Enterprise Products

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

ENTERPRISE PRODUCTS OPERATING LLC

May 8, 2024

OCD Website

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

RE: Closure Report
Enterprise Field Services, LLC
Well Tie 74224/Lateral 2A-4
San Juan County, NM

Mr. Velez:

Enterprise Field Services, LLC is submitting the Closure Report for the Well Tie 74224/Lateral 2A-4 release that occurred on March 22, 2024.

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

Thank you,

Jon E. Fields
Director, Field Environmental

/bjm
Attachment

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

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

ENSOLUM

CLOSURE REPORT

Property:

Well Tie 74224/Lateral 2A-4 (3/26/24)
Unit Letter O, S13 T27N R10W
San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2408637670

May 3, 2024

Ensolum Project No. 05A1226314

Prepared for:

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

Prepared by:

Kyle Summers
Senior Managing Geologist

TABLE OF CONTENTS

LIST OF APPENDICES

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Well Tie 74224/Lateral 2A-4 (3/26/24) (Site)
NM EMNRD OCD Incident ID No.	NAPP2408637670
Location:	36.576253° North, 107.845995° West Unit Letter O, Section 13, Township 27 North, Range 10 West San Juan County, New Mexico
Property:	United States Bureau of Land Management
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On March 20, 2024, Enterprise personnel identified a release of natural gas and associated pipeline liquids from the 74224/Lateral 2A-4 well tie pipeline. Enterprise subsequently isolated and locked the pipeline out of service. On March 26, 2024, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact. Enterprise determined the release was "reportable" due to the potential volume of impacted soil. The NM EMNRD OCD was subsequently notified.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

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

- The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs were identified in the same Public Land Survey System (PLSS) section as the Site. One POD (SJ-04045-POD1) was identified in an adjacent PLSS section. The depth to water for the POD is 50 feet below grade surface (bgs). The POD is approximately 1.38 miles northwest of the site and approximately 153 feet lower in elevation than the Site (**Figure A**, **Appendix B**).

- Five cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the same PLSS section as the Site and in the adjacent PLSS sections. These CPWs are depicted in **Figure B** (**Appendix B**). The two closest CPWs (Knauff #1 and Hanks #5 and #11) are located less than one mile from the Site. Documentation for the cathodic protection well located near the Knauff #1 production pad indicates a depth to water of 150 feet bgs. This cathodic protection well is located approximately 0.37 miles northeast of the Site and is approximately 15 feet lower in elevation than the Site. Documentation for the cathodic protection well located near the Hanks #5 and #11 production pads indicates a depth to water of approximately 82 feet bgs. This cathodic protection well is located approximately 0.91 miles northeast of the Site and is approximately 43 feet higher in elevation than the Site.

- The Site is located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C**, **Appendix B**). The Site was approximately 288 feet from an ephemeral wash with regular high water flow marks.

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

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

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

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

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

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

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

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

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

Based on available, the closure criteria for soils remaining in place at the Site include:

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

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

3.0 SOIL REMEDIATION ACTIVITIES

On March 26, 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, Inc, provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 33 feet long and 15 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 12 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of consolidated to unconsolidated silty sandy clay underlain by sandstone.

Approximately 126 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 nine composite soil samples (S-1 through S-9) from the excavation for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft^2) or less sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. Hand tools were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

Sampling Event

On April 1, 2024, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-1 (12'), S-2 (12'), and S-3 (12') were collected from the floor of the excavation. Composite soil samples S-4 (0' to 12'), S-5 (0' to 12'), S-6 (0' to 12'), S-7 (0' to 12'), S-8 (0' to 12'), and S-9 (0' to 12') 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-9) to the applicable NM EMNRD OCD closure criteria. The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

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

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

- The laboratory analytical results for the composite soil samples indicate total combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 100 mg/kg.

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

7.0 RECLAMATION

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

8.0 FINDINGS AND RECOMMENDATION

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

- Approximately 126 yd^3 of petroleum hydrocarbon-affected soils were transported to the Envirotech landfarm for disposal/remediation.

- Enterprise requests deferment of final reclamation and revegetation at the Site to address the requirements of 19.15.29.13 NMAC until after the Site is no longer being utilized for oil and gas production/gathering.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Limitations

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

9.3 Reliance

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

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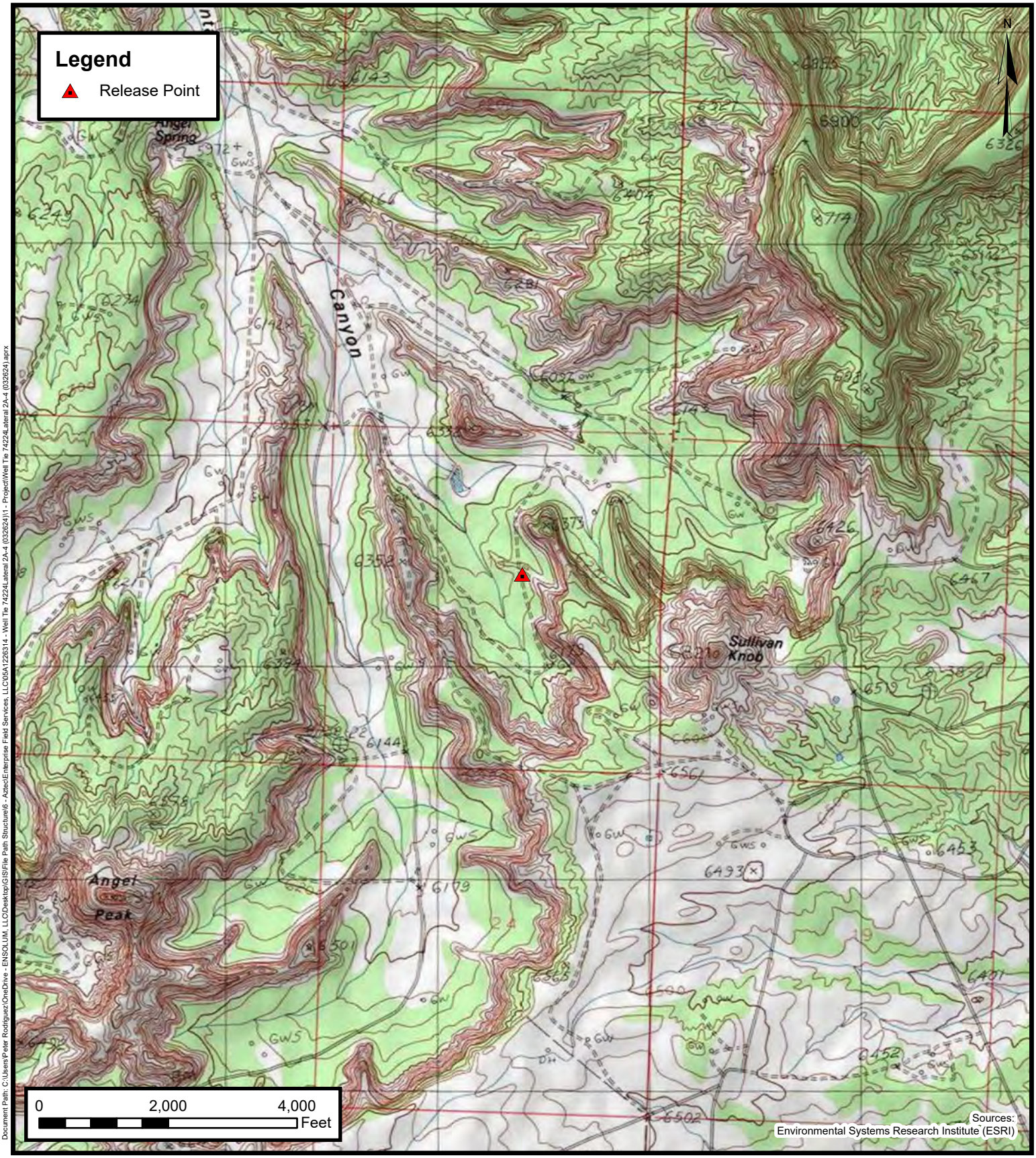
APPENDIX A

Figures



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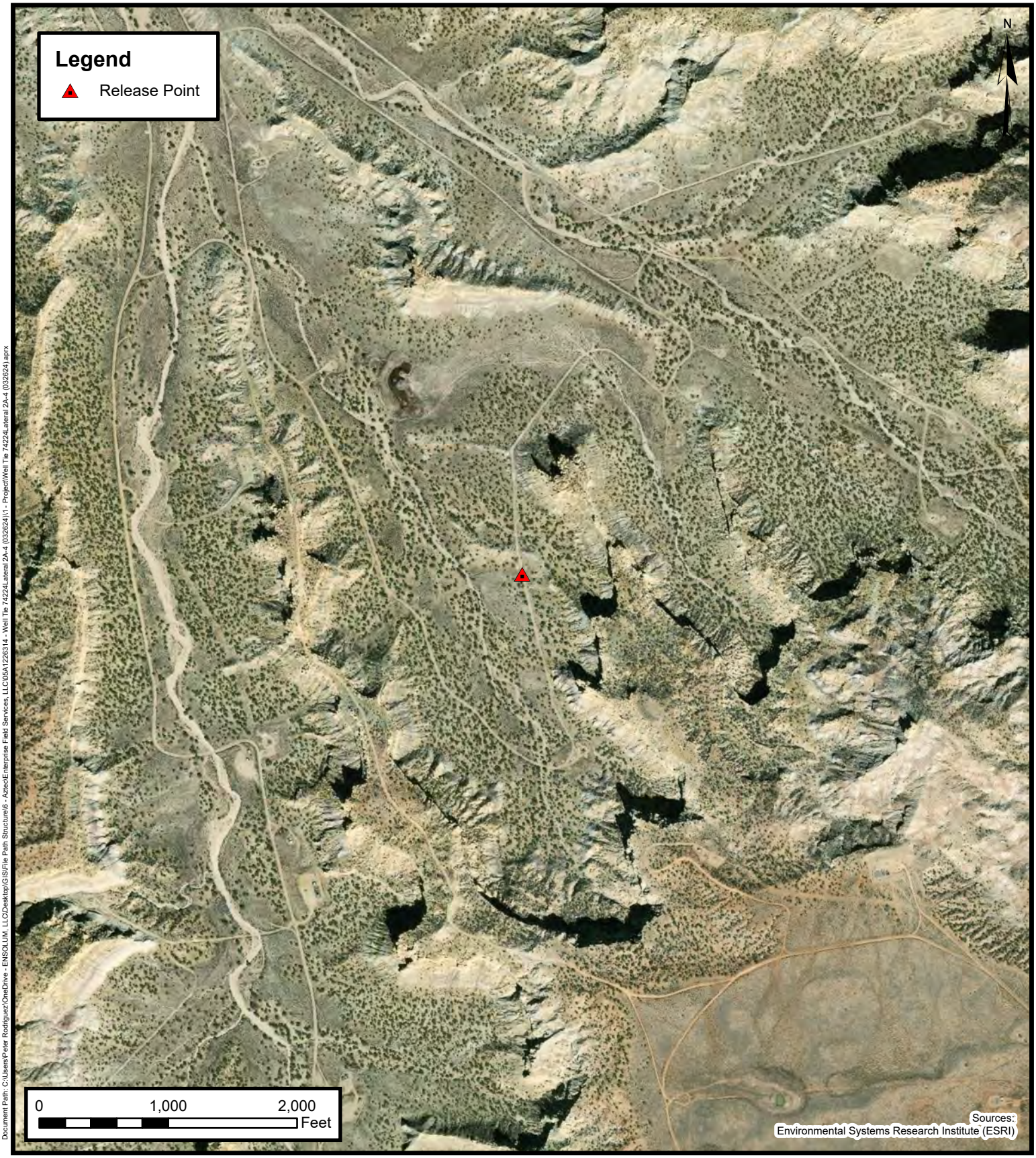
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Topographic Map

Enterprise Field Services, LLC
Well Tie 74224/Lateral 2A-4 (03/26/24)
Project Number: 05A1226314
Unit Letter O, S13 T27N R10W, San Juan County, New Mexico
36.576253, -107.845995

