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)*: **NAPP2112326263**
Contact mailing address: **614 Reilly Ave, Farmington, NM 87401**	

Location of Release Source

Latitude **36.590249** Longitude **-107.751974** *(NAD 83 in decimal degrees to 5 decimal places)*

Site Name **Blanco C-11 @ 1600 – East Release Site**	Site Type **Natural Gas Gathering Pipeline**
Date Release Discovered: : **4/27/2021**	Serial Number *(if applicable)*: **N/A**

Unit Letter	Section	Township	Range	County
H	**11**	**27N**	**9W**	**San Juan**

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

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): **10-15 BBLS**	Volume Recovered (bbls): **None**
☒ Natural Gas	Volume Released (Mcf): **44 MCF**	Volume Recovered (Mcf): **None**
☐ Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release: On April 27, 2021 at approximately 1600 hours, Enterprise had a release of natural gas and condensate from the Blanco C-11 pipeline. The release is approximately 80 feet from a wash. Approximately 2-3 barrels of condensate has been observed on the ground surface. The pipeline was isolated, depressurized, locked out and tagged out. No residences were affected. No emergency services responded. Remediation activities were completed on May 7, 2021. The final excavation dimensions measured approximately 48 feet long by 10 feet wide by 17 feet deep. Approximately 447 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: Jon E. Fields Title: Director, Environmental

Signature: Jon E Fields Date: 8/24/2021

email: jefields@eprod.com Telephone: (713) 381-6684

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: 03/02/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

ENSOLUM

CLOSURE REPORT

Property:

Blanco C-11 @ 1600 – East Release Site
NE ¼, S11 T27N R9W
San Juan County, New Mexico

New Mexico EMNRD OCD Incident ID No. nAPP2112326263

July 6, 2021
Ensolum Project No. 05A1226147

Prepared for:

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

Prepared by:

Landon Daniell
Field Environmental Scientist

Ranee Deechilly
Environmental Scientist

Kyle Summers, CPG
Sr. Project Manager

Table of Contents

LIST OF APPENDICES

ENSOLUM

CLOSURE REPORT

Blanco C-11 @ 1600 – East Release Site
NE ¼, S11 T27N R9W
San Juan County, New Mexico

Ensolum Project No. 05A1226147

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Blanco C-11 @1600 – East Release Site (Site)
Incident ID	nAPP2112326263
Location:	36.590249° North, 107.751974° West Northeast (NE) ¼ of Section 11, Township 27 North, Range 9 West San Juan County, New Mexico
Property:	Navajo Nation
Regulatory:	Navajo Nation Environmental Protection Agency (NNEPA) and New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On April 27, 2021 at 1600 hours, Enterprise personnel discovered a release of natural gas and condensate on the Blanco C-11 pipeline. Enterprise subsequently isolated and locked the pipeline out of service. On April 30, 2021, 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 New Mexico EMNRD OCD closure criteria.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the NNEPA and 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. Ensolum utilized the general site characteristics and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico 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 within a one mile radius of the Site. In addition, no PODs were identified in the adjacent Public Land Survey System (PLSS) sections (**Figure A**, **Appendix B**).

One existing groundwater monitoring well that is associated with the Enterprise Lateral C-11 (2012) release site is located approximately 0.9 miles southwest of the Site. Based on groundwater data from that well, the depth to water at the Lateral C-11 (2012) site is approximately 41 feet below grade surface (bgs).

- Four (4) cathodic protection wells (CPWs) were identified within one mile of the Site and in adjacent PLSS sections in the New Mexico EMNRD OCD imaging database (**Figure B**, **Appendix B**). One CPW is associated with the Turner Hughes #16, #13, and #10 oil/gas production wells and is located approximately 0.2 miles north of the Site and at a higher elevation (6,064 feet) than the Site (6,000 feet), with a depth to water of 145 feet bgs. The second CPW is associated with the Marshall #1 oil/gas production well and is located approximately 0.9 miles southwest of the Site and at a higher elevation (6,221 feet) than the Site, with a depth to water of 150 feet bgs. The third CPW is associated with the Turner Hughes #15 and #19 oil/gas production wells and is located approximately 1.5 miles northwest of the Site and at a higher elevation (6,204 feet) than the Site, with a depth to water of 180 feet bgs. The fourth CPW is associated with the Hughes #10A, Turner Hughes #5 oil/gas production wells and is located approximately 1.8 miles northwest of the Site and at a higher elevation (6,836 feet) than the Site, with a depth to water of 175 feet bgs.

- The Site is located within 300 feet of a New Mexico EMNRD OCD-defined continuously flowing watercourse or significant watercourse. The Site is located approximately 176 feet west of an unnamed ephemeral wash and approximately 850 north of Jaques Canyon Wash (**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**). The nearest permanent residence is located approximately 840 feet northwest of the Site.

- No springs, or private domestic fresh water wells used by less than five (5) 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 residence located approximately 840 northwest of the Site may have an unregistered water well.

- 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 Statues 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 located within 300 feet of a wetland (**Figure F**, **Appendix B**).

- Based on information identified in the New Mexico Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not located 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 location of the Site is unlikely to be located within a 100-year floodplain (**Figure H**, **Appendix B**).

Based on available information, Enterprise estimates the depth to water at the Site to be less than 50 feet bgs. 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 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 April 30, 2021, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, Sierra Oilfield Services, Inc., provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 48 feet long and 10 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 17 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of unconsolidated silty sand.

Approximately 447 cubic yards of petroleum hydrocarbon affected soils and 50 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm near Hilltop, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation was backfilled with imported fill and contoured to provide a suitable driving surface.

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 10 composite soil samples (S-1 through S-10) from the excavation for laboratory analysis. In addition, three (3) composite soil samples (GS-1 through GS-3) were collected from beneath the former unlined stockpiled soils for laboratory analysis. The composite samples were comprised of five (5) 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. A clean shovel or the excavator

bucket was utilized to obtain fresh aliquots from each area of the excavation. The regulatory notification and documentation are provided in **Appendix E**.

First Sampling Event
On May 4, 2021, the first sampling event was performed at the Site. The NNEPA and New Mexico EMNRD OCD were notified of the sampling event although no representatives were present during sampling activities.

Composite soil samples S-1 (0'-17'), S-2 (0'-17'), S-3 (12'-17'), and S-4 (0-12') were collected from the sloped floor of excavation. Composite soil samples S-5 (0'-12'), S-6 (0'-17'), S-7 (0'-17'), S-8 (0'-12'), S-9 (0'-17'), and S-10 (0'-17') were collected from walls of the excavation.

Second Sampling Event
On May 7, 2021, a second sampling event was performed. The NNEPA and New Mexico EMNRD OCD were notified of the sampling event although no representatives were present during sampling activities.

After the removal and transport of the hydrocarbon affected stockpiled soils to the landfarm, composite soil samples GS-1 (0'-0.25'), GS-2 (0'-0.25'), GS-3 (0'-0.25') were collected from the ground surface where the stockpiled soils were formerly located to demonstrate that the soils did not exhibit BTEX or TPH impact.

All soil samples were 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, New Mexico, 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 DATA EVALUATION

Ensolum compared the 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 and GS-1 through GS-3) to the applicable New Mexico 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 applicable New Mexico EMNRD OCD closure criteria of 10 mg/kg.

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

- The laboratory analytical result for composite soil sample S-7 indicates a combined TPH GRO/DRO/MRO concentration of 11 mg/kg, which is less than the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for the remaining 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 applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg.

- The laboratory analytical results for composite soil samples S-2 and S-3 indicate chloride concentrations of 180 mg/kg and 100 mg/kg, respectively, which are less than the applicable New Mexico EMNRD OCD closure criteria of 600 mg/kg. The laboratory analytical results for the remaining composite soil samples indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD 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 contoured to provide a suitable driving surface.

8.0 FINDINGS AND RECOMMENDATION

- Thirteen (13) 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 447 cubic yards of petroleum hydrocarbon affected soils and 50 bbls of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled and contoured to provide a suitable driving surface.

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.

