District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: **Enterprise Field Services, LLC**	OGRID: **241602**
Contact Name: **Thomas Long**	Contact Telephone: **505-599-2286**
Contact email:**tjlong@eprod.com**	Incident # *(assigned by OCD)* **nAPP2217252876**
Contact mailing address: **614 Reilly Ave, Farmington, NM 87401**	

Location of Release Source

Latitude **36.477480** Longitude **-107.693722** *(NAD 83 in decimal degrees to 5 decimal places)*

Site Name **Hodges #8E**	Site Type **Natural Gas Gathering Pipeline**
Date Release Discovered: **06/14/2022**	Serial Number *(if applicable)*: **N/A**

Unit Letter	Section	Township	Range	County
D	**21**	**26N**	**8W**	**San Juan**

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name*: *BLM*)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☒ Condensate	Volume Released (bbls): **Estimated 3-5 BBLs**	Volume Recovered (bbls): **None**
☒ Natural Gas	Volume Released (Mcf): **1.57 MCF**	Volume Recovered (Mcf): **None**
☐ Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release: On June 14, 2022, Enterprise had a release of natural gas and natural gas liquids from the Hodges #8E pipeline. The pipeline was isolated, depressurized, locked and tagged out. Released liquids flowed approximately 70 feet south entering a wash. No fire nor injuries occurred. Remediation and repairs were completed on July 22, 2022. The final excavation dimensions measured approximately 30 feet long by 26 feet wide by 10 feet deep. A total of 396 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm. A third party closure report is included with this "Final." C-141.

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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.

Printed Name: Thomas Long Title: Senior Environmental Scientist

Signature: Thomas Long Date: 10-11-2022

email: tjlong@eprod.com Telephone: (505) 599-2286

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Nelson Velez Date: 11/14/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

ENSOLUM

CLOSURE REPORT

Property:

Hodges #8E (06/14/22)
Unit Letter D, S21 T26N R8W
San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2217252876

October 6, 2022

Ensolum Project No. 05A1226195

Prepared for:

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

Prepared by:

Ranee Deechilly
Project Manager

Kyle Summers
Senior Managing Geologist

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1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Hodges #8E (06/14/22) (Site)
NM EMNRD OCD Incident ID No.	NAPP2217252876
Location:	36.47748° North, 107.693722° West Unit Letter D, Section 21, Township 26 North, Range 8 West San Juan County, New Mexico
Property:	United States Bureau of Land Management (BLM)
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On June 14, 2022, a third party notified Enterprise of a surface release on the Hodges #8E pipeline. An Enterprise personnel confirmed a leak on the pipeline and subsequently isolated and locked the pipeline out of service. Additionally, the NM EMNRD OCD was notified of the release. Due to rain events, the unpaved road to the Site was impassable and required repair prior to the initiation of earthwork activities. On July 20, 2022, Enterprise initiated activities to remediate petroleum hydrocarbon impact.

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 New Mexico EMNRD OCD. 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, during the evaluation and remediation of the Site. 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, and no PODS were identified in the adjacent PLSS sections (**Figure A**, **Appendix B**).

- No cathodic protection wells (CPWs) were identified in the same PLSS section as the Site, and no CPWs were identified in the adjacent PLSS sections in the NM EMNRD OCD imaging database (**Figure B**, **Appendix B**).

- The Site is located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C**, **Appendix B**), in this case a "blue line" ephemeral wash.

- 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 fresh water 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 fresh water wells or springs were identified within 1,000 feet of the Site (**Figure E**, **Appendix B**).

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

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

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

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

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

Based on available information, the applicable 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 July 20, 2022, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, Industrial Mechanical Inc., (IMI) provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 30 feet long and 26 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 10 feet bgs. The flow path excavation measured approximately 57 feet long and four feet wide at the maximum extents, with a maximum depth of four feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of silty sand underlain by weathered sandstone.

Approximately 396 cubic yards (yd^3) of petroleum hydrocarbon affected soils were transported to the Envirotech, Inc., (Envirotech) landfarm near Hilltop, 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 topography.

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 fourteen composite soil samples (S-1 through S-14) from the excavation for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft^2) sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. Hand tools or the excavator bucket were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

First Sampling Event

On July 22, 2022, the first sampling event 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 (10') and S-2 (10') were collected from the floor of the primary excavation. Composite soil samples S-3 (0'-10'), S-4 (0'-10'), S-5 (0'-10'), S-6 (0'-10'), S-7 (0'-10'), S-8 (0'-10'), and S-9 (0'-10) were collected from the walls of the primary excavation. Composite soil samples S-10 (0'-4'), S-11 (0'-4'), S-12 (0'-14), S-13 (0'-4'), and S-14 (0'-4') were collected from the floor and walls of the excavated flow path.

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 Hall Environmental Analysis Laboratory 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-14) to the applicable NM EMNRD OCD closure criteria. The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

- The laboratory analytical result for composite soil sample S-1 indicates a benzene concentration of 0.025 mg/kg, which is below the applicable NM EMNRD OCD criteria of 10 mg/kg. The laboratory analytical results for all other composite soil samples indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD criteria of 10 mg/kg.

- The laboratory analytical results for the composite soil sample S-1 indicate a total BTEX concentration of 0.062 mg/kg, which is less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for all other composite soil samples indicate that total BTEX is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg.

- The laboratory analytical results for composite soil samples S-11 and S-14 indicate combined TPH GRO/DRO/MRO concentrations of 45 mg/kg and 54 mg/kg, respectively, which are less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for all other composite soil samples indicate combined TPH GRO/DRO/MRO is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg.

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

7.0 RECLAMATION AND REVEGETATION

The excavation was backfilled with imported fill and then contoured to the surrounding topography. Enterprise will re-seed the Site with an approved seeding mixture.

8.0 FINDINGS AND RECOMMENDATION

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

- Approximately 396 yd^3 of petroleum hydrocarbon affected soils were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled with imported fill and then contoured to the surrounding topography.

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.

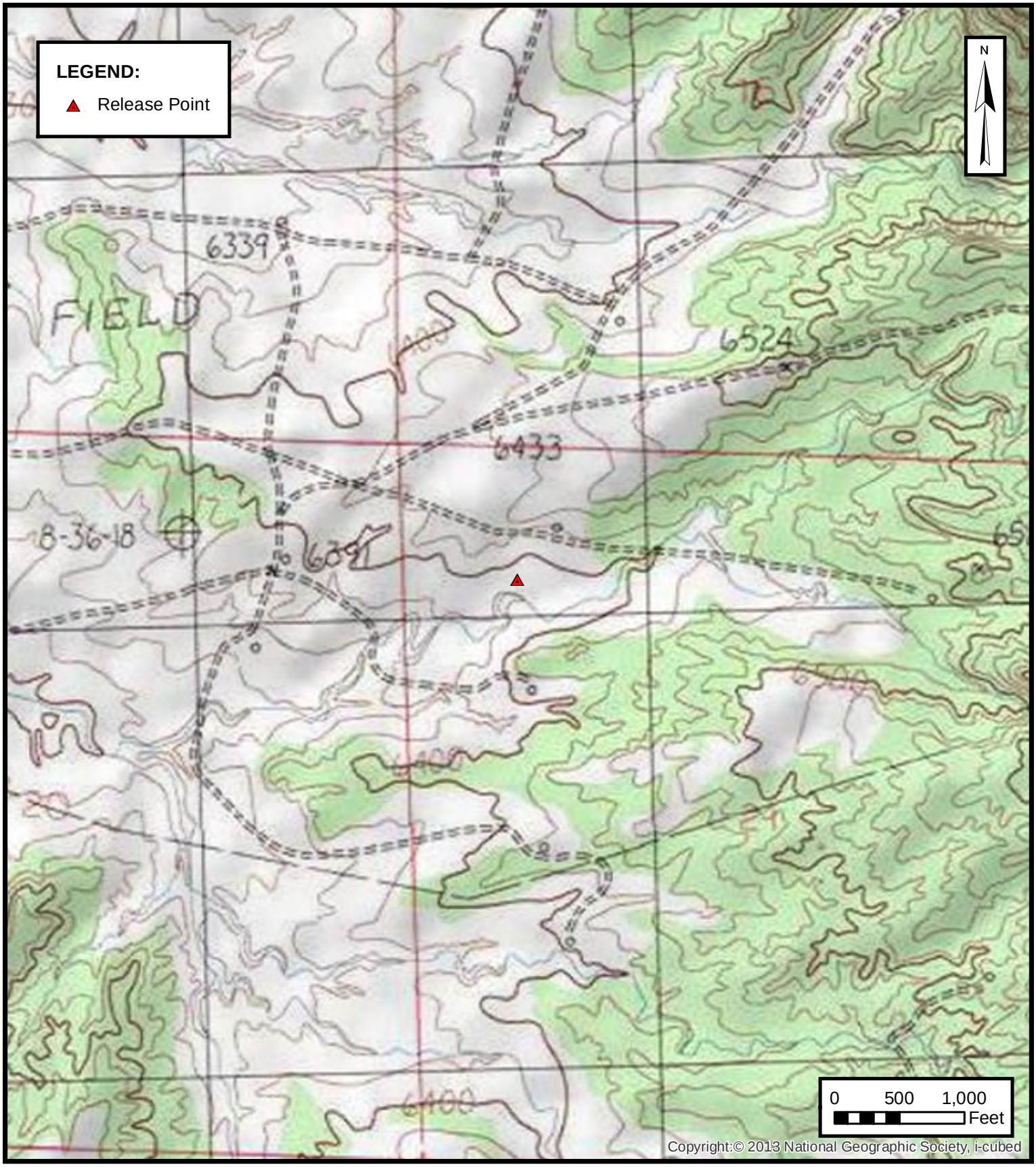
9.3 Reliance

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.

