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)*:**nAPP2204526979**
Contact mailing address: **614 Reilly Ave, Farmington, NM 87401**	

Location of Release Source

Latitude **36.82173** Longitude **-107.54646** *(NAD 83 in decimal degrees to 5 decimal places)*

Site Name **Blanco A-28**	Site Type **Natural Gas Gathering Pipeline**
Date Release Discovered: **02/03/2022**	Serial Number *(if applicable)*: **N/A**

Unit Letter	Section	Township	Range	County
M	**11**	**30N**	**7W**	**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): **5-10 BBLS**	Volume Recovered (bbls): **None**
☒ Natural Gas	Volume Released (Mcf): **2.03 MCF**	Volume Recovered (Mcf): **None**
☐ Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release: : On February 3, 2022, Enterprise had a release of natural gas and condensate from the Blanco A-28 pipeline. The pipeline was isolated, depressurized, locked and tagged out. No residents were affected. No washes or waterways were affected. No emergency services responded. No liquids were observed on the ground surface. On February 9, 2022, repairs remediation were initiated, at which time Enterprise determined the release was reportable per NMOCD regulation by the volume of subsurface soil impacted by liquids. Repairs and remediation were completed on February 11, 2022. The final excavation dimensions measured approximately 54 feet long by 16 feet wide by 4.5 feet deep. A total of 124 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: 05-09-2022

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: 05/20/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

ENSOLUM

CLOSURE REPORT

Property:

Blanco A-28 (2/3/22)
Unit Letter M, S11 T30N R7W
Rio Arriba County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2204526979

April 22, 2022
Ensolum Project No. 05A1226183

Prepared for:

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

Prepared by:

Landon Daniell
Staff Geologist

Kyle Summers
Senior Project Manager

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:	Blanco A-28 (2/3/22) (Site)
Incident ID	NAPP2204526979
Location:	36.82173° North, 107.54646° West Unit Letter M, Section 11, Township 30 North, Range 7 West Rio Arriba 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 February 3, 2022, a third party notified Enterprise of a possible leak on the Blanco A-28 pipeline. Enterprise verified the leak and subsequently isolated and locked the pipeline out of service. On February 9, 2022, Enterprise initiated activities to repair the pipeline and 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 NM EMNRD OCD. To address activities related to oil and gas releases, the NM EMNRD OCD references NM 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. Ensolum, LLC (Ensolum) utilized the general site characteristics and information available from the NM Office of the State Engineer (OSE) and the NM EMNRD OCD imaging database to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following bullets are provided in **Appendix B**.

- The 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. Five PODs (SJ-02366, SJ-02698, SJ-03640, SJ-03946-POD1, and SP-03453-23) were identified in adjacent sections. The closest POD (SP-03453-23) is located approximately 0.9 miles southeast of the Site. POD SP-03453-23 is a surface permit for industrial purposes. The only record available for this POD is an approved *Application for Permit for Additional POD Surface Waters*. The average depth to water for the other four PODS is 251 feet bgs (**Figure A**, **Appendix B**).

- Numerous cathodic protection wells (CPWs) were identified in the same or adjacent PLSS sections in the NM EMNRD OCD imaging database. The four closet CPWs are depicted on **Figure B**

(**Appendix B**). The record for the cathodic protection well located near the San Juan 30-6 Unit #84 and #461 well locations indicates dampness at approximately 320 feet bgs. This cathodic protection well is approximately 0.07 miles northwest of the Site and is at approximately the same elevation as the Site. The record for the cathodic protection well located near the San Juan 30-6 #66A well location indicates dampness at approximately 140 - 160 feet bgs. This cathodic protection well is approximately 0.4 miles southeast of the Site and is approximately 16 feet lower in elevation than the Site. The record for the cathodic protection well located near the San Juan 30-6 Unit #83 well location indicates a depth to water of approximately 115 feet bgs. This cathodic protection well is approximately 0.4 miles southwest of the Site and is approximately 90 feet lower in elevation than the Site. The records for the cathodic protection well located near the San Juan 30-6 #64A well location indicates a depth to water (seep) of approximately 240 feet bgs. This cathodic protection well is approximately 0.5 miles northeast of the Site and is approximately 58 feet higher in elevation than the Site.

- The Site is not located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C**, **Appendix B**).
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (**Figure D**, **Appendix B**).
- No springs, or private domestic 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.
- 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 the identified siting criteria, Enterprise estimates the depth to water at the Site to be greater than 50 feet bgs, resulting in a Tier II ranking. However, the soil requirements of NMAC 19.15.29.13(D)(1) indicate that a minimum of the upper four feet must contain "uncontaminated" soil and that the soils meet Tier I closure criteria listed in Table 1 of NMAC 19.15.29.12. None of the samples collected below four feet bgs exceeded the Tier I closure criteria, so Tier II closure criteria were not included in the report. The Tier I closure criteria 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 kilograms (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 February 9, 2022, 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 (West States) provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 54 feet long and 16 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 4.5 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of silty/clayey sand underlain by sandstone.

An estimated total of 124 cubic yards of petroleum hydrocarbon affected soil was 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 was compacted 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 ten composite soil samples (S-1 through S-10) 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. A hand tool was utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

On February 11, 2022, a 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 samples S-1 (4.5'), S-2 (2'), and S-3 (3'-4.5') were collected from the floor of the excavation. Composite soil samples S-4 (0'-4'), S-5 (0'-4.5'), S-6 (0'-4.5'), and S-7 (0'-4.5') were collected from the northern and southern walls of the excavation. Composite soil samples S-8 (0'-4') and was collected from the western end-wall of the excavation. Composite sample S-9 (0'-4.5') was collected from the unaffected stockpiled soil that represented the former eastern end-wall of the excavation. These soils were removed to allow for pipe replacement.

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-10) to the NM EMNRD OCD Tier I closure criteria.

- 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 Tier I closure criteria of 10 mg/kg.

- The laboratory analytical results composite soil samples S-1, S-2, S-4, and S-5 indicate total BTEX concentrations ranging from 0.10 mg/kg (S-1) to 0.19 mg/kg (S-4), which are less than the NM EMNRD OCD Tier I closure criteria of 50 mg/kg. The laboratory analytical results for all other composite soil samples indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD Tier I closure criteria of 50 mg/kg.

- The laboratory analytical result for composite soil sample S-10 indicates a combined TPH GRO/DRO/MRO concentration of 11 mg/kg, which is less than the NM EMNRD OCD Tier I 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 at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD Tier I closure criteria of 100 mg/kg.

- The laboratory analytical result for composite soil sample S-9 indicates a chloride concentration of 110 mg/kg, which is less than the NM EMNRD OCD Tier I closure criteria of 600 mg/kg. The laboratory analytical results for all other composite soil samples indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD Tier I closure criteria of 600 mg/kg.

The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

7.0 RECLAMATION AND REVEGETATION

The excavation was backfilled with clean imported fill and then contoured to the surrounding topography.

8.0 FINDINGS AND RECOMMENDATION

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

- Approximately 124 cubic yards of petroleum hydrocarbon affected soil was 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.

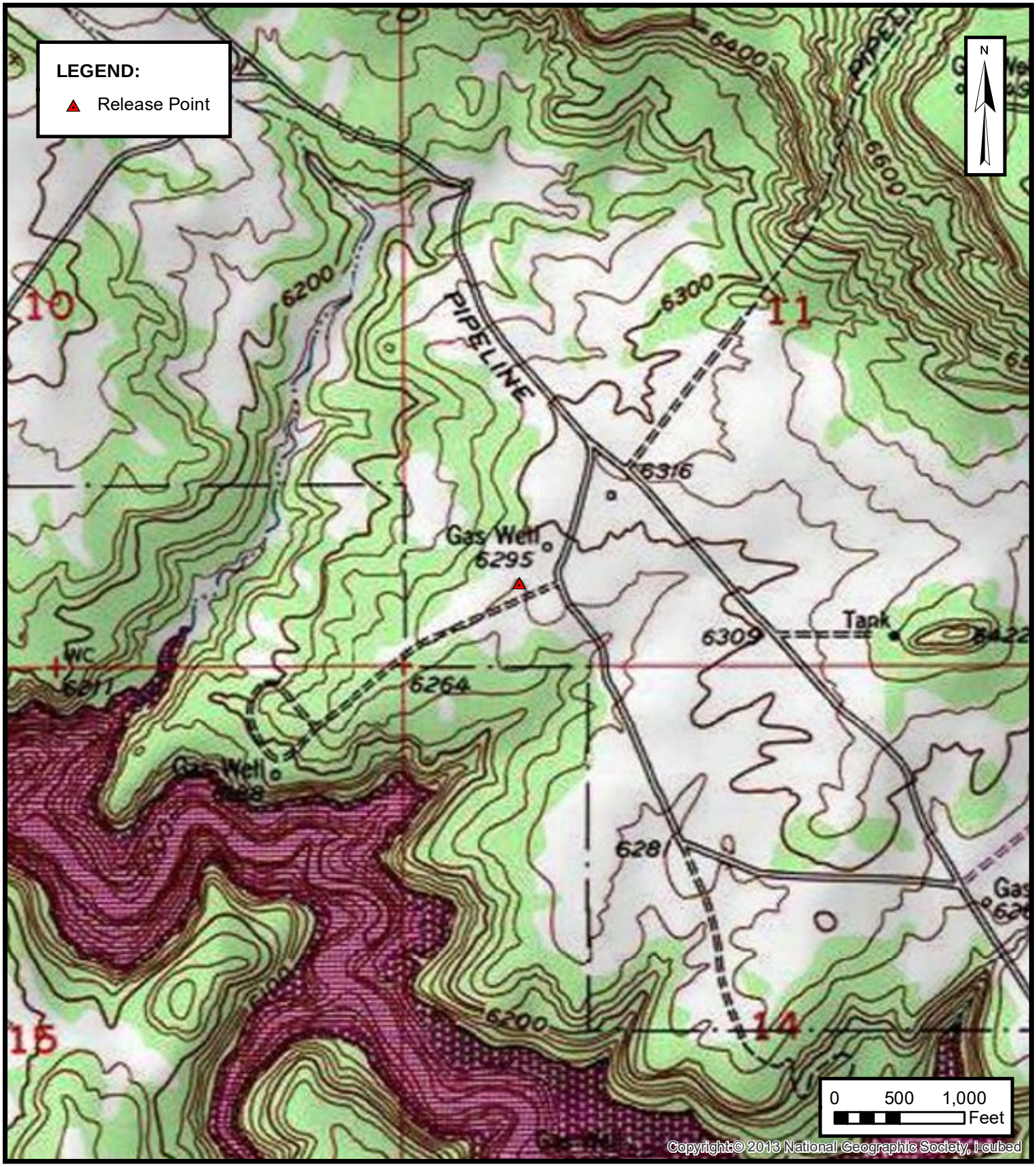
9.3 Reliance

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



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Environmental & Hydrogeologic Consultants

TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC
BLANCO A-28 (2/3/22)
Unit Letter M, S11 T30N R7W, Rio Arriba County, New Mexico
36.82173° N, 107.54646° W

PROJECT NUMBER: 05A1226183

FIGURE
1

ENSOLUM
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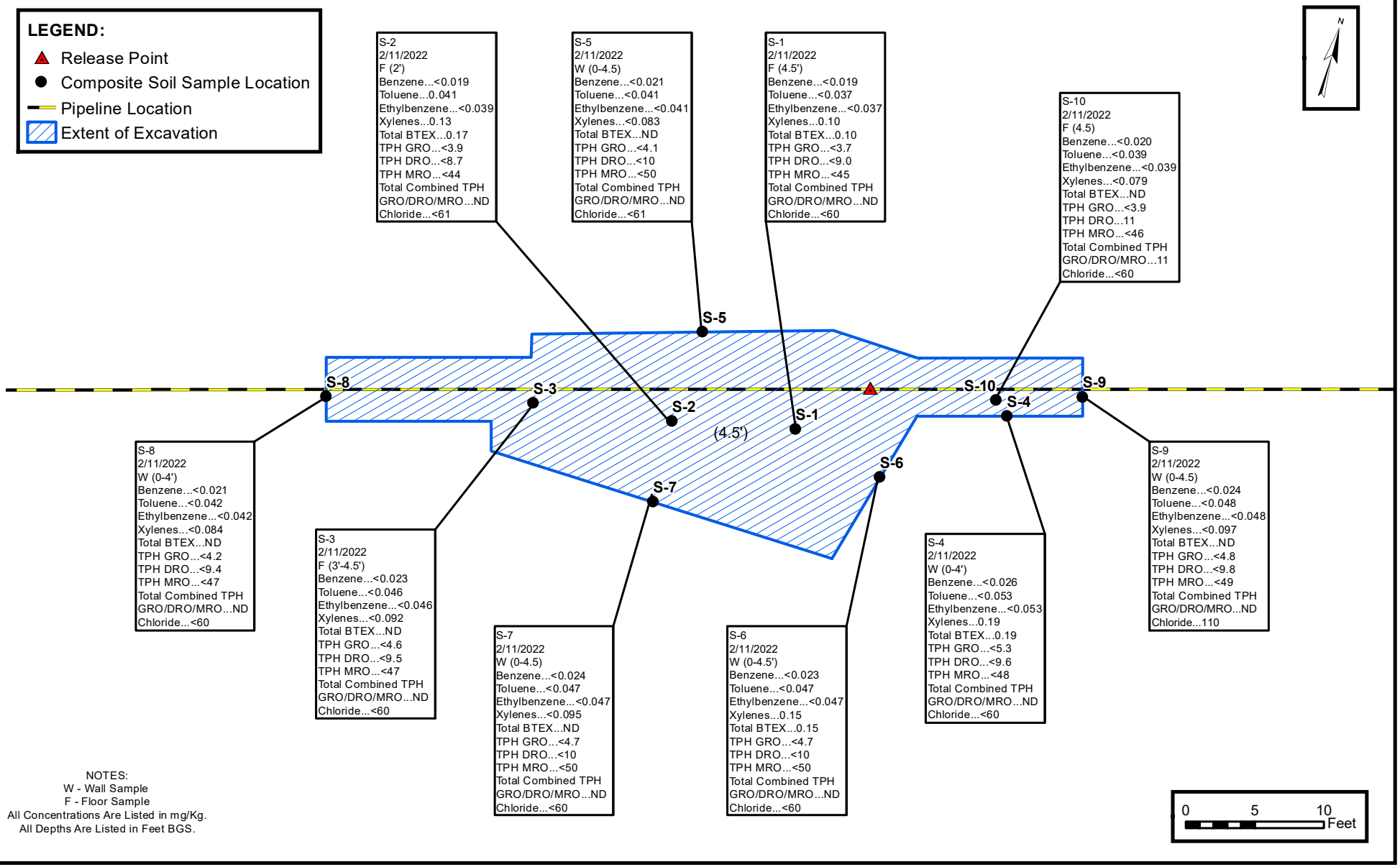
SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
BLANCO A-28 (2/3/22)
Unit Letter M, S11 T30N R7W, Rio Arriba County, New Mexico
36.82173° N, 107.54646° W

PROJECT NUMBER: 05A1226183

FIGURE
2



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SITE MAP WITH SOIL ANALYTICAL RESULTS

ENTERPRISE FIELD SERVICES, LLC
BLANCO A-28 (2/3/22)
Unit Letter M, S11 T30N R7W, Rio Arriba County, New Mexico
36.82173° N, 107.54646° W

PROJECT NUMBER: 05A1226183

FIGURE
3

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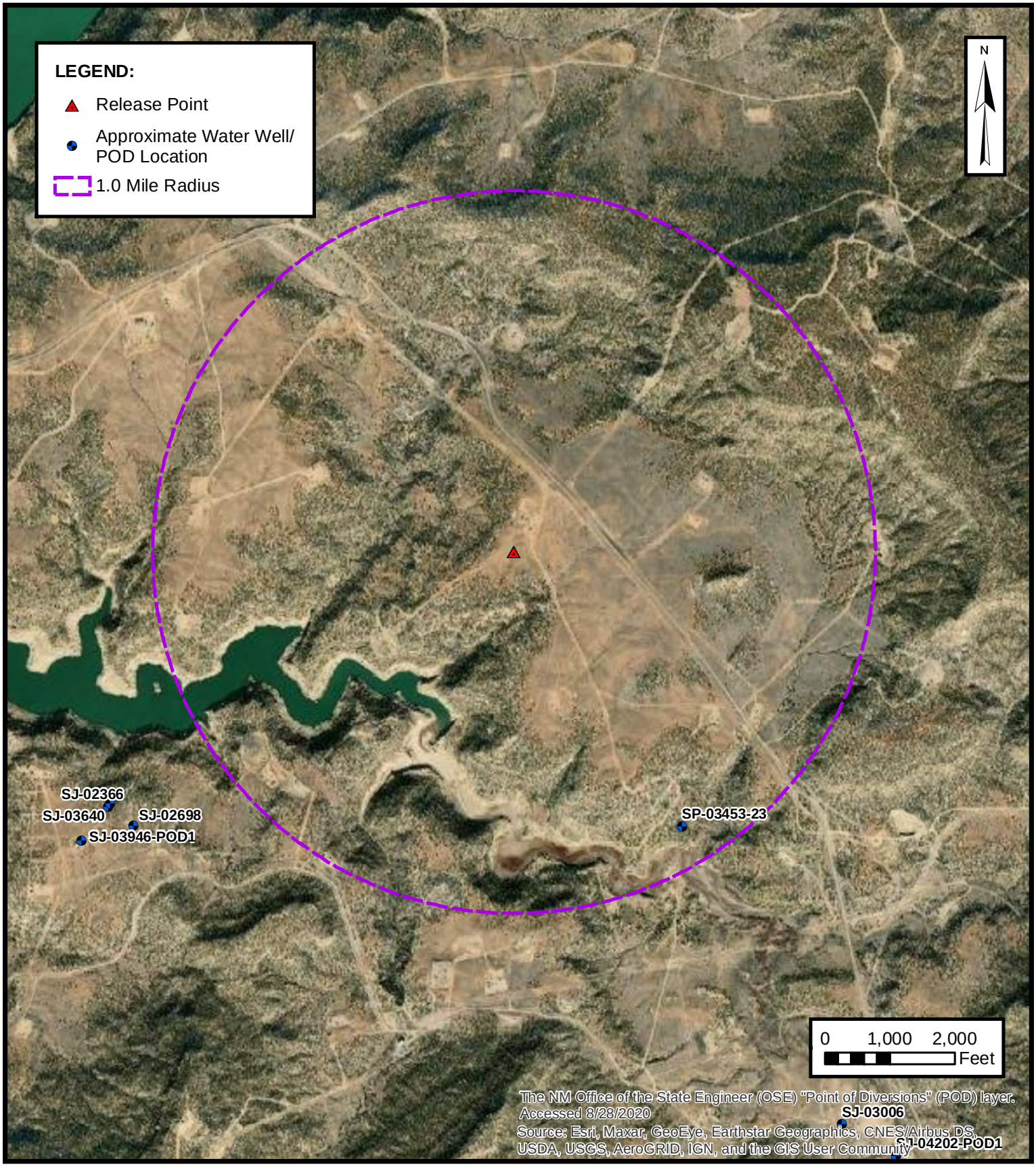
APPENDIX B