FIGURE
1



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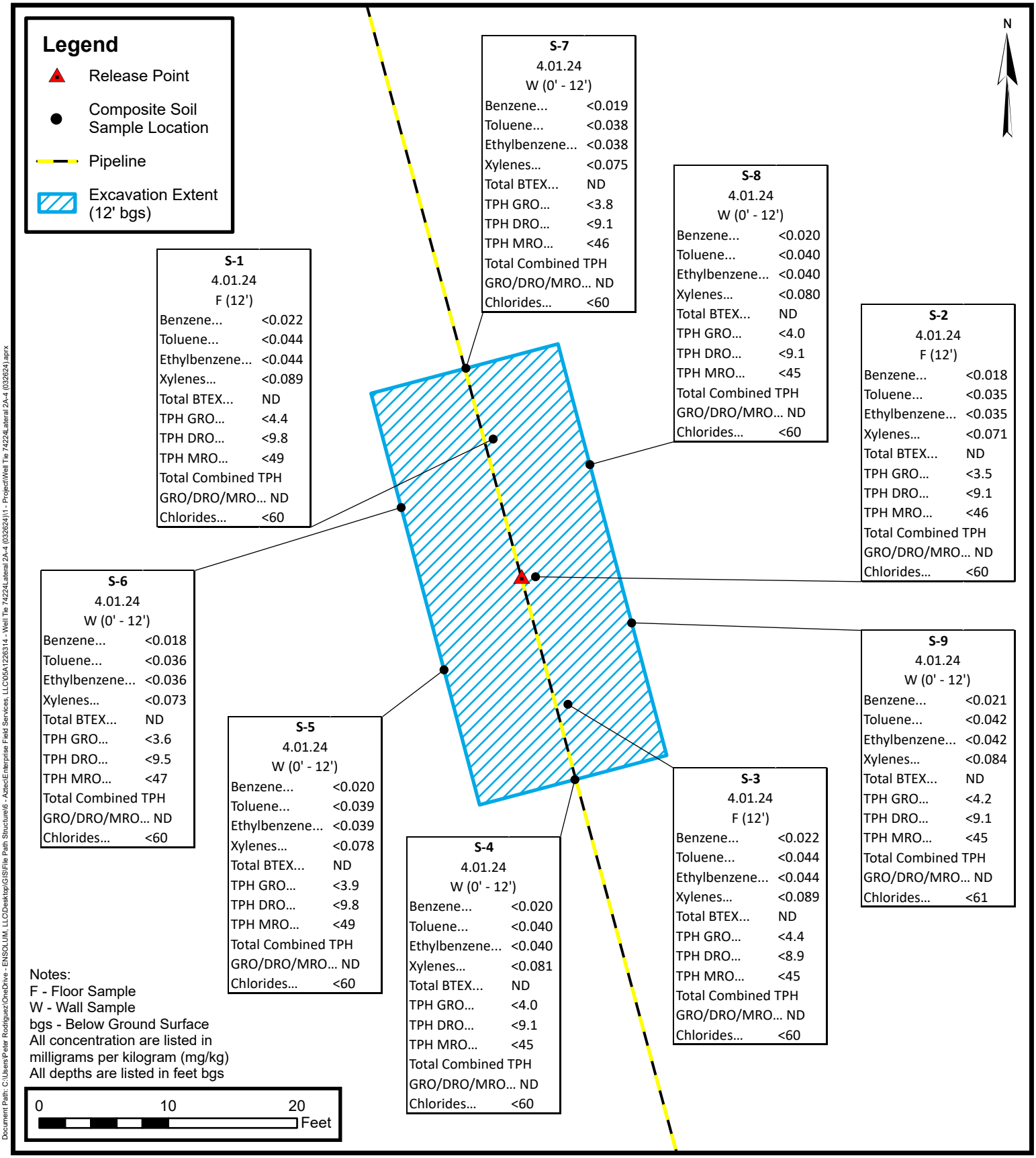
Environmental, Engineering and Hydrogeologic Consultants

Site Vicinity Map

Enterprise Field Services, LLC
Well Tie 74224/Lateral 2A-4 (03/26/24)
Project Number: 05A1226314
Unit Letter O, S13 T27N R10W, San Juan County, New Mexico
36.576253, -107.845995

FIGURE

2



ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Map with Soil Analytical Results

Enterprise Field Services, LLC
Well Tie 74224/Lateral 2A-4 (03/26/24)
Project Number: 05A1226314
Unit Letter O, S13 T27N R10W, San Juan County, New Mexico
36.576253, -107.845995

FIGURE
3

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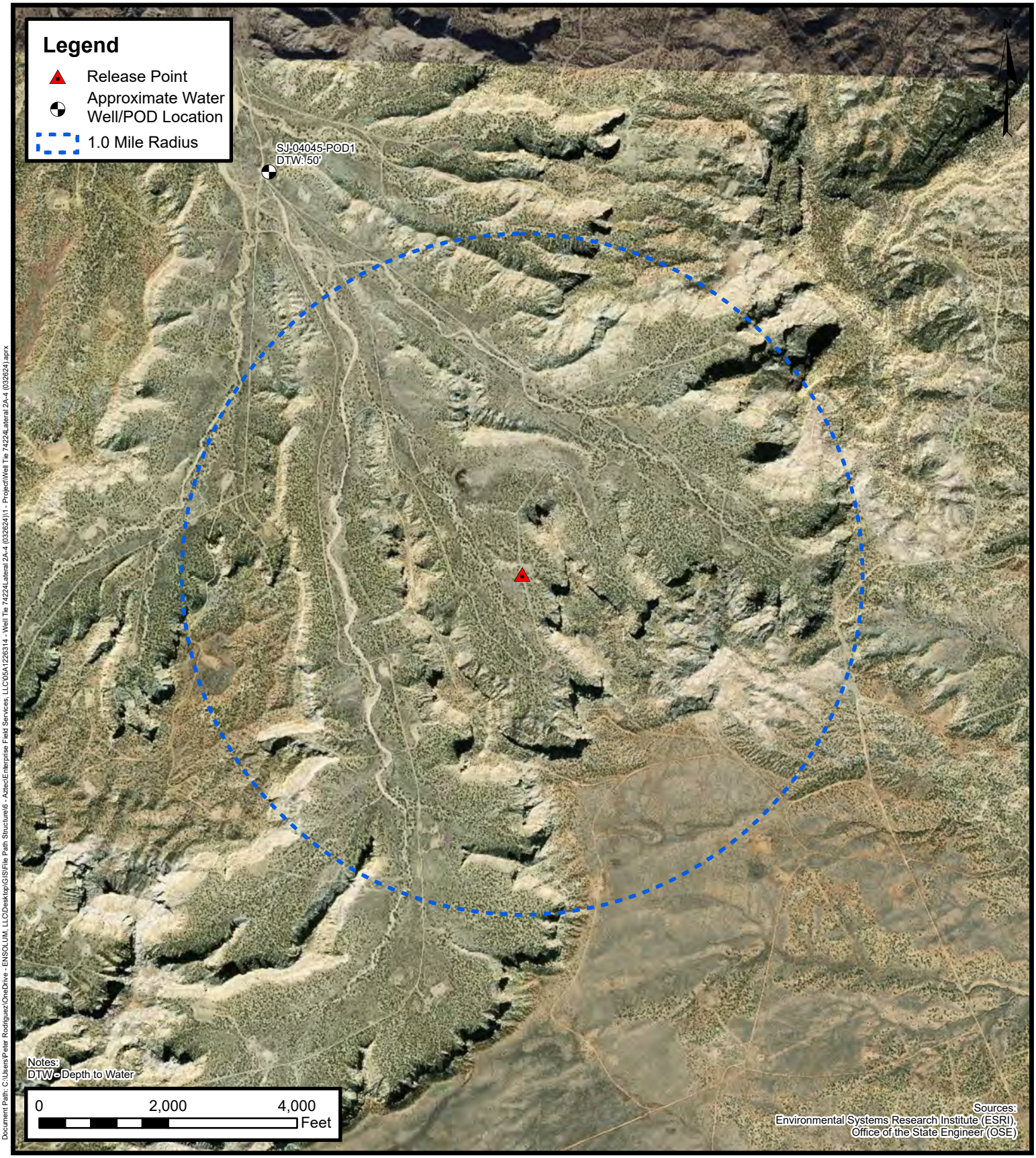
APPENDIX B

Siting Figures and Documentation



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Environmental, Engineering and Hydrogeologic Consultants

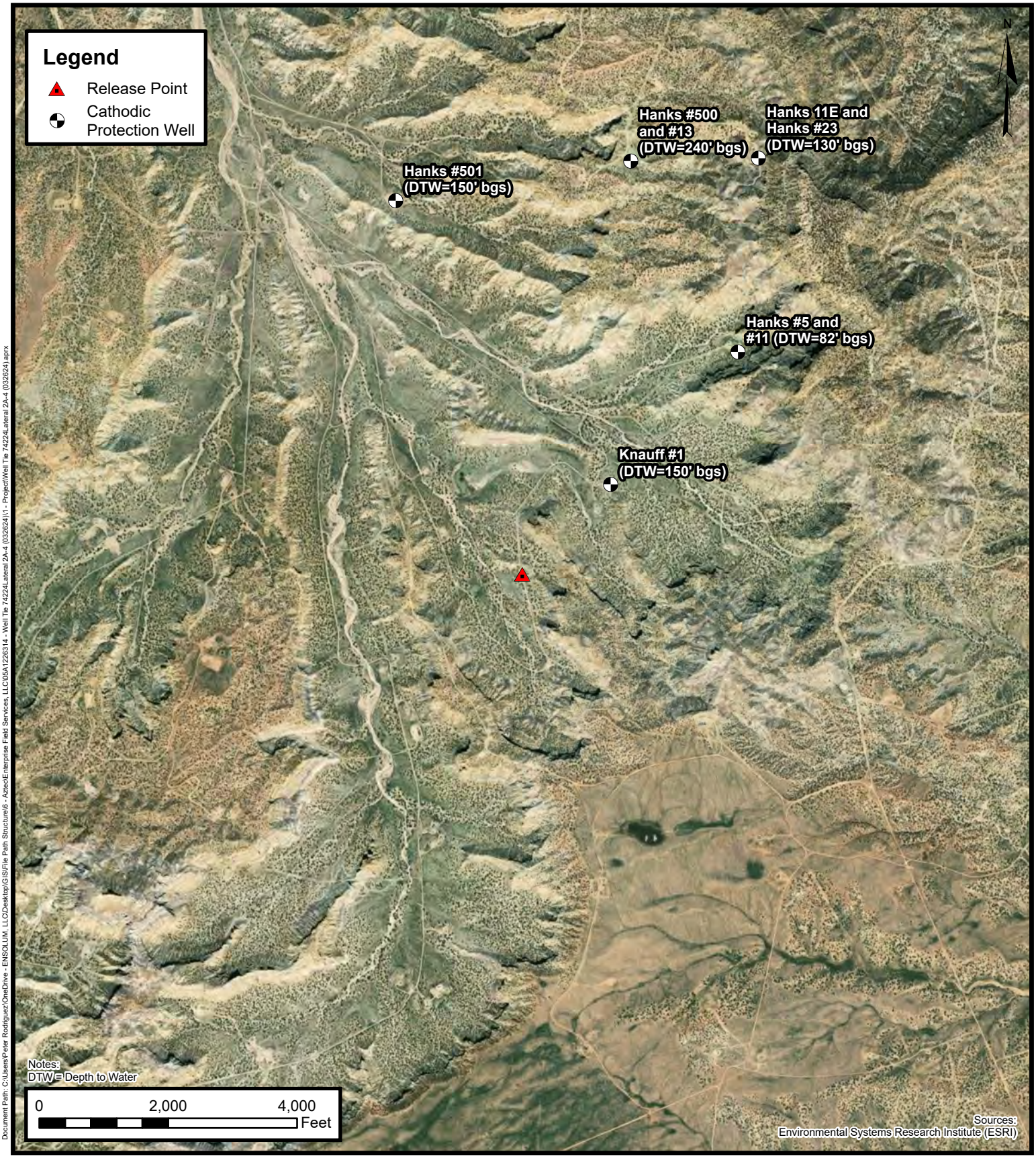
1.0 Mile Radius Water Well/POD Location Map