ENSOLUM

APPENDIX A

Figures



ENSOLUM
Environmental & Hydrogeologic Consultants

TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC
HODGES #8E (06/14/22)
Unit Letter D, S21 T26N R8W, San Juan County, New Mexico
36.47748° N, 107.693722° W

PROJECT NUMBER: 05A1226195

FIGURE

1

ENSOLUM
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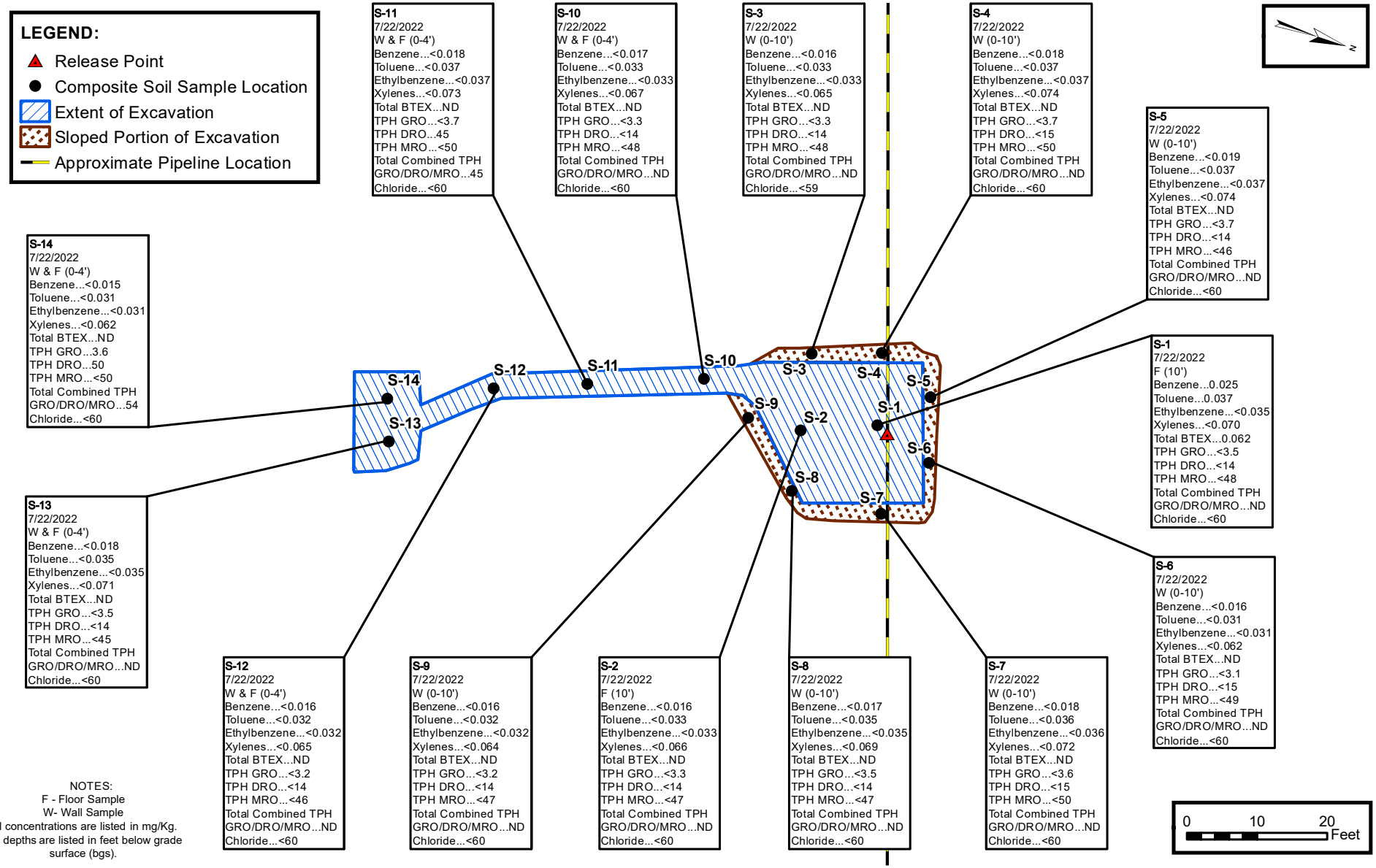
SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
HODGES #8E (06/14/22)
Unit Letter D, S21 T26N R8W, San Juan County, New Mexico
36.47748° N, 107.693722° W

PROJECT NUMBER: 05A1226195

FIGURE
2



NOTES:
F - Floor Sample
W- Wall Sample
All concentrations are listed in mg/Kg.
All depths are listed in feet below grade surface (bgs).

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SITE MAP WITH SOIL ANALYTICAL RESULTS

ENTERPRISE FIELD SERVICES, LLC
HODGES #8E (06/14/22)
Unit Letter D, S21 T26N R8W, San Juan County, New Mexico
36.47748° N, 107.693722° W

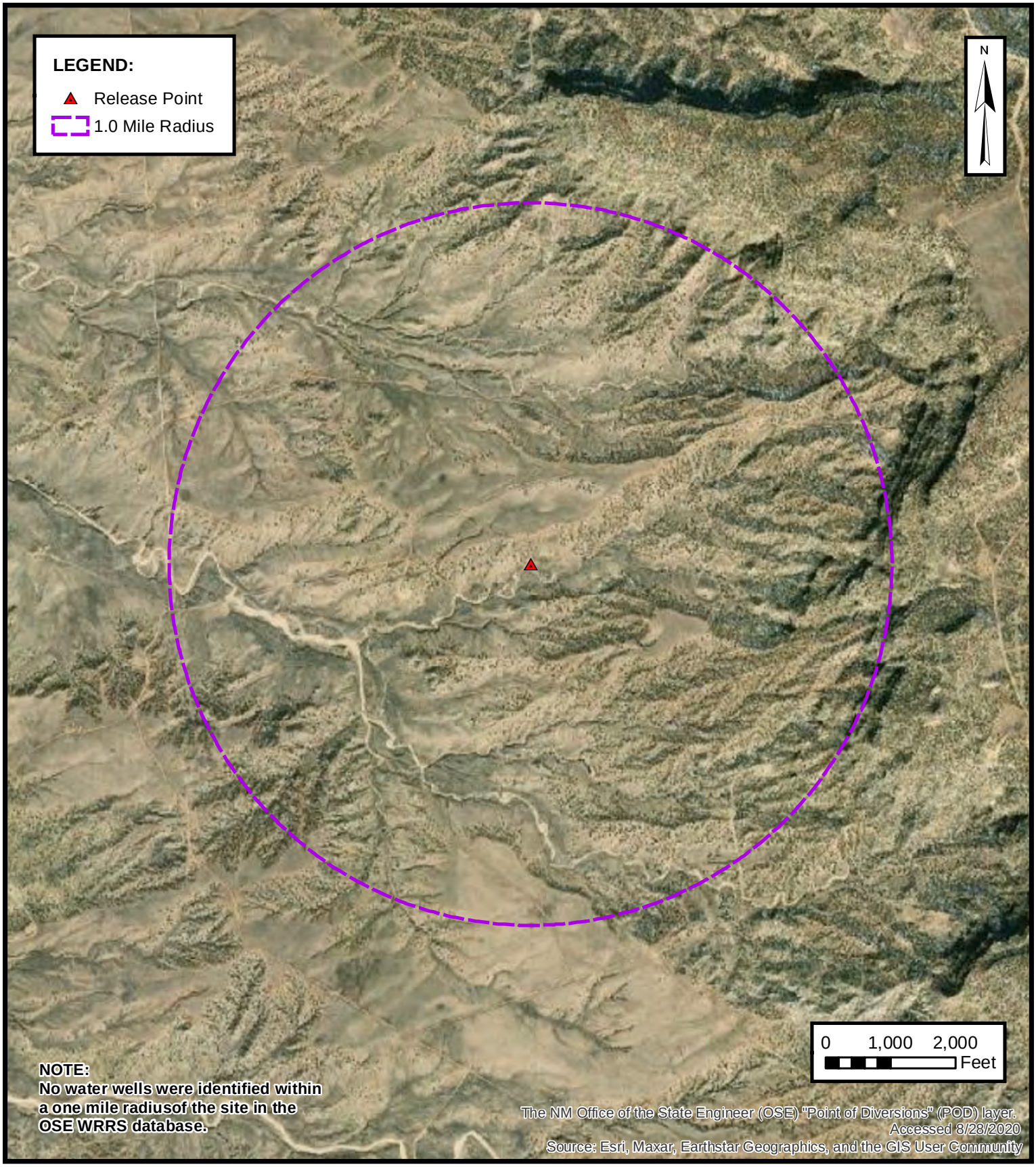
PROJECT NUMBER: 05A1226195

FIGURE
3

ENSOLUM

APPENDIX B

Siting Figures and Documentation



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Environmental & Hydrogeologic Consultants