Siting Figures and Documentation



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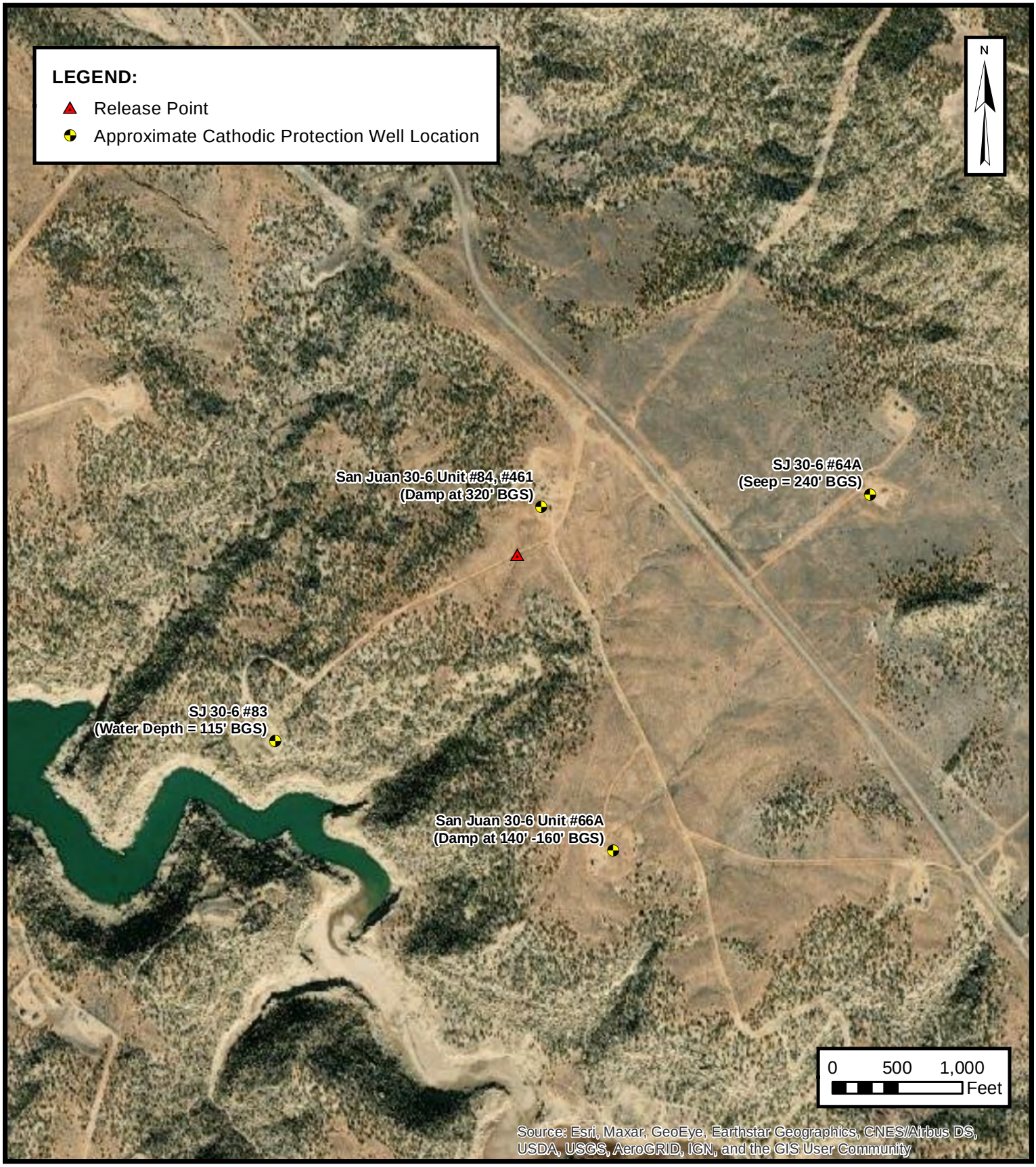
1.0 MILE RADIUS WATER WELL/ POD LOCATION MAP

ENTERPRISE FIELD SERVICES, LLC
BLANCO A-28 (2/3/22)
Unit Letter M, S11 T30N R7W, Rio Arriba County, New Mexico
36.82173° N, 107.54646° W

PROJECT NUMBER: 05A1226183

FIGURE

A



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Environmental & Hydrogeologic Consultants

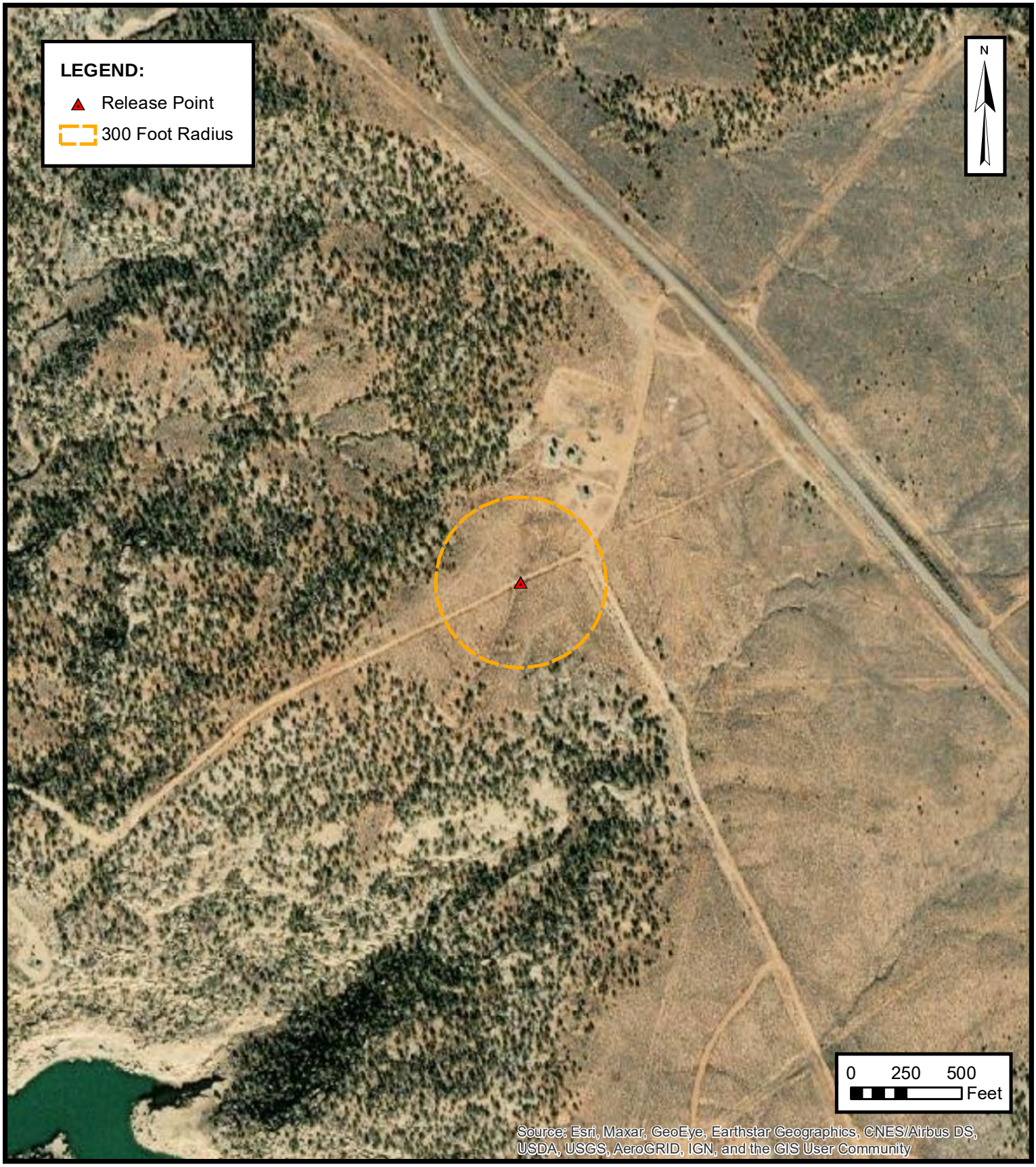
CATHODIC PROTECTION WELL RECORDED DEPTH TO WATER

ENTERPRISE FIELD SERVICES, LLC
BLANCO A-28 (2/3/22)
Unit Letter M, S11 T30N R7W, Rio Arriba County, New Mexico
36.82173° N, 107.54646° W

PROJECT NUMBER: 05A1226183

FIGURE

B



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300 FOOT RADIUS
WATERCOURSE AND DRAINAGE IDENTIFICATION
ENTERPRISE FIELD SERVICES, LLC
BLANCO A-28 (2/3/22)
Unit Letter M, S11 T30N R7W, Rio Arriba County, New Mexico
36.82173° N, 107.54646° W

PROJECT NUMBER: 05A1226183

FIGURE
C

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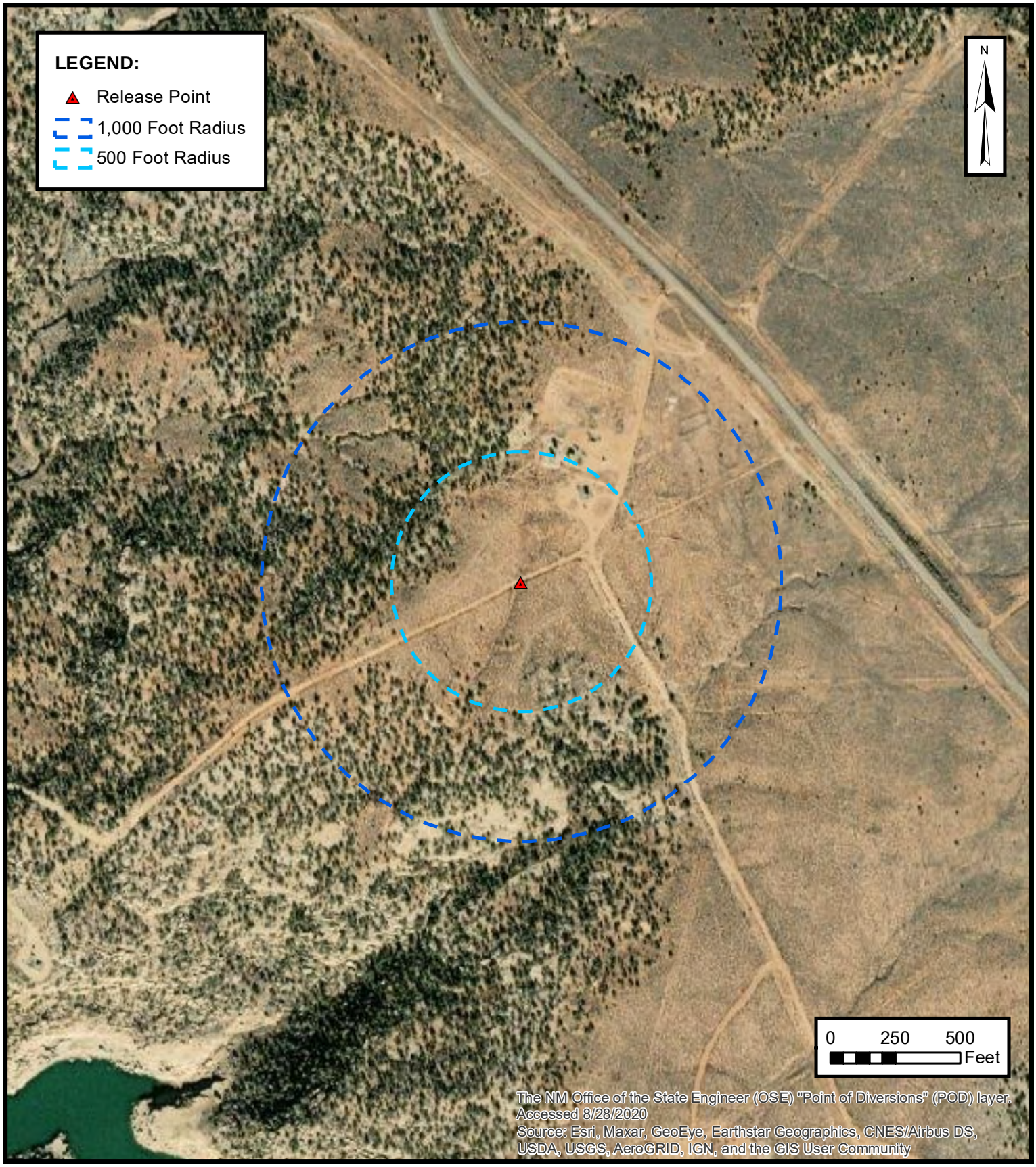
300 FOOT RADIUS
OCCUPIED STRUCTURE IDENTIFICATION
ENTERPRISE FIELD SERVICES, LLC
BLANCO A-28 (2/3/22)
Unit Letter M, S11 T30N R7W, Rio Arriba County, New Mexico
36.82173° N, 107.54646° W