Enterprise Field Services, LLC
Well Tie 74224/Lateral 2A-4 (03/26/24)
Project Number: 05A1226314

Unit Letter O, S13 T27N R10W, San Juan County, New Mexico
36.576253, -107.845995

FIGURE

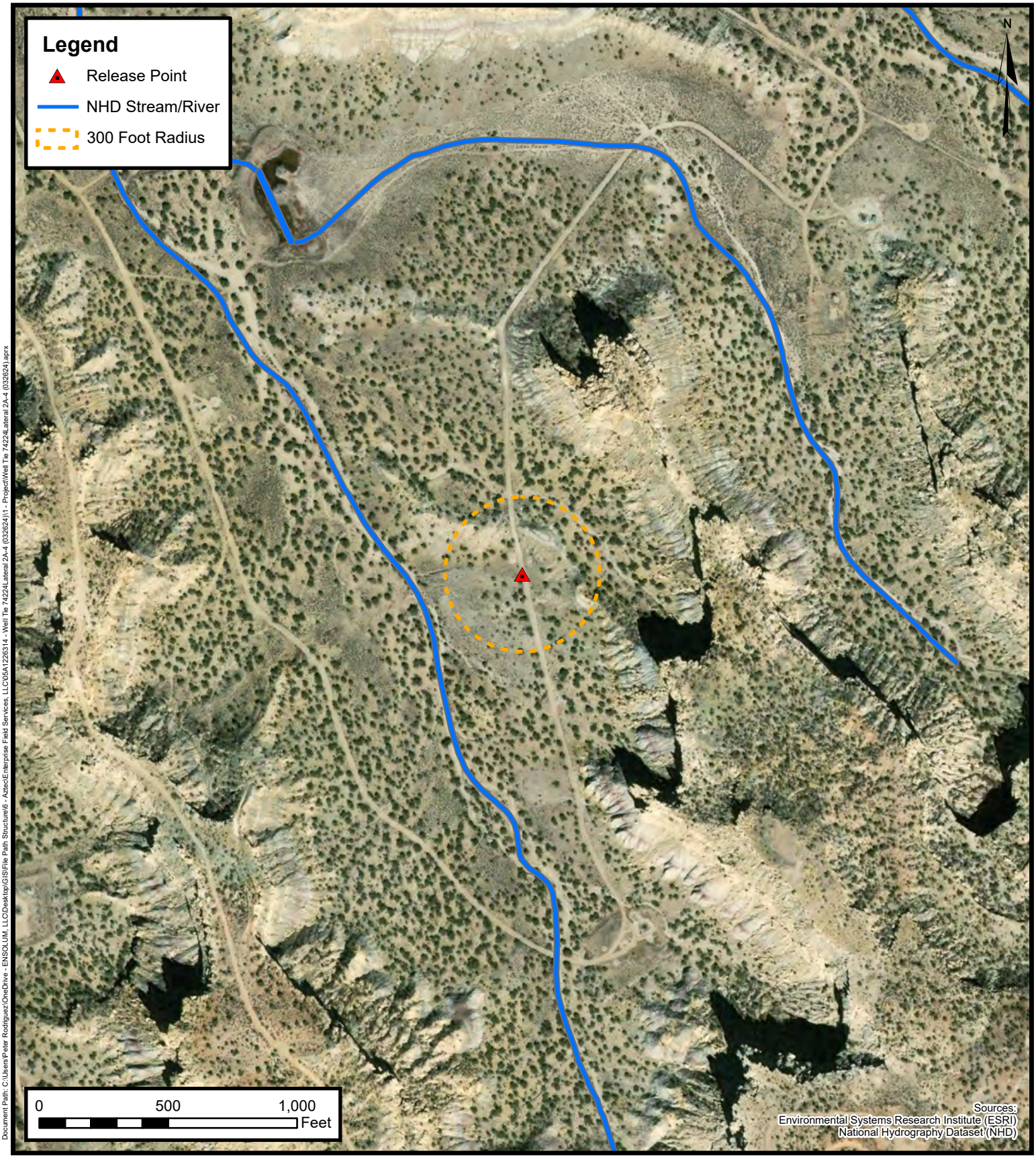
A



ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Cathodic Protection Well
Recorded Depth to Water
Enterprise Field Services, LLC
Well Tie 74224/Lateral 2A-4 (03/26/24)
Project Number: 05A1226314
Unit Letter O, S13 T27N R10W, San Juan County, New Mexico
36.576253, -107.845995

FIGURE
B



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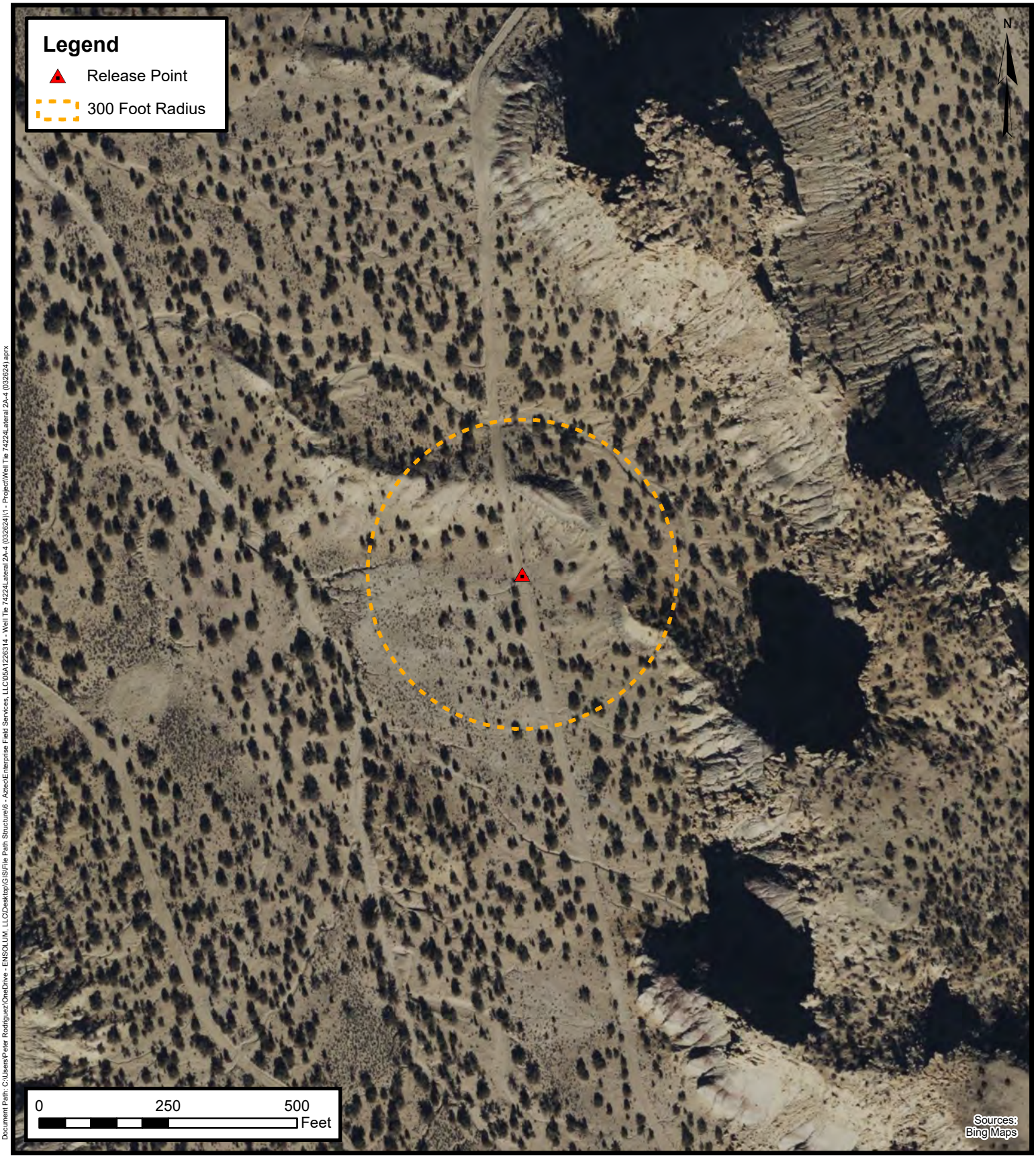
300 Foot Radius Watercourse and Drainage Identification

Enterprise Field Services, LLC
Well Tie 74224/Lateral 2A-4 (03/26/24)
Project Number: 05A1226314
Unit Letter O, S13 T27N R10W, San Juan County, New Mexico
36.576253, -107.845995

FIGURE

C



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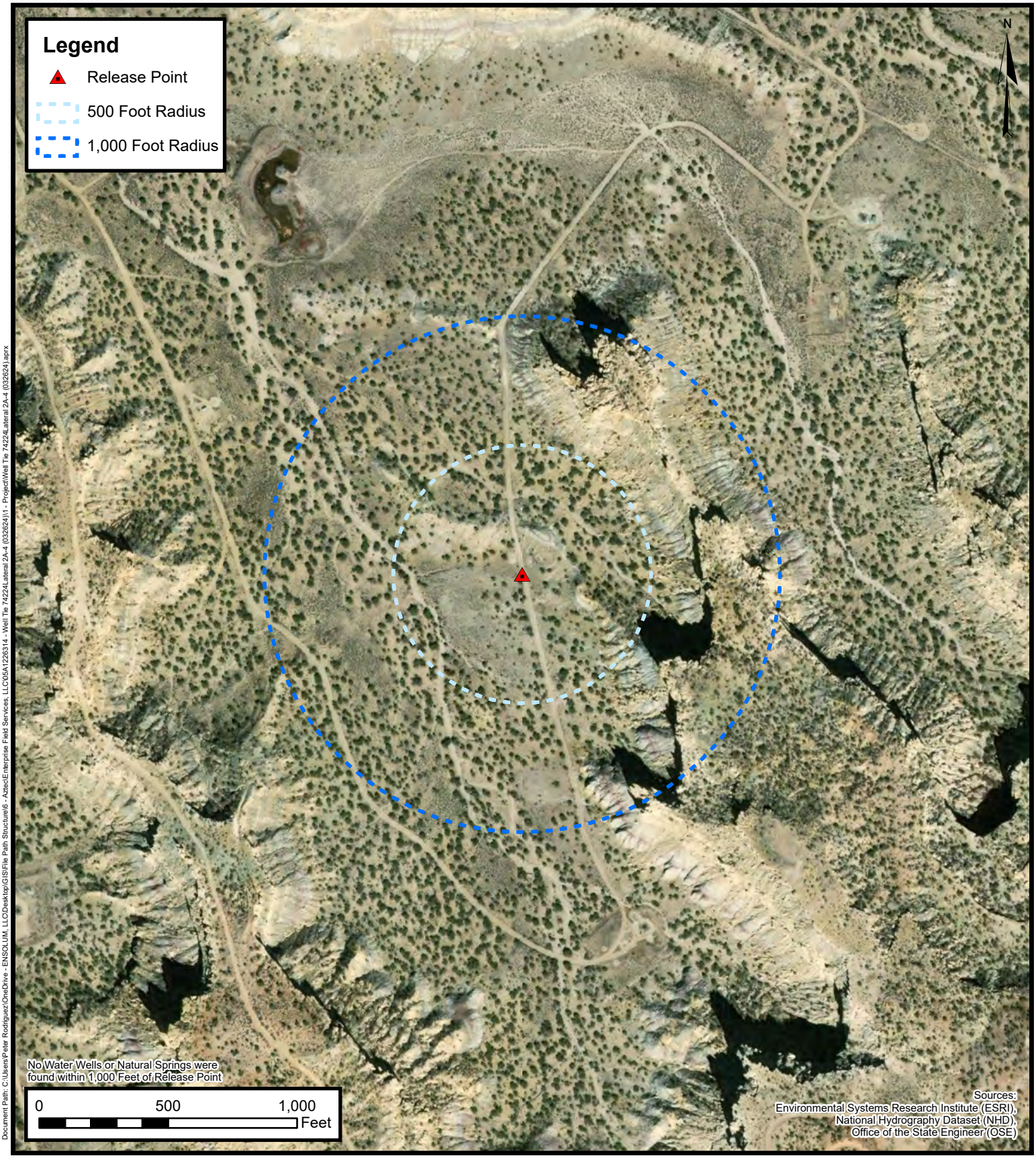
300 Foot Radius Occupied Structure Identification