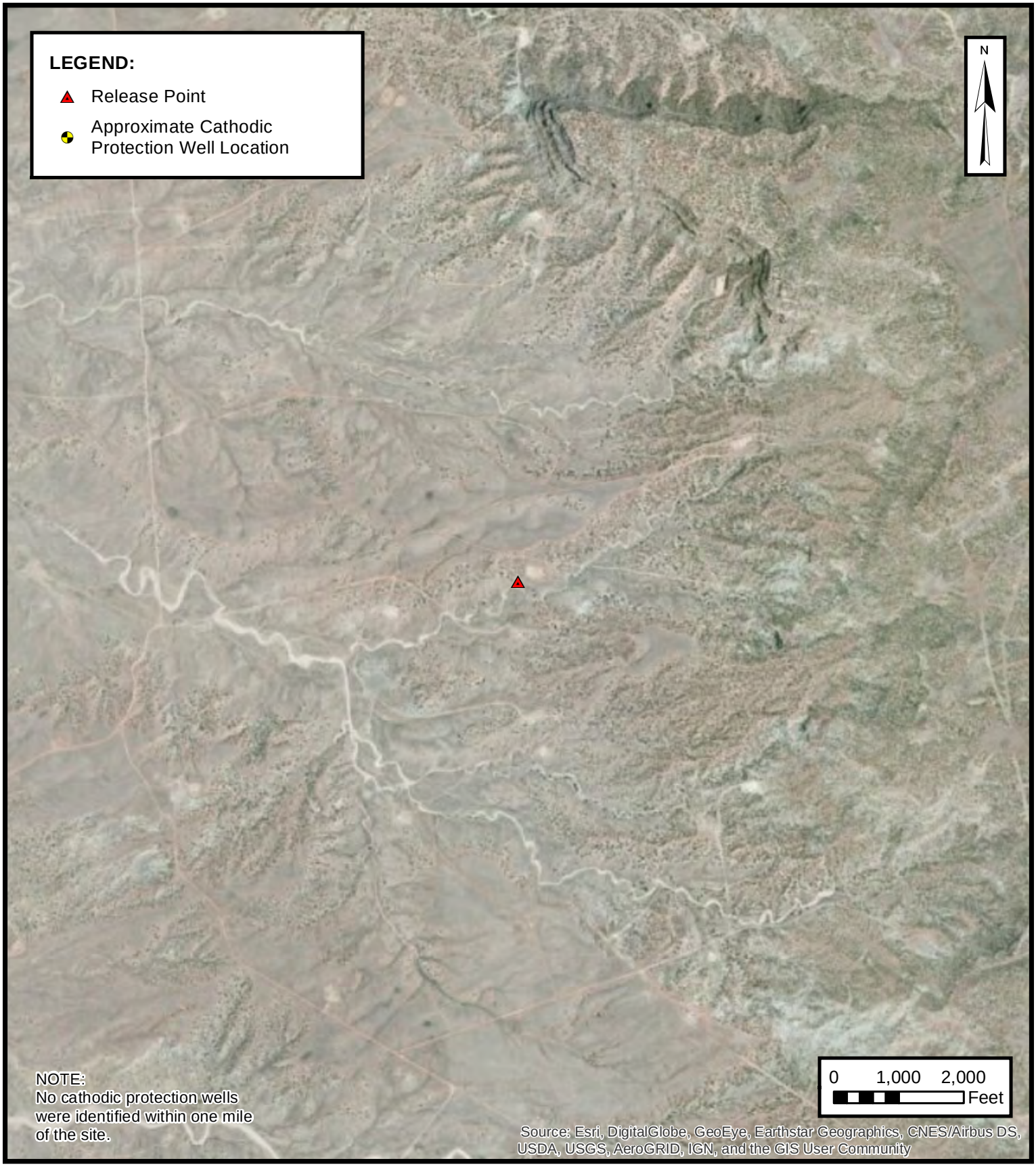
1.0 MILE RADIUS WATER WELL/ POD LOCATION MAP

ENTERPRISE FIELD SERVICES, LLC
HODGES #8E (06/14/22)
Unit Letter D, S21 T26N R8W, San Juan County, New Mexico
36.47748° N, 107.693722° W

PROJECT NUMBER: 05A1226195

FIGURE

A



ENSOLUM
Environmental & Hydrogeologic Consultants

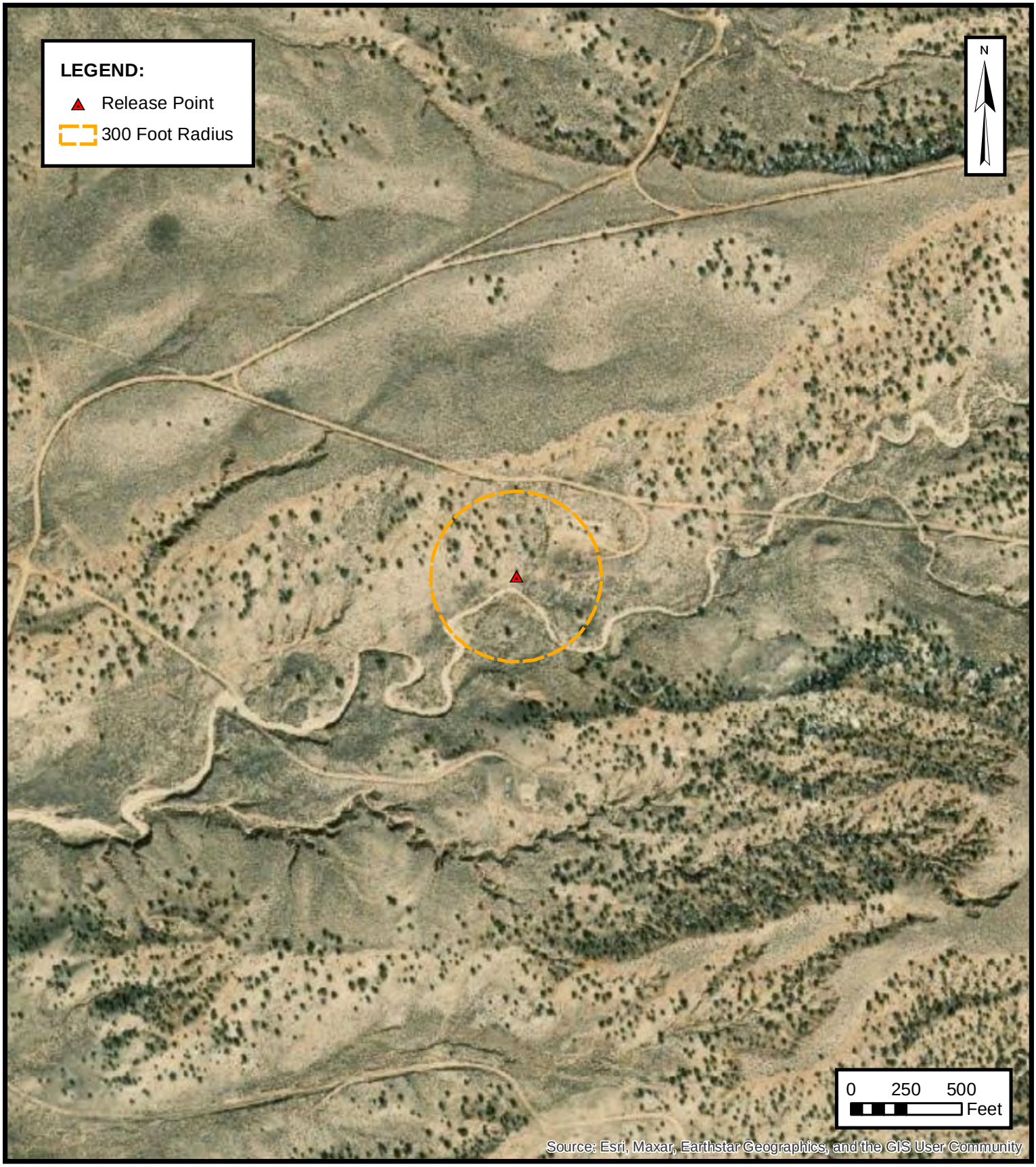
CATHODIC PROTECTION WELL RECORDED DEPTH TO WATER

ENTERPRISE FIELD SERVICES, LLC
HODGES #8E (06/14/22)
Unit Letter D, S21 T26N R8W, San Juan County, New Mexico
36.47748° N, 107.693722° W

PROJECT NUMBER: 05A1226195

FIGURE

B



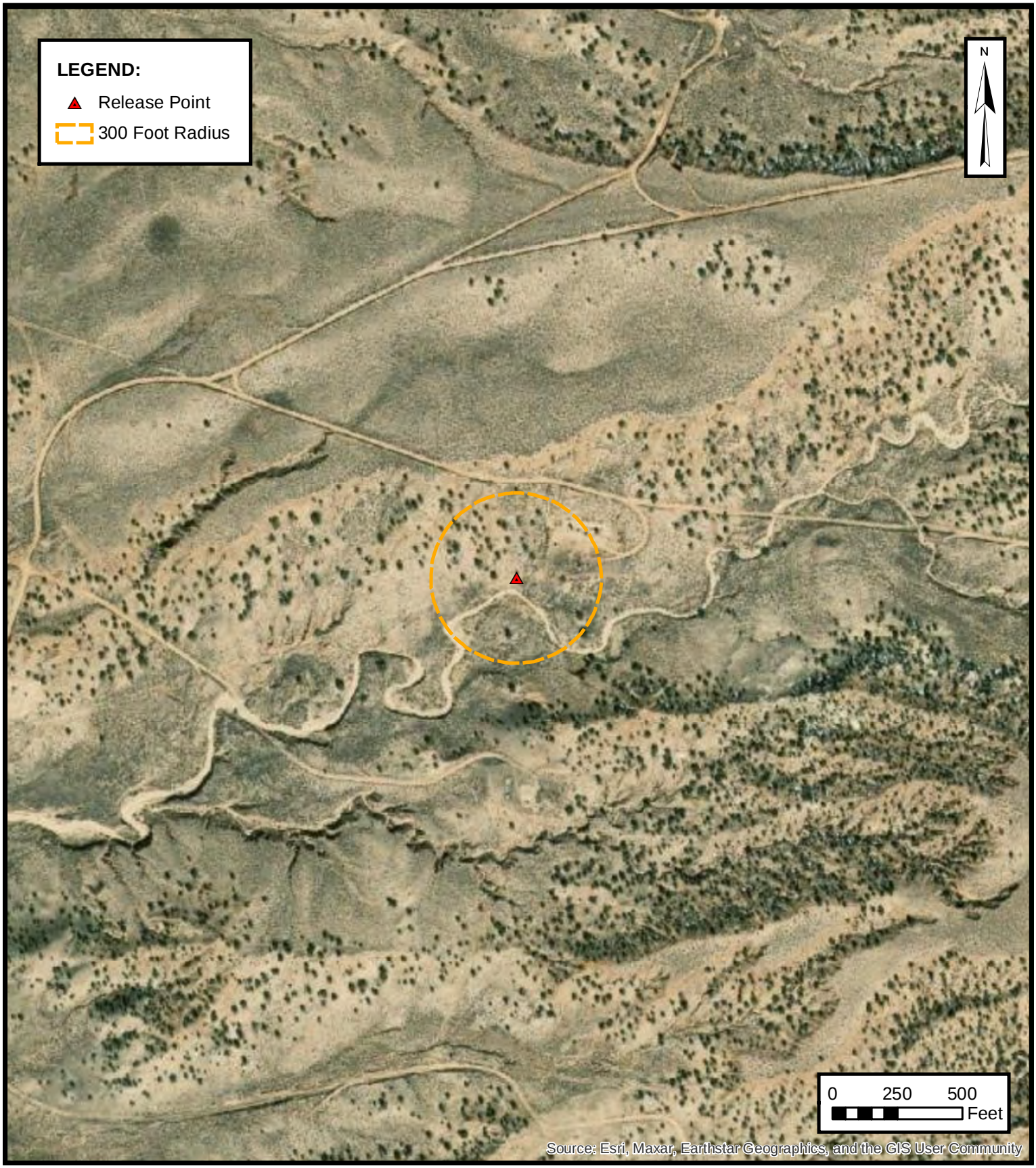
ENSOLUM
Environmental & Hydrogeologic Consultants