PROJECT NUMBER: 05A1226183

FIGURE
D



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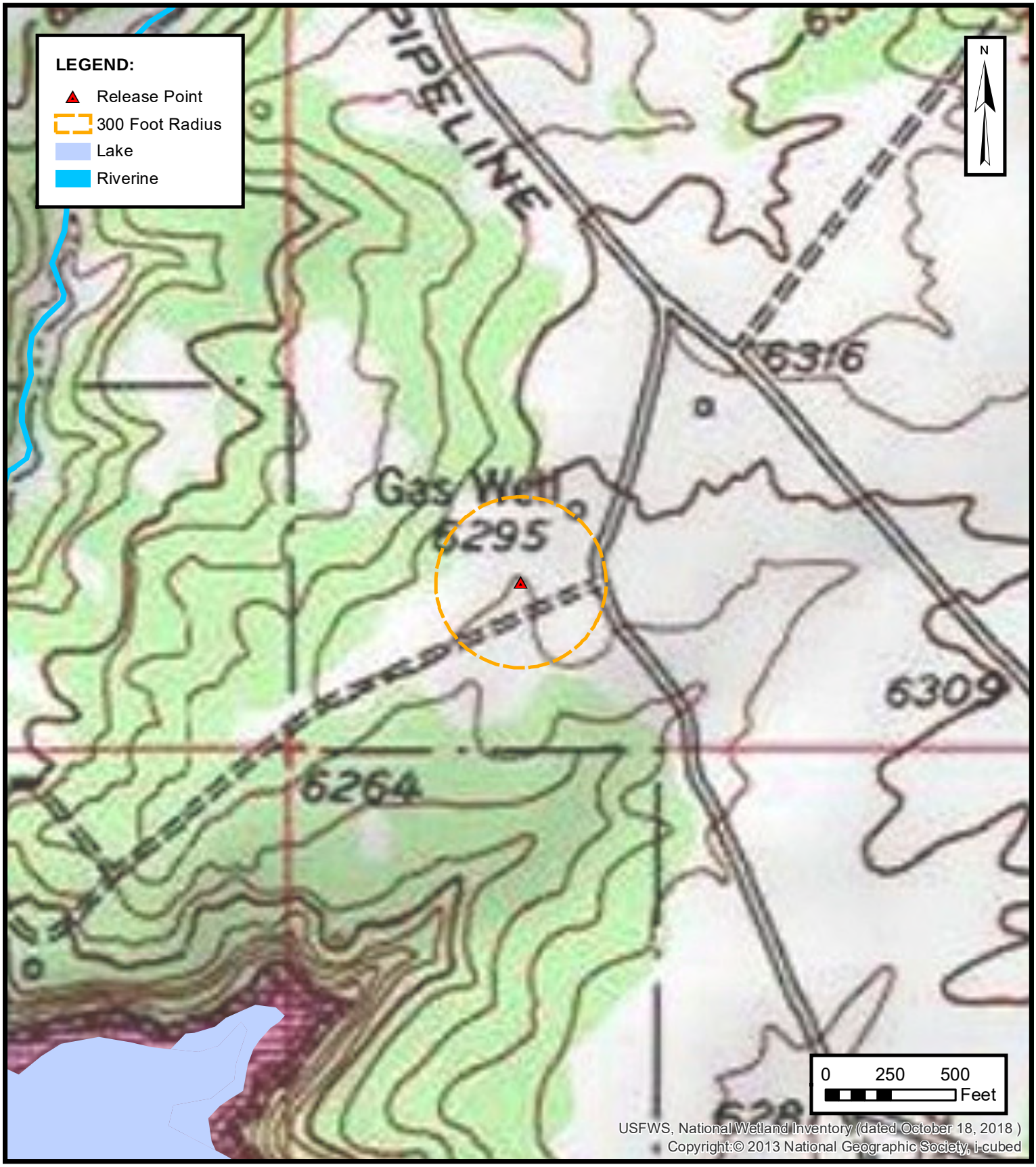
WATER WELL AND NATURAL SPRING LOCATION

ENTERPRISE FIELD SERVICES, LLC
BLANCO A-28 (2/3/22)
Unit Letter M, S11 T30N R7W, Rio Arriba County, New Mexico
36.82173° N, 107.54646° W

PROJECT NUMBER: 05A1226183

FIGURE

E



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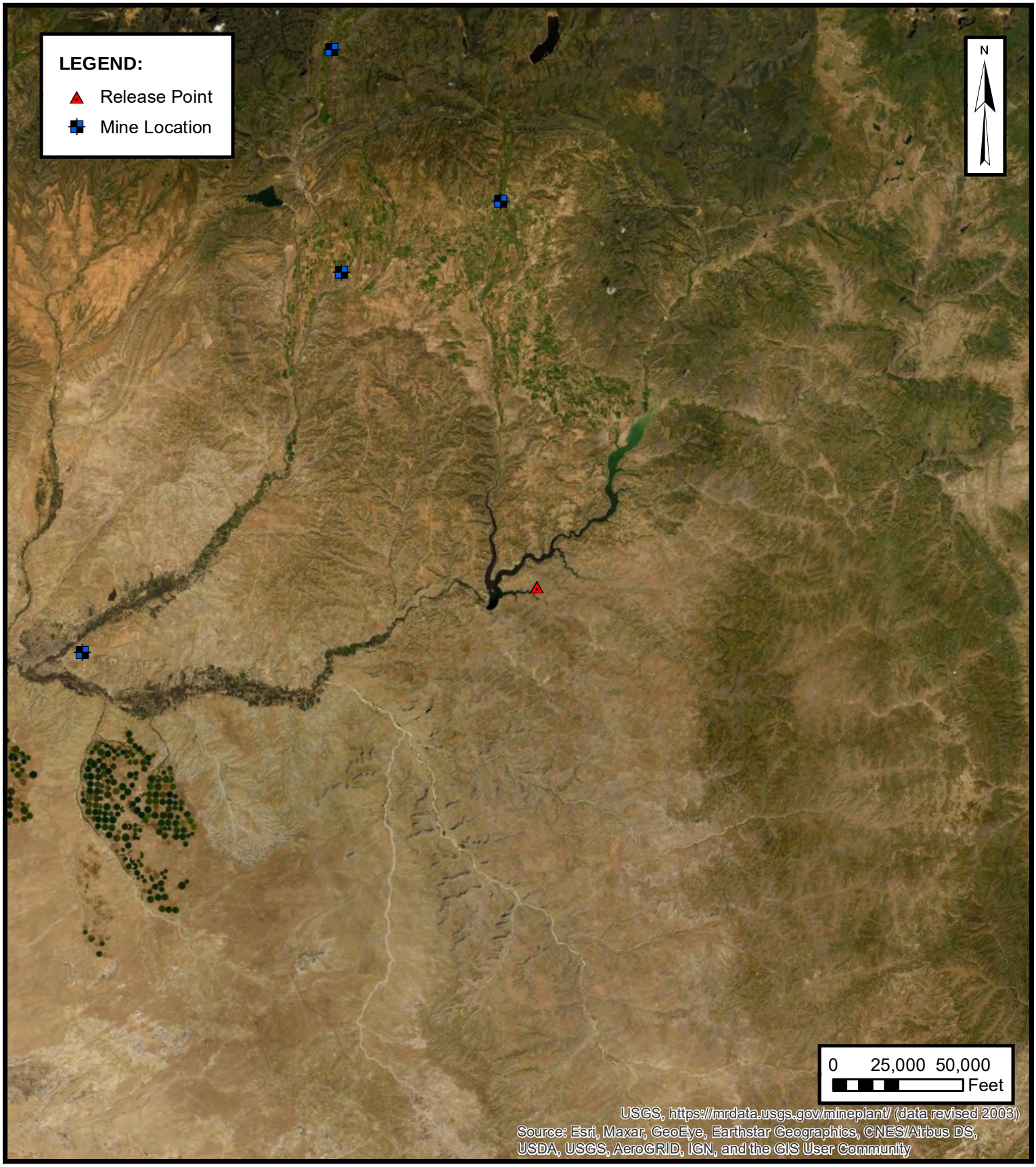
WETLANDS

ENTERPRISE FIELD SERVICES, LLC
BLANCO A-28 (2/3/22)
Unit Letter M, S11 T30N R7W, Rio Arriba County, New Mexico
36.82173° N, 107.54646° W