Enterprise Field Services, LLC
Well Tie 74224/Lateral 2A-4 (03/26/24)
Project Number: 05A1226314
Unit Letter O, S13 T27N R10W, San Juan County, New Mexico
36.576253, -107.845995

FIGURE

D



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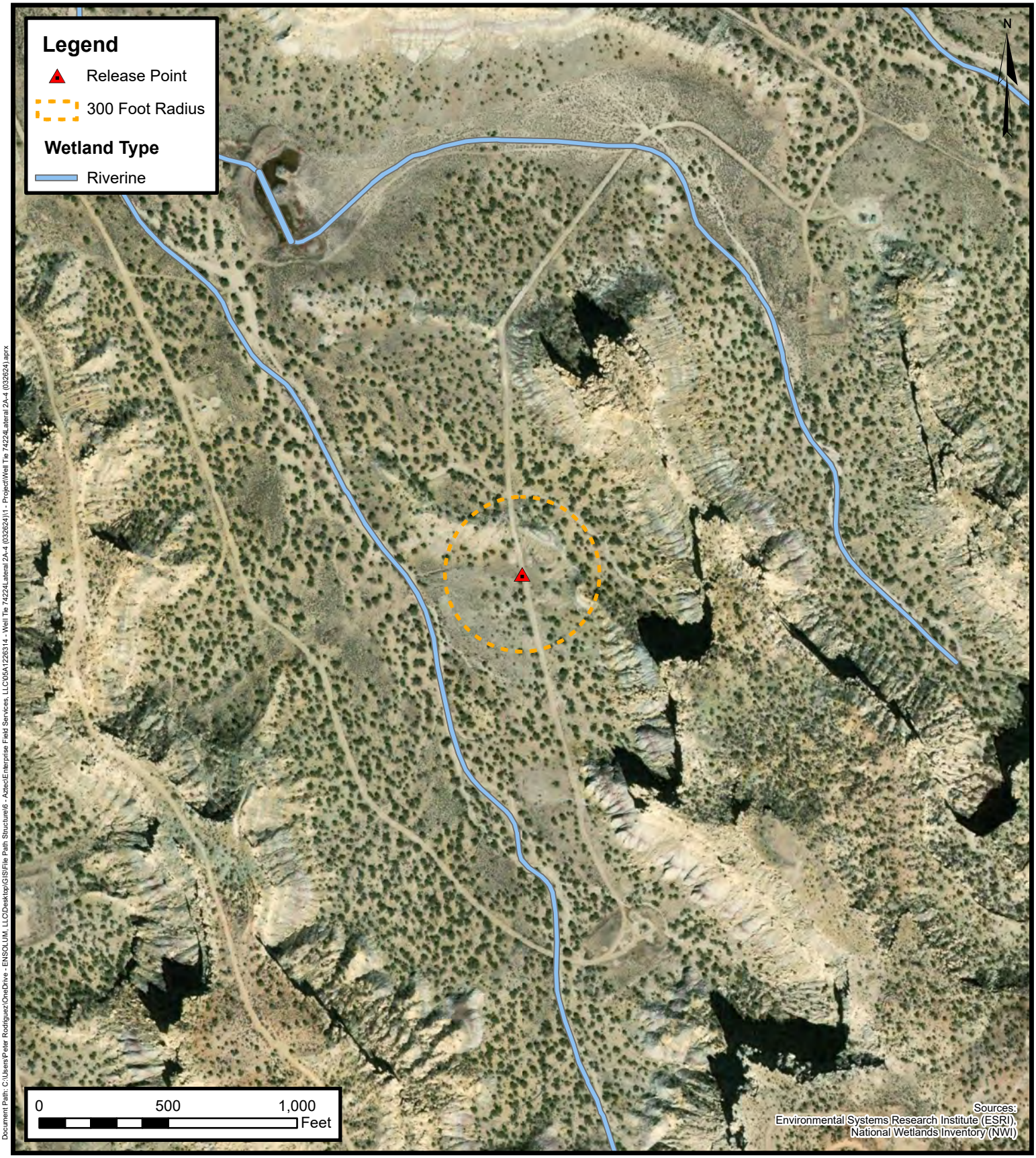
Water Well and Natural Spring Location

Enterprise Field Services, LLC
Well Tie 74224/Lateral 2A-4 (03/26/24)
Project Number: 05A1226314
Unit Letter O, S13 T27N R10W, San Juan County, New Mexico
36.576253, -107.845995

FIGURE

E



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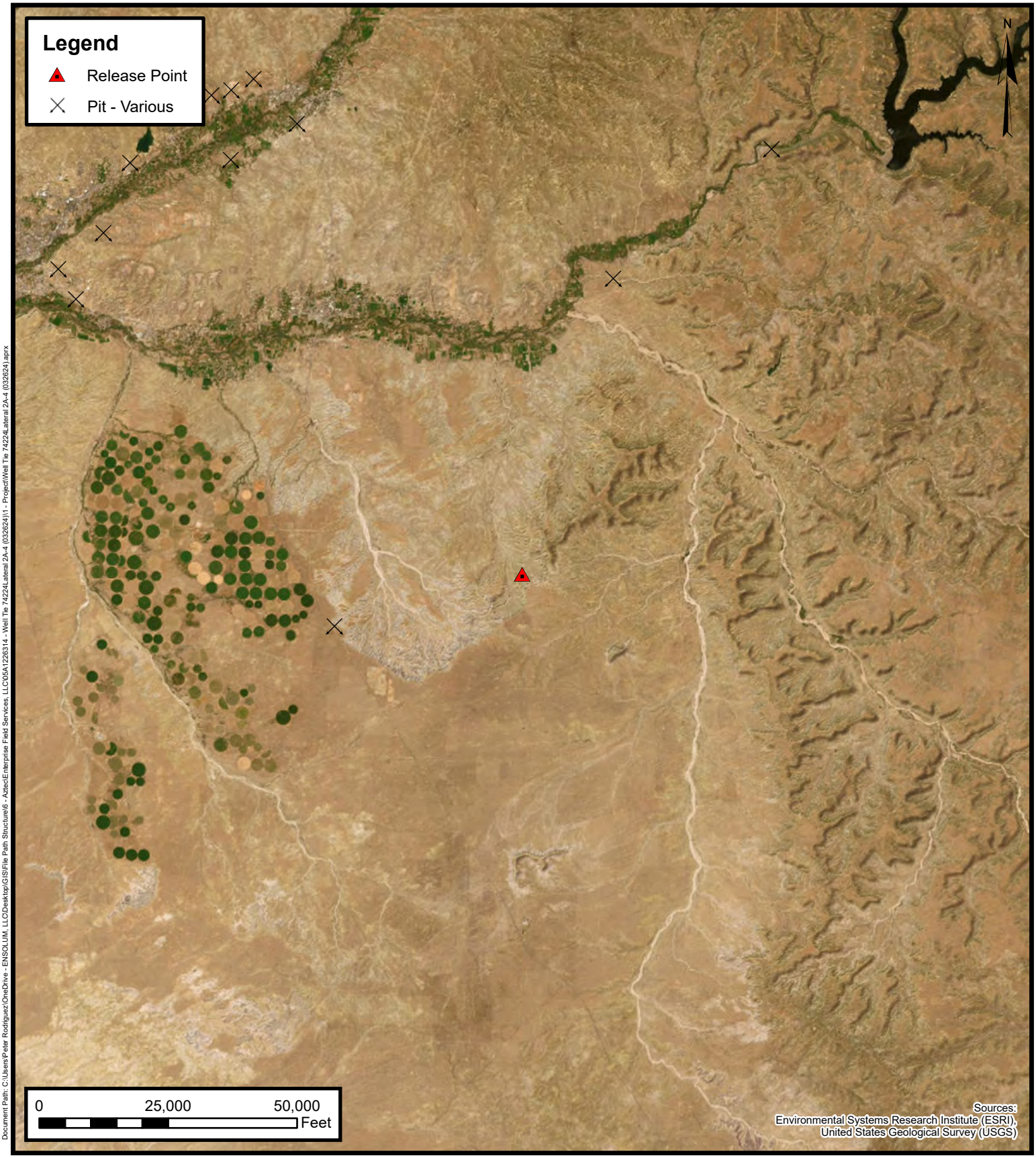
Wetlands

Enterprise Field Services, LLC
Well Tie 74224/Lateral 2A-4 (03/26/24)
Project Number: 05A1226314
Unit Letter O, S13 T27N R10W, San Juan County, New Mexico
36.576253, -107.845995

FIGURE

F



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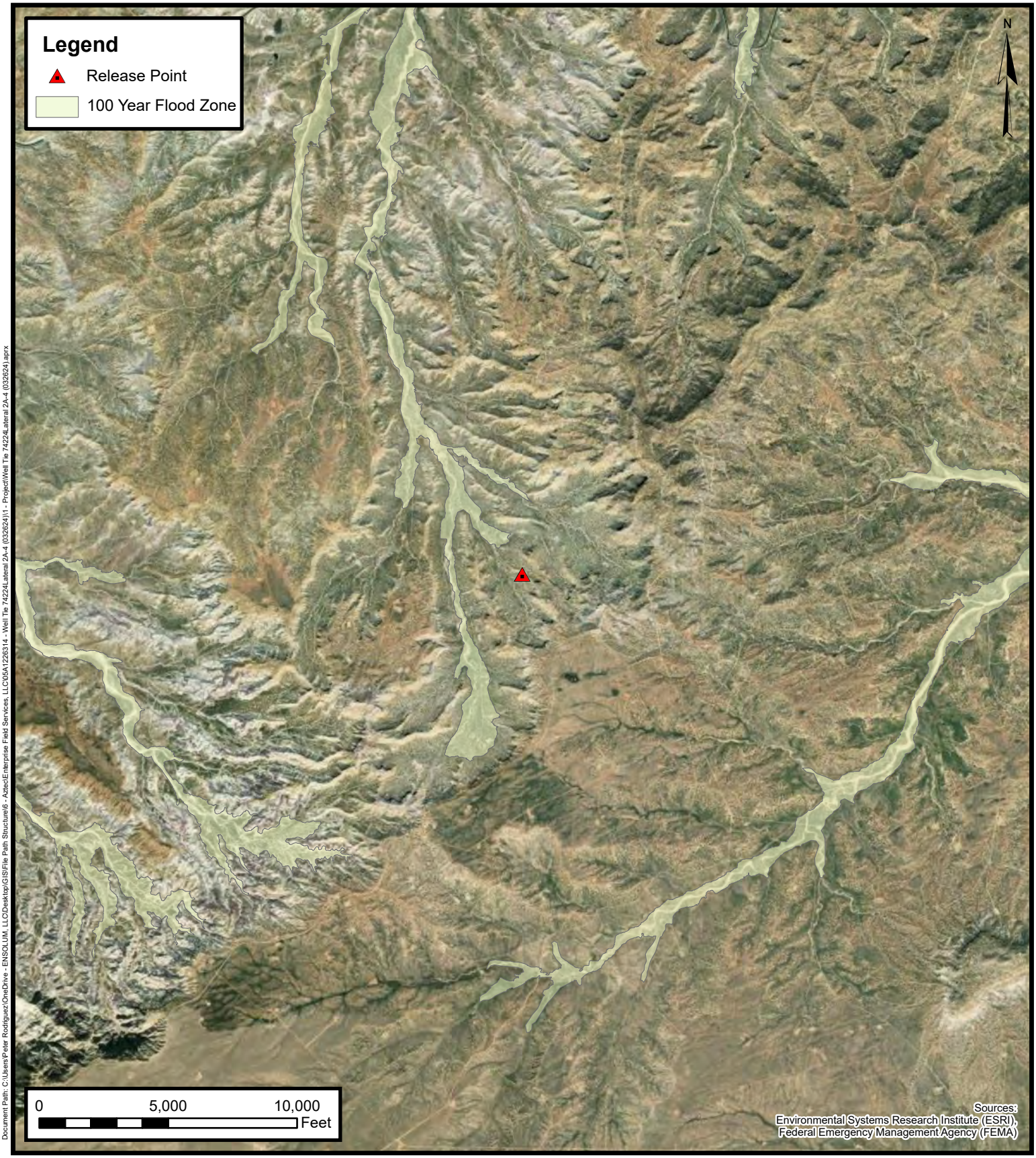
Mines, Mills, and Quarries