300 FOOT RADIUS
WATERCOURSE AND DRAINAGE IDENTIFICATION

ENTERPRISE FIELD SERVICES, LLC
HODGES #8E (06/14/22)
Unit Letter D, S21 T26N R8W, San Juan County, New Mexico
36.47748° N, 107.693722° W

PROJECT NUMBER: 05A1226195

FIGURE
C



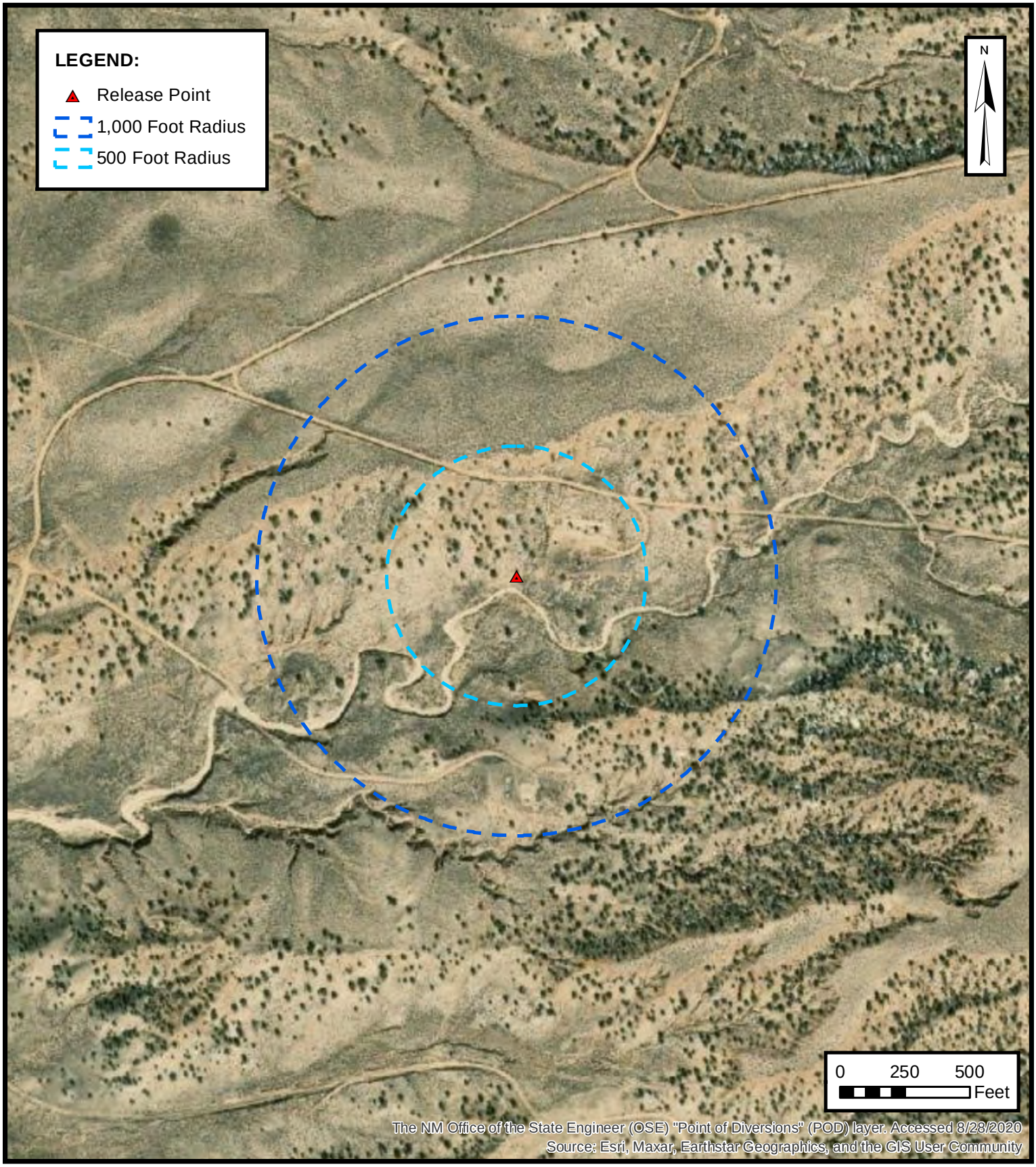
ENSOLUM
Environmental & Hydrogeologic Consultants

300 FOOT RADIUS
OCCUPIED STRUCTURE IDENTIFICATION

ENTERPRISE FIELD SERVICES, LLC
HODGES #8E (06/14/22)
Unit Letter D, S21 T26N R8W, San Juan County, New Mexico
36.47748° N, 107.693722° W

PROJECT NUMBER: 05A1226195

FIGURE
D



ENSOLUM
Environmental & Hydrogeologic Consultants

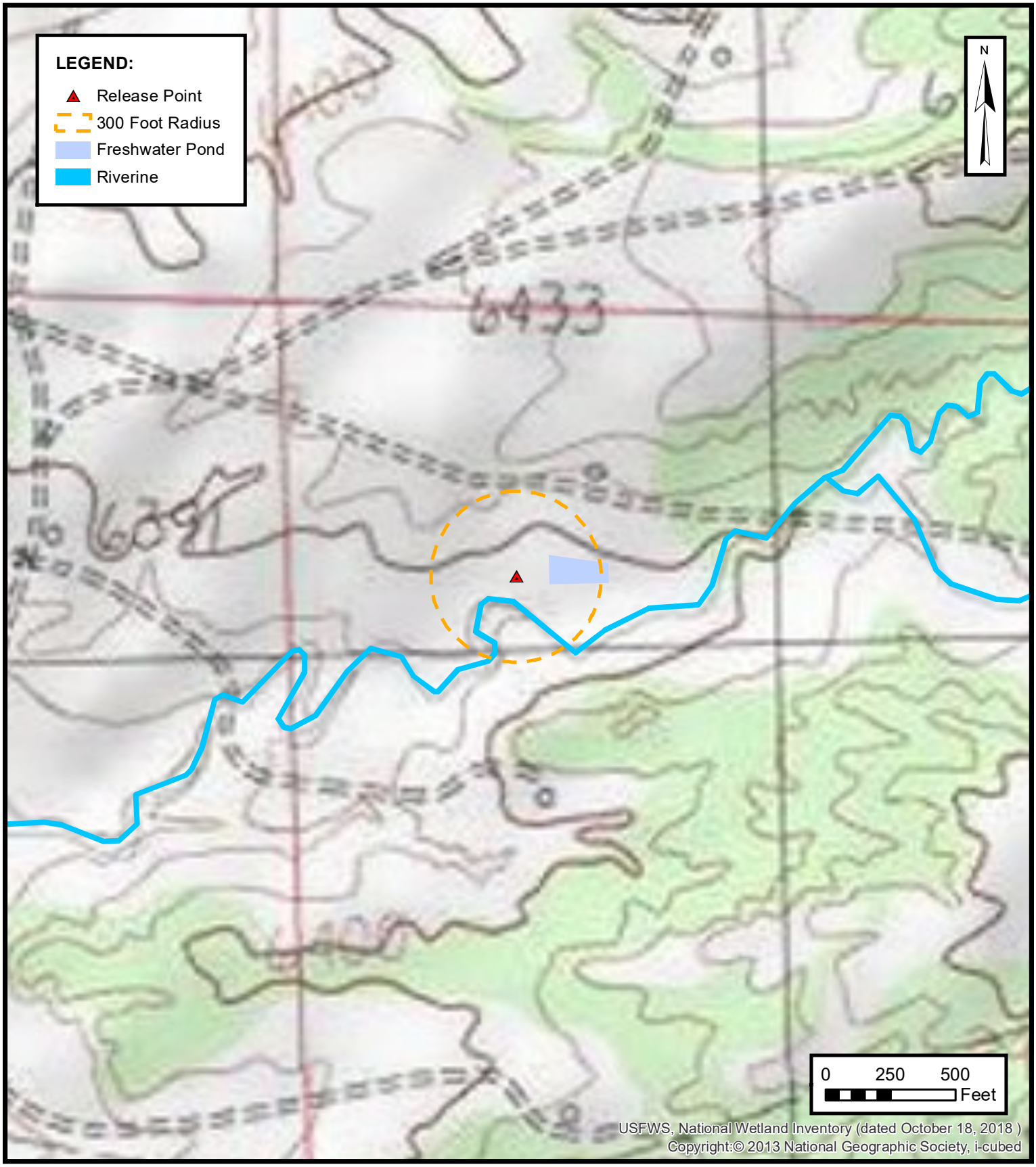
WATER WELL AND NATURAL SPRING LOCATION

ENTERPRISE FIELD SERVICES, LLC
HODGES #8E (06/14/22)
Unit Letter D, S21 T26N R8W, San Juan County, New Mexico
36.47748° N, 107.693722° W

