

Steve Austin
Senior Hydrologist
NNEPA WQ/NPDES Program
505-368-1037

-----Original Message-----
From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, May 6, 2024 11:06 AM
To: nnepawq@frontiernet.net
Subject: Re: [EXTERNAL] RE: Lateral 2B-1 - UL F Section 32 T27N R11W; 36.560860, -108.009530 - NMOCD Incident # nAPP2412451499

Steve,

I just got word, we are actually will be ready to sample today. Is that acceptable?

Tom Long

On May 6, 2024, at 10:55 AM, nnepawq@frontiernet.net wrote:

[Use caution with links/attachments]
Tom,

Your request for a variance on the 48 hour notification to sample at the Lateral 2B-1 release location (NMOCD Incident #NAPP2412451499) is approved.

--Steve

Steve Austin
Senior Hydrologist
NNEPA WQ/NPDES Program
505-368-1037

From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, May 6, 2024 9:24 AM
To: nnepawq@frontiernet.net
Subject: RE: [EXTERNAL] RE: Lateral 2B-1 - UL F Section 32 T27N R11W; 36.560860, -108.009530 - NMOCD Incident # nAPP2412451499

Steve,

It is in the title of the email.

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

<image001.jpg>

From: nnepawq@frontiernet.net<mailto:nnepawq@frontiernet.net>
<nnepawq@frontiernet.net<mailto:nnepawq@frontiernet.net>>
Sent: Monday, May 6, 2024 9:24 AM
To: Long, Thomas <tjlong@eprod.com<mailto:tjlong@eprod.com>>
Subject: [EXTERNAL] RE: Lateral 2B-1 - UL F Section 32 T27N R11W; 36.560860, -108.009530 - NMOCD Incident # nAPP2412451499

[Use caution with links/attachments]

Hi Tom,

I never received notification of this incident. Do you have a location?

--Steve

Steve Austin
Senior Hydrologist
NNEPA WQ/NPDES Program
505-368-1037

From: Long, Thomas <tjlong@eprod.com<mailto:tjlong@eprod.com>>
Sent: Monday, May 6, 2024 8:55 AM
To: nnepawq@frontiernet.net<mailto:nnepawq@frontiernet.net>
Subject: Lateral 2B-1 - UL F Section 32 T27N R11W; 36.560860, -108.009530 - NMOCD Incident # nAPP2412451499

Steve,

The email is a notification and a variance request for the Lateral 2B-1, NMOCD Incident # nAPP2412451499. Enterprise had a release of natural gas and natural gas liquids on the Lateral 2B-1 pipeline on April 30, 2024. No fire nor injuries occurred. No washes were affected. Repairs and remediation began May 3, 2024.

Enterprise is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect closure samples tomorrow May 7, 2024 at 9:00 a.m. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

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

From: Velez, Nelson, EMNRD
To: Long, Thomas
Cc: Stone, Brian
Subject: Re: [EXTERNAL] Lateral 2B-1 - UL F Section 32 T27N R11W; 36.560860, -108.009530 - NMOCD Incident # nAPP2412451499
Date: Tuesday, May 7, 2024 7:13:13 AM
Attachments: Outlook-iepstwmi.png

[Use caution with links/attachments]

Good morning Tom,

Sorry for the delay, was not at work yesterday. Thank you for the notice. Your variance request specifically addressing 19.15.29.12D (1a) NMAC is approved.

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

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

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

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

ENSOLUM

APPENDIX F

Table 1 – Soil Analytical Summary

ENSOLUM

TABLE 1
Lateral 2B-1 (05/03/24)
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	05.06.24	C	10	<0.019	<0.039	<0.039	<0.078	ND	<3.9	<8.7	<43	ND	<60
S-2	05.06.24	C	0 to 10	<0.019	<0.037	<0.037	<0.074	ND	<3.7	<9.7	<48	ND	<60
S-3	05.06.24	C	0 to 10	<0.021	<0.041	<0.041	<0.082	ND	<4.1	<9.2	<46	ND	<60
S-4	05.06.24	C	0 to 10	<0.019	<0.037	<0.037	<0.074	ND	<3.7	<9.6	<48	ND	<60
S-5	05.06.25	C	10	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<8.5	<42	ND	<60
S-6	05.06.24	C	0 to 10	<0.020	<0.041	<0.041	<0.082	ND	<4.1	<9.4	<47	ND	<60