Enterprise Field Services, LLC
Well Tie 74224/Lateral 2A-4 (03/26/24)
Project Number: 05A1226314
Unit Letter O, S13 T27N R10W, San Juan County, New Mexico
36.576253, -107.845995

FIGURE
G



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ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

100-Year Flood Plain Map

Enterprise Field Services, LLC
Well Tie 74224/Lateral 2A-4 (03/26/24)
Project Number: 05A1226314
Unit Letter O, S13 T27N R10W, San Juan County, New Mexico
36.576253, -107.845995

FIGURE

H

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

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

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

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

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 04045 POD1	SJ	SJ	1	4	2	11	27N	10W	244148	4053538	310	50	260

Average Depth to Water: **50 feet**

Minimum Depth: **50 feet**

Maximum Depth: **50 feet**

Record Count: 1

PLSS Search:

Section(s): 13, 11, 12, 14, 23, 24 **Township:** 27N **Range:** 10W

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

No records found.

PLSS Search:

Section(s): 7, 18, 19 **Township:** 27N **Range:** 09W

3706

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

Operator Meridian Oil Co. Location: Unit A Sec. 13 Twp 27 Rng 10

Name of Well/Wells or Pipeline Serviced 30-045-06588

KNAUFF #1

Elevation 6142 Completion Date 2-24-93 Total Depth 417 Land Type F

Casing Strings, Sizes, Types & Depths 2/13 Set 97' of 8" PVC Casing. NO GAS, WATER, or Boulders were Encountered During Casing.

If Casing Strings are cemented, show amounts & types used Cemented WITH 22 SACK'S

If Cement or Bentonite Plugs have been placed, show depths & amounts used Ups 45' From top of coke-up

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 150' - Fresh

Depths gas encountered: Small amount of gas detected around 140' to 160'

Ground bed depth with type & amount of coke breeze used: 417' Sw. Loresco Coke - 60 Bags

Depths anodes placed: 400' 390 380 370 360 325 310 300 290 280 270 250 235 225 210

Depths vent pipes placed: From Surface to 417'

Vent pipe perforations: Perforated From 150' to 417'

Remarks:

RECEIVED
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.

#500 30-045-28491
#13 30-045-06720

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

Operator Meridian Oil Co. Location: Unit A Sec. 12 Twp 27 Rng 10

Name of Well/Wells or Pipeline Serviced

HANKS #500 And #13

Elevation ____ Completion Date ____ Total Depth ____ Land Type F

Casing Strings, Sizes, Types & Depths 2/16 Set 99' of 8" PVC Casing.

NO GAS, WATER, or Boulders were Encountered During Casing.

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

WITH 21 SACKS.

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

No plugs

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 240' and was clear.

Depths gas encountered: No gas

Ground bed depth with type & amount of coke breeze used: 419' with 123 (5016) sacks of Asbury Graphite

Depths anodes placed: #1 is at 385' and #15 is at 240'

Depths vent pipes placed: Bottom to surface

Vent pipe perforations: up to 200'

Remarks:

RECEIVED
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.

API WATER ANALYSIS REPORT FORM

Laboratory No. 25-930315-13

Company		Sample No.	Date Sampled
MERIDIAN OIL			2-26-93
Field	**Legal Description**	**County or Parish**	**State**
2445W	G 12-27-10	San Juan	NM
Lease or Unit	**Well**	**Depth**	**Formation**	**Water, BID**
	Hanks #500			
Type of Water (Produced, Supply, etc.)	**Sampling Point**	**Sampled By**
	Ground Bed	R Smith

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	770	34
Calcium, Ca	477	23.8
Magnesium, Mg	17	1.4
Barium, Ba		

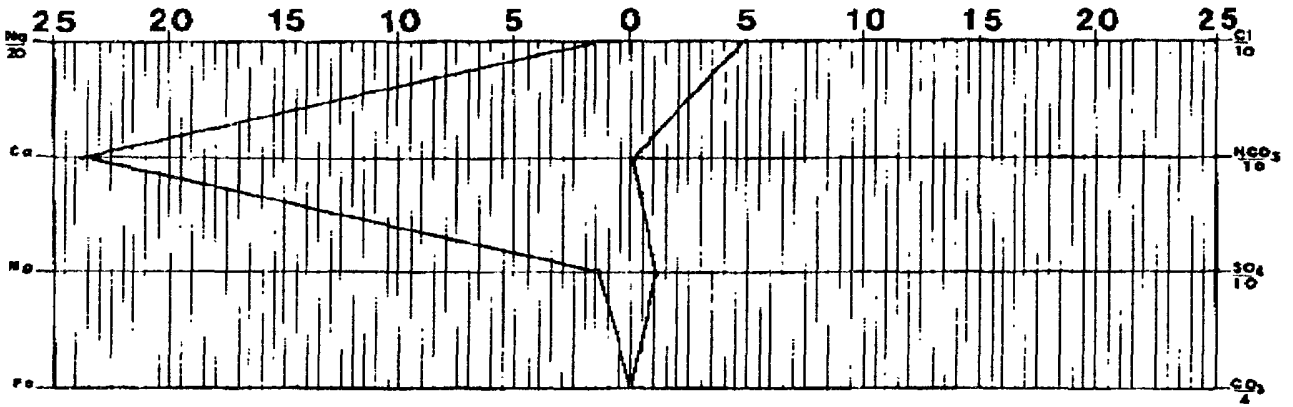
ANIONS		
Chloride, Cl	1670	47
Sulfate, So_4	520	11
Carbonate, CO_3	-	-
Bicarbonate, HCO_3	50	0.8

OTHER PROPERTIES

pH	7.0
Specific Gravity, 60/60 F.	1.0049
Resistivity (ohm-meters) 71 F.	2.3
Total Dissolved Solids (calc.)	3500
Iron, Fe (total)	
Sulfide, as H_2S	

REMARKS & RECOMMENDATIONS:

ATTN: Bill Donahue



Date Received	Preserved	Date Analyzed	Analyzed By
March 15th, 1993		March 18th, 1993.	R. H.

TECH, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311

#501 30-045-28785

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

Operator Meridian Oil Co. Location: Unit NW Sec. 12 Twp 27 Rng 10

Name of Well/Wells or Pipeline Serviced
HANKS #501

Elevation ____ Completion Date 2-20-93 Total Depth 397' Land Type F

Casing Strings, Sizes, Types & Depths 2" SET 99' OF 8" PVC CASING.
NO GAS, WATER, or Boulders were Encountered During Casing

If Casing Strings are cemented, show amounts & types used Cemented
WITH 22 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. 150' - Fresh

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 397' TD
Loresco Type SW

Depths anodes placed: 395', 375, 365, 355, 345, 320, 295, 285, 260, 250, 240, 220, 210, 200

Depths vent pipes placed: From Surface to 397'

Vent pipe perforations: From 397' up to 160'

Remarks: No gas encountered when drilling of hole

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OIL CON. DIV.
DIST. 3

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

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

#5 30-045-06642
#11 30-045-13039

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

Operator Meridian Oil Inc. Location: Unit L Sec. 07 Twp 27 Rng 09

Name of Well/Wells or Pipeline Serviced
HAWKS #5 AND #11

Elevation ____ Completion Date 8/24/93 Total Depth 370' Land Type F

Casing Strings, Sizes, Types & Depths 6/30 SET 59' OF 8" PVC CASING.
NO GAS, WATER, OR BOULDERS WERE ENCOUNTERED DURING CASING.

If Casing Strings are cemented, show amounts & types used CEMENTED
WITH 12 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 FRESH WATER AT 82'. A WATER SAMPLE
WAS TAKEN

Depths gas encountered: NONE.

Ground bed depth with type & amount of coke breeze used: 370' DEPTH.
USED 99 SACKS OF ASBURY 218R (4950#)

Depths anodes placed: 350', 340', 308', 300', 290', 280', 245', 235', 225', 214', 205', 180', 170', 143', +135'.

Depths vent pipes placed: SURFACE TO 370'.

Vent pipe perforations: BOTTOM 250'.

Remarks:

RECEIVED
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.

#11E 30-045-23777
#23 30-045-20532

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

Operator Meridian Oil C.O. Location: Unit E Sec. 7 Twp 27 Rng 9

Name of Well/Wells or Pipeline Serviced

Hanks 11E and Hanks #23

Elevation ____ Completion Date 3-7-93 Total Depth 475' Land Type ____

Casing Strings, Sizes, Types & Depths 3/6/93 set 99' of 8" PVC casing

No gas, water, or Boulders were encountered

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

with 19 sacks

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

N/A

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 130' fresh

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: ~~N/A~~

475' 7200 LBS Loresco 40 sacks, Asbury 64 sacks

Depths anodes placed: 405, 395, 385, 375, 365, 350, 340, 330, 323, 233, 225, 155, 145, 138, 130

Depths vent pipes placed: 475'

Vent pipe perforations: Bottom 350'

Remarks:

RECEIVED
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.

TECH, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311

LABORATORY REPORT

OIL-FIELD WATER ANALYSIS

5104e

Lab Number:	25930319-05	Date Sampled:	03-07-93
Client:	Meridian Oil	Date Received:	03-19-93
Sample ID:	Hank #11E	Date Analyzed:	03-22-93
Location:	Groundbed	Date Reported:	03-22-93

DISSOLVED SOLIDS:

	me/L	mg/L	Detection Limit, mg/L
Calcium, Ca++	20.0	401	1.0
Magnesium, Mg++	0.9	11	1.0
Sodium, Na+ (calc)	22.8	523	5.0
Chloride, Cl-	0.5	12	2.0
Sulfate, SO4--	40.5	1935	5.0
Bicarbonate, HCO3-	2.6	159	5.0
Carbonate, CO3--	0.4	12	1.0
Hydroxide, OH-	ND	ND	1.0
Total Dissolved Solids (calculated):		3,050	10.0

OTHER PROPERTIES:

pH (units):	8.2
resistivity (ohm-meters):	4.7
specific gravity at 60F:	1.0070
room temperature (F):	73

ND = Not Detected at the stated detection limit

Comments:

Methods: American Petroleum Institute, "Recommended Practice for Analysis of Oil-Field Waters;" 2nd edition.

Lela Latham
analyst

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.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

PayKey:AM14085
PM: ME Eddleman
AFE: N72859

2. Originating Site:
Well Tie X74224

3. Location of Material (Street Address, City, State or ULSTR):
UL O Section 13 T27N R10W; 36.576253, -107.845995

4. Source and Description of Waste:
Source: Remediation activities associated with a natural gas pipeline leak.
Description: Hydrocarbon/Condensate impacted soil associated natural gas pipeline release.
Estimated Volume 50 yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) 126 yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

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

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

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

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

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long (Thomas Long) 03-26-2024, 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 YUCCA, WEST STATES
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: Envino Manager DATE: 3/27/24
SIGNATURE: TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

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APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Well Tie 74224/Lateral 2A-4 (03/26/24)
Ensolum Project No. 05A1226314

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
Well Tie 74224/Lateral 2A-4 (03/26/24)
Ensolum Project No. 05A1226314

ENSOLUM

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

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APPENDIX E

Regulatory Correspondence

From: OCDOnline@state.nm.us
To: Long, Thomas
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 327241
Date: Wednesday, March 27, 2024 9:58:45 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#) nAPP2408637670.