PROJECT NUMBER: 05A1226195

FIGURE

E



ENSOLUM
Environmental & Hydrogeologic Consultants

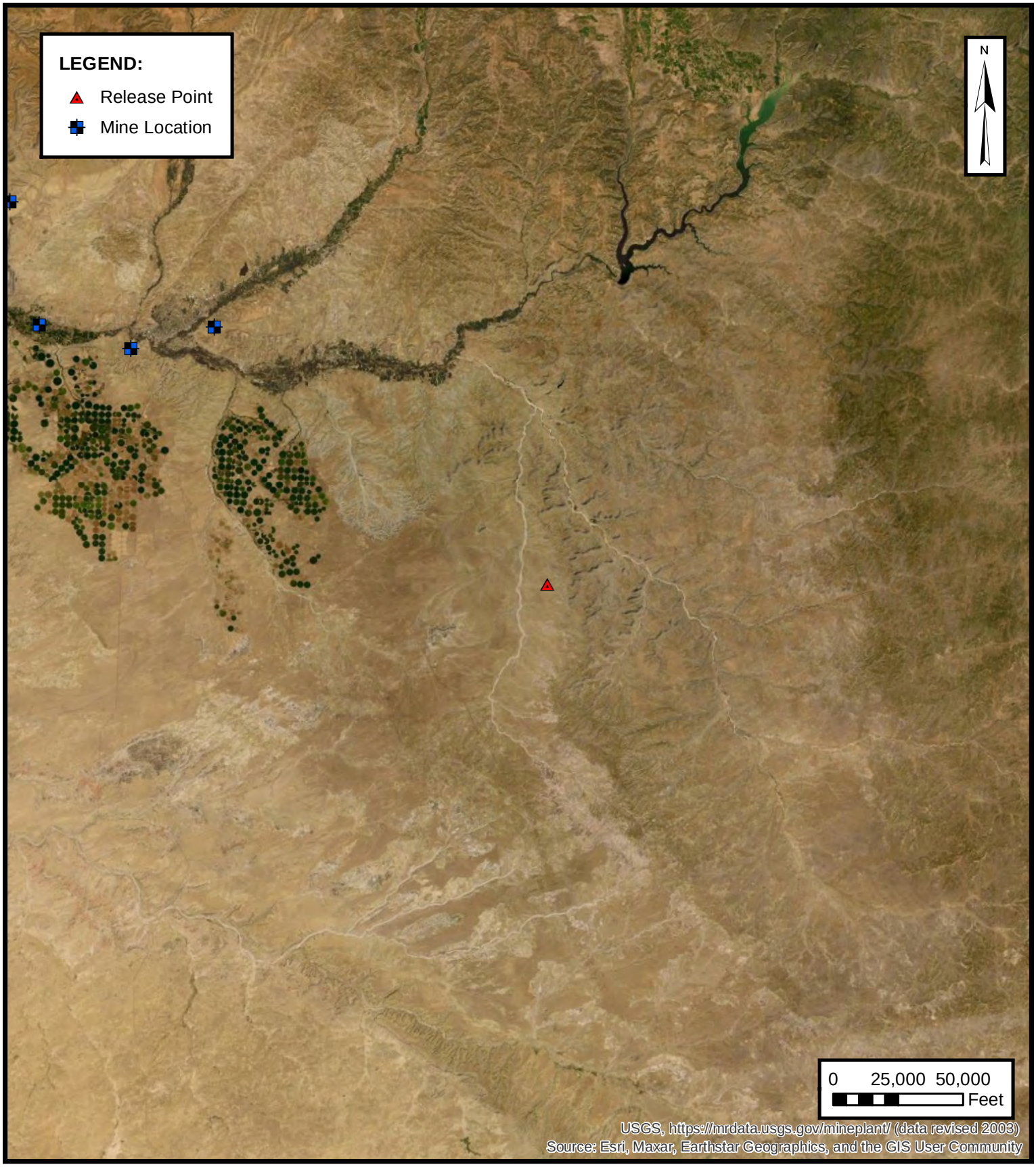
WETLANDS

ENTERPRISE FIELD SERVICES, LLC
HODGES #8E (06/14/22)
Unit Letter D, S21 T26N R8W, San Juan County, New Mexico
36.47748° N, 107.693722° W

PROJECT NUMBER: 05A1226195

FIGURE

F



ENSOLUM
Environmental & Hydrogeologic Consultants

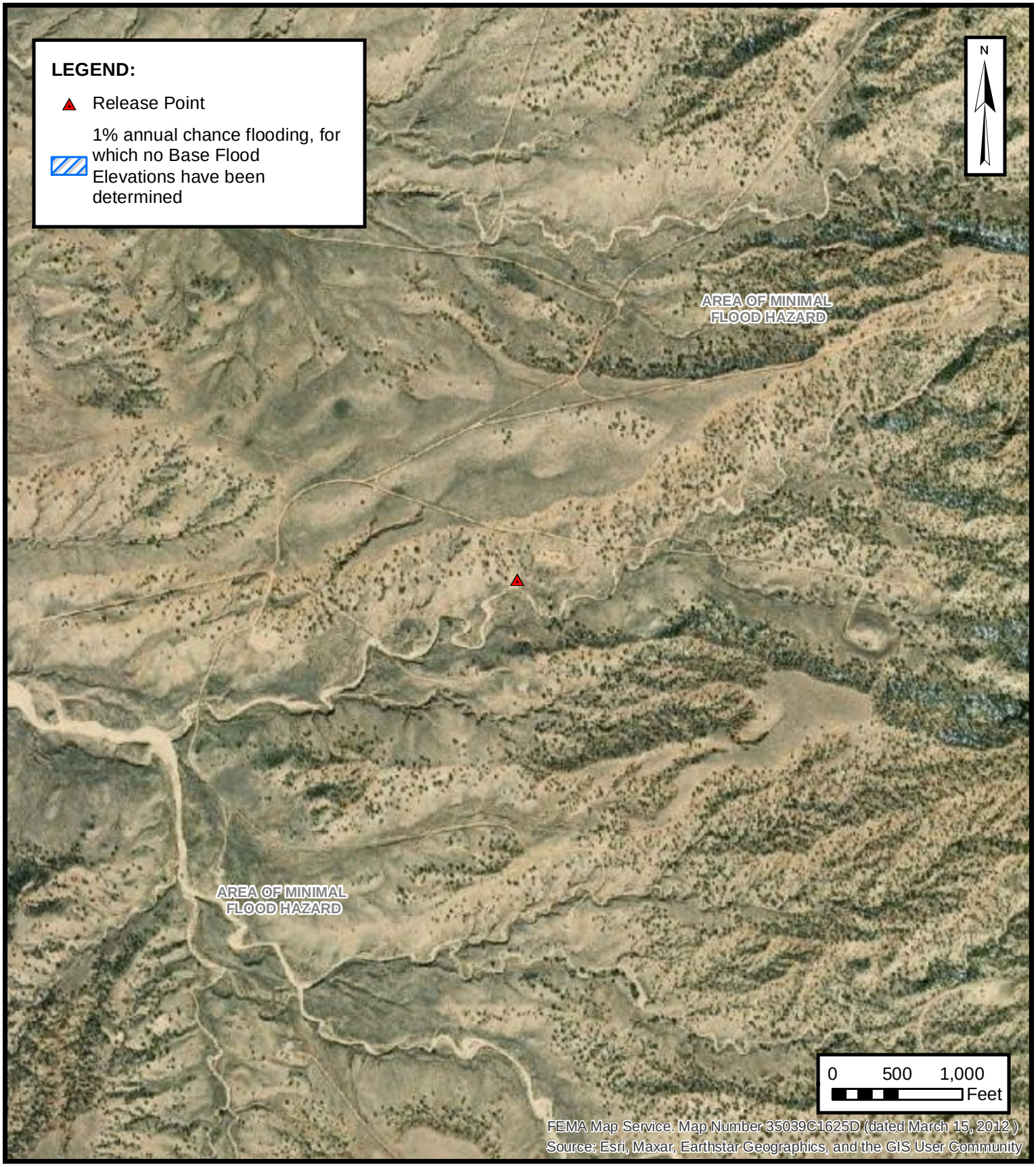
MINES, MILLS AND QUARRIES

ENTERPRISE FIELD SERVICES, LLC
HODGES #8E (06/14/22)
Unit Letter D, S21 T26N R8W, San Juan County, New Mexico
36.47748° N, 107.693722° W

PROJECT NUMBER: 05A1226195

FIGURE

G



ENSOLUM
Environmental & Hydrogeologic Consultants

100-YEAR FLOOD PLAIN MAP

ENTERPRISE FIELD SERVICES, LLC
HODGES #8E (06/14/22)
Unit Letter D, S21 T26N R8W, San Juan County, New Mexico
36.47748° N, 107.693722° W

PROJECT NUMBER: 05A1226195

FIGURE
H

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

No records found.