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

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

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

NE = Not established

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 5/9/2024 9:53:00 AM

JOB DESCRIPTION

Lateral 2B-1 (4/30/24)

JOB NUMBER

885-3962-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

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

Authorization

Generated
5/9/2024 9:53:00 AM

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

Client: Ensolum
Project/Site: Lateral 2B-1 (4/30/24)

Laboratory Job ID: 885-3962-1

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 885-3962-1
Project/Site: Lateral 2B-1 (4/30/24)

Glossary

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

Case Narrative

Client: Ensolum Job ID: 885-3962-1
Project: Lateral 2B-1 (4/30/24)

Job ID: 885-3962-1 Eurofins Albuquerque

Job Narrative
885-3962-1

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 5/7/2024 7:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.7°C.

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

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

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

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

Client Sample Results

Client: Ensolum
Job ID: 885-3962-1
Project/Site: Lateral 2B-1 (4/30/24)

Client Sample ID: S-1
Lab Sample ID: 885-3962-1
Date Collected: 05/06/24 09:40
Matrix: Solid
Date Received: 05/07/24 07:40

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.9		mg/Kg		05/07/24 09:32	05/07/24 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 244*	*05/07/24 09:32*	*05/07/24 11:54*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019		mg/Kg		05/07/24 09:32	05/07/24 11:54	1
Ethylbenzene	ND		0.039		mg/Kg		05/07/24 09:32	05/07/24 11:54	1
Toluene	ND		0.039		mg/Kg		05/07/24 09:32	05/07/24 11:54	1
Xylenes, Total	ND		0.078		mg/Kg		05/07/24 09:32	05/07/24 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*05/07/24 09:32*	*05/07/24 11:54*	*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		8.7		mg/Kg		05/07/24 08:53	05/07/24 10:56	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		05/07/24 08:53	05/07/24 10:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*92*		*62 - 134*	*05/07/24 08:53*	*05/07/24 10:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/07/24 10:09	05/07/24 18:36	20

Client Sample Results

Client: Ensolum
Job ID: 885-3962-1
Project/Site: Lateral 2B-1 (4/30/24)

Client Sample ID: S-2
Lab Sample ID: 885-3962-2
Date Collected: 05/06/24 09:45
Matrix: Solid
Date Received: 05/07/24 07:40

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.7		mg/Kg		05/07/24 09:32	05/07/24 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 244*	*05/07/24 09:32*	*05/07/24 12:15*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019		mg/Kg		05/07/24 09:32	05/07/24 12:15	1
Ethylbenzene	ND		0.037		mg/Kg		05/07/24 09:32	05/07/24 12:15	1
Toluene	ND		0.037		mg/Kg		05/07/24 09:32	05/07/24 12:15	1
Xylenes, Total	ND		0.074		mg/Kg		05/07/24 09:32	05/07/24 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*39 - 146*	*05/07/24 09:32*	*05/07/24 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]	ND		9.7		mg/Kg		05/07/24 08:53	05/07/24 11:08	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		05/07/24 08:53	05/07/24 11:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*05/07/24 08:53*	*05/07/24 11:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/07/24 10:09	05/07/24 18:51	20

Client Sample Results

Client: Ensolum
Job ID: 885-3962-1
Project/Site: Lateral 2B-1 (4/30/24)

Client Sample ID: S-3
Lab Sample ID: 885-3962-3
Date Collected: 05/06/24 09:50
Matrix: Solid
Date Received: 05/07/24 07:40

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.1		mg/Kg		05/07/24 09:32	05/07/24 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 244*	*05/07/24 09:32*	*05/07/24 12:37*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.021		mg/Kg		05/07/24 09:32	05/07/24 12:37	1
Ethylbenzene	ND		0.041		mg/Kg		05/07/24 09:32	05/07/24 12:37	1
Toluene	ND		0.041		mg/Kg		05/07/24 09:32	05/07/24 12:37	1
Xylenes, Total	ND		0.082		mg/Kg		05/07/24 09:32	05/07/24 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*39 - 146*	*05/07/24 09:32*	*05/07/24 12:37*	*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		9.2		mg/Kg		05/07/24 08:53	05/07/24 11:20	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		05/07/24 08:53	05/07/24 11:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*05/07/24 08:53*	*05/07/24 11:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/07/24 10:09	05/07/24 19:06	20