ENSOLUM

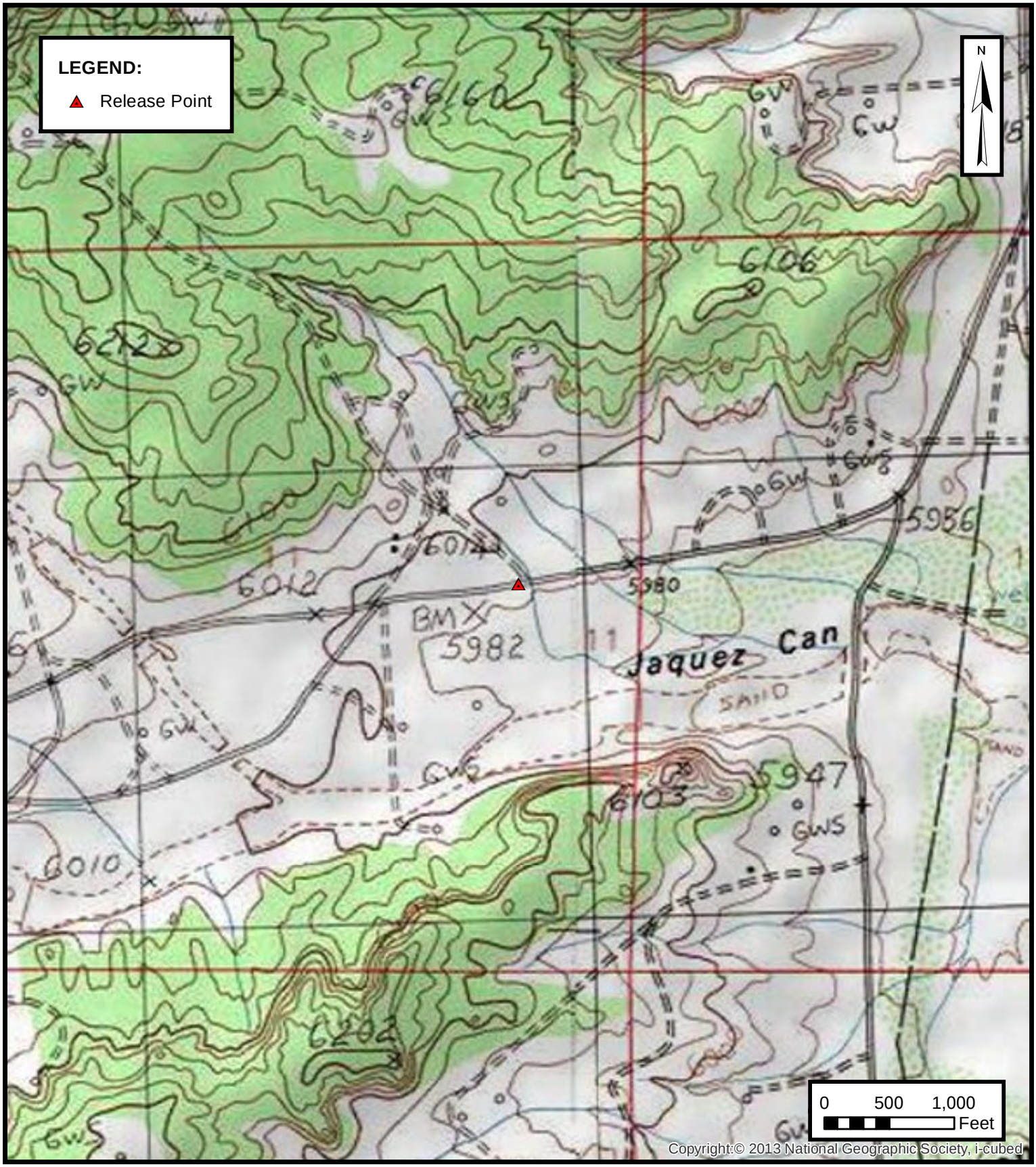
9.3 Reliance

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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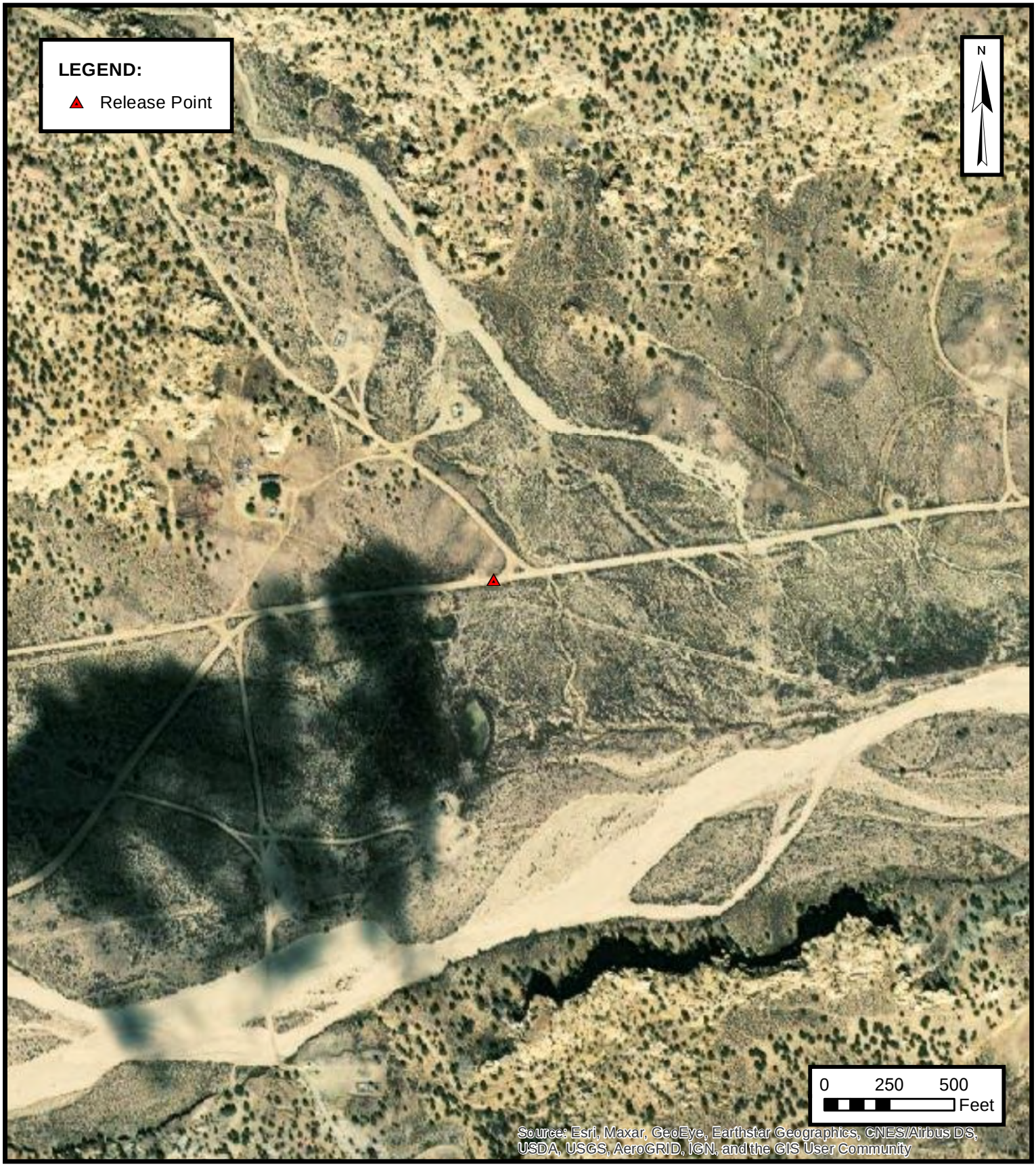
Environmental & Hydrogeologic Consultants

TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC
BLANCO C-11 @1600 - EAST RELEASE SITE
NE ¼, S11 T27N R9W, San Juan County, New Mexico
36.590249° N, 107.751974° W