PROJECT NUMBER: 05A1226183

FIGURE

F



ENSOLUM
Environmental & Hydrogeologic Consultants

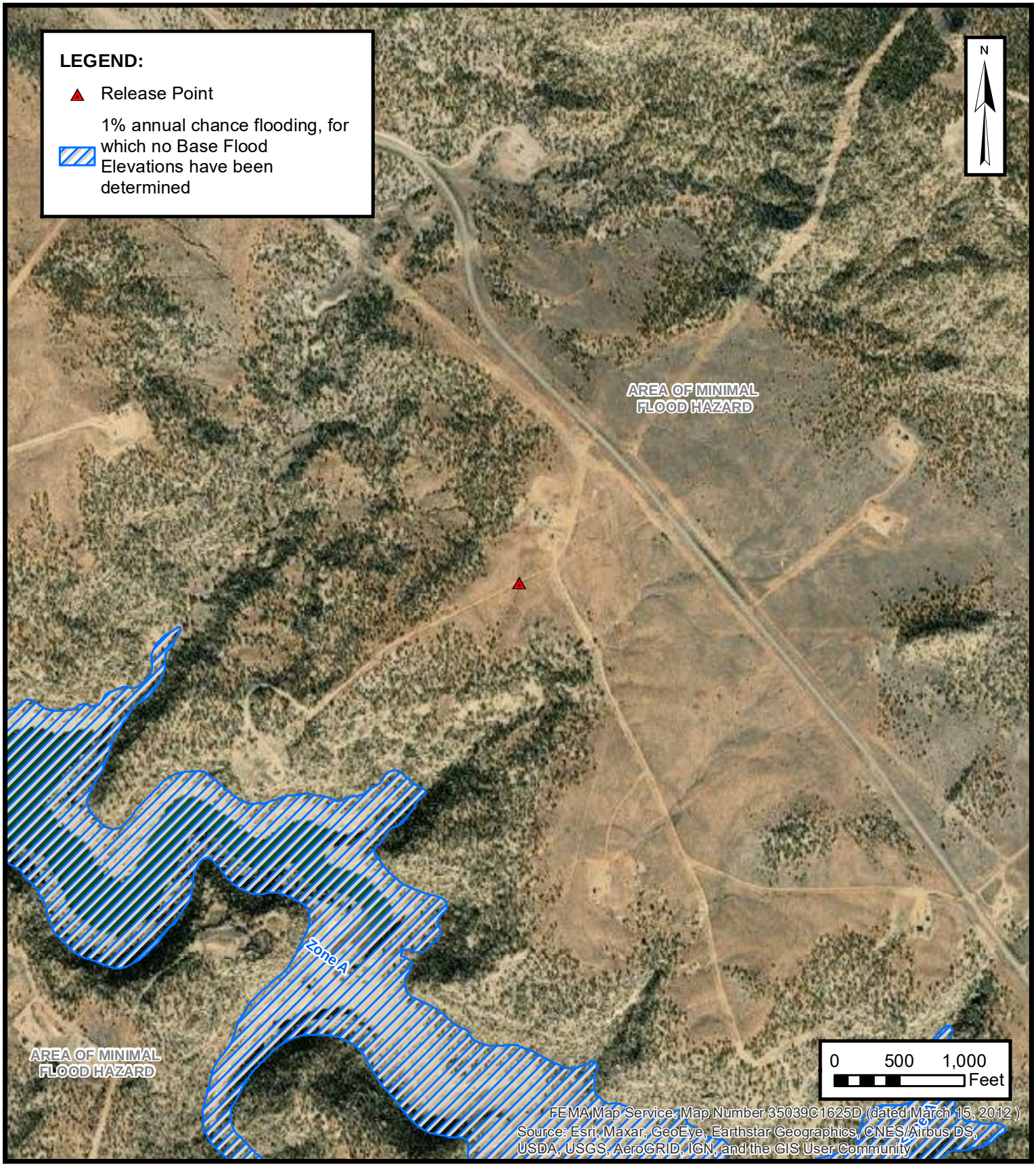
MINES, MILLS AND QUARRIES

ENTERPRISE FIELD SERVICES, LLC
BLANCO A-28 (2/3/22)
Unit Letter M, S11 T30N R7W, Rio Arriba County, New Mexico
36.82173° N, 107.54646° W

PROJECT NUMBER: 05A1226183

FIGURE

G



ENSOLUM
Environmental & Hydrogeologic Consultants

100-YEAR FLOOD PLAIN MAP

ENTERPRISE FIELD SERVICES, LLC
BLANCO A-28 (2/3/22)
Unit Letter M, S11 T30N R7W, Rio Arriba County, New Mexico
36.82173° N, 107.54646° W

PROJECT NUMBER: 05A1226183

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 02366	SJ	RA		1	3	15	30N	07W	271062	4077047	345	225	120
SJ 02698	SJ	RA		1	3	15	30N	07W	271173	4076962*	402	255	147
SJ 03640	SJ	RA	1	1	3	15	30N	07W	271072	4077061*	433	241	192
SJ 03946 POD1	SJ	RA	4	2	4	15	30N	07W	270941	4076902	455	285	170

Average Depth to Water: **251 feet**

Minimum Depth: **225 feet**

Maximum Depth: **285 feet**

Record Count: 4

PLSS Search:

Section(s): 11, 1, 2, 3, 10, 12, 13, 14, 15 **Township:** 30N **Range:** 07W

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

4528 84 - 30-039-01873

461 - 30-039-24379

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

Operator MERIDIAN OIL Location: Unit SW Sec. 11 Twp 30 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 30-6 UNIT #84, #461

cps 150w

Elevation 6293' Completion Date 9/30/78 Total Depth 540' Land Type* N/A

Casing, Sizes, Types & Depths N/A

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

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

N/A

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

Fresh, Clear, Salty, Sulphur, Etc. DAMP AT 320'

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MAY 31 1991
OIL CON. DIV.
DIST. 2

Depths gas encountered: N/A

Type & amount of coke breeze used: 67 SACKS

Depths anodes placed: 505', 495', 485', 475', 465', 450', 410', 400', 390', 380'

Depths vent pipes placed: 520' OF 1" PVC VENT PIPE

Vent pipe perforations: 240'

Remarks: gb #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.

3364

30-039-25734

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

Operator Burlington Resources Location: Unit___ Sec.___ Twp___ Rng___

Name of Well/Wells or Pipeline Serviced SJ 30-6 #64A

Elevation___ Completion Date 12-5-97 Total Depth 420' Land Type___

Casing Strings, Sizes, Types & Depths 8" PVC X 20'

If Casing Strings are cemented, show amounts & types used 4 Bags Portland Cement

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. 240 seep

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 420', 3000 lbs Lorrsco SW Coke Breeze

Depths anodes placed: 410, 403, 396, 389, 345, 338, ~~325, 318, 311, 304, 265, 259, 253~~ 247, 230

Depths vent pipes placed: 420'

Vent pipe perforations: Bottom 200'

Remarks:

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FEB 25 1998
OIL CON. DIV.
DIST. 3

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

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

TIERRA DYNAMIC COMPANY — DEEP WELL GROUNDED LOG DATA SHEET

COMPANY NAME: Burlington Resources

WELL NAME: SJ 30-7 #69A

LEGAL LOCATION: 30-7-11 — COUNTY: Rio Arriba

DATE: 12-5-97

DEPTH: 420'

BIT SIZE: 6 3/4

DRILLER NAME: Jack Ledbetter

SIZE AND TYPE OF CASING: 8" PVC x 20'

TYPE OF COKE: Loresco SW

AMT. OF COKE BACKFILL: 3000 lbs.

VENT PIPE: 420'

PERF. PIPE: Bottom 200'

ANODE AMT. & TYPE: Anotec - Duriron

BOULDER DRILLING:

DEPTH FT.	LOG	ANODE	DEPTH FT.	LOG	ANODE	DEPTH FT.	LOG	ANODE
100	.3		265	.8		430		
105	.1		270	.2		435		
110	.3		275	.2		440		
115	.2		280	.2		445		
120	.3		285	.2		450		
125	.6		290	.5		455		
130	.5		295	.5		460		
135	.5		300	.2		465		
140	.4		305	1.5		470		
145	.5		310	.9		475		
150	.2		315	1.2		480		
155	.2		320	.9		485		
160	.4		325	1.5		490		
165	1.2		330	.9		495		
170	.8		335	.9		500		
175	.8		340	1.1		505		
180	.2		345	1.0		510		
185	.2		350	.5		515		
190	.7		355	.4		520		
195	1.5		360	.4		525		
200	1.4		365	.5		530		
205	1.4		370	.6		535		
210	1.7		375	.9		540		
215	1.6		380	.8		545		
220	1.5		385	.8		550		
225	1.5		390	1.0		555		
230	1.0		395	1.1		560		
235	.3		400	1.0		565		
240	.3		405	.9		570		
245	.9		410	1.3		575		
250	.8		415	.9		580		
255	.9		420	T.D.		585		
260	1.2		425			590		
						595		

COMPLETION INFORMATION:

WATER DEPTHS: 240 Seep

ISOLATION PLUGS:

ANODE#	DEPTH	OUTPUT NO COK	OUTPUT COKED
1	410	1.3	2.5
2	403	1.0	2.6
3	396	.8	2.4
4	389	.9	2.2
5	345	1.0	3.5
6	338	1.5	4.1
7	325	1.5	4.4
8	318	1.6	4.5
9	311	1.7	4.3
10	304	1.5	4.1
11	265	.8	3.8
12	259	1.1	3.5
13	253	.8	2.4
14	247	.8	1.8
15	230	1.1	2.1
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

LOGING VOLTS: 11.21 — VOLTAGE SOURCE: Auto

TOTAL AMPS: 11.7 — TOTAL G/B RESISTANCE: .95

REMARKS:

#83 30-039-07861

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

Operator Meridian Oil Inc. Location: Unit A Sec. 15 Twp 30 Rng 07

Name of Well/Wells or Pipeline Serviced

S.J. 30-6 #83

Elevation 6203' Completion Date 3-17-95 Total Depth 467 Land Type F

Casing Strings, Sizes, Types & Depths 2/27 Set 98' of 8" PVC Casing.

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

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

With 18 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. 115' and was clear

Depths gas encountered: No gas

Ground bed depth with type & amount of coke breeze used: 467' with

64 (100 lb) sacks of Loresco SW

Depths anodes placed: #1 is at 460' and #15 is at 192'

Depths vent pipes placed: Bottom to Surface

Vent pipe perforations: up to 160'

Remarks:

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JAN 11 1996
OIL CON. DIV.
DIST. 3

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

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

1231

30-039-21923

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

Operator MERIDIAN OIL Location: Unit NW Sec. 14 Twp 30 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 30-6 UNIT #66A

cps 1486w

Elevation 6277' Completion Date 7/25/80 Total Depth 540' Land Type* N/A

Casing, Sizes, Types & Depths N/A

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

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

N/A

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

Fresh, Clear, Salty, Sulphur, Etc. DAMP 140' - 160' WATER SAND 300' - 320'

Depths gas encountered: N/A

Type & amount of coke breeze used: 54 SACKS

Depths anodes placed: 510', 495', 470', 460', 450', 440', 425', 400', 390', 380'

Depths vent pipes placed: 430'

Vent pipe perforations: 300'

Remarks: gb #1

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

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

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

8 Hrs Rig
2 Hrs OT

El Paso Natural Gas Company
Form 7-238 (Rev. 11-71)

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto). ☐ 2" x 60" DURIRON Completion Date 7-25-80