Client Sample Results

Client: Ensolum
Job ID: 885-3962-1
Project/Site: Lateral 2B-1 (4/30/24)

Client Sample ID: S-4
Lab Sample ID: 885-3962-4
Date Collected: 05/06/24 09:55
Matrix: Solid
Date Received: 05/07/24 07:40

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.7		mg/Kg		05/07/24 09:32	05/07/24 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*15 - 244*	*05/07/24 09:32*	*05/07/24 12:59*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019		mg/Kg		05/07/24 09:32	05/07/24 12:59	1
Ethylbenzene	ND		0.037		mg/Kg		05/07/24 09:32	05/07/24 12:59	1
Toluene	ND		0.037		mg/Kg		05/07/24 09:32	05/07/24 12:59	1
Xylenes, Total	ND		0.074		mg/Kg		05/07/24 09:32	05/07/24 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*39 - 146*	*05/07/24 09:32*	*05/07/24 12:59*	*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		9.6		mg/Kg		05/07/24 08:53	05/07/24 11:33	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		05/07/24 08:53	05/07/24 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*05/07/24 08:53*	*05/07/24 11:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/07/24 10:09	05/07/24 19:21	20

Client Sample Results

Client: Ensolum
Job ID: 885-3962-1
Project/Site: Lateral 2B-1 (4/30/24)

Client Sample ID: S-5
Lab Sample ID: 885-3962-5
Date Collected: 05/06/24 12:50
Matrix: Solid
Date Received: 05/07/24 07:40

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		05/07/24 09:32	05/07/24 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 244*	*05/07/24 09:32*	*05/07/24 13:21*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.017		mg/Kg		05/07/24 09:32	05/07/24 13:21	1
Ethylbenzene	ND		0.034		mg/Kg		05/07/24 09:32	05/07/24 13:21	1
Toluene	ND		0.034		mg/Kg		05/07/24 09:32	05/07/24 13:21	1
Xylenes, Total	ND		0.068		mg/Kg		05/07/24 09:32	05/07/24 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*39 - 146*	*05/07/24 09:32*	*05/07/24 13:21*	*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		8.5		mg/Kg		05/07/24 08:53	05/07/24 11:45	1
Motor Oil Range Organics [C28-C40]	ND		42		mg/Kg		05/07/24 08:53	05/07/24 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*05/07/24 08:53*	*05/07/24 11:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/07/24 10:09	05/07/24 19:36	20

Client Sample Results

Client: Ensolum
Job ID: 885-3962-1
Project/Site: Lateral 2B-1 (4/30/24)

Client Sample ID: S-6
Lab Sample ID: 885-3962-6
Date Collected: 05/06/24 12:55
Matrix: Solid
Date Received: 05/07/24 07:40

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.1		mg/Kg		05/07/24 09:32	05/07/24 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 244*	*05/07/24 09:32*	*05/07/24 13:42*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		05/07/24 09:32	05/07/24 13:42	1
Ethylbenzene	ND		0.041		mg/Kg		05/07/24 09:32	05/07/24 13:42	1
Toluene	ND		0.041		mg/Kg		05/07/24 09:32	05/07/24 13:42	1
Xylenes, Total	ND		0.082		mg/Kg		05/07/24 09:32	05/07/24 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*39 - 146*	*05/07/24 09:32*	*05/07/24 13:42*	*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		9.4		mg/Kg		05/07/24 08:53	05/07/24 11:57	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		05/07/24 08:53	05/07/24 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*05/07/24 08:53*	*05/07/24 11:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		05/07/24 10:09	05/07/24 19:52	20

QC Sample Results

Client: Ensolum
Project/Site: Lateral 2B-1 (4/30/24)

Job ID: 885-3962-1

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

Lab Sample ID: MB 885-4477/1-A
Matrix: Solid
Analysis Batch: 4529

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4477

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		05/07/24 09:32	05/07/24 11:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*15 - 244*	*05/07/24 09:32*	*05/07/24 11:32*	*1*

Lab Sample ID: LCS 885-4477/2-A
Matrix: Solid
Analysis Batch: 4529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4477

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	23.6		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*221*		*15 - 244*

Lab Sample ID: 885-3962-1 MS
Matrix: Solid
Analysis Batch: 4529

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 4477

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		19.4	17.9		mg/Kg		92	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*221*		*15 - 244*