PROJECT NUMBER: 05A1226147

FIGURE
1



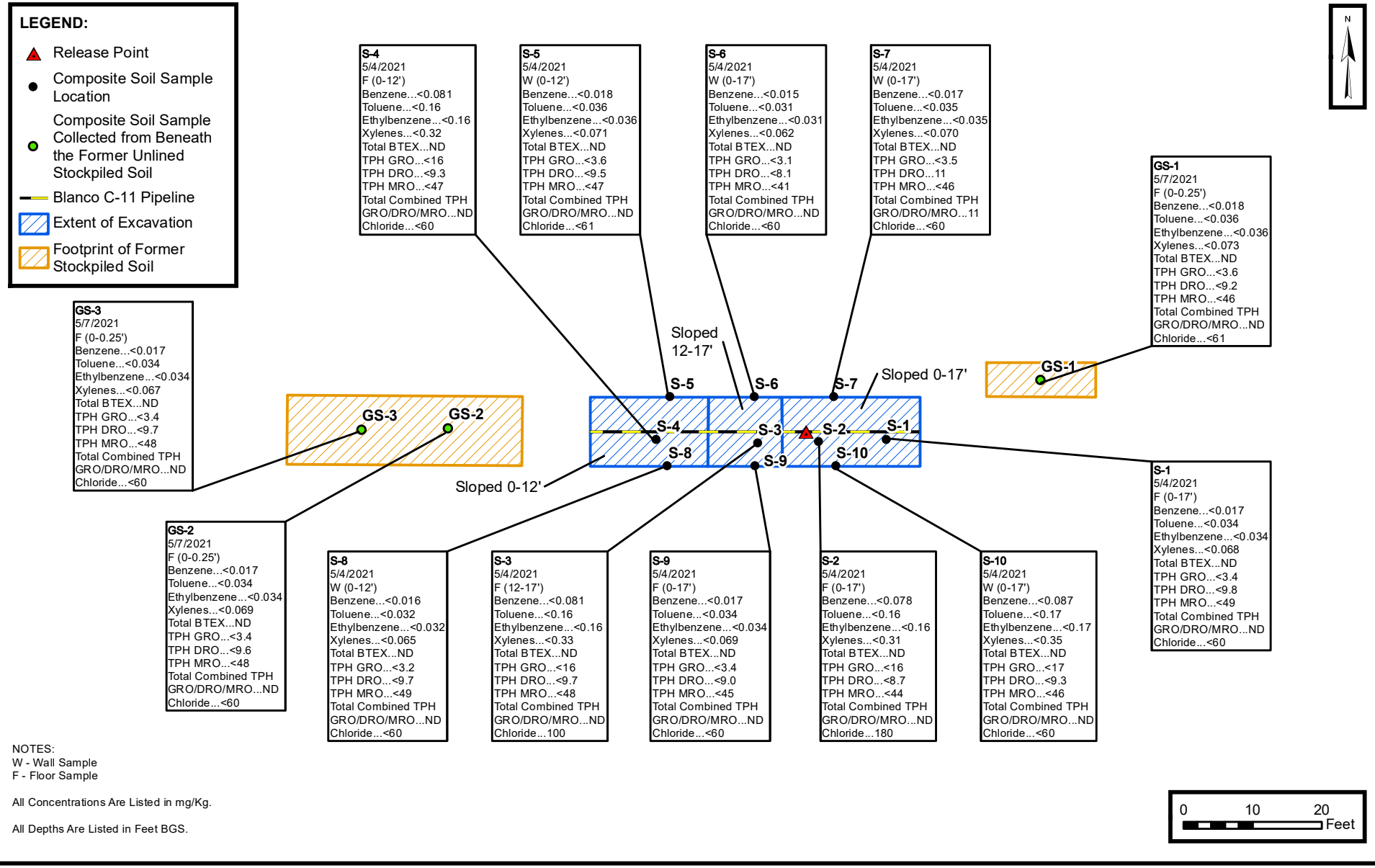
ENSOLUM
Environmental & Hydrogeologic Consultants

SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
BLANCO C-11 @1600 - EAST RELEASE SITE
NE ¼, S11 T27N R9W, San Juan County, New Mexico
36.590249° N, 107.751974° W

PROJECT NUMBER: 05A1226147

FIGURE
2



NOTES:
W - Wall Sample
F - Floor Sample

All Concentrations Are Listed in mg/Kg.

All Depths Are Listed in Feet BGS.

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SITE MAP WITH SOIL ANALYTICAL RESULTS

ENTERPRISE FIELD SERVICES, LLC
BLANCO C-11 @1600 - EAST RELEASE SITE
NE ¼, S11 T27N R9W, San Juan County, New Mexico
36.590249° N, 107.751974° W