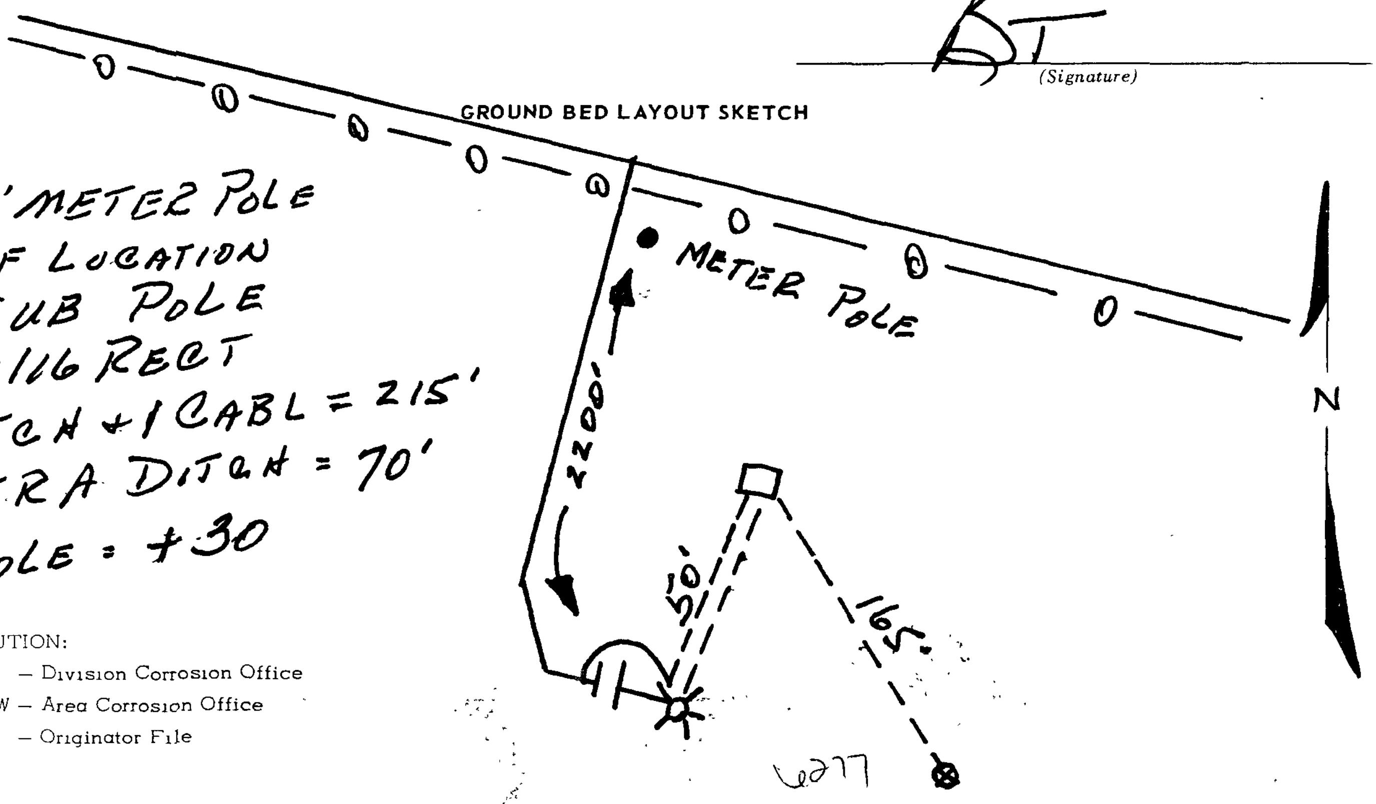
Well Name SJ 30-6 #66A			Location NW 14-30-7				CPS No. 1486W		
Type & Size Bit Used 6 3/4"			STATIC =.92 N				Work Order No. 57583-21		
Anode Hole Depth 540 - 530 TD		Total Drilling Rig Time		Total Lbs. Coke Used 54 BAGS		Lost Circulation Mat'l Used	No. Sacks Mud Used		
Anode Depth									
# 1 510	# 2 495	# 3 470	# 4 460	# 5 450	# 6 440	# 7 425	# 8 400	# 9 390	# 10 380
Anode Output (Amps)									
# 1 1.7	# 2 1.8	# 3 2.1	# 4 2.4	# 5 2.6	# 6 2.0	# 7 1.9	# 8 2.1	# 9 2.3	# 10 2.2
Anode Depth									
# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)									
# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance Volts 12.4	Amps 14.0	Ohms .88			No. 8 C.P. Cable Used			No. 2 C.P. Cable Used	

Remarks: UNION = OK ~~DAmp 140 - 160'~~ set over night
Could not blow sample. Just to fine to drill
at 200' started injecting at 200'. Found ~~water~~
~~sand at 300 - 320~~ estimated 30 gal minute.
Drilled to 540' loged to 530'
~~300' 1" perforated Vent 130 - 1" plain.~~

All Construction Completed

[signature]
(Signature)

GROUND BED LAYOUT SKETCH



20' METER POLE
OFF LOCATION
STUB POLE
40/16 RECT
DITCH + 1 CABL = 215'
XTRA DITCH = 70'
HOLE = + 30

DISTRIBUTION:
WHITE — Division Corrosion Office
YELLOW — Area Corrosion Office
PINK — Originator File

Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY
DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE	WELL NO.		CONTRACTOR	RIG NO.	REPORT NO.	DATE
CPS-1486 W	San Juan 30-6 #66-A	NW. 14-30-7	3-C Drilling	#1	W.O.# 57583-21	July 24/25 1980

	MORNING	DAYLIGHT	EVENING
Driller	Brian		
Total Men In Crew	2		

Shift	FROM	TO	FORMATION	WT. BIT	R.P.M.
Morning					
Daylight					
Evening					

	MORNING	DAYLIGHT	EVENING
BIT NO.			
SERIAL NO.			
SIZE	6 3/4		
TYPE			
MAKE			
NO. DC / SIZE / LENG.			
NO. DC / SIZE / LENG.	SIZE 4 1/2 LENG. 20'		
STANDS			
SINGLES	27		
DOWN ON KELLY			
TOTAL DEPTH	540' T.D. 530'		

Shift	MUD RECORD Time	Wt.	Vis.	MUD ADDITIVES USED AND RECEIVED
Morning				
Daylight				
Evening				

TIME BREAKDOWN

Shift	FROM	TO	TIME BREAKDOWN
Morning	0	20	clay
Morning	20	40	sandstone-bent.
Morning	40	60	sandstone-shale
Morning		100	sandstone-sand & shale
Morning	100	200	shale
Morning	200	240	sand
Daylight	240	260	sand & shale
Daylight	260	340	sand-water
Daylight	340	380	sand & shale
Daylight	380	420	sand
Daylight	420	460	shale
Daylight	460	500	sand-shale
Evening	500	520	sand & shale
Evening	520	540'	shale

REMARKS – (Morning)

REMARKS – (Daylight) drilled to 160' on 24th
waited on water - none - at 100'.
Had to go to injection at 300'
drilled 340' water came in, makeing
approx 20 gallons per min.
Total hole depth 540'
Total log depth 530'

REMARKS – (Evening)

SIGNED: Toolpusher Brian Burge Company Supervisor

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: ___ of ___
Date:
By:
File: BT

UNION: OK 1486W 57583-21
STATIC: 92N
SJ 30-6 #66A NW 14-30-7

DAMP 140-160 set over night could not blow sample. 200' dust to fine to drill started injecting at 200' 360 to 320 hit water 30 gal mist.
Drilled to 540' logged to 530'
300' 1" perforated vent 130 1" plain

12.4V 14.0A = .88Ω

300	.8								
5	.5	5	1.1			5	.92		
10	.4	10	.90			10	.95	-	(1)
15	.3	15	.5			15	1.1		
20	.8	20	.4			20	1.1		
25	.7	25	.6		(7)	25	1.0		
30	.3	30	1.0			30			TD
35	.4	35	1.5			35			
40	.4	40	.8		(6)	40			
45	.5	45	1.2			45			
50	.5	50	1.3		(5)	50			
55	.5	55	1.5			55			
60	.9	60	1.8		(4)	60			
65	1.3	65	1.5			65			
70	1.4	70	1.1		(3)	70			
75	1.4	75	1.2			75			
80	1.0	(10)	80	.8					
85	1.1		85	.4					
90	1.4	(9)	90	.6					
95	1.3		95	.98	-	(2)			
400	1.3	(8)	500	1.2					

1 =	510 =	1.1	1.7
2 =	495 =	1.2	1.8
3 =	470 =	1.3	2.1
4 =	460 =	1.6	2.4
5 =	450 =	1.7	2.6
6 =	440 =	1.3	2.0
7 =	425 =	1.1	1.9
8 =	400 =	1.3	2.1
9 =	390 =	1.4	2.3
10 =	380 =	1.3	2.2

MW		gals/mol
16.04	C_1	6 4
30.07	C_2	10 12
44 10	C_3	10 42
58.12	iC_4	12.38
58 12	nC_4	11.93
72 15	iC_5	13 85
72.15	nC_5	13 71
86.18	iC_6	15 50
86.18	C_6	15.57
100 21	iC_7	17 2
100 21	C_7	17.46
114.23	C_8	19 39
28.05	$C_2^=$	9 64
42 08	$C_3^=$	9 67

MISC

MW		gals/mol
32 00	O_2	3.37
28 01	CO	4 19
44 01	CO_2	6 38
64.06	SO_2	5 50
34.08	H_2S	5 17
28.01	N_2	4 16
2.02	H_2	3 38

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

Invoicing Information
PayKey: RB21200
PM: Aaron Lucero
AFE: N58233

2. Originating Site:
Blanco A-28

3. Location of Material (Street Address, City, State or ULSTR):
UL M Section 11 T30N R7W; 36.821730, -107.546460

Feb 2022

4. Source and Description of Waste:
Source: Sediment/Soil/sludge from remediation activities associated with a natural gas pipeline release.
Description: Soil/Sediment/sludge associated with remediation activities.
Estimated Volume 50 yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) 124 (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 sentative for Enterprise Products Operating authorizes Env rotech, Inc. to complete
Generator S
the required testi iste Testing Certification.

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

5. Transporter: TBD

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **Envirotech, Inc. Soil Remediation Facility * Permit #: NM01-0011**
Address of Facility: **Hill Top, 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: 2/9/22

SIGNATURE: TELEPHONE NO.: 505-632-0615

Surface Waste Management Facility Authorized Agent

ENSOLUM

APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Blanco A-28 (2/3/22)
Ensolum Project No. 05A1226183

ENSOLUM

Photograph 1 Photograph Description: View of the release area.	
Photograph 2 Photograph Description: View of the final excavation.	
Photograph 3 Photograph Description: View of the final excavation.	

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Blanco A-28 (2/3/22)
Ensolum Project No. 05A1226183

ENSOLUM

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

ENSOLUM

APPENDIX E

Regulatory Correspondence

From: Velez, Nelson, EMNRD
To: Long, Thomas
Subject: RE: [EXTERNAL] FW: Blanco A-28 - UL M Section 11 T30N R7W; 36.821730, -107.546460
Date: Wednesday, February 16, 2022 7:08:59 AM

[Use caution with links/attachments]

Tom,

The sampling for S-9 is acceptable.

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.: 7:00-11:30 am & 1:00-4:00 pm Mon.-Thur.
7:00 am-12:00 pm & 1:00-4:00 Fri.

From: Long, Thomas <tjlong@eprod.com>
Sent: Tuesday, February 15, 2022 7:46 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: RE: [EXTERNAL] FW: Blanco A-28 - UL M Section 11 T30N R7W; 36.821730, -107.546460

Nelson,

Correction to my email below. Exchange S-8 for S-9. My mistake.