PLSS Search:

Section(s): 21, 15, 16, 17, 20, 22, 27, 28, 29 **Township:** 26N **Range:** 08W

ENSOLUM

APPENDIX C

Executed C-138 Solid Waste Acceptance Form

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

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

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.
97057-1125

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

PayKey: EM20767
PM: ME Eddleman
AFE: TBD

2. Originating Site:
Hodges #8E

3. Location of Material (Street Address, City, State or ULSTR):
UL D Section 21 T26N R8W; N36.477480 W-107.693722

June - August

4. Source and Description of Waste:
Source: Remediation activities associated with a natural gas pipeline leak.
Description: Hydrocarbon/Condensate impacted soil associated natural gas pipeline release.
Estimated Volume 50 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 396 yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Brian Stone BM Stone, 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, Brian Stone BM Stone 06-16-2022, 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: Kelly Oil Field Services

OCD Permitted Surface Waste Management Facility

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

Waste Acceptance Status:

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

PRINT NAME: Greg Crabtree TITLE: Enviro Manager DATE: 6/17/22
SIGNATURE: TELEPHONE NO.:
Surface Waste Management Facility Authorized Agent 505-632-0615

ENSOLUM

APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Hodges #8E (06/14/22)
Ensolum Project No. 05A1226195

ENSOLUM

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

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Hodges #8E (06/14/22)
Ensolum Project No. 05A1226195

ENSOLUM

Photograph 4 Photograph Description: View of the final excavation.	
Photograph 5 Photograph Description: View of the final flow path excavation.	
Photograph 6 Photograph Description: View of the final flow path excavation.	

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Hodges #8E (06/14/22)
Ensolum Project No. 05A1226195

ENSOLUM

Photograph 7 Photograph Description: View of the site after initial restoration.	
Photograph 8 Photograph Description: View of the site after initial restoration.	

ENSOLUM

APPENDIX E

Regulatory Correspondence

From: Kyle Summers
To: Ranee Deechilly
Subject: FW: [EXTERNAL] Hodges #8E - UL D Section 21 T26N R8W; 36.477480, -107.693722
Date: Friday, July 22, 2022 8:11:14 AM
Attachments: image003.png
image004.png
image005.png

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Friday, July 22, 2022 8:10 AM
To: Long, Thomas <tjlong@eprod.com>; rjoyner@blm.gov
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] Hodges #8E - UL D Section 21 T26N R8W; 36.477480, -107.693722

[**EXTERNAL EMAIL**]

Tom,

Thank you for the notice. Your variance request is approved by NMOCD.

If an OCD representative is not on-site on the date &/or time given, please proceed with your sampling. For whatever reason, the sample collection timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of the rescheduling may result in the sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

Thanks again

Regards,

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

Hrs.: 7:00–11:00 am & 12:00–3:30 pm Mon.–Thur.
7:00-11:00 am & 12:00-4:00 pm Fri.

From: Long, Thomas <tjlong@eprod.com>

Sent: Thursday, July 21, 2022 3:46 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; rjoyner@blm.gov
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: FW: [EXTERNAL] Hodges #8E - UL D Section 21 T26N R8W; 36.477480, -107.693722

Nelson/Ryan,

This email is a notification and a variance request. Enterprise is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect closure samples tomorrow July 22, 2022 at 1:00 p.m. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

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

Enterprise Products

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Tuesday, June 21, 2022 2:43 PM
To: Long, Thomas <tjlong@eprod.com>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: RE: [EXTERNAL] Hodges #8E - UL D Section 21 T26N R8W; 36.477480, -107.693722

[Use caution with links/attachments]

In light of Enterprise personnel inadvertently not recognizing the specifics categorizing this as a major release, OCD accepts todays NOR submittal for the June 14th date of discovery.

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

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

Regards,

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

Hrs.: 7:00–11:00 am & 12:00–3:30 pm Mon.–Thur.
7:00-11:00 am & 12:00-4:00 pm Fri.

From: Long, Thomas <tjlong@eprod.com>
Sent: Tuesday, June 21, 2022 2:21 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: [EXTERNAL] Hodges #8E - UL D Section 21 T26N R8W; 36.477480, -107.693722

Nelson,

This email is a follow up to our phone conversation earlier. Enterprise had a release of natural gas and natural gas liquids from the Hodges #8E pipeline on June 14, 2022. Liquids ran down hill approximately 60 feet entering a wash. The liquids terminated approximately five feet within the wash. The pipeline has been isolated, depressurized, locked and tagged out. No fires nor injures resulted from the release. I will proceed to submit a NOR and the subsequent Initial C-141. If you have any questions, please call or email.

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

ENSOLUM

APPENDIX F

Table 1 – Soil Analytical Summary

ENSOLUM

TABLE 1
Hodges #8E (06/14/22)
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	7.22.22	C	10	0.025	0.037	<0.035	<0.070	0.062	<3.5	<14	<48	ND	<60
S-2	7.22.22	C	10	<0.016	<0.033	<0.033	<0.066	ND	<3.3	<14	<47	ND	<60
S-3	7.22.22	C	0 to 10	<0.016	<0.033	<0.033	<0.065	ND	<3.3	<14	<48	ND	<59
S-4	7.22.22	C	0 to 10	<0.018	<0.037	<0.037	<0.074	ND	<3.7	<15	<50	ND	<60
S-5	7.22.22	C	0 to 10	<0.019	<0.037	<0.037	<0.074	ND	<3.7	<14	<46	ND	<60
S-6	7.22.22	C	0 to 10	<0.016	<0.031	<0.031	<0.062	ND	<3.1	<15	<49	ND	<60
S-7	7.22.22	C	0 to 10	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<15	<50	ND	<60
S-8	7.22.22	C	0 to 10	<0.017	<0.035	<0.035	<0.069	ND	<3.5	<14	<47	ND	<60
S-9	7.22.22	C	0 to 10	<0.016	<0.032	<0.032	<0.064	ND	<3.2	<14	<47	ND	<60
S-10	7.22.22	C	0 to 4	<0.017	<0.033	<0.033	<0.067	ND	<3.3	<14	<48	ND	<60
S-11	7.22.22	C	0 to 4	<0.018	<0.037	<0.037	<0.073	ND	<3.7	45	<50	45	<60
S-12	7.22.22	C	0 to 4	<0.016	<0.032	<0.032	<0.065	ND	<3.2	<14	<46	ND	<60
S-13	7.22.22	C	0 to 4	<0.018	<0.035	<0.035	<0.071	ND	<3.5	<14	<45	ND	<60
S-14	7.22.22	C	0 to 4	<0.015	<0.031	<0.031	<0.062	ND	3.6	50	<50	54	<60

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

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

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

NA = Not Analyzed

NE = Not established

mg/kg = milligram 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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 27, 2022

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Hodges 8E OrderNo.: 2207B85

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 14 sample(s) on 7/23/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2207B85**
Date Reported: **7/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-1
Project: Hodges 8E
Collection Date: 7/22/2022 1:30:00 PM
Lab ID: 2207B85-001 **Matrix:** SOIL **Received Date:** 7/23/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	7/25/2022 11:01:00 AM	69029
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/25/2022 11:11:09 AM	69023
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/25/2022 11:11:09 AM	69023
Surr: DNOP	95.3	21-129		%Rec	1	7/25/2022 11:11:09 AM	69023
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	7/23/2022 5:36:00 PM	R89738
Surr: BFB	92.3	37.7-212		%Rec	1	7/23/2022 5:36:00 PM	R89738
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	0.025	0.017		mg/Kg	1	7/23/2022 5:36:00 PM	R89738
Toluene	0.037	0.035		mg/Kg	1	7/23/2022 5:36:00 PM	R89738
Ethylbenzene	ND	0.035		mg/Kg	1	7/23/2022 5:36:00 PM	R89738
Xylenes, Total	ND	0.070		mg/Kg	1	7/23/2022 5:36:00 PM	R89738
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	7/23/2022 5:36:00 PM	R89738

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2207B85**
Date Reported: **7/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-2
Project: Hodges 8E
Collection Date: 7/22/2022 1:40:00 PM
Lab ID: 2207B85-002 **Matrix:** SOIL **Received Date:** 7/23/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	7/25/2022 11:13:21 AM	69029
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/25/2022 11:34:50 AM	69023
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/25/2022 11:34:50 AM	69023
Surr: DNOP	95.7	21-129		%Rec	1	7/25/2022 11:34:50 AM	69023
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	7/23/2022 5:56:00 PM	R89738
Surr: BFB	93.3	37.7-212		%Rec	1	7/23/2022 5:56:00 PM	R89738
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.016		mg/Kg	1	7/23/2022 5:56:00 PM	R89738
Toluene	ND	0.033		mg/Kg	1	7/23/2022 5:56:00 PM	R89738
Ethylbenzene	ND	0.033		mg/Kg	1	7/23/2022 5:56:00 PM	R89738
Xylenes, Total	ND	0.066		mg/Kg	1	7/23/2022 5:56:00 PM	R89738
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	7/23/2022 5:56:00 PM	R89738

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207B85**
Date Reported: **7/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-3
Project: Hodges 8E
Collection Date: 7/22/2022 1:45:00 PM
Lab ID: 2207B85-003 **Matrix:** SOIL **Received Date:** 7/23/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	59		mg/Kg	20	7/25/2022 11:25:41 AM	69029
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/25/2022 11:58:31 AM	69023
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/25/2022 11:58:31 AM	69023
Surr: DNOP	95.3	21-129		%Rec	1	7/25/2022 11:58:31 AM	69023
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	7/23/2022 6:16:00 PM	R89738
Surr: BFB	95.1	37.7-212		%Rec	1	7/23/2022 6:16:00 PM	R89738
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.016		mg/Kg	1	7/23/2022 6:16:00 PM	R89738
Toluene	ND	0.033		mg/Kg	1	7/23/2022 6:16:00 PM	R89738
Ethylbenzene	ND	0.033		mg/Kg	1	7/23/2022 6:16:00 PM	R89738
Xylenes, Total	ND	0.065		mg/Kg	1	7/23/2022 6:16:00 PM	R89738
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	7/23/2022 6:16:00 PM	R89738