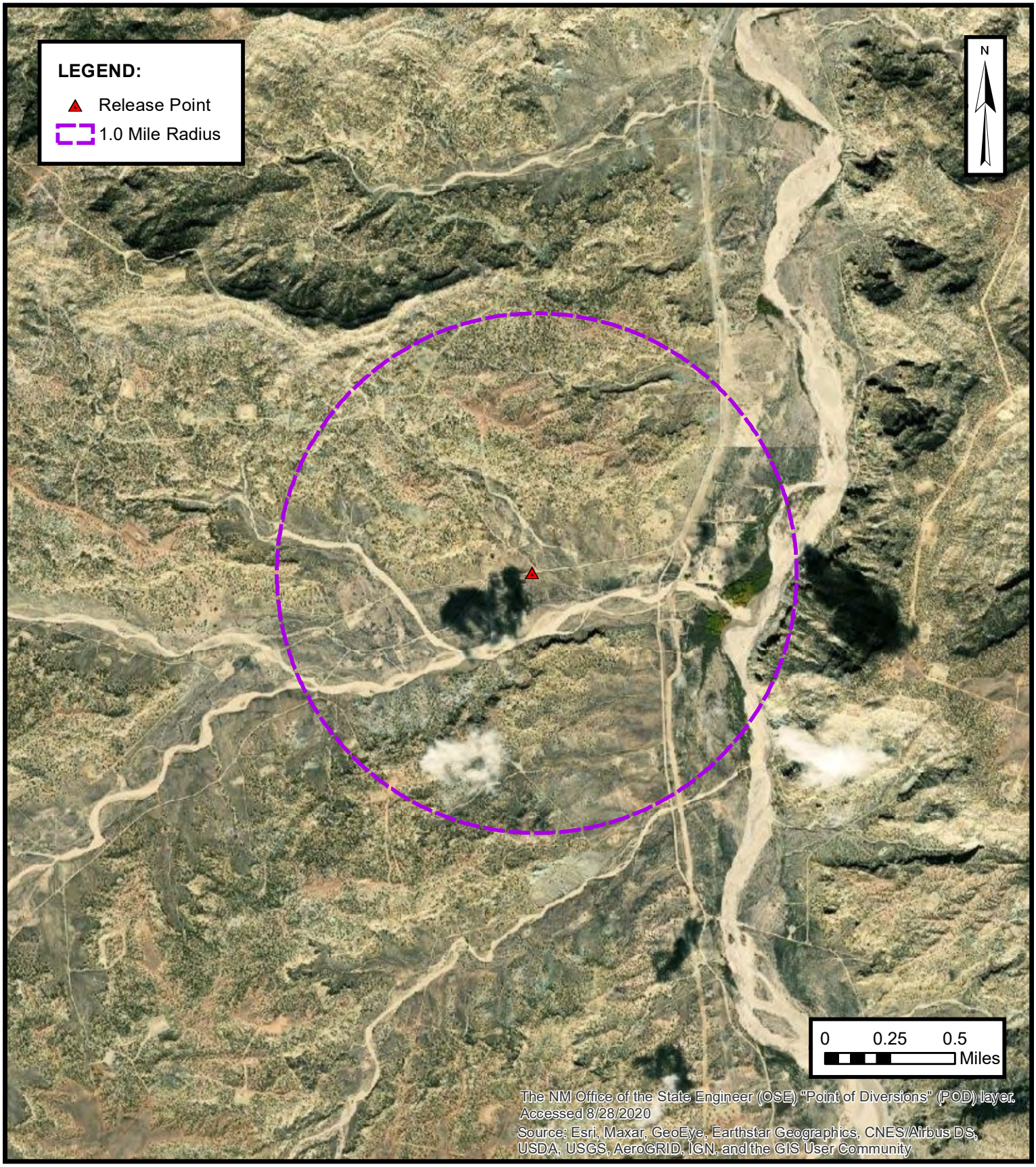
PROJECT NUMBER: 05A1226147

FIGURE
3

ENSOLUM

APPENDIX B

Siting Figures and Documentation



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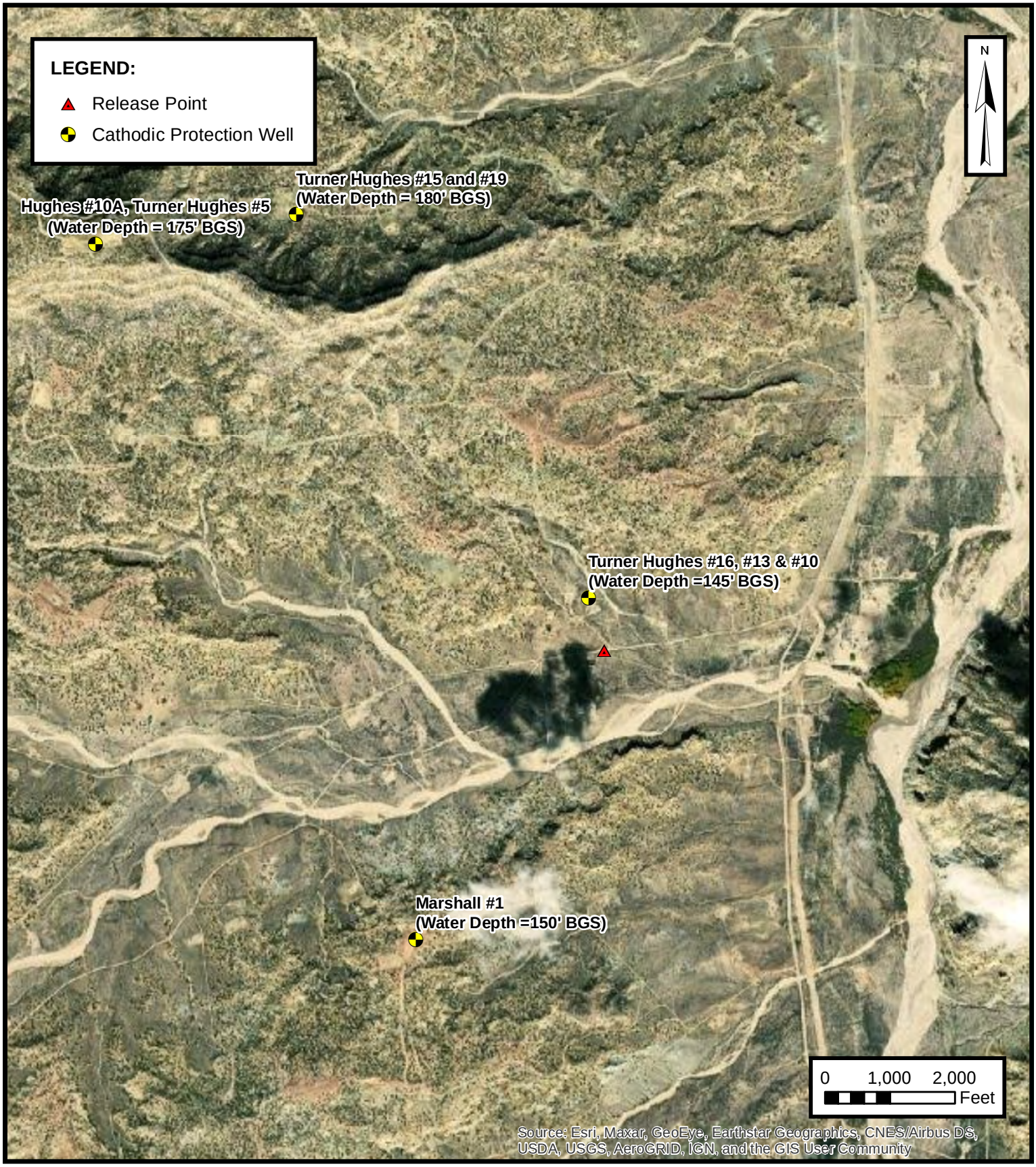
1.0 MILE RADIUS WATER WELL MAP

ENTERPRISE FIELD SERVICES, LLC
BLANCO C-11 @1600 - EAST RELEASE SITE
NE ¼, S11 T27N R9W, San Juan County, New Mexico
36.590249° N, 107.751974° W

PROJECT NUMBER: 05A1226147

FIGURE

A



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CATHODIC PROTECTION WELL RECORDED DEPTH TO WATER
ENTERPRISE FIELD SERVICES, LLC
BLANCO C-11 @1600 - EAST RELEASE SITE
NE ¼, S11 T27N R9W, San Juan County, New Mexico
36.590249° N, 107.751974° W

PROJECT NUMBER: 05A1226147

FIGURE
B

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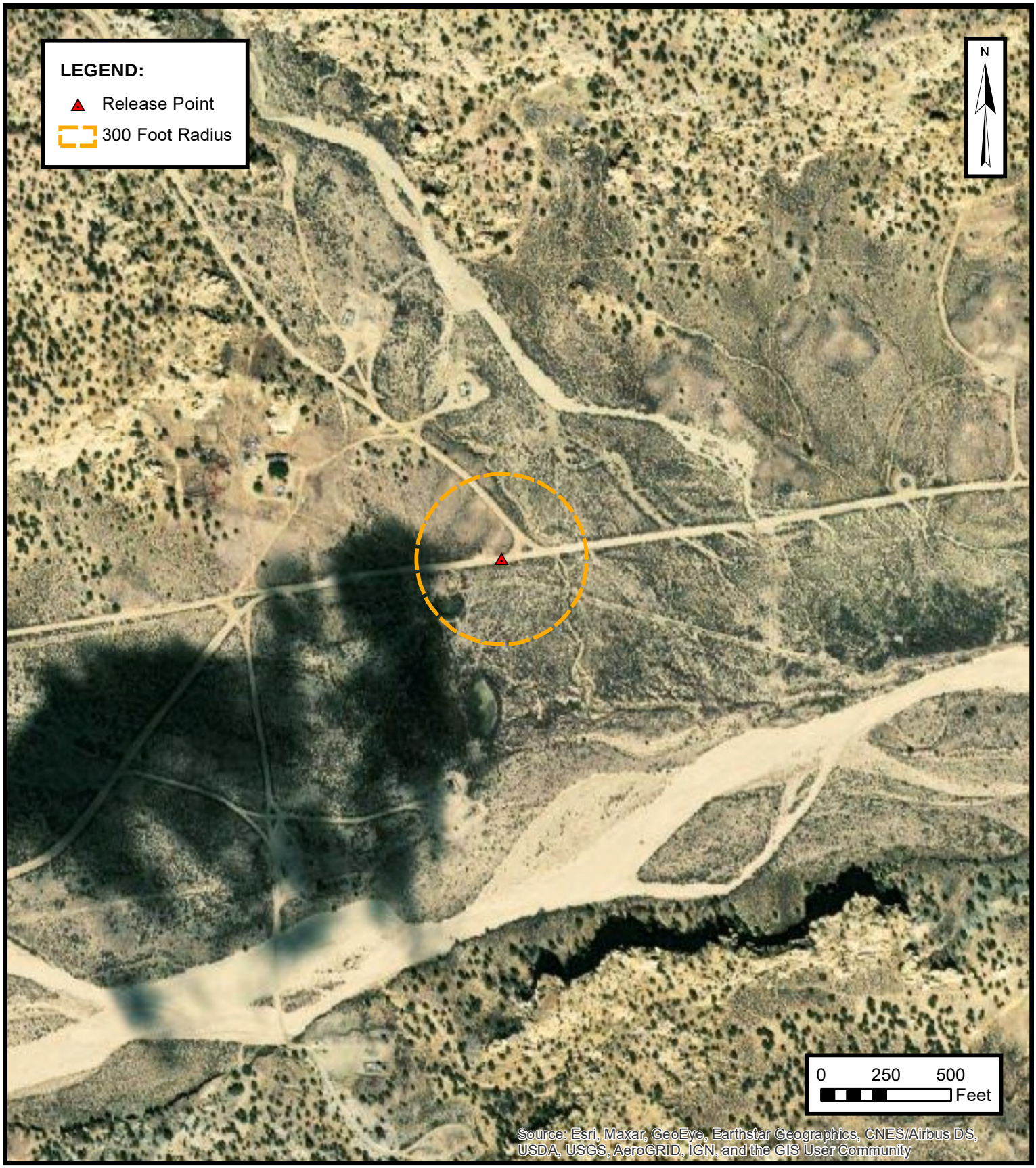
300 FOOT RADIUS
WATERCOURSE AND DRAINAGE IDENTIFICATION
ENTERPRISE FIELD SERVICES, LLC
BLANCO C-11 @1600 - EAST RELEASE SITE
NE ¼, S11 T27N R9W, San Juan County, New Mexico
36.590249° N, 107.751974° W