The sampling event is expected to take place:

When: 04/01/2024 @ 09:00
Where: O-13-27N-10W 0 FNL 0 FEL (36.576253,-107.845995)

Additional Information: Ensolum, LLC

Additional Instructions: 36.576253,-107.845995

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

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APPENDIX F

Table 1 – Soil Analytical Summary

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TABLE 1
Well Tie 74224/Lateral 2A-4 (03/26/24)
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	4.01.24	C	12	<0.022	<0.044	<0.044	<0.089	ND	<4.4	<9.8	<49	ND	<60
S-2	4.01.24	C	12	<0.018	<0.035	<0.035	<0.071	ND	<3.5	<9.1	<46	ND	<60
S-3	4.01.24	C	12	<0.022	<0.044	<0.044	<0.089	ND	<4.4	<8.9	<45	ND	<60
S-4	4.01.24	C	0 to 12	<0.020	<0.040	<0.040	<0.081	ND	<4.0	<9.1	<45	ND	<60
S-5	4.01.24	C	0 to 12	<0.020	<0.039	<0.039	<0.078	ND	<3.9	<9.8	<49	ND	<60
S-6	4.01.24	C	0 to 12	<0.018	<0.036	<0.036	<0.073	ND	<3.6	<9.5	<47	ND	<60
S-7	4.01.24	C	0 to 12	<0.019	<0.038	<0.038	<0.075	ND	<3.8	<9.1	<46	ND	<60
S-8	4.01.24	C	0 to 12	<0.020	<0.040	<0.040	<0.080	ND	<4.0	<9.1	<45	ND	<60
S-9	4.01.24	C	0 to 12	<0.021	<0.042	<0.042	<0.084	ND	<4.2	<9.1	<45	ND	<61

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

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

NE = Not established

mg/kg = milligrams per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

ENSOLUM

APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/25/2024 8:12:09 AM Revision 1

JOB DESCRIPTION

Lateral 2A-4

JOB NUMBER

885-2133-1

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
4/25/2024 8:12:09 AM
Revision 1

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

Client: Ensolum
Project/Site: Lateral 2A-4

Laboratory Job ID: 885-2133-1

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Lateral 2A-4

Job ID: 885-2133-1

Glossary

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

Case Narrative

Client: Ensolum
Project: Lateral 2A-4

Job ID: 885-2133-1

Job ID: 885-2133-1 Eurofins Albuquerque

Job Narrative
885-2133-1

REVISION

The report being provided is a revision of the original report sent on 4/9/2024. The report (revision 1) is being revised due to Project name changed from 2A-9 to 2A-4.

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 4/2/2024 7:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.7°C.

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

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

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

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

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2A-4

Job ID: 885-2133-1

Client Sample ID: S-1
Date Collected: 04/01/24 09:00
Date Received: 04/02/24 07:15

Lab Sample ID: 885-2133-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.4		mg/Kg		04/02/24 09:00	04/02/24 10:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 244*	*04/02/24 09:00*	*04/02/24 10:37*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022		mg/Kg		04/02/24 09:00	04/02/24 10:37	1
Ethylbenzene	ND		0.044		mg/Kg		04/02/24 09:00	04/02/24 10:37	1
Toluene	ND		0.044		mg/Kg		04/02/24 09:00	04/02/24 10:37	1
Xylenes, Total	ND		0.089		mg/Kg		04/02/24 09:00	04/02/24 10:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/02/24 09:00*	*04/02/24 10:37*	*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		9.8		mg/Kg		04/02/24 09:07	04/02/24 10:33	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		04/02/24 09:07	04/02/24 10:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*04/02/24 09:07*	*04/02/24 10:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		04/02/24 09:41	04/02/24 11:02	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2A-4

Job ID: 885-2133-1

Client Sample ID: S-2
Date Collected: 04/01/24 09:05
Date Received: 04/02/24 07:15

Lab Sample ID: 885-2133-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.5		mg/Kg		04/02/24 09:00	04/02/24 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 244*	*04/02/24 09:00*	*04/02/24 11:00*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.018		mg/Kg		04/02/24 09:00	04/02/24 11:00	1
Ethylbenzene	ND		0.035		mg/Kg		04/02/24 09:00	04/02/24 11:00	1
Toluene	ND		0.035		mg/Kg		04/02/24 09:00	04/02/24 11:00	1
Xylenes, Total	ND		0.071		mg/Kg		04/02/24 09:00	04/02/24 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*39 - 146*	*04/02/24 09:00*	*04/02/24 11:00*	*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		9.1		mg/Kg		04/02/24 09:07	04/02/24 10:43	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		04/02/24 09:07	04/02/24 10:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*	*04/02/24 09:07*	*04/02/24 10:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		04/02/24 09:41	04/02/24 11:15	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2A-4

Job ID: 885-2133-1

Client Sample ID: S-3
Date Collected: 04/01/24 09:10
Date Received: 04/02/24 07:15

Lab Sample ID: 885-2133-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.4		mg/Kg		04/02/24 09:00	04/02/24 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 244*	*04/02/24 09:00*	*04/02/24 11:24*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.022		mg/Kg		04/02/24 09:00	04/02/24 11:24	1
Ethylbenzene	ND		0.044		mg/Kg		04/02/24 09:00	04/02/24 11:24	1
Toluene	ND		0.044		mg/Kg		04/02/24 09:00	04/02/24 11:24	1
Xylenes, Total	ND		0.089		mg/Kg		04/02/24 09:00	04/02/24 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*39 - 146*	*04/02/24 09:00*	*04/02/24 11:24*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9		mg/Kg		04/02/24 09:07	04/02/24 10:54	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		04/02/24 09:07	04/02/24 10:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*04/02/24 09:07*	*04/02/24 10:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		04/02/24 09:41	04/02/24 11:28	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2A-4

Job ID: 885-2133-1

Client Sample ID: S-4
Date Collected: 04/01/24 09:15
Date Received: 04/02/24 07:15

Lab Sample ID: 885-2133-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.0		mg/Kg		04/02/24 09:00	04/02/24 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*15 - 244*	*04/02/24 09:00*	*04/02/24 11:47*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		04/02/24 09:00	04/02/24 11:47	1
Ethylbenzene	ND		0.040		mg/Kg		04/02/24 09:00	04/02/24 11:47	1
Toluene	ND		0.040		mg/Kg		04/02/24 09:00	04/02/24 11:47	1
Xylenes, Total	ND		0.081		mg/Kg		04/02/24 09:00	04/02/24 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*39 - 146*	*04/02/24 09:00*	*04/02/24 11:47*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		04/02/24 09:07	04/02/24 11:04	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		04/02/24 09:07	04/02/24 11:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*04/02/24 09:07*	*04/02/24 11:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		04/02/24 09:41	04/02/24 11:41	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2A-4

Job ID: 885-2133-1

Client Sample ID: S-5
Date Collected: 04/01/24 09:20
Date Received: 04/02/24 07:15

Lab Sample ID: 885-2133-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.9		mg/Kg		04/02/24 09:00	04/02/24 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*15 - 244*	*04/02/24 09:00*	*04/02/24 12:11*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		04/02/24 09:00	04/02/24 12:11	1
Ethylbenzene	ND		0.039		mg/Kg		04/02/24 09:00	04/02/24 12:11	1
Toluene	ND		0.039		mg/Kg		04/02/24 09:00	04/02/24 12:11	1
Xylenes, Total	ND		0.078		mg/Kg		04/02/24 09:00	04/02/24 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/02/24 09:00*	*04/02/24 12:11*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		04/02/24 09:07	04/02/24 11:15	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		04/02/24 09:07	04/02/24 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*04/02/24 09:07*	*04/02/24 11:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		04/02/24 09:41	04/02/24 11:54	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2A-4

Job ID: 885-2133-1

Client Sample ID: S-6
Date Collected: 04/01/24 09:25
Date Received: 04/02/24 07:15

Lab Sample ID: 885-2133-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.6		mg/Kg		04/02/24 09:00	04/02/24 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*15 - 244*	*04/02/24 09:00*	*04/02/24 12:34*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.018		mg/Kg		04/02/24 09:00	04/02/24 12:34	1
Ethylbenzene	ND		0.036		mg/Kg		04/02/24 09:00	04/02/24 12:34	1
Toluene	ND		0.036		mg/Kg		04/02/24 09:00	04/02/24 12:34	1
Xylenes, Total	ND		0.073		mg/Kg		04/02/24 09:00	04/02/24 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/02/24 09:00*	*04/02/24 12:34*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		04/02/24 09:07	04/02/24 11:25	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		04/02/24 09:07	04/02/24 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*110*		*62 - 134*	*04/02/24 09:07*	*04/02/24 11:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		04/02/24 09:41	04/02/24 12:07	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2A-4

Job ID: 885-2133-1

Client Sample ID: S-7
Date Collected: 04/01/24 09:30
Date Received: 04/02/24 07:15

Lab Sample ID: 885-2133-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.8		mg/Kg		04/02/24 09:00	04/02/24 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*15 - 244*	*04/02/24 09:00*	*04/02/24 12:58*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.019		mg/Kg		04/02/24 09:00	04/02/24 12:58	1
Ethylbenzene	ND		0.038		mg/Kg		04/02/24 09:00	04/02/24 12:58	1
Toluene	ND		0.038		mg/Kg		04/02/24 09:00	04/02/24 12:58	1
Xylenes, Total	ND		0.075		mg/Kg		04/02/24 09:00	04/02/24 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/02/24 09:00*	*04/02/24 12:58*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		04/02/24 09:07	04/02/24 11:36	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		04/02/24 09:07	04/02/24 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*04/02/24 09:07*	*04/02/24 11:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		04/02/24 09:41	04/02/24 12:20	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2A-4

Job ID: 885-2133-1

Client Sample ID: S-8
Date Collected: 04/01/24 09:35
Date Received: 04/02/24 07:15

Lab Sample ID: 885-2133-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.0		mg/Kg		04/02/24 09:00	04/02/24 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*15 - 244*	*04/02/24 09:00*	*04/02/24 13:21*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020		mg/Kg		04/02/24 09:00	04/02/24 13:21	1
Ethylbenzene	ND		0.040		mg/Kg		04/02/24 09:00	04/02/24 13:21	1
Toluene	ND		0.040		mg/Kg		04/02/24 09:00	04/02/24 13:21	1
Xylenes, Total	ND		0.080		mg/Kg		04/02/24 09:00	04/02/24 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*39 - 146*	*04/02/24 09:00*	*04/02/24 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		9.1		mg/Kg		04/02/24 09:07	04/02/24 11:46	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		04/02/24 09:07	04/02/24 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*112*		*62 - 134*	*04/02/24 09:07*	*04/02/24 11:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		04/02/24 09:41	04/02/24 12:33	20

Client Sample Results

Client: Ensolum
Project/Site: Lateral 2A-4

Job ID: 885-2133-1

Client Sample ID: S-9
Date Collected: 04/01/24 09:40
Date Received: 04/02/24 07:15

Lab Sample ID: 885-2133-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.2		mg/Kg		04/02/24 09:00	04/02/24 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*15 - 244*	*04/02/24 09:00*	*04/02/24 13:45*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.021		mg/Kg		04/02/24 09:00	04/02/24 13:45	1
Ethylbenzene	ND		0.042		mg/Kg		04/02/24 09:00	04/02/24 13:45	1
Toluene	ND		0.042		mg/Kg		04/02/24 09:00	04/02/24 13:45	1
Xylenes, Total	ND		0.084		mg/Kg		04/02/24 09:00	04/02/24 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/02/24 09:00*	*04/02/24 13:45*	*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		9.1		mg/Kg		04/02/24 09:07	04/02/24 12:03	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		04/02/24 09:07	04/02/24 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*04/02/24 09:07*	*04/02/24 12:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61		mg/Kg		04/02/24 09:41	04/02/24 13:11	20