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

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Tuesday, February 15, 2022 7:33 AM
To: Long, Thomas <tjlong@eprod.com>
Subject: RE: [EXTERNAL] FW: Blanco A-28 - UL M Section 11 T30N R7W; 36.821730, -107.546460

[Use caution with links/attachments]

Thanks for the update. I'll take a look at it this morning & get back to you.

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.: 7:00-11:30 am & 1:00-4:00 pm Mon.-Thur.
7:00 am-12:00 pm & 1:00-4:00 Fri.

From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, February 14, 2022 5:00 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: [EXTERNAL] FW: Blanco A-28 - UL M Section 11 T30N R7W; 36.821730, -107.546460

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

Nelson,

Please find the attached site sketch and lab report for the Blanco A-28 excavation. All sample results are below the NMOCD Tier I remediation standard. Sample S-8 is an excavation side wall that was collected from the stockpile soil adjacent to the excavation and then placed back in the excavation after the repairs were completed. Field personnel had to expose more pipe after the field screening results indicated COC concentrations were below NMOCD Tier I standards and after environmental representative left, in order to complete the repairs to the pipeline. Not exactly the way we normally do it, but should suffice. The excavation is still open. Will this sampling for S-8 be acceptable or would your like additional sampling? Please let me know your thoughts.

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: Long, Thomas
Sent: Thursday, February 10, 2022 1:01 PM
To: 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>; rjoyner@blm.gov

Cc: Stone, Brian <bmstone@eprod.com>
Subject: Blanco A-28 - UL M Section 11 T30N R7W; 36.821730, -107.546460

Nelson/Ryan,

This email is a notification that Enterprise had are release of natural gas and natural gas liquids on the Blanco A-28 pipeline on February 3, 2022. The pipeline was isolated, depressurized, locked and tagged out. No residents were affected. No washes or waterways were affected. No emergency services responded. No liquids were observed on the ground surface. On February 9, 2022, repairs remediation were initiated, at which time Enterprise determined the release was reportable per NMOCD regulation by the volume of soil impacted by liquids.

This email also serves as a notification that Enterprise will be collecting soil samples for laboratory analysis tomorrow February 11, 2022 at 10:00 a.m.

I will be submitting the NOR and subsequent C-141 via the NMOCD website.

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

ENSOLUM

APPENDIX F

Table 1 – Soil Analytical Summary

ENSOLUM

TABLE 1
Blanco A-28 (2/3/22)
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**				**100**	**600**
Excavation Composite Soil Samples													
S-1	2.11.22	C	4.5	<0.019	<0.037	<0.037	0.10	0.10	<3.7	<9.0	<45	ND	<60
S-2	2.11.22	C	2	<0.019	0.041	<0.039	0.13	0.17	<3.9	<8.7	<44	ND	<61
S-3	2.11.22	C	3 to 4.5	<0.023	<0.046	<0.046	<0.092	ND	<4.6	<9.5	<47	ND	<60
S-4	2.11.22	C	0 to 4	<0.026	<0.053	<0.053	0.19	0.19	<5.3	<9.6	<48	ND	<60
S-5	2.11.22	C	0 to 4.5	<0.021	<0.041	<0.041	<0.083	ND	<4.1	<10	<50	ND	<61
S-6	2.11.22	C	0 to 4.5	<0.023	<0.047	<0.047	0.15	0.15	<4.7	<10	<50	ND	<60
S-7	2.11.22	C	0 to 4.5	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<10	<50	ND	<60
S-8	2.11.22	C	0 to 4	<0.021	<0.042	<0.042	<0.084	ND	<4.2	<9.4	<47	ND	<60
S-9	2.11.22	C	0 to 4.5	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.8	<49	ND	110
S-10	2.11.22	C	4.5	<0.020	<0.039	<0.039	<0.079	ND	<3.9	11	<46	11	<60

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

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

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

NE = Not established

mg/kg = 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: clients.hallenvironmental.com

February 17, 2022

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

RE: Blanco A 28 OrderNo.: 2202640

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 10 sample(s) on 2/12/2022 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 **2202640**
Date Reported: **2/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-1
Project: Blanco A 28 **Collection Date:** 2/11/2022 10:00:00 AM
Lab ID: 2202640-001 **Matrix:** MEOH (SOIL) **Received Date:** 2/12/2022 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	2/14/2022 11:53:51 AM	65522
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	2/14/2022 10:45:45 AM	65516
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/14/2022 10:45:45 AM	65516
Surr: DNOP	112	51.1-141		%Rec	1	2/14/2022 10:45:45 AM	65516
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	2/12/2022 1:40:00 PM	R85801
Surr: BFB	112	70-130		%Rec	1	2/12/2022 1:40:00 PM	R85801
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.019		mg/Kg	1	2/12/2022 1:40:00 PM	BS85801
Toluene	ND	0.037		mg/Kg	1	2/12/2022 1:40:00 PM	BS85801
Ethylbenzene	ND	0.037		mg/Kg	1	2/12/2022 1:40:00 PM	BS85801
Xylenes, Total	0.10	0.075		mg/Kg	1	2/12/2022 1:40:00 PM	BS85801
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	2/12/2022 1:40:00 PM	BS85801

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 **2202640**
Date Reported: **2/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-2
Project: Blanco A 28 **Collection Date:** 2/11/2022 10:05:00 AM
Lab ID: 2202640-002 **Matrix:** MEOH (SOIL) **Received Date:** 2/12/2022 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	61		mg/Kg	20	2/14/2022 12:06:16 PM	65522
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	2/14/2022 11:09:31 AM	65516
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/14/2022 11:09:31 AM	65516
Surr: DNOP	106	51.1-141		%Rec	1	2/14/2022 11:09:31 AM	65516
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	2/12/2022 2:40:00 PM	R85801
Surr: BFB	103	70-130		%Rec	1	2/12/2022 2:40:00 PM	R85801
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.019		mg/Kg	1	2/12/2022 2:40:00 PM	BS85801
Toluene	0.041	0.039		mg/Kg	1	2/12/2022 2:40:00 PM	BS85801
Ethylbenzene	ND	0.039		mg/Kg	1	2/12/2022 2:40:00 PM	BS85801
Xylenes, Total	0.13	0.078		mg/Kg	1	2/12/2022 2:40:00 PM	BS85801
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	2/12/2022 2:40:00 PM	BS85801

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 **2202640**
Date Reported: **2/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-3
Project: Blanco A 28 **Collection Date:** 2/11/2022 10:10:00 AM
Lab ID: 2202640-003 **Matrix:** MEOH (SOIL) **Received Date:** 2/12/2022 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	2/14/2022 12:18:40 PM	65522
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/14/2022 11:33:21 AM	65516
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/14/2022 11:33:21 AM	65516
Surr: DNOP	108	51.1-141		%Rec	1	2/14/2022 11:33:21 AM	65516
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/12/2022 3:39:00 PM	R85801
Surr: BFB	97.1	70-130		%Rec	1	2/12/2022 3:39:00 PM	R85801
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	2/12/2022 3:39:00 PM	BS85801
Toluene	ND	0.046		mg/Kg	1	2/12/2022 3:39:00 PM	BS85801
Ethylbenzene	ND	0.046		mg/Kg	1	2/12/2022 3:39:00 PM	BS85801
Xylenes, Total	ND	0.092		mg/Kg	1	2/12/2022 3:39:00 PM	BS85801
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	2/12/2022 3:39:00 PM	BS85801

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 **2202640**
Date Reported: **2/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-4
Project: Blanco A 28 **Collection Date:** 2/11/2022 10:15:00 AM
Lab ID: 2202640-004 **Matrix:** MEOH (SOIL) **Received Date:** 2/12/2022 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	2/14/2022 12:31:04 PM	65522
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/14/2022 11:57:10 AM	65516
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/14/2022 11:57:10 AM	65516
Surr: DNOP	105	51.1-141		%Rec	1	2/14/2022 11:57:10 AM	65516
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg	1	2/12/2022 3:58:00 PM	R85801
Surr: BFB	101	70-130		%Rec	1	2/12/2022 3:58:00 PM	R85801
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.026		mg/Kg	1	2/12/2022 3:58:00 PM	BS85801
Toluene	ND	0.053		mg/Kg	1	2/12/2022 3:58:00 PM	BS85801
Ethylbenzene	ND	0.053		mg/Kg	1	2/12/2022 3:58:00 PM	BS85801
Xylenes, Total	0.19	0.11		mg/Kg	1	2/12/2022 3:58:00 PM	BS85801
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/12/2022 3:58:00 PM	BS85801

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 **2202640**
Date Reported: **2/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-5
Project: Blanco A 28 **Collection Date:** 2/11/2022 10:20:00 AM
Lab ID: 2202640-005 **Matrix:** MEOH (SOIL) **Received Date:** 2/12/2022 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	ND	61		mg/Kg	20	2/14/2022 1:08:18 PM	65522
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/14/2022 12:21:02 PM	65516
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/14/2022 12:21:02 PM	65516
Surr: DNOP	111	51.1-141		%Rec	1	2/14/2022 12:21:02 PM	65516
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**RAA**
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	2/12/2022 4:18:00 PM	R85801
Surr: BFB	106	70-130		%Rec	1	2/12/2022 4:18:00 PM	R85801
EPA METHOD 8021B: VOLATILES						Analyst:	**RAA**
Benzene	ND	0.021		mg/Kg	1	2/12/2022 4:18:00 PM	BS85801
Toluene	ND	0.041		mg/Kg	1	2/12/2022 4:18:00 PM	BS85801
Ethylbenzene	ND	0.041		mg/Kg	1	2/12/2022 4:18:00 PM	BS85801
Xylenes, Total	ND	0.083		mg/Kg	1	2/12/2022 4:18:00 PM	BS85801
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/12/2022 4:18:00 PM	BS85801

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 **2202640**
Date Reported: **2/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-6
Project: Blanco A 28 **Collection Date:** 2/11/2022 10:25:00 AM
Lab ID: 2202640-006 **Matrix:** MEOH (SOIL) **Received Date:** 2/12/2022 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	2/14/2022 1:20:43 PM	65522
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/14/2022 12:44:58 PM	65516
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/14/2022 12:44:58 PM	65516
Surr: DNOP	103	51.1-141		%Rec	1	2/14/2022 12:44:58 PM	65516
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/12/2022 4:38:00 PM	R85801
Surr: BFB	98.4	70-130		%Rec	1	2/12/2022 4:38:00 PM	R85801
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	2/12/2022 4:38:00 PM	BS85801
Toluene	ND	0.047		mg/Kg	1	2/12/2022 4:38:00 PM	BS85801
Ethylbenzene	ND	0.047		mg/Kg	1	2/12/2022 4:38:00 PM	BS85801
Xylenes, Total	0.15	0.094		mg/Kg	1	2/12/2022 4:38:00 PM	BS85801
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/12/2022 4:38:00 PM	BS85801