PROJECT NUMBER: 05A1226147

FIGURE
C



ENSOLUM
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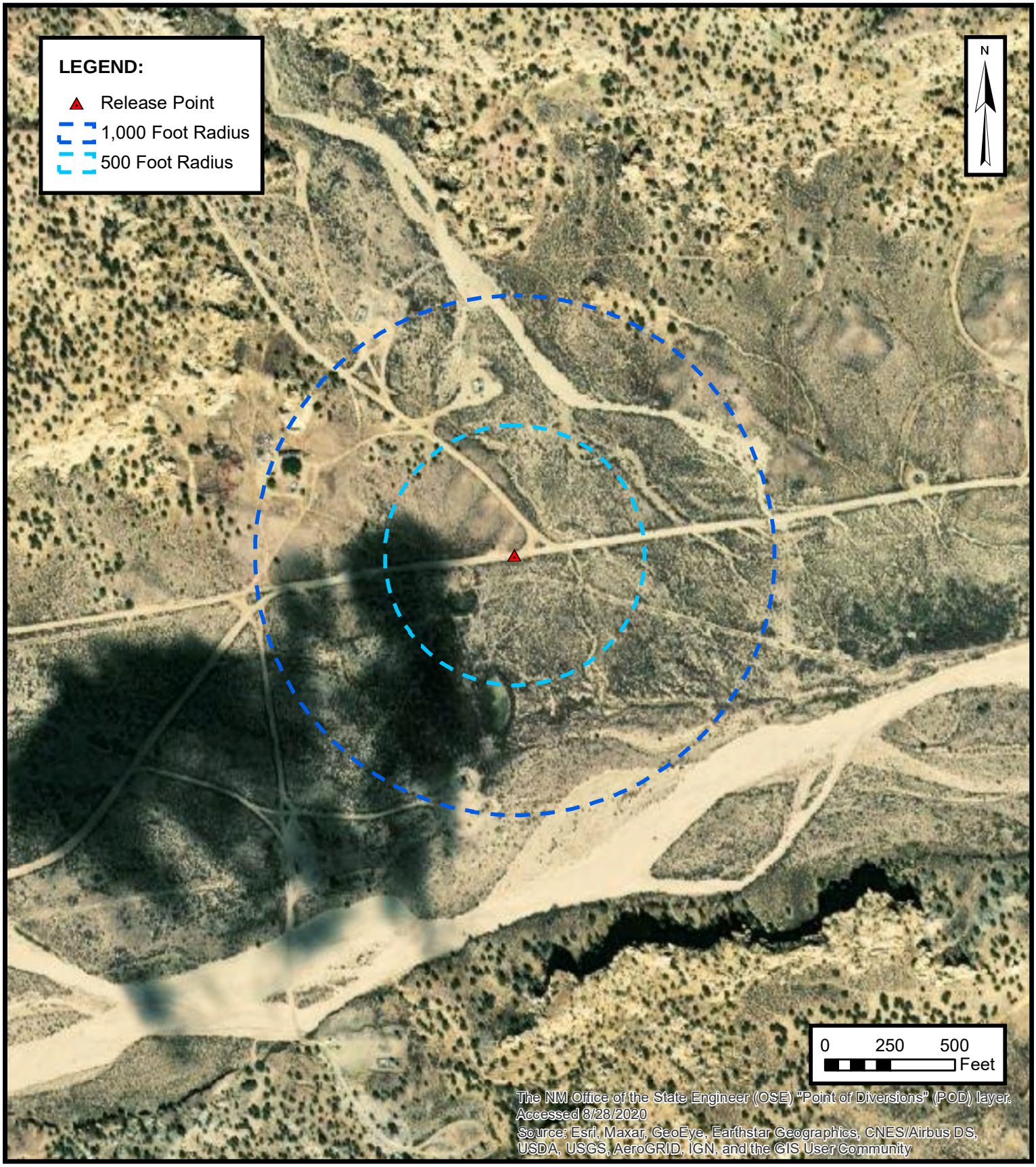
300 FOOT RADIUS
OCCUPIED STRUCTURE IDENTIFICATION
ENTERPRISE FIELD SERVICES, LLC
BLANCO C-11 @1600 - EAST RELEASE SITE
NE ¼, S11 T27N R9W, San Juan County, New Mexico
36.590249° N, 107.751974° W

PROJECT NUMBER: 05A1226147

FIGURE
D



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Environmental & Hydrogeologic Consultants

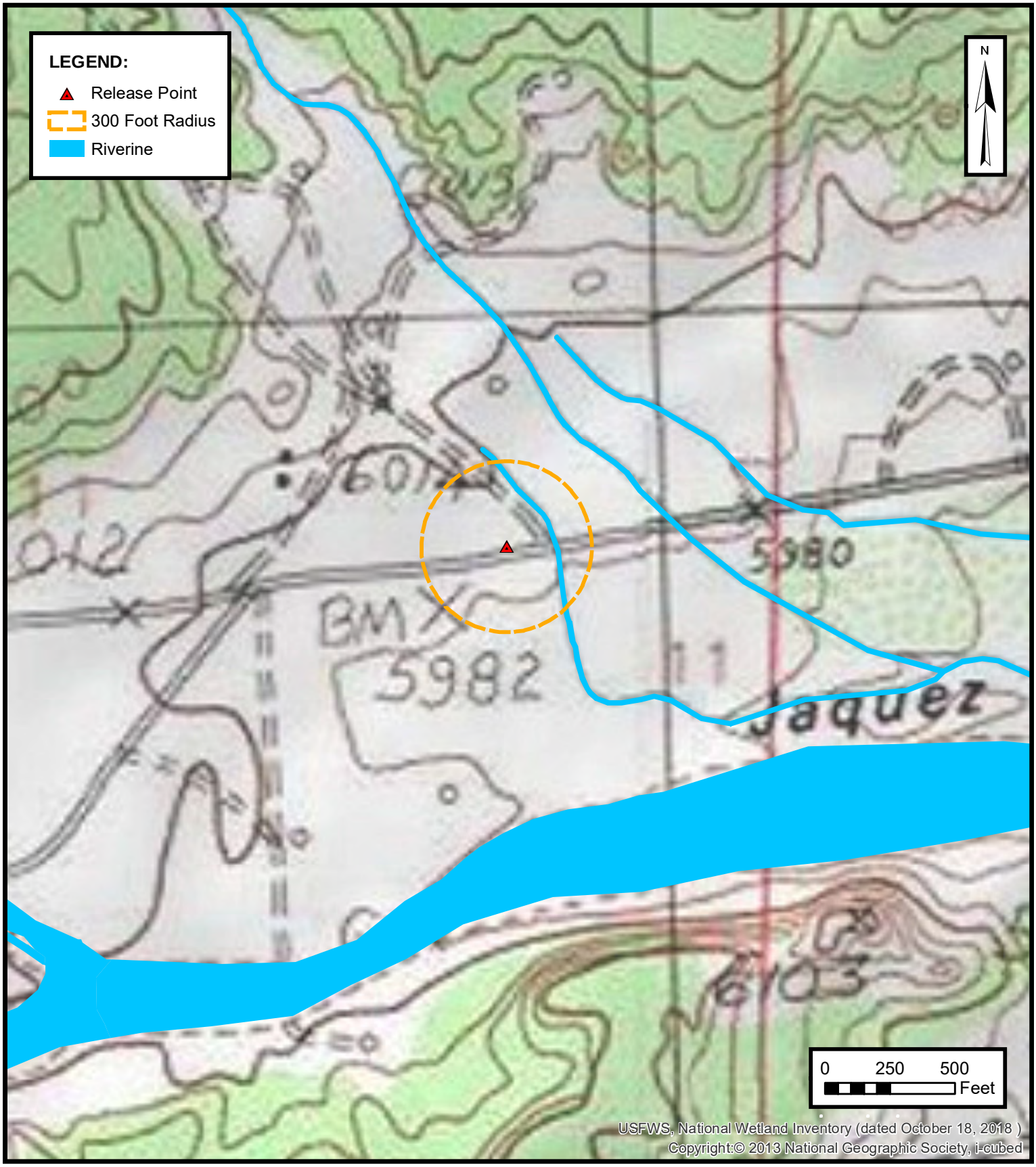
WATER WELL AND NATURAL SPRING LOCATION

ENTERPRISE FIELD SERVICES, LLC
BLANCO C-11 @1600 - EAST RELEASE SITE
NE ¼, S11 T27N R9W, San Juan County, New Mexico
36.590249° N, 107.751974° W