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2207B85**
Date Reported: **7/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-4
Project: Hodges 8E
Collection Date: 7/22/2022 1:50:00 PM
Lab ID: 2207B85-004 **Matrix:** SOIL **Received Date:** 7/23/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	7/25/2022 11:38:02 AM	69029
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/25/2022 12:22:17 PM	69023
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/25/2022 12:22:17 PM	69023
Surr: DNOP	89.9	21-129		%Rec	1	7/25/2022 12:22:17 PM	69023
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	7/23/2022 6:35:00 PM	R89738
Surr: BFB	92.9	37.7-212		%Rec	1	7/23/2022 6:35:00 PM	R89738
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.018		mg/Kg	1	7/23/2022 6:35:00 PM	R89738
Toluene	ND	0.037		mg/Kg	1	7/23/2022 6:35:00 PM	R89738
Ethylbenzene	ND	0.037		mg/Kg	1	7/23/2022 6:35:00 PM	R89738
Xylenes, Total	ND	0.074		mg/Kg	1	7/23/2022 6:35:00 PM	R89738
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	7/23/2022 6:35:00 PM	R89738

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207B85**
Date Reported: **7/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-5
Project: Hodges 8E
Collection Date: 7/22/2022 1:55:00 PM
Lab ID: 2207B85-005 **Matrix:** SOIL **Received Date:** 7/23/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	7/25/2022 11:50:23 AM	69029
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/25/2022 11:00:27 AM	69023
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/25/2022 11:00:27 AM	69023
Surr: DNOP	80.1	21-129		%Rec	1	7/25/2022 11:00:27 AM	69023
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	7/23/2022 6:55:00 PM	R89738
Surr: BFB	86.5	37.7-212		%Rec	1	7/23/2022 6:55:00 PM	R89738
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.019		mg/Kg	1	7/23/2022 6:55:00 PM	R89738
Toluene	ND	0.037		mg/Kg	1	7/23/2022 6:55:00 PM	R89738
Ethylbenzene	ND	0.037		mg/Kg	1	7/23/2022 6:55:00 PM	R89738
Xylenes, Total	ND	0.074		mg/Kg	1	7/23/2022 6:55:00 PM	R89738
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	1	7/23/2022 6:55:00 PM	R89738

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207B85**
Date Reported: **7/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-6
Project: Hodges 8E
Collection Date: 7/22/2022 2:00:00 PM
Lab ID: 2207B85-006 **Matrix:** SOIL **Received Date:** 7/23/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	7/25/2022 12:02:44 PM	69029
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/25/2022 11:13:59 AM	69023
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/25/2022 11:13:59 AM	69023
Surr: DNOP	87.2	21-129		%Rec	1	7/25/2022 11:13:59 AM	69023
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	7/23/2022 7:15:00 PM	R89738
Surr: BFB	87.7	37.7-212		%Rec	1	7/23/2022 7:15:00 PM	R89738
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.016		mg/Kg	1	7/23/2022 7:15:00 PM	R89738
Toluene	ND	0.031		mg/Kg	1	7/23/2022 7:15:00 PM	R89738
Ethylbenzene	ND	0.031		mg/Kg	1	7/23/2022 7:15:00 PM	R89738
Xylenes, Total	ND	0.062		mg/Kg	1	7/23/2022 7:15:00 PM	R89738
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	1	7/23/2022 7:15:00 PM	R89738

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207B85**
Date Reported: **7/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-7
Project: Hodges 8E
Collection Date: 7/22/2022 2:05:00 PM
Lab ID: 2207B85-007 **Matrix:** SOIL **Received Date:** 7/23/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	ND	60		mg/Kg	20	7/25/2022 12:15:06 PM	69029
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/25/2022 11:27:43 AM	69023
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/25/2022 11:27:43 AM	69023
Surr: DNOP	83.4	21-129		%Rec	1	7/25/2022 11:27:43 AM	69023
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**CCM**
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	7/23/2022 7:35:00 PM	R89738
Surr: BFB	91.8	37.7-212		%Rec	1	7/23/2022 7:35:00 PM	R89738
EPA METHOD 8021B: VOLATILES						Analyst:	**CCM**
Benzene	ND	0.018		mg/Kg	1	7/23/2022 7:35:00 PM	R89738
Toluene	ND	0.036		mg/Kg	1	7/23/2022 7:35:00 PM	R89738
Ethylbenzene	ND	0.036		mg/Kg	1	7/23/2022 7:35:00 PM	R89738
Xylenes, Total	ND	0.072		mg/Kg	1	7/23/2022 7:35:00 PM	R89738
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	7/23/2022 7:35:00 PM	R89738

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207B85**
Date Reported: **7/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-8
Project: Hodges 8E
Collection Date: 7/22/2022 2:10:00 PM
Lab ID: 2207B85-008 **Matrix:** SOIL **Received Date:** 7/23/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	7/25/2022 12:27:26 PM	69029
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/25/2022 11:41:16 AM	69023
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/25/2022 11:41:16 AM	69023
Surr: DNOP	90.6	21-129		%Rec	1	7/25/2022 11:41:16 AM	69023
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	7/23/2022 7:55:00 PM	R89738
Surr: BFB	87.5	37.7-212		%Rec	1	7/23/2022 7:55:00 PM	R89738
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.017		mg/Kg	1	7/23/2022 7:55:00 PM	R89738
Toluene	ND	0.035		mg/Kg	1	7/23/2022 7:55:00 PM	R89738
Ethylbenzene	ND	0.035		mg/Kg	1	7/23/2022 7:55:00 PM	R89738
Xylenes, Total	ND	0.069		mg/Kg	1	7/23/2022 7:55:00 PM	R89738
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	7/23/2022 7:55:00 PM	R89738

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207B85**
Date Reported: **7/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-9
Project: Hodges 8E
Collection Date: 7/22/2022 2:15:00 PM
Lab ID: 2207B85-009 **Matrix:** SOIL **Received Date:** 7/23/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	7/25/2022 1:04:28 PM	69029
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/25/2022 11:55:00 AM	69023
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/25/2022 11:55:00 AM	69023
Surr: DNOP	78.5	21-129		%Rec	1	7/25/2022 11:55:00 AM	69023
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	7/23/2022 8:15:00 PM	R89738
Surr: BFB	88.6	37.7-212		%Rec	1	7/23/2022 8:15:00 PM	R89738
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.016		mg/Kg	1	7/23/2022 8:15:00 PM	R89738
Toluene	ND	0.032		mg/Kg	1	7/23/2022 8:15:00 PM	R89738
Ethylbenzene	ND	0.032		mg/Kg	1	7/23/2022 8:15:00 PM	R89738
Xylenes, Total	ND	0.064		mg/Kg	1	7/23/2022 8:15:00 PM	R89738
Surr: 4-Bromofluorobenzene	87.5	70-130		%Rec	1	7/23/2022 8:15:00 PM	R89738

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207B85**
Date Reported: **7/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-10
Project: Hodges 8E
Collection Date: 7/22/2022 3:00:00 PM
Lab ID: 2207B85-010 **Matrix:** SOIL **Received Date:** 7/23/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	7/25/2022 1:16:49 PM	69029
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/25/2022 12:08:36 PM	69023
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/25/2022 12:08:36 PM	69023
Surr: DNOP	82.8	21-129		%Rec	1	7/25/2022 12:08:36 PM	69023
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	7/23/2022 8:34:00 PM	R89738
Surr: BFB	90.8	37.7-212		%Rec	1	7/23/2022 8:34:00 PM	R89738
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.017		mg/Kg	1	7/23/2022 8:34:00 PM	R89738
Toluene	ND	0.033		mg/Kg	1	7/23/2022 8:34:00 PM	R89738
Ethylbenzene	ND	0.033		mg/Kg	1	7/23/2022 8:34:00 PM	R89738
Xylenes, Total	ND	0.067		mg/Kg	1	7/23/2022 8:34:00 PM	R89738
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	7/23/2022 8:34:00 PM	R89738

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207B85**
Date Reported: **7/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-11
Project: Hodges 8E
Collection Date: 7/22/2022 3:05:00 PM
Lab ID: 2207B85-011 **Matrix:** SOIL **Received Date:** 7/23/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	7/25/2022 1:29:10 PM	69029
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	45	15		mg/Kg	1	7/25/2022 12:22:30 PM	69023
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/25/2022 12:22:30 PM	69023
Surr: DNOP	86.2	21-129		%Rec	1	7/25/2022 12:22:30 PM	69023
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	7/25/2022 10:58:08 AM	69014
Surr: BFB	97.8	37.7-212		%Rec	1	7/25/2022 10:58:08 AM	69014
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.018		mg/Kg	1	7/23/2022 9:34:00 PM	R89738
Toluene	ND	0.037		mg/Kg	1	7/23/2022 9:34:00 PM	R89738
Ethylbenzene	ND	0.037		mg/Kg	1	7/23/2022 9:34:00 PM	R89738
Xylenes, Total	ND	0.073		mg/Kg	1	7/23/2022 9:34:00 PM	R89738
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	7/23/2022 9:34:00 PM	R89738

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207B85**
Date Reported: **7/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-12
Project: Hodges 8E
Collection Date: 7/22/2022 3:10:00 PM
Lab ID: 2207B85-012 **Matrix:** SOIL **Received Date:** 7/23/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	7/25/2022 1:41:31 PM	69029
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/25/2022 12:36:23 PM	69023
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/25/2022 12:36:23 PM	69023
Surr: DNOP	84.4	21-129		%Rec	1	7/25/2022 12:36:23 PM	69023
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	7/25/2022 11:21:42 AM	69014
Surr: BFB	104	37.7-212		%Rec	1	7/25/2022 11:21:42 AM	69014
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.016		mg/Kg	1	7/23/2022 9:54:00 PM	R89738
Toluene	ND	0.032		mg/Kg	1	7/23/2022 9:54:00 PM	R89738
Ethylbenzene	ND	0.032		mg/Kg	1	7/23/2022 9:54:00 PM	R89738
Xylenes, Total	ND	0.065		mg/Kg	1	7/23/2022 9:54:00 PM	R89738
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	7/23/2022 9:54:00 PM	R89738