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 **2202640**
Date Reported: **2/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-7
Project: Blanco A 28 **Collection Date:** 2/11/2022 10:30:00 AM
Lab ID: 2202640-007 **Matrix:** MEOH (SOIL) **Received Date:** 2/12/2022 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	ND	60		mg/Kg	20	2/14/2022 1:33:07 PM	65522
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/14/2022 10:56:04 AM	65516
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/14/2022 10:56:04 AM	65516
Surr: DNOP	94.2	51.1-141		%Rec	1	2/14/2022 10:56:04 AM	65516
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**RAA**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/12/2022 4:58:00 PM	R85801
Surr: BFB	101	70-130		%Rec	1	2/12/2022 4:58:00 PM	R85801
EPA METHOD 8021B: VOLATILES						Analyst:	**RAA**
Benzene	ND	0.024		mg/Kg	1	2/12/2022 4:58:00 PM	BS85801
Toluene	ND	0.047		mg/Kg	1	2/12/2022 4:58:00 PM	BS85801
Ethylbenzene	ND	0.047		mg/Kg	1	2/12/2022 4:58:00 PM	BS85801
Xylenes, Total	ND	0.095		mg/Kg	1	2/12/2022 4:58:00 PM	BS85801
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/12/2022 4:58:00 PM	BS85801

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 **2202640**
Date Reported: **2/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-8
Project: Blanco A 28 **Collection Date:** 2/11/2022 10:35:00 AM
Lab ID: 2202640-008 **Matrix:** MEOH (SOIL) **Received Date:** 2/12/2022 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	ND	60		mg/Kg	20	2/14/2022 1:45:32 PM	65522
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/14/2022 11:20:13 AM	65516
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/14/2022 11:20:13 AM	65516
Surr: DNOP	95.6	51.1-141		%Rec	1	2/14/2022 11:20:13 AM	65516
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**RAA**
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	2/12/2022 5:18:00 PM	R85801
Surr: BFB	99.0	70-130		%Rec	1	2/12/2022 5:18:00 PM	R85801
EPA METHOD 8021B: VOLATILES						Analyst:	**RAA**
Benzene	ND	0.021		mg/Kg	1	2/12/2022 5:18:00 PM	BS85801
Toluene	ND	0.042		mg/Kg	1	2/12/2022 5:18:00 PM	BS85801
Ethylbenzene	ND	0.042		mg/Kg	1	2/12/2022 5:18:00 PM	BS85801
Xylenes, Total	ND	0.084		mg/Kg	1	2/12/2022 5:18:00 PM	BS85801
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	2/12/2022 5:18:00 PM	BS85801

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 **2202640**
Date Reported: **2/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-9
Project: Blanco A 28 **Collection Date:** 2/11/2022 10:40:00 AM
Lab ID: 2202640-009 **Matrix:** MEOH (SOIL) **Received Date:** 2/12/2022 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	110	61		mg/Kg	20	2/14/2022 1:57:56 PM	65522
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/14/2022 11:44:29 AM	65516
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/14/2022 11:44:29 AM	65516
Surr: DNOP	91.5	51.1-141		%Rec	1	2/14/2022 11:44:29 AM	65516
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/12/2022 5:38:00 PM	R85801
Surr: BFB	97.4	70-130		%Rec	1	2/12/2022 5:38:00 PM	R85801
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	2/12/2022 5:38:00 PM	BS85801
Toluene	ND	0.048		mg/Kg	1	2/12/2022 5:38:00 PM	BS85801
Ethylbenzene	ND	0.048		mg/Kg	1	2/12/2022 5:38:00 PM	BS85801
Xylenes, Total	ND	0.097		mg/Kg	1	2/12/2022 5:38:00 PM	BS85801
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	2/12/2022 5:38:00 PM	BS85801

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 **2202640**
Date Reported: **2/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-10
Project: Blanco A 28 **Collection Date:** 2/11/2022 10:45:00 AM
Lab ID: 2202640-010 **Matrix:** MEOH (SOIL) **Received Date:** 2/12/2022 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	ND	60		mg/Kg	20	2/14/2022 2:10:20 PM	65522
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	11	9.2		mg/Kg	1	2/14/2022 12:08:42 PM	65516
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/14/2022 12:08:42 PM	65516
Surr: DNOP	100	51.1-141		%Rec	1	2/14/2022 12:08:42 PM	65516
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**RAA**
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	2/12/2022 5:58:00 PM	R85801
Surr: BFB	97.8	70-130		%Rec	1	2/12/2022 5:58:00 PM	R85801
EPA METHOD 8021B: VOLATILES						Analyst:	**RAA**
Benzene	ND	0.020		mg/Kg	1	2/12/2022 5:58:00 PM	BS85801
Toluene	ND	0.039		mg/Kg	1	2/12/2022 5:58:00 PM	BS85801
Ethylbenzene	ND	0.039		mg/Kg	1	2/12/2022 5:58:00 PM	BS85801
Xylenes, Total	ND	0.079		mg/Kg	1	2/12/2022 5:58:00 PM	BS85801
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/12/2022 5:58:00 PM	BS85801

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		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202640**

17-Feb-22

Client: ENSOLUM

Project: Blanco A 28

Sample ID: **MB-65522**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **65522**	RunNo: **85813**
Prep Date: **2/14/2022**	Analysis Date: **2/14/2022**	SeqNo: **3022360** Units: **mg/Kg**

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

Sample ID: **LCS-65522**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **65522**	RunNo: **85813**
Prep Date: **2/14/2022**	Analysis Date: **2/14/2022**	SeqNo: **3022361** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.0	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#: **2202640**

17-Feb-22

Client: ENSOLUM

Project: Blanco A 28

Sample ID: **LCS-65516** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **65516** RunNo: **85809**

Prep Date: **2/14/2022** Analysis Date: **2/14/2022** SeqNo: **3021573** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.4	68.9	135			
Surr: DNOP	4.6		5.000		92.0	51.1	141			

Sample ID: **MB-65516** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **65516** RunNo: **85809**

Prep Date: **2/14/2022** Analysis Date: **2/14/2022** SeqNo: **3021574** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	51.1	141			

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#: **2202640**

17-Feb-22

Client: ENSOLUM

Project: Blanco A 28

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R85801**	RunNo: **85801**
Prep Date:	Analysis Date: **2/12/2022**	SeqNo: **3021283** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	78.6	131			
Surr: BFB	1200		1000		122	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R85801**	RunNo: **85801**
Prep Date:	Analysis Date: **2/12/2022**	SeqNo: **3021285** 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	70	130			

Sample ID: **2202640-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **R85801**	RunNo: **85801**
Prep Date:	Analysis Date: **2/12/2022**	SeqNo: **3021331** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	3.7	18.64	0	112	70	130			
Surr: BFB	860		745.7		116	70	130			

Sample ID: **2202640-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **R85801**	RunNo: **85801**
Prep Date:	Analysis Date: **2/12/2022**	SeqNo: **3021332** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	3.7	18.64	0	123	70	130	9.44	20	
Surr: BFB	860		745.7		115	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#: **2202640**

17-Feb-22

Client: ENSOLUM

Project: Blanco A 28

Sample ID: **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R85801**	RunNo: **85801**
Prep Date:	Analysis Date: **2/12/2022**	SeqNo: **3021309** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **BS85801**	RunNo: **85801**
Prep Date:	Analysis Date: **2/12/2022**	SeqNo: **3021310** 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	1.1		1.000		107	70	130			

Sample ID: **2202640-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2**	Batch ID: **BS85801**	RunNo: **85801**
Prep Date:	Analysis Date: **2/12/2022**	SeqNo: **3021313** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.019	0.7782	0	112	80	120			
Toluene	0.81	0.039	0.7782	0.04082	99.0	80	120			
Ethylbenzene	0.81	0.039	0.7782	0	104	80	120			
Xylenes, Total	2.4	0.078	2.335	0.1262	97.6	80	120			
Surr: 4-Bromofluorobenzene	0.72		0.7782		92.8	70	130			

Sample ID: **2202640-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2**	Batch ID: **BS85801**	RunNo: **85801**
Prep Date:	Analysis Date: **2/12/2022**	SeqNo: **3021314** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.019	0.7782	0	116	80	120	3.97	20	
Toluene	0.86	0.039	0.7782	0.04082	106	80	120	6.44	20	
Ethylbenzene	0.87	0.039	0.7782	0	112	80	120	7.40	20	
Xylenes, Total	2.8	0.078	2.335	0.1262	113	80	120	14.3	20	
Surr: 4-Bromofluorobenzene	0.75		0.7782		96.4	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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: ENSOLUM | Work Order Number: 2202640 | RcptNo: 1

Received By: **Isaiah Ortiz** 2/12/2022 9:00:00 AM I-Ox

Completed By: **Isaiah Ortiz** 2/12/2022 9:52:20 AM I-Ox

Reviewed By: JM 02/12/2022

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 ☐	

TO 2/12/22

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

Adjusted? _____

Checked by: _____

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	4.3	Good	Yes			

Chain-of-Custody Record

Client: Ensolum, LLC

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

Phone #:

email or Fax#: K.Summers@ensolum.com

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

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

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

Project Name: Blanco A-28

Project #:

Project Manager: K. Summers

Sampler:

On Ice: ■ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.3°C ±0 (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2207640	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)
2/11/22	10:00	S	S-1	1 4oz jar	Cool	001	X	X					X			
2/11/22	10:05	S	S-2	1 4oz jar	Cool	002	X	X					X			
2/11/22	10:10	S	S-3	1 4oz jar	Cool	003	X	X					X			
2/11/22	10:15	S	S-4	1 4oz jar	Cool	004	X	X					X			
2/11/22	10:20	S	S-5	1 4oz jar	Cool	005	X	X					X			
2/11/22	10:25	S	S-6	1 4oz jar	Cool	006	X	X					X			
2/11/22	10:30	S	S-7	1 4oz jar	Cool	007	X	X					X			
2/11/22	10:35	S	S-8	1 4oz jar	Cool	008	X	X					X			
2/11/22	10:40	S	S-9	1 4oz jar	Cool	009	X	X					X			
2/11/22	10:45	S	S-10	1 4oz jar	Cool	010	X	X					X			
LD ~~2/11/22~~	~~10:50~~	~~S~~	~~S-11~~	1 4oz jar	Cool											
LD 2/11/22	10:55	S	S-12	1 4oz jar	Cool											

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
2/11/22	1334				2/11/22	1334
2/11/22	1752			courier	2/12/22	0900

Remarks:
PM Tom Long
Pay key: RB21200
Non AFE: N58233

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

Action 105132

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 105132
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	5/20/2022