PROJECT NUMBER: 05A1226147

FIGURE

E



ENSOLUM
Environmental & Hydrogeologic Consultants

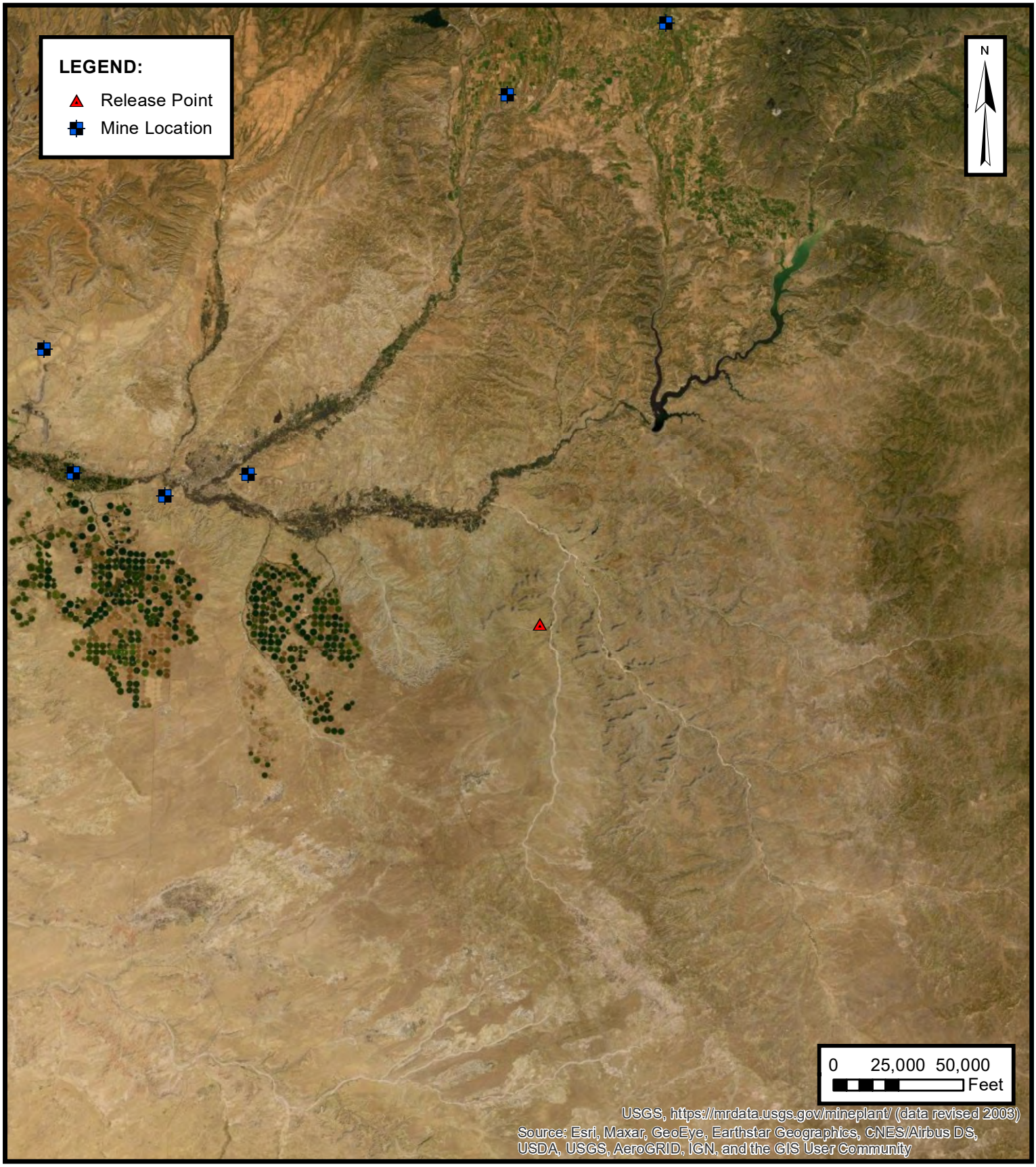
WETLANDS

ENTERPRISE FIELD SERVICES, LLC
BLANCO C-11 @1600 - EAST RELEASE SITE
NE ¼, S11 T27N R9W, San Juan County, New Mexico
36.590249° N, 107.751974° W

PROJECT NUMBER: 05A1226147

FIGURE

F



ENSOLUM
Environmental & Hydrogeologic Consultants

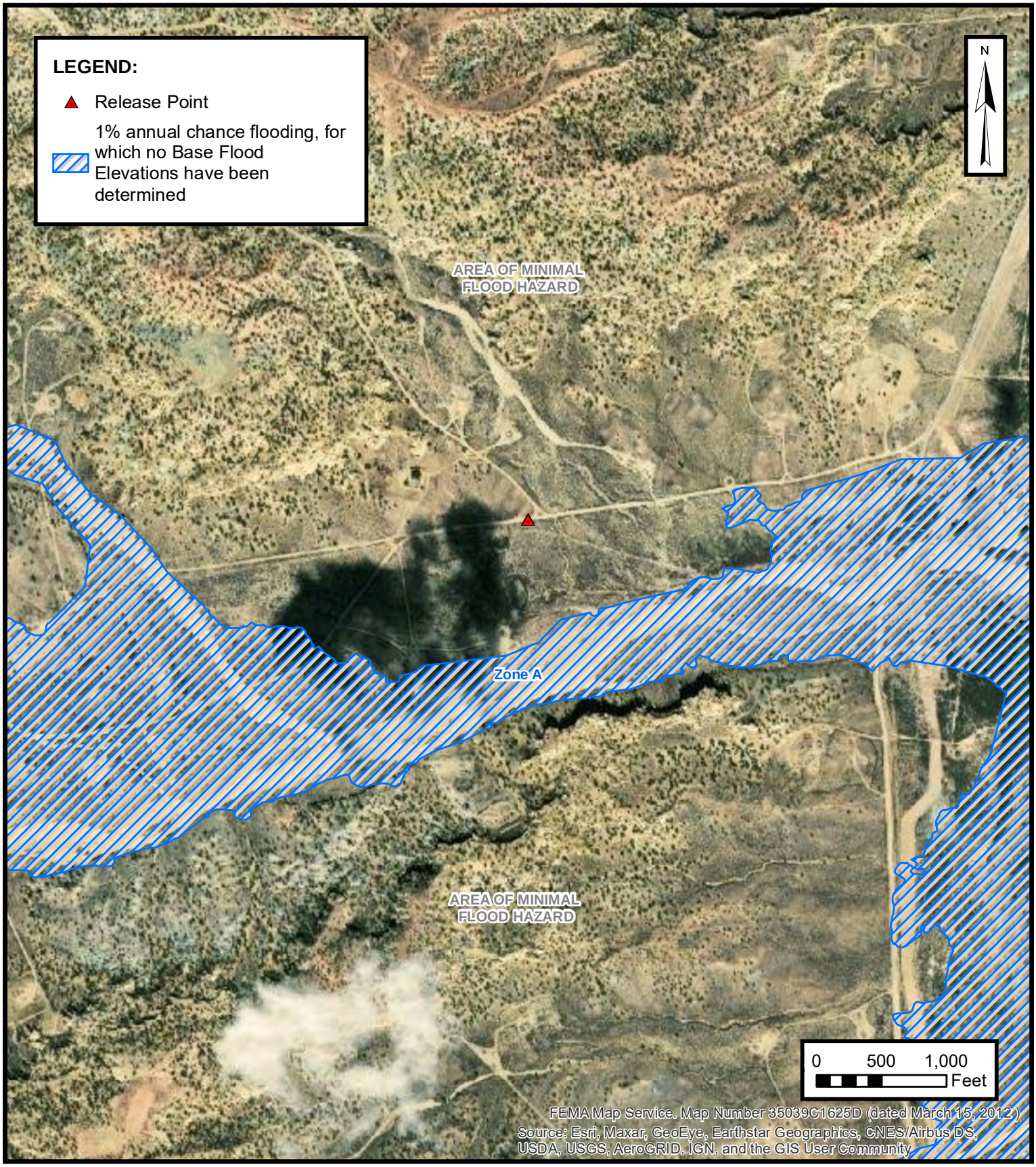
MINES, MILLS AND QUARRIES

ENTERPRISE FIELD SERVICES, LLC
BLANCO C-11 @1600 - EAST RELEASE SITE
NE ¼, S11 T27N R9W, San Juan County, New Mexico
36.590249° N, 107.751974° W