QC Sample Results

Client: Ensolum
Project/Site: Lateral 2A-4

Job ID: 885-2133-1

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

Lab Sample ID: MB 885-2600/1-A
Matrix: Solid
Analysis Batch: 2664

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2600

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		04/02/24 09:00	04/02/24 10:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 244*	*04/02/24 09:00*	*04/02/24 10:13*	*1*

Lab Sample ID: LCS 885-2600/2-A
Matrix: Solid
Analysis Batch: 2664

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2600

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	25.9		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*207*		*15 - 244*

Lab Sample ID: 885-2133-1 MS
Matrix: Solid
Analysis Batch: 2664

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 2600

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		22.2	24.5		mg/Kg		110	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*223*		*15 - 244*

Lab Sample ID: 885-2133-1 MSD
Matrix: Solid
Analysis Batch: 2664

Client Sample ID: S-1
Prep Type: Total/NA
Prep Batch: 2600

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		22.2	24.0		mg/Kg		108	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*208*		*15 - 244*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-2600/1-A
Matrix: Solid
Analysis Batch: 2666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2600

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/02/24 09:00	04/02/24 10:13	1
Ethylbenzene	ND		0.050		mg/Kg		04/02/24 09:00	04/02/24 10:13	1
Toluene	ND		0.050		mg/Kg		04/02/24 09:00	04/02/24 10:13	1

QC Sample Results

Client: Ensolum
Project/Site: Lateral 2A-4

Job ID: 885-2133-1

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

Lab Sample ID: MB 885-2600/1-A
Matrix: Solid
Analysis Batch: 2666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2600

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		04/02/24 09:00	04/02/24 10:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*	*04/02/24 09:00*	*04/02/24 10:13*	*1*

Lab Sample ID: LCS 885-2600/3-A
Matrix: Solid
Analysis Batch: 2666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2600

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.871		mg/Kg		87	70 - 130		
Ethylbenzene			1.00	0.892		mg/Kg		89	70 - 130		
m,p-Xylene			2.00	1.81		mg/Kg		90	70 - 130		
o-Xylene			1.00	0.882		mg/Kg		88	70 - 130		
Toluene			1.00	0.884		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*

Lab Sample ID: 885-2133-2 MS
Matrix: Solid
Analysis Batch: 2666

Client Sample ID: S-2
Prep Type: Total/NA
Prep Batch: 2600

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.707	0.604		mg/Kg		85	70 - 130		
Ethylbenzene	ND		0.707	0.613		mg/Kg		87	70 - 130		
m,p-Xylene	ND		1.41	1.25		mg/Kg		89	70 - 130		
o-Xylene	ND		0.707	0.613		mg/Kg		87	70 - 130		
Toluene	ND		0.707	0.606		mg/Kg		86	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*39 - 146*

Lab Sample ID: 885-2133-2 MSD
Matrix: Solid
Analysis Batch: 2666

Client Sample ID: S-2
Prep Type: Total/NA
Prep Batch: 2600

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.707	0.600		mg/Kg		85	70 - 130	1	20
Ethylbenzene	ND		0.707	0.612		mg/Kg		87	70 - 130	0	20
m,p-Xylene	ND		1.41	1.26		mg/Kg		89	70 - 130	1	20
o-Xylene	ND		0.707	0.614		mg/Kg		87	70 - 130	0	20
Toluene	ND		0.707	0.607		mg/Kg		86	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*39 - 146*

QC Sample Results

Client: Ensolum
Project/Site: Lateral 2A-4

Job ID: 885-2133-1

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

Lab Sample ID: MB 885-2599/1-A
Matrix: Solid
Analysis Batch: 2657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2599

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		04/02/24 09:07	04/02/24 10:12	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		04/02/24 09:07	04/02/24 10:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*04/02/24 09:07*	*04/02/24 10:12*	*1*

Lab Sample ID: LCS 885-2599/2-A
Matrix: Solid
Analysis Batch: 2657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2599

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)	*88*		*62 - 134*

Lab Sample ID: 885-2133-9 MS
Matrix: Solid
Analysis Batch: 2657

Client Sample ID: S-9
Prep Type: Total/NA
Prep Batch: 2599

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		48.4	44.7		mg/Kg		92	44 - 136		

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

Lab Sample ID: 885-2133-9 MSD
Matrix: Solid
Analysis Batch: 2657

Client Sample ID: S-9
Prep Type: Total/NA
Prep Batch: 2599

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		48.9	45.0		mg/Kg		92	44 - 136	1	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-2604/1-A
Matrix: Solid
Analysis Batch: 2667

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2604

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		04/02/24 09:41	04/02/24 10:37	1

QC Sample Results

Client: Ensolum
Project/Site: Lateral 2A-4

Job ID: 885-2133-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-2604/2-A
Matrix: Solid
Analysis Batch: 2667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2604

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.0		mg/Kg		93	90 - 110		

Lab Sample ID: 885-2133-9 MS
Matrix: Solid
Analysis Batch: 2667

Client Sample ID: S-9
Prep Type: Total/NA
Prep Batch: 2604

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	ND		29.9	ND		mg/Kg		NC	50 - 150		

Lab Sample ID: 885-2133-9 MSD
Matrix: Solid
Analysis Batch: 2667

Client Sample ID: S-9
Prep Type: Total/NA
Prep Batch: 2604

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		30.2	ND		mg/Kg		NC	50 - 150	NC	20

QC Association Summary

Client: Ensolum
Project/Site: Lateral 2A-4

Job ID: 885-2133-1

GC VOA

Prep Batch: 2600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2133-1	S-1	Total/NA	Solid	5035	
885-2133-2	S-2	Total/NA	Solid	5035	
885-2133-3	S-3	Total/NA	Solid	5035	
885-2133-4	S-4	Total/NA	Solid	5035	
885-2133-5	S-5	Total/NA	Solid	5035	
885-2133-6	S-6	Total/NA	Solid	5035	
885-2133-7	S-7	Total/NA	Solid	5035	
885-2133-8	S-8	Total/NA	Solid	5035	
885-2133-9	S-9	Total/NA	Solid	5035	
MB 885-2600/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-2600/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-2600/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-2133-1 MS	S-1	Total/NA	Solid	5035	
885-2133-1 MSD	S-1	Total/NA	Solid	5035	
885-2133-2 MS	S-2	Total/NA	Solid	5035	
885-2133-2 MSD	S-2	Total/NA	Solid	5035	

Analysis Batch: 2664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2133-1	S-1	Total/NA	Solid	8015D	2600
885-2133-2	S-2	Total/NA	Solid	8015D	2600
885-2133-3	S-3	Total/NA	Solid	8015D	2600
885-2133-4	S-4	Total/NA	Solid	8015D	2600
885-2133-5	S-5	Total/NA	Solid	8015D	2600
885-2133-6	S-6	Total/NA	Solid	8015D	2600
885-2133-7	S-7	Total/NA	Solid	8015D	2600
885-2133-8	S-8	Total/NA	Solid	8015D	2600
885-2133-9	S-9	Total/NA	Solid	8015D	2600
MB 885-2600/1-A	Method Blank	Total/NA	Solid	8015D	2600
LCS 885-2600/2-A	Lab Control Sample	Total/NA	Solid	8015D	2600
885-2133-1 MS	S-1	Total/NA	Solid	8015D	2600
885-2133-1 MSD	S-1	Total/NA	Solid	8015D	2600

Analysis Batch: 2666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2133-1	S-1	Total/NA	Solid	8021B	2600
885-2133-2	S-2	Total/NA	Solid	8021B	2600
885-2133-3	S-3	Total/NA	Solid	8021B	2600
885-2133-4	S-4	Total/NA	Solid	8021B	2600
885-2133-5	S-5	Total/NA	Solid	8021B	2600
885-2133-6	S-6	Total/NA	Solid	8021B	2600
885-2133-7	S-7	Total/NA	Solid	8021B	2600
885-2133-8	S-8	Total/NA	Solid	8021B	2600
885-2133-9	S-9	Total/NA	Solid	8021B	2600
MB 885-2600/1-A	Method Blank	Total/NA	Solid	8021B	2600
LCS 885-2600/3-A	Lab Control Sample	Total/NA	Solid	8021B	2600
885-2133-2 MS	S-2	Total/NA	Solid	8021B	2600
885-2133-2 MSD	S-2	Total/NA	Solid	8021B	2600

QC Association Summary

Client: Ensolum
Project/Site: Lateral 2A-4

Job ID: 885-2133-1

GC Semi VOA

Prep Batch: 2599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2133-1	S-1	Total/NA	Solid	SHAKE	
885-2133-2	S-2	Total/NA	Solid	SHAKE	
885-2133-3	S-3	Total/NA	Solid	SHAKE	
885-2133-4	S-4	Total/NA	Solid	SHAKE	
885-2133-5	S-5	Total/NA	Solid	SHAKE	
885-2133-6	S-6	Total/NA	Solid	SHAKE	
885-2133-7	S-7	Total/NA	Solid	SHAKE	
885-2133-8	S-8	Total/NA	Solid	SHAKE	
885-2133-9	S-9	Total/NA	Solid	SHAKE	
MB 885-2599/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-2599/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-2133-9 MS	S-9	Total/NA	Solid	SHAKE	
885-2133-9 MSD	S-9	Total/NA	Solid	SHAKE	

Analysis Batch: 2657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2133-1	S-1	Total/NA	Solid	8015D	2599
885-2133-2	S-2	Total/NA	Solid	8015D	2599
885-2133-3	S-3	Total/NA	Solid	8015D	2599
885-2133-4	S-4	Total/NA	Solid	8015D	2599
885-2133-5	S-5	Total/NA	Solid	8015D	2599
885-2133-6	S-6	Total/NA	Solid	8015D	2599
885-2133-7	S-7	Total/NA	Solid	8015D	2599
885-2133-8	S-8	Total/NA	Solid	8015D	2599
885-2133-9	S-9	Total/NA	Solid	8015D	2599
MB 885-2599/1-A	Method Blank	Total/NA	Solid	8015D	2599
LCS 885-2599/2-A	Lab Control Sample	Total/NA	Solid	8015D	2599
885-2133-9 MS	S-9	Total/NA	Solid	8015D	2599
885-2133-9 MSD	S-9	Total/NA	Solid	8015D	2599

HPLC/IC

Prep Batch: 2604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2133-1	S-1	Total/NA	Solid	300_Prep	
885-2133-2	S-2	Total/NA	Solid	300_Prep	
885-2133-3	S-3	Total/NA	Solid	300_Prep	
885-2133-4	S-4	Total/NA	Solid	300_Prep	
885-2133-5	S-5	Total/NA	Solid	300_Prep	
885-2133-6	S-6	Total/NA	Solid	300_Prep	
885-2133-7	S-7	Total/NA	Solid	300_Prep	
885-2133-8	S-8	Total/NA	Solid	300_Prep	
885-2133-9	S-9	Total/NA	Solid	300_Prep	
MB 885-2604/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-2604/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-2133-9 MS	S-9	Total/NA	Solid	300_Prep	
885-2133-9 MSD	S-9	Total/NA	Solid	300_Prep	

Analysis Batch: 2667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2133-1	S-1	Total/NA	Solid	300.0	2604

QC Association Summary

Client: Ensolum
Project/Site: Lateral 2A-4

Job ID: 885-2133-1

HPLC/IC (Continued)

Analysis Batch: 2667 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-2133-2	S-2	Total/NA	Solid	300.0	2604
885-2133-3	S-3	Total/NA	Solid	300.0	2604
885-2133-4	S-4	Total/NA	Solid	300.0	2604
885-2133-5	S-5	Total/NA	Solid	300.0	2604
885-2133-6	S-6	Total/NA	Solid	300.0	2604
885-2133-7	S-7	Total/NA	Solid	300.0	2604
885-2133-8	S-8	Total/NA	Solid	300.0	2604
885-2133-9	S-9	Total/NA	Solid	300.0	2604
MB 885-2604/1-A	Method Blank	Total/NA	Solid	300.0	2604
LCS 885-2604/2-A	Lab Control Sample	Total/NA	Solid	300.0	2604
885-2133-9 MS	S-9	Total/NA	Solid	300.0	2604
885-2133-9 MSD	S-9	Total/NA	Solid	300.0	2604