Lab Sample ID: 885-3962-1 MSD
Matrix: Solid
Analysis Batch: 4529

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 4477

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		19.4	17.8		mg/Kg		92	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*210*		*15 - 244*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-4477/1-A
Matrix: Solid
Analysis Batch: 4530

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4477

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		05/07/24 09:32	05/07/24 11:32	1
Ethylbenzene	ND		0.050		mg/Kg		05/07/24 09:32	05/07/24 11:32	1
Toluene	ND		0.050		mg/Kg		05/07/24 09:32	05/07/24 11:32	1

QC Sample Results

Client: Ensolum
Project/Site: Lateral 2B-1 (4/30/24)

Job ID: 885-3962-1

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

Lab Sample ID: MB 885-4477/1-A
Matrix: Solid
Analysis Batch: 4530

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4477

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		05/07/24 09:32	05/07/24 11:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*39 - 146*	*05/07/24 09:32*	*05/07/24 11:32*	*1*

Lab Sample ID: LCS 885-4477/3-A
Matrix: Solid
Analysis Batch: 4530

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4477

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.881		mg/Kg		88	70 - 130		
Ethylbenzene			1.00	0.914		mg/Kg		91	70 - 130		
Toluene			1.00	0.895		mg/Kg		90	70 - 130		
Xylenes, Total			3.00	2.77		mg/Kg		92	70 - 130		

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

Lab Sample ID: 885-3962-2 MS
Matrix: Solid
Analysis Batch: 4530

Client Sample ID: S-2
Prep Type: Total/NA
Prep Batch: 4477

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.742	0.611		mg/Kg		82	70 - 130		
Ethylbenzene	ND		0.742	0.627		mg/Kg		84	70 - 130		
Toluene	ND		0.742	0.623		mg/Kg		84	70 - 130		
Xylenes, Total	ND		2.23	1.87		mg/Kg		84	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*39 - 146*

Lab Sample ID: 885-3962-2 MSD
Matrix: Solid
Analysis Batch: 4530

Client Sample ID: S-2
Prep Type: Total/NA
Prep Batch: 4477

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.742	0.622		mg/Kg		84	70 - 130	2	20
Ethylbenzene	ND		0.742	0.630		mg/Kg		85	70 - 130	1	20
Toluene	ND		0.742	0.628		mg/Kg		85	70 - 130	1	20
Xylenes, Total	ND		2.23	1.88		mg/Kg		84	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*84*		*39 - 146*

QC Sample Results

Client: Ensolum
Project/Site: Lateral 2B-1 (4/30/24)

Job ID: 885-3962-1

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

Lab Sample ID: MB 885-4470/1-A
Matrix: Solid
Analysis Batch: 4522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4470

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		05/07/24 08:53	05/07/24 10:31	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		05/07/24 08:53	05/07/24 10:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*05/07/24 08:53*	*05/07/24 10:31*	*1*

Lab Sample ID: LCS 885-4470/2-A
Matrix: Solid
Analysis Batch: 4522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4470

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

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-4483/1-A
Matrix: Solid
Analysis Batch: 4548

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4483

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5		mg/Kg		05/07/24 10:09	05/07/24 14:46	1

Lab Sample ID: LCS 885-4483/2-A
Matrix: Solid
Analysis Batch: 4548

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4483

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			15.0	13.8		mg/Kg		92	90 - 110		

QC Association Summary

Client: Ensolum
Job ID: 885-3962-1
Project/Site: Lateral 2B-1 (4/30/24)

GC VOA

Prep Batch: 4477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3962-1	S-1	Total/NA	Solid	5035	
885-3962-2	S-2	Total/NA	Solid	5035	
885-3962-3	S-3	Total/NA	Solid	5035	
885-3962-4	S-4	Total/NA	Solid	5035	
885-3962-5	S-5	Total/NA	Solid	5035	
885-3962-6	S-6	Total/NA	Solid	5035	
MB 885-4477/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-4477/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-4477/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-3962-1 MS	S-1	Total/NA	Solid	5035	
885-3962-1 MSD	S-1	Total/NA	Solid	5035	
885-3962-2 MS	S-2	Total/NA	Solid	5035	
885-3962-2 MSD	S-2	Total/NA	Solid	5035	