PROJECT NUMBER: 05A1226147

FIGURE

G



ENSOLUM
Environmental & Hydrogeologic Consultants

100-YEAR FLOOD PLAIN MAP

ENTERPRISE FIELD SERVICES, LLC
BLANCO C-11 @1600 - EAST RELEASE SITE
NE ¼, S11 T27N R9W, San Juan County, New Mexico
36.590249° N, 107.751974° W

PROJECT NUMBER: 05A1226147

FIGURE

H

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

No records found.

PLSS Search:

Section(s): 1, 2, 3, 11, 12, 10, 13, 14, 15 **Township:** 27N **Range:** 09W

4/29/21 10:28 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

13-30-045-06683
10-30-045-06710 16-30-045-11874

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

Operator Meridian Oil Location: Unit H Sec. 11 Twp 27 Rng 6

Name of Well/Wells or Pipeline Serviced Turner Hughes #16
#13 & #10

Elevation ____ Completion Date ____ Total Depth ____ Land Type ____

Casing Strings, Sizes, Types & Depths 99' of 8" PVC surface CASING

If Casing Strings are cemented, show amounts & types used Yes with 25 bags cement

If Cement or Bentonite Plugs have been placed, show depths & amounts used No

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. Damp 145' WATER 180'

Depths gas encountered: No

Ground bed depth with type & amount of coke breeze used: 474' with 6500 lbs Loresco Type SW

Depths anodes placed: 455, 445, 410, 340, 330, 300, 290, 280, 255, 245, 235, 225, 215, 205, 195

Depths vent pipes placed: 474'

Vent pipe perforations: bottom 320'

Remarks:

RECEIVED
JAN 20 1995
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.

DATE: 5/9/96

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

Operator Meridian Oil Inc. Location: Unit A Sec. 03 Twp 27 Rng 09

Name of Well/Wells or Pipeline Serviced 30-045-06892

Turner Hughes #15 And #19 30-045-21603

Elevation 6192' Completion Date 5/9/96 Total Depth 435' Land Type F

Casing Strings, Sizes, Types & Depths 5/8 Set 59' of 8" PVC Casing.

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

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

With 15 Sacks.

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

None

Depths & thickness of water zones with description of water: Fresh, Clear,

Salty, Sulphur, Etc. Hit Fresh Water at 180'.

Depths gas encountered: None

Ground bed depth with type & amount of coke breeze used: 435' Depth.

Used 110 Sacks of Asbury 218R (5500#)

Depths anodes placed: 405', 395', 385', 375', 365', 355', 345', 335', 290', 280', 265', 240', 225', 215', & 195'

Depths vent pipes placed: Surface To 435'.

Vent pipe perforations: Bottom 300'.

Remarks:

RECEIVED
FEB 19 1997
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.

CPS GROUND BED CONSTRUCTION WORKSHEET

CPS# 2916-W P/L NAME(S) & NUMBER(S): Turner Hughes #15 and #19

-G -2E22 2E23	TOTAL	VOLTS 11.66	AMPS 33.0	- OHMS .353	DATE 5/9/96	NAME: John L. Moss

REMARKS (notes for construction log): Driller Reported Water at 180'. Installed 435' of 1" PE Vent Pipe, with TNC Bottom 300' Perforated. Coke Breeze To 115'.

DEPTH	LOG ANODE	ANODE #
100		
105		
110		
115		
120		
125		
130	.8	
135	.7	
140	.6	
145	.5	
150	.7	
155	.8	
160	1.1	
165	1.3	
170	1.4	
175	1.4	
180	1.5	
185	.8	
190	[illegible]	
195	3.8	15
200	2.6	
205	2.4	
210	2.6	
215	4.0	-14
220	[illegible]	
225	[illegible]	-13
230	[illegible]	
235	[illegible]	
240	4.7	-12
245	2.4	
250	[illegible]	
255	[illegible]	
260	[illegible]	
265	[illegible]	-11
270	[illegible]	
275	[illegible]	
280	[illegible]	-10
285	[illegible]	
290	[illegible]	-9

DEPTH	LOG ANODE	ANODE #
295	3.7	
300	3.4	
305	3.1	
310	2.5	
315	2.3	
320	2.0	
325	2.4	
330	2.1	
335	3.5	8
340	3.7	
345	3.9	7
350	4.1	
355	4.2	6
360	4.2	
365	4.1	5
370	4.0	
375	4.4	4
380	4.5	
385	4.2	3
390	4.6	
395	4.9	2
400	4.3	
405	4.2	1
410	4.1	
415	4.0	
420	4.0	
425	4.12	
430	T.D.	435
435		
440		
445		
450		
455		
460		
465		
470		
475		
480		
485		

DEPTH	LOG ANODE	ANODE #
490		
495		
500		
505		
510		
515		
520		
525		
530		
535		
540		
545		
550		
555		
560		
565		
570		
575		
580		
585		
590		
595		
600		
605		
610		
615		
620		
625		
630		
635		
640		
645		
650		
655		
660		
665		
670		
675		
680		

DEPTH	LOG ANODE	ANODE #
685		
690		
695		
700		

ANODE #	DEPTH	NG COKE	FULL COKE
1	405'	4.5	7.5
2	395'	4.9	7.7
3	385'	4.5	7.0
4	375'	4.7	7.0
5	365'	4.4	6.9
6	355'	4.5	7.0
7	345'	3.9	6.1
8	335'	3.7	5.6
9	290'	4.3	6.4
10	280'	4.2	6.6
11	265'	3.8	6.0
12	240'	4.6	6.6
13	225'	4.5	7.0
14	215'	4.3	6.6
15	195'	3.9	5.8
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

DISTRIBUTION - ORIGINAL - CORROSION CPS FILE - DIVISION CORROSION SUPERVISOR

#10A → 30-045-26533
TH #5 → 30-045-13284

3522

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

Operator MERIDIAN OIL INC. Location: Unit E Sec. 3 Twp 27 Rng 9

Name of Well/Wells or Pipeline Serviced HUGHES #10A, TURNER HUGHES #5

cps 2024w

Elevation 6848' Completion Date 10/25/88 Total Depth 520' 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. 175'

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 485', 475', 465', 455', 445', 400', 390', 305', 215', 205'

Depths vent pipes placed: 515'

Vent pipe perforations: 360'

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.

MERIDIAN OIL INC.