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2207B85**
Date Reported: **7/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-13
Project: Hodges 8E
Collection Date: 7/22/2022 3:15:00 PM
Lab ID: 2207B85-013 **Matrix:** SOIL **Received Date:** 7/23/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	7/25/2022 1:53:51 PM	69029
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/25/2022 12:50:23 PM	69023
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/25/2022 12:50:23 PM	69023
Surr: DNOP	83.9	21-129		%Rec	1	7/25/2022 12:50:23 PM	69023
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	7/25/2022 11:45:21 AM	69014
Surr: BFB	105	37.7-212		%Rec	1	7/25/2022 11:45:21 AM	69014
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.018		mg/Kg	1	7/23/2022 10:13:00 PM	R89738
Toluene	ND	0.035		mg/Kg	1	7/23/2022 10:13:00 PM	R89738
Ethylbenzene	ND	0.035		mg/Kg	1	7/23/2022 10:13:00 PM	R89738
Xylenes, Total	ND	0.071		mg/Kg	1	7/23/2022 10:13:00 PM	R89738
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	7/23/2022 10:13:00 PM	R89738

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2207B85**
Date Reported: **7/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: S-14
Project: Hodges 8E
Collection Date: 7/22/2022 3:20:00 PM
Lab ID: 2207B85-014 **Matrix:** SOIL **Received Date:** 7/23/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	7/25/2022 2:06:12 PM	69029
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	50	15		mg/Kg	1	7/25/2022 1:04:15 PM	69023
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/25/2022 1:04:15 PM	69023
Surr: DNOP	80.1	21-129		%Rec	1	7/25/2022 1:04:15 PM	69023
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	3.6	3.1		mg/Kg	1	7/25/2022 12:09:04 PM	69014
Surr: BFB	138	37.7-212		%Rec	1	7/25/2022 12:09:04 PM	69014
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.015		mg/Kg	1	7/23/2022 10:33:00 PM	R89738
Toluene	ND	0.031		mg/Kg	1	7/23/2022 10:33:00 PM	R89738
Ethylbenzene	ND	0.031		mg/Kg	1	7/23/2022 10:33:00 PM	R89738
Xylenes, Total	ND	0.062		mg/Kg	1	7/23/2022 10:33:00 PM	R89738
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	7/23/2022 10:33:00 PM	R89738

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207B85**

27-Jul-22

Client: ENSOLUM

Project: Hodges 8E

Sample ID: **MB-69029**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **69029**	RunNo: **89765**
Prep Date: **7/25/2022**	Analysis Date: **7/25/2022**	SeqNo: **3196984** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-69029**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **69029**	RunNo: **89765**
Prep Date: **7/25/2022**	Analysis Date: **7/25/2022**	SeqNo: **3196985** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207B85**

27-Jul-22

Client: ENSOLUM

Project: Hodges 8E

Sample ID: **MB-69023**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69023**	RunNo: **89754**
Prep Date: **7/25/2022**	Analysis Date: **7/25/2022**	SeqNo: **3196276** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		88.5	21	129			

Sample ID: **LCS-69023**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69023**	RunNo: **89754**
Prep Date: **7/25/2022**	Analysis Date: **7/25/2022**	SeqNo: **3196277** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	50.00	0	87.9	64.4	127			
Surr: DNOP	4.3		5.000		85.8	21	129			

Sample ID: **2207B85-002AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-2**	Batch ID: **69023**	RunNo: **89754**
Prep Date: **7/25/2022**	Analysis Date: **7/25/2022**	SeqNo: **3197716** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	14	46.64	0	92.3	36.1	154			
Surr: DNOP	4.3		4.664		92.5	21	129			

Sample ID: **2207B85-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **S-2**	Batch ID: **69023**	RunNo: **89754**
Prep Date: **7/25/2022**	Analysis Date: **7/25/2022**	SeqNo: **3197717** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	48.54	0	93.0	36.1	154	4.77	33.9	
Surr: DNOP	4.6		4.854		94.4	21	129	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207B85**

27-Jul-22

Client: ENSOLUM

Project: Hodges 8E

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R89738**	RunNo: **89738**
Prep Date:	Analysis Date: **7/23/2022**	SeqNo: **3195597** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.2	72.3	137			
Surr: BFB	2000		1000		199	37.7	212			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R89738**	RunNo: **89738**
Prep Date:	Analysis Date: **7/23/2022**	SeqNo: **3195598** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		93.6	37.7	212			

Sample ID: **mb-69014**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **69014**	RunNo: **89759**
Prep Date: **7/23/2022**	Analysis Date: **7/25/2022**	SeqNo: **3196547** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	37.7	212			

Sample ID: **lcs-69014**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **69014**	RunNo: **89759**
Prep Date: **7/23/2022**	Analysis Date: **7/25/2022**	SeqNo: **3196548** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	72.3	137			
Surr: BFB	2100		1000		209	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2207B85**
27-Jul-22

Client: ENSOLUM
Project: Hodges 8E

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R89738**	RunNo: **89738**
Prep Date:	Analysis Date: **7/23/2022**	SeqNo: **3195612** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.7	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.9	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R89738**	RunNo: **89738**
Prep Date:	Analysis Date: **7/23/2022**	SeqNo: **3195613** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		92.9	70	130			

Sample ID: **2207B85-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2**	Batch ID: **R89738**	RunNo: **89738**
Prep Date:	Analysis Date: **7/23/2022**	SeqNo: **3195629** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.65	0.016	0.6553	0	99.7	68.8	120			
Toluene	0.68	0.033	0.6553	0	103	73.6	124			
Ethylbenzene	0.68	0.033	0.6553	0	104	72.7	129			
Xylenes, Total	2.0	0.066	1.966	0	104	75.7	126			
Surr: 4-Bromofluorobenzene	0.55		0.6553		84.4	70	130			

Sample ID: **2207B85-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2**	Batch ID: **R89738**	RunNo: **89738**
Prep Date:	Analysis Date: **7/24/2022**	SeqNo: **3195630** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.63	0.016	0.6553	0	95.9	68.8	120	3.88	20	
Toluene	0.65	0.033	0.6553	0	99.3	73.6	124	3.72	20	
Ethylbenzene	0.66	0.033	0.6553	0	101	72.7	129	2.86	20	
Xylenes, Total	2.0	0.066	1.966	0	102	75.7	126	2.29	20	
Surr: 4-Bromofluorobenzene	0.54		0.6553		82.9	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2207B85**

27-Jul-22

Client: ENSOLUM

Project: Hodges 8E

Sample ID: **mb-69014**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **69014**	RunNo: **89759**
Prep Date: **7/23/2022**	Analysis Date: **7/25/2022**	SeqNo: **3196589** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		99.5	70	130			

Sample ID: **LCS-69014**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **69014**	RunNo: **89759**
Prep Date: **7/23/2022**	Analysis Date: **7/25/2022**	SeqNo: **3196590** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: ENSOLUM | Work Order Number: 2207B85 | RcptNo: 1

Received By: **Juan Rojas** 7/23/2022 8:10:00 AM

Completed By: **Juan Rojas** 7/23/2022 8:32:55 AM

Reviewed By: 07/23/2022

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JM 7/23/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good				

Chain-of-Custody Record

Client: Ensolum, LLC

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

Phone #:

email or Fax#: KSummers@ensolum.com

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

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

Turn-Around Time: SAME DAY
☐ Standard ☒ Rush 1006

Project Name: Hodges #8E

Project #: See notes

Project Manager: KSummers

Sampler: RDecchilly

On Ice: ☐ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.5-0.2=0.6 (°C)

HEAL No. 2207385

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / ~~MTBE~~ / ~~TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride
7/22/22	1330	S	S-1	1x4oz Jar	cool	-001	X	X									X
7/22/22	1340	S	S-2	1x4oz Jar	cool	-002	X	X									X
7/22/22	1345	S	S-3	1x4oz Jar	cool	-003	X	X									X
7/22/22	1350	S	S-4	1x4oz Jar	cool	-004	X	X									X
7/22/22	1355	S	S-5	1x4oz Jar	cool	-005	X	X									X
7/22/22	1400	S	S-6	1x4oz Jar	cool	-006	X	X									X
7/22/22	1405	S	S-7	1x4oz Jar	cool	-007	X	X									X
7/22/22	1410	S	S-8	1x4oz Jar	cool	-008	X	X									X
7/22/22	1415	S	S-9	1x4oz Jar	cool	-009	X	X									X
7/22/22	1500	S	S-10	1x4oz Jar	cool	-010	X	X									X
7/22/22	1505	S	S-11	1x4oz Jar	cool	-011	X	X									X
7/22/22	1510	S	S-12	1x4oz Jar	cool	-012	X	X									X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
7/22/22	1707				7/22/22	1707
7/22/22	1811			courier	7/23/22	8:10

Remarks: SAME DAY ~~RUSH~~ PM - Tom Long (EDRoD)
PWS Key - RB21200
Non AFE - N60001

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

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande Suite A

Aztec, NM 87410

Phone #:

email or Fax#: Ksummers@ensolum.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: SAME DAY

☐ Standard ☒ Rush 10280

Project Name: Hodges #85

Project #: See notes

Project Manager: Ksummers

Sampler: R Duchesky

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.5-0.2=0.6 (°C)

HEAL No. 2207355 ~~2206F46~~ 7/25/22

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / ~~MTBE / TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride
7/22/22	1515	S	S-13	1x4oz Jar	cool	-013	X	X									X
7/22/22	1520	S	S-14	1x4oz Jar	cool	-014	X	X									X

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7/22/22	1707				7/22/22	1707
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7/22/22	RIW			courier	7/23/22	8:10

Remarks: SAMEDAY PM - Tom Long (CEPROD) PWSKey - RB21200 NonAFE - N60001

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.

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

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

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 150039
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	11/14/2022