Analysis Batch: 4529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3962-1	S-1	Total/NA	Solid	8015D	4477
885-3962-2	S-2	Total/NA	Solid	8015D	4477
885-3962-3	S-3	Total/NA	Solid	8015D	4477
885-3962-4	S-4	Total/NA	Solid	8015D	4477
885-3962-5	S-5	Total/NA	Solid	8015D	4477
885-3962-6	S-6	Total/NA	Solid	8015D	4477
MB 885-4477/1-A	Method Blank	Total/NA	Solid	8015D	4477
LCS 885-4477/2-A	Lab Control Sample	Total/NA	Solid	8015D	4477
885-3962-1 MS	S-1	Total/NA	Solid	8015D	4477
885-3962-1 MSD	S-1	Total/NA	Solid	8015D	4477

Analysis Batch: 4530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3962-1	S-1	Total/NA	Solid	8021B	4477
885-3962-2	S-2	Total/NA	Solid	8021B	4477
885-3962-3	S-3	Total/NA	Solid	8021B	4477
885-3962-4	S-4	Total/NA	Solid	8021B	4477
885-3962-5	S-5	Total/NA	Solid	8021B	4477
885-3962-6	S-6	Total/NA	Solid	8021B	4477
MB 885-4477/1-A	Method Blank	Total/NA	Solid	8021B	4477
LCS 885-4477/3-A	Lab Control Sample	Total/NA	Solid	8021B	4477
885-3962-2 MS	S-2	Total/NA	Solid	8021B	4477
885-3962-2 MSD	S-2	Total/NA	Solid	8021B	4477

GC Semi VOA

Prep Batch: 4470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3962-1	S-1	Total/NA	Solid	SHAKE	
885-3962-2	S-2	Total/NA	Solid	SHAKE	
885-3962-3	S-3	Total/NA	Solid	SHAKE	
885-3962-4	S-4	Total/NA	Solid	SHAKE	
885-3962-5	S-5	Total/NA	Solid	SHAKE	
885-3962-6	S-6	Total/NA	Solid	SHAKE	
MB 885-4470/1-A	Method Blank	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ensolum
Job ID: 885-3962-1
Project/Site: Lateral 2B-1 (4/30/24)

GC Semi VOA (Continued)

Prep Batch: 4470 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-4470/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 4522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3962-1	S-1	Total/NA	Solid	8015D	4470
885-3962-2	S-2	Total/NA	Solid	8015D	4470
885-3962-3	S-3	Total/NA	Solid	8015D	4470
885-3962-4	S-4	Total/NA	Solid	8015D	4470
885-3962-5	S-5	Total/NA	Solid	8015D	4470
885-3962-6	S-6	Total/NA	Solid	8015D	4470
MB 885-4470/1-A	Method Blank	Total/NA	Solid	8015D	4470
LCS 885-4470/2-A	Lab Control Sample	Total/NA	Solid	8015D	4470

HPLC/IC

Prep Batch: 4483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3962-1	S-1	Total/NA	Solid	300_Prep	
885-3962-2	S-2	Total/NA	Solid	300_Prep	
885-3962-3	S-3	Total/NA	Solid	300_Prep	
885-3962-4	S-4	Total/NA	Solid	300_Prep	
885-3962-5	S-5	Total/NA	Solid	300_Prep	
885-3962-6	S-6	Total/NA	Solid	300_Prep	
MB 885-4483/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-4483/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 4548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3962-1	S-1	Total/NA	Solid	300.0	4483
885-3962-2	S-2	Total/NA	Solid	300.0	4483
885-3962-3	S-3	Total/NA	Solid	300.0	4483
885-3962-4	S-4	Total/NA	Solid	300.0	4483
885-3962-5	S-5	Total/NA	Solid	300.0	4483
885-3962-6	S-6	Total/NA	Solid	300.0	4483
MB 885-4483/1-A	Method Blank	Total/NA	Solid	300.0	4483
LCS 885-4483/2-A	Lab Control Sample	Total/NA	Solid	300.0	4483

Lab Chronicle

Client: Ensolum
Job ID: 885-3962-1
Project/Site: Lateral 2B-1 (4/30/24)