#07-0238 (Rev. 10-92)

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Completion

Drilling Log (Attach Hereto) ☐

Completion Date 10/25/88

CPS #	Well Name, Line or Plant:	Work Order #	State:	Ins. Union Check
2024 W	Hughes #10A	54312A	.75V 600' W	☒ Good ☐ Bad
	Turner Hughes #5	49474A	.76V 600' W	

Location	Anode Size:	Anode Type:	Size Bit:
E-3-27-9	2" x 60"	Duriron	6 3/4"

Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
520'	515'				

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	485	475	465	455	445	400	390	305	215	205
Anode Output (Amps)	3.8	3.6	4.4	4.5	4.8	3.7	4.1	3.8	3.4	3.6
Anode Depth	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20
Anode Output (Amps)	#11	#12	#13	#14	#15	#16	#17	#18	#19	#20

Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.8	Amps 21.4	Ohms .55		

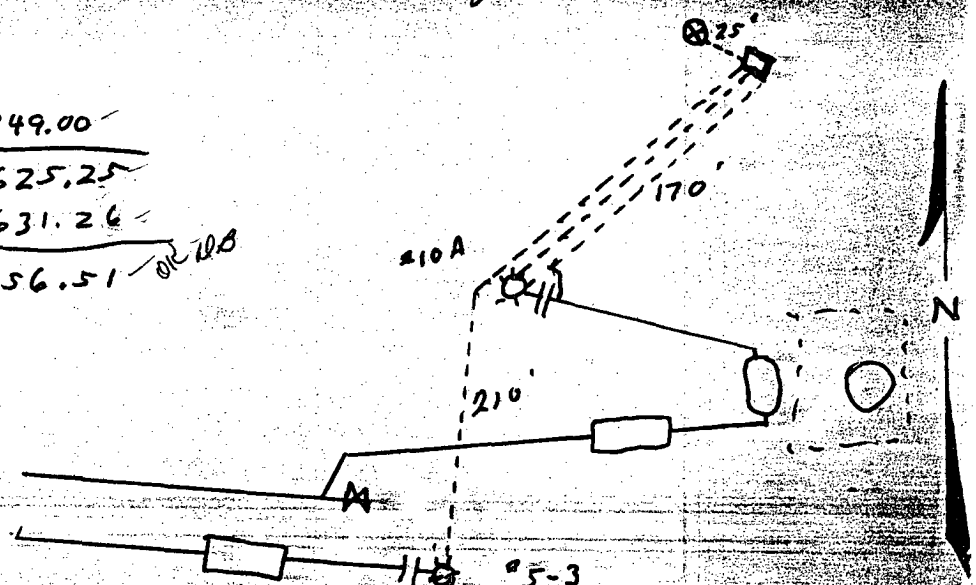
Remarks: HIT DAMP SPOT AT 175', Air Comp. would pressure up, But would not Blow Any Thing To The Top of The Hole NEXT A.M. INSTALLED 515' of 1" P.V.C. VENT Pipe, PERFERATED 360'.

LAYED ½" FUEL LINE, IN WIRE DITCH.

	G.B.	4170.00
~~Rectifier Size~~:	TE.6. V ____ A	7695.00
Addn'l Depth	15' .750	112.50
Depth Credit:	0	
Extra Cable:	380' .25	95.00
~~Ditch & 1 Cable~~:	405' .75	303.75
~~Ditch & 2 Cable~~:		
25' Meter Pole:	0	
20' Meter Pole:	0	
10' Stub Pole:	0	
Junction Box:	1	249.00
		12625.25
	TAX	631.26
	TOTAL	13256.51 OR DB

All Construction Completed

(Signature)



load

D. Crass DRILLING CO.

Drill No. 3 2024

DRILLER'S WELL LOG

S. P. No. Hughes #10A Date 10-25-88

Client Meridian Oil Co. Prospect

County San Juan State New Mex.

If hole is a redrill or if moved from original staked position show distance and direction moved:

FROM	TO	FORMATION — COLOR — HARDNESS
0	165	Sandstone
165	180	Sand ✓
180	225	Shale
225	245	Sandstone
245	250	Shale
250	260	Sandy Shale
260	305	Sandstone
305	325	Shale
325	375	Sandstone
375	420	Shale
420	440	Sandstone
440	495	Shale
495	520	Sandstone

Mud Bran Lime

Rock Bit Number Make

Remarks: Water @ 175'

Driller Lonnie Brown

3523

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

30-045-06530

Operator MERIDIAN OIL INC. Location: Unit L Sec. 14 Twp 27 Rng 9

Name of Well/Wells or Pipeline Serviced MARSHALL #1

cps 2025w

Elevation 6257' Completion Date 10/26/88 Total Depth 460' 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. 150'

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 410', 402', 394', 386', 378', 370', 362', 354', 346', 335'

Depths vent pipes placed: 450'

Vent pipe perforations: 320'

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.

FM-07-0238 (Rev. 10-82)

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

COMP 10-2788

Drilling Log (Attach Hereto) ☐

Completion Date 10/26/88

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
2025W	MARSHALL #1	51613A	.78V 600' W	☒ Good ☐ Bad

Location:	Anode Size:	Anode Type:	Size Bit:
L-14-27-9	2" x 60"	DURI-ON	6 3/4"

Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
460	450				

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	410	402	394	386	378	370	362	354	346	335
Anode Output (Amps)	5.4	5.3	5.9	6.4	5.5	5.8	4.0	3.4	4.1	4.0

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

Total Circuit Resistance				No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.8	Amps 20.0	Ohms .55			

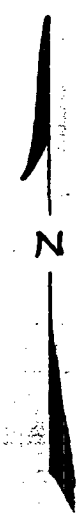
Remarks: WATER AT 150', TOOK WATER SAMPLE, INSTALLED 450' of 1" P.V.C. VENT PIPE, PERFERATED 320'. COULD NOT GET ANY CUTTING OUT OF HOLE AFTER 300'.

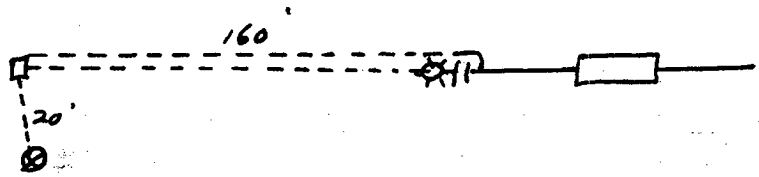
LAYED 1/2" FUEL LINE IN WIRE DITCH.

	G.B.	$4170.00
~~Rectifier Size~~: T.R.G. V ____ A		7695.00
Addn'l Depth	0	
Depth Credit:	-50' 3.50	-175.00 ✓
Extra Cable:	190' .25	47.50 ✓
Ditch & 1 Cable:	180' .75	135.00 ✓
~~Ditch & 2 Cable~~:		
25' Meter Pole:	0	
20' Meter Pole:	0	
10' Stub Pole:	0	
Junction Box:	1	249.00
		$12121.50 ✓
	TAX	606.08 ✓
TOTAL		$ 12727.58 OKAY

All Construction Completed

J C Hall
(Signature)





6057

D. Cross DRILLING CO.

Drill No. 3 2025

DRILLER'S WELL LOG

S. P. No. Marshall #1 Date 10-26-88

Client Meridian Oil Co. Prospect

County San Juan State New Mex.

If hole is a redrill or if moved from original staked position show distance and direction moved:

FROM	TO	FORMATION — COLOR — HARDNESS
0	90	Sandstone
90	135	Shale
135	155	Sand
155	165	Sandy Shale
165	215	Sandstone
215	245	Shale
245	270	Sandstone
270	420	Shale
420	460	Sandstone

Mud Bran Lime

Rock Bit Number Make

Remarks: Water @ 150'

Driller Lonnie Brown

ENSOLUM

APPENDIX C

Executed C-138 Solid Waste Acceptance Form

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

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

Form C-138
Revised 08/01/11

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

PayKey: RB21200
PM: Aaron Lucero
AFE: Pending

2. Originating Site:
Blanco C-11 4-27-2021 - East

3. Location of Material (Street Address, City, State or ULSTR):
UL H Section 11 T27N R9W; 36.590249, -107.751974

April/May 2021

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) 447/50 yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

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

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

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

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

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long Thomas Long 4-29-2021, 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: Riley Industrial/OFT and Subcontractors

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: 4/29/21
SIGNATURE: Greg Crabtree TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

ENSOLUM

APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Blanco C-11 @ 1600 – East Release Site
Ensolum Project No. 05A1226147

ENSOLUM

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

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Blanco C-11 @ 1600 – East Release Site
Ensolum Project No. 05A1226147

ENSOLUM

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

ENSOLUM

APPENDIX E

Regulatory Correspondence

From: Smith, Cory, EMNRD
To: Long, Thomas; nnepawq@frontiernet.net
Cc: Stone, Brian
Subject: RE: [EXTERNAL] Re: Blanco C-11 - UL H Section 11 T27N R9W - East Release Site; 36.590