Lab Chronicle

Client: Ensolum
Job ID: 885-2133-1
Project/Site: Lateral 2A-4

Client Sample ID: S-1
Lab Sample ID: 885-2133-1
Date Collected: 04/01/24 09:00
Matrix: Solid
Date Received: 04/02/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			2600	JP	EET ALB	04/02/24 09:00
Total/NA	Analysis	8015D		1	2664	JP	EET ALB	04/02/24 10:37
Total/NA	Prep	5035			2600	JP	EET ALB	04/02/24 09:00
Total/NA	Analysis	8021B		1	2666	JP	EET ALB	04/02/24 10:37
Total/NA	Prep	SHAKE			2599	JU	EET ALB	04/02/24 09:07
Total/NA	Analysis	8015D		1	2657	PD	EET ALB	04/02/24 10:33
Total/NA	Prep	300_Prep			2604	JT	EET ALB	04/02/24 09:41
Total/NA	Analysis	300.0		20	2667	JT	EET ALB	04/02/24 11:02

Client Sample ID: S-2
Lab Sample ID: 885-2133-2
Date Collected: 04/01/24 09:05
Matrix: Solid
Date Received: 04/02/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			2600	JP	EET ALB	04/02/24 09:00
Total/NA	Analysis	8015D		1	2664	JP	EET ALB	04/02/24 11:00
Total/NA	Prep	5035			2600	JP	EET ALB	04/02/24 09:00
Total/NA	Analysis	8021B		1	2666	JP	EET ALB	04/02/24 11:00
Total/NA	Prep	SHAKE			2599	JU	EET ALB	04/02/24 09:07
Total/NA	Analysis	8015D		1	2657	PD	EET ALB	04/02/24 10:43
Total/NA	Prep	300_Prep			2604	JT	EET ALB	04/02/24 09:41
Total/NA	Analysis	300.0		20	2667	JT	EET ALB	04/02/24 11:15

Client Sample ID: S-3
Lab Sample ID: 885-2133-3
Date Collected: 04/01/24 09:10
Matrix: Solid
Date Received: 04/02/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			2600	JP	EET ALB	04/02/24 09:00
Total/NA	Analysis	8015D		1	2664	JP	EET ALB	04/02/24 11:24
Total/NA	Prep	5035			2600	JP	EET ALB	04/02/24 09:00
Total/NA	Analysis	8021B		1	2666	JP	EET ALB	04/02/24 11:24
Total/NA	Prep	SHAKE			2599	JU	EET ALB	04/02/24 09:07
Total/NA	Analysis	8015D		1	2657	PD	EET ALB	04/02/24 10:54
Total/NA	Prep	300_Prep			2604	JT	EET ALB	04/02/24 09:41
Total/NA	Analysis	300.0		20	2667	JT	EET ALB	04/02/24 11:28

Client Sample ID: S-4
Lab Sample ID: 885-2133-4
Date Collected: 04/01/24 09:15
Matrix: Solid
Date Received: 04/02/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			2600	JP	EET ALB	04/02/24 09:00
Total/NA	Analysis	8015D		1	2664	JP	EET ALB	04/02/24 11:47

Lab Chronicle

Client: Ensolum
Project/Site: Lateral 2A-4

Job ID: 885-2133-1

Client Sample ID: S-4
Date Collected: 04/01/24 09:15
Date Received: 04/02/24 07:15

Lab Sample ID: 885-2133-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			2600	JP	EET ALB	04/02/24 09:00
Total/NA	Analysis	8021B		1	2666	JP	EET ALB	04/02/24 11:47
Total/NA	Prep	SHAKE			2599	JU	EET ALB	04/02/24 09:07
Total/NA	Analysis	8015D		1	2657	PD	EET ALB	04/02/24 11:04
Total/NA	Prep	300_Prep			2604	JT	EET ALB	04/02/24 09:41
Total/NA	Analysis	300.0		20	2667	JT	EET ALB	04/02/24 11:41

Client Sample ID: S-5
Date Collected: 04/01/24 09:20
Date Received: 04/02/24 07:15

Lab Sample ID: 885-2133-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			2600	JP	EET ALB	04/02/24 09:00
Total/NA	Analysis	8015D		1	2664	JP	EET ALB	04/02/24 12:11
Total/NA	Prep	5035			2600	JP	EET ALB	04/02/24 09:00
Total/NA	Analysis	8021B		1	2666	JP	EET ALB	04/02/24 12:11
Total/NA	Prep	SHAKE			2599	JU	EET ALB	04/02/24 09:07
Total/NA	Analysis	8015D		1	2657	PD	EET ALB	04/02/24 11:15
Total/NA	Prep	300_Prep			2604	JT	EET ALB	04/02/24 09:41
Total/NA	Analysis	300.0		20	2667	JT	EET ALB	04/02/24 11:54

Client Sample ID: S-6
Date Collected: 04/01/24 09:25
Date Received: 04/02/24 07:15

Lab Sample ID: 885-2133-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			2600	JP	EET ALB	04/02/24 09:00
Total/NA	Analysis	8015D		1	2664	JP	EET ALB	04/02/24 12:34
Total/NA	Prep	5035			2600	JP	EET ALB	04/02/24 09:00
Total/NA	Analysis	8021B		1	2666	JP	EET ALB	04/02/24 12:34
Total/NA	Prep	SHAKE			2599	JU	EET ALB	04/02/24 09:07
Total/NA	Analysis	8015D		1	2657	PD	EET ALB	04/02/24 11:25
Total/NA	Prep	300_Prep			2604	JT	EET ALB	04/02/24 09:41
Total/NA	Analysis	300.0		20	2667	JT	EET ALB	04/02/24 12:07

Client Sample ID: S-7
Date Collected: 04/01/24 09:30
Date Received: 04/02/24 07:15

Lab Sample ID: 885-2133-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			2600	JP	EET ALB	04/02/24 09:00
Total/NA	Analysis	8015D		1	2664	JP	EET ALB	04/02/24 12:58
Total/NA	Prep	5035			2600	JP	EET ALB	04/02/24 09:00
Total/NA	Analysis	8021B		1	2666	JP	EET ALB	04/02/24 12:58

Lab Chronicle

Client: Ensolum
Job ID: 885-2133-1
Project/Site: Lateral 2A-4

Client Sample ID: S-7
Lab Sample ID: 885-2133-7
Date Collected: 04/01/24 09:30
Matrix: Solid
Date Received: 04/02/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			2599	JU	EET ALB	04/02/24 09:07
Total/NA	Analysis	8015D		1	2657	PD	EET ALB	04/02/24 11:36
Total/NA	Prep	300_Prep			2604	JT	EET ALB	04/02/24 09:41
Total/NA	Analysis	300.0		20	2667	JT	EET ALB	04/02/24 12:20

Client Sample ID: S-8
Lab Sample ID: 885-2133-8
Date Collected: 04/01/24 09:35
Matrix: Solid
Date Received: 04/02/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			2600	JP	EET ALB	04/02/24 09:00
Total/NA	Analysis	8015D		1	2664	JP	EET ALB	04/02/24 13:21
Total/NA	Prep	5035			2600	JP	EET ALB	04/02/24 09:00
Total/NA	Analysis	8021B		1	2666	JP	EET ALB	04/02/24 13:21
Total/NA	Prep	SHAKE			2599	JU	EET ALB	04/02/24 09:07
Total/NA	Analysis	8015D		1	2657	PD	EET ALB	04/02/24 11:46
Total/NA	Prep	300_Prep			2604	JT	EET ALB	04/02/24 09:41
Total/NA	Analysis	300.0		20	2667	JT	EET ALB	04/02/24 12:33

Client Sample ID: S-9
Lab Sample ID: 885-2133-9
Date Collected: 04/01/24 09:40
Matrix: Solid
Date Received: 04/02/24 07:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			2600	JP	EET ALB	04/02/24 09:00
Total/NA	Analysis	8015D		1	2664	JP	EET ALB	04/02/24 13:45
Total/NA	Prep	5035			2600	JP	EET ALB	04/02/24 09:00
Total/NA	Analysis	8021B		1	2666	JP	EET ALB	04/02/24 13:45
Total/NA	Prep	SHAKE			2599	JU	EET ALB	04/02/24 09:07
Total/NA	Analysis	8015D		1	2657	PD	EET ALB	04/02/24 12:03
Total/NA	Prep	300_Prep			2604	JT	EET ALB	04/02/24 09:41
Total/NA	Analysis	300.0		20	2667	JT	EET ALB	04/02/24 13:11

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

Accreditation/Certification Summary

Client: Ensolum
Job ID: 885-2133-1
Project/Site: Lateral 2A-4

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107
885-2133 COC

Client: Ensolum LLC
Mailing Address: 606 S Rio Grande Suite A 87410
Phone #:
email or Fax#:
QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: 100%
☐ Standard ☑ Rush 4-2-24
Project Name: Lateral 2A-4
Project #:
Project Manager: K Summers
Sampler: C W Aponti
On Ice: ☒ Yes ☐ No (yes)
# of Coolers: 1
Cooler Temp(Including CF): 3.8-0.1=3.7 (°C)

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO3, NO2, PO4, SO4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)						
4/1	900	S	S-1	1 4oz Jar	Cool	1	✓	✓					✓									
4/1	905	S	S-2		Cool	2	✓	✓					✓									
4/1	910	S	S-3		Cool	3	✓	✓					✓									
4/1	915	S	S-4		Cool	4	✓	✓					✓									
4/1	920	S	S-5		Cool	5	✓	✓					✓									
4/1	925	S	S-6		Cool	6	✓	✓					✓									
4/1	930	S	S-7		Cool	7	✓	✓					✓									
4/1	935	S	S-8		Cool	8	✓	✓					✓									
4/1	940	S	S-9		Cool	9	✓	✓					✓									

Date	Time	Relinquished by	Received by	Via	Date	Time
4/1/24	1415	[signature]	[signature]		4/1/24	1415
4/1/24	1800	[signature]	[signature]	Courier	4/2/24	7:15

Remarks: Tom Long
Reg Key RB21200

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: 885-2133-1

Login Number: 2133 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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

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QUESTIONS

Action 342878

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 342878
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2408637670**
Incident Name	**NAPP2408637670 WELL TIE 74224/LATERAL 2A-4 @ 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	Well Tie 74224/Lateral 2A-4
Date Release Discovered	03/26/2024
Surface Owner	Federal

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: Commissioning to Purge | Pipeline (Any) | Natural Gas Vented | Released: 2 MCF | Recovered: 0 MCF | Lost: 2 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: 342878
	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: 04/02/2024

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 342878
	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)	Greater than 1000 (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 200 and 300 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 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	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	61
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0.1
GRO+DRO (EPA SW-846 Method 8015M)	14.2
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	03/26/2024
On what date will (or did) the final sampling or liner inspection occur	04/01/2024
On what date will (or was) the remediation complete(d)	04/02/2024
What is the estimated surface area (in square feet) that will be reclaimed	495
What is the estimated volume (in cubic yards) that will be reclaimed	126
What is the estimated surface area (in square feet) that will be remediated	495
What is the estimated volume (in cubic yards) that will be remediated	126
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: 342878
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	ENVIROTECH LANDFARM #2 [fEEM0112336756]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 05/10/2024
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: 342878
	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: 342878
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**327241**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**04/01/2024**
What was the (estimated) number of samples that were to be gathered	**8**
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	495
What was the total volume (cubic yards) remediated	126
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	495
What was the total volume (in cubic yards) reclaimed	126
Summarize any additional remediation activities not included by answers (above)	None

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

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

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 05/10/2024

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 342878
	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 342878

CONDITIONS

Operator:	OGRID:
Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	241602
	Action Number: 342878
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation closure approved. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable. Reclamation reports should include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. Pictures of the backfilled areas showing that the area is back to the original condition or the final land use and maintain those areas to control dust/minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site and a revegetation plan.	5/10/2024