Client Sample ID: S-1
Lab Sample ID: 885-3962-1
Date Collected: 05/06/24 09:40
Matrix: Solid
Date Received: 05/07/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			4477	JP	EET ALB	05/07/24 09:32
Total/NA	Analysis	8015D		1	4529	JP	EET ALB	05/07/24 11:54
Total/NA	Prep	5035			4477	JP	EET ALB	05/07/24 09:32
Total/NA	Analysis	8021B		1	4530	JP	EET ALB	05/07/24 11:54
Total/NA	Prep	SHAKE			4470	PD	EET ALB	05/07/24 08:53
Total/NA	Analysis	8015D		1	4522	JU	EET ALB	05/07/24 10:56
Total/NA	Prep	300_Prep			4483	RC	EET ALB	05/07/24 10:09
Total/NA	Analysis	300.0		20	4548	RC	EET ALB	05/07/24 18:36

Client Sample ID: S-2
Lab Sample ID: 885-3962-2
Date Collected: 05/06/24 09:45
Matrix: Solid
Date Received: 05/07/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			4477	JP	EET ALB	05/07/24 09:32
Total/NA	Analysis	8015D		1	4529	JP	EET ALB	05/07/24 12:15
Total/NA	Prep	5035			4477	JP	EET ALB	05/07/24 09:32
Total/NA	Analysis	8021B		1	4530	JP	EET ALB	05/07/24 12:15
Total/NA	Prep	SHAKE			4470	PD	EET ALB	05/07/24 08:53
Total/NA	Analysis	8015D		1	4522	JU	EET ALB	05/07/24 11:08
Total/NA	Prep	300_Prep			4483	RC	EET ALB	05/07/24 10:09
Total/NA	Analysis	300.0		20	4548	RC	EET ALB	05/07/24 18:51

Client Sample ID: S-3
Lab Sample ID: 885-3962-3
Date Collected: 05/06/24 09:50
Matrix: Solid
Date Received: 05/07/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			4477	JP	EET ALB	05/07/24 09:32
Total/NA	Analysis	8015D		1	4529	JP	EET ALB	05/07/24 12:37
Total/NA	Prep	5035			4477	JP	EET ALB	05/07/24 09:32
Total/NA	Analysis	8021B		1	4530	JP	EET ALB	05/07/24 12:37
Total/NA	Prep	SHAKE			4470	PD	EET ALB	05/07/24 08:53
Total/NA	Analysis	8015D		1	4522	JU	EET ALB	05/07/24 11:20
Total/NA	Prep	300_Prep			4483	RC	EET ALB	05/07/24 10:09
Total/NA	Analysis	300.0		20	4548	RC	EET ALB	05/07/24 19:06

Client Sample ID: S-4
Lab Sample ID: 885-3962-4
Date Collected: 05/06/24 09:55
Matrix: Solid
Date Received: 05/07/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			4477	JP	EET ALB	05/07/24 09:32
Total/NA	Analysis	8015D		1	4529	JP	EET ALB	05/07/24 12:59

Lab Chronicle

Client: Ensolum
Job ID: 885-3962-1
Project/Site: Lateral 2B-1 (4/30/24)

Client Sample ID: S-4
Lab Sample ID: 885-3962-4
Date Collected: 05/06/24 09:55
Matrix: Solid
Date Received: 05/07/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			4477	JP	EET ALB	05/07/24 09:32
Total/NA	Analysis	8021B		1	4530	JP	EET ALB	05/07/24 12:59
Total/NA	Prep	SHAKE			4470	PD	EET ALB	05/07/24 08:53
Total/NA	Analysis	8015D		1	4522	JU	EET ALB	05/07/24 11:33
Total/NA	Prep	300_Prep			4483	RC	EET ALB	05/07/24 10:09
Total/NA	Analysis	300.0		20	4548	RC	EET ALB	05/07/24 19:21

Client Sample ID: S-5
Lab Sample ID: 885-3962-5
Date Collected: 05/06/24 12:50
Matrix: Solid
Date Received: 05/07/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			4477	JP	EET ALB	05/07/24 09:32
Total/NA	Analysis	8015D		1	4529	JP	EET ALB	05/07/24 13:21
Total/NA	Prep	5035			4477	JP	EET ALB	05/07/24 09:32
Total/NA	Analysis	8021B		1	4530	JP	EET ALB	05/07/24 13:21
Total/NA	Prep	SHAKE			4470	PD	EET ALB	05/07/24 08:53
Total/NA	Analysis	8015D		1	4522	JU	EET ALB	05/07/24 11:45
Total/NA	Prep	300_Prep			4483	RC	EET ALB	05/07/24 10:09
Total/NA	Analysis	300.0		20	4548	RC	EET ALB	05/07/24 19:36

Client Sample ID: S-6
Lab Sample ID: 885-3962-6
Date Collected: 05/06/24 12:55
Matrix: Solid
Date Received: 05/07/24 07:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			4477	JP	EET ALB	05/07/24 09:32
Total/NA	Analysis	8015D		1	4529	JP	EET ALB	05/07/24 13:42
Total/NA	Prep	5035			4477	JP	EET ALB	05/07/24 09:32
Total/NA	Analysis	8021B		1	4530	JP	EET ALB	05/07/24 13:42
Total/NA	Prep	SHAKE			4470	PD	EET ALB	05/07/24 08:53
Total/NA	Analysis	8015D		1	4522	JU	EET ALB	05/07/24 11:57
Total/NA	Prep	300_Prep			4483	RC	EET ALB	05/07/24 10:09
Total/NA	Analysis	300.0		20	4548	RC	EET ALB	05/07/24 19:52

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Job ID: 885-3962-1
Project/Site: Lateral 2B-1 (4/30/24)

Laboratory: Eurofins Albuquerque

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

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

Chain-of-Custody Record

Client: Ensolum, LLC

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

Phone #:

email or Fax#: kssummers@ensolum.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush 100% Same Day

Project Name: Lateral 2B-1 (4-30-24)

Project #: SEE NOTES

Project Manager: K. Summers

Sampler: L. Daniel

On Ice: ☑ Yes ☐ No

# of Coolers: 1 4oz

Cooler Temp(including CF): 3.8+0.1=3.7 (°C)

HALL ENVIRONMENTAL ANALYSIS LABO
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87...
Tel. 505-345-3975 Fax 505-345-4107

885-3962 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / ~~MTBE~~ / ~~TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
5/6/24	9:40	S	S-1	1 4oz jar	Cool		X	X					X			
	9:45	S	S-2				X	X					X			
	9:50	S	S-3				X	X					X			
	9:55	S	S-4				X	X					X			
	12:50	S	S-5				X	X					X			
↓	12:55	S	S-6	↓	↓		X	X					X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/6/24	1524				5/6/24	1524
5/6/24	1750	Chant Walker		courier	5/7/24	7:40

Remarks: PM: Tom Long
Pay key: B321200
Non AFE # N73451
Same Day

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 885-3962-1
SDG Number:

Login Number: 3962
List Number: 1
Creator: McQuiston, Steven

List Source: Eurofins Albuquerque

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 365159

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 365159
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2412451499**
Incident Name	**NAPP2412451499 LATERAL 2B-1 @ 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	LATERAL 2B-1
Date Release Discovered	05/03/2024
Surface Owner	Navajo

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Cause: Corrosion | Pipeline (Any) | Condensate | Released: 5 BBL | Recovered: 0 BBL | Lost: 5 BBL.
Natural Gas Vented (Mcf) Details	Cause: Corrosion | Pipeline (Any) | Natural Gas Vented | Released: 17 MCF | Recovered: 0 MCF | Lost: 17 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: 365159
	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: 05/09/2024

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 365159
	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)	Between 26 and 50 (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 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (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	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	60
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0.1
GRO+DRO (EPA SW-846 Method 8015M)	13.5
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	05/03/2024
On what date will (or did) the final sampling or liner inspection occur	05/06/2024
On what date will (or was) the remediation complete(d)	05/07/2024
What is the estimated surface area (in square feet) that will be reclaimed	270
What is the estimated volume (in cubic yards) that will be reclaimed	268
What is the estimated surface area (in square feet) that will be remediated	270
What is the estimated volume (in cubic yards) that will be remediated	268
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: 365159
	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 #1 [fEEM0112334691]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 07/18/2024
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: 365159
	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: 365159
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**341028**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**05/07/2024**
What was the (estimated) number of samples that were to be gathered	**5**
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	270
What was the total volume (cubic yards) remediated	268
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	270
What was the total volume (in cubic yards) reclaimed	268
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: 07/18/2024

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

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

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 365159
	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 365159

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 365159
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CONDITIONS

Created By	Condition	Condition Date
scwells	Incident occurred on tribal land. App ID 365159 accepted for record.	7/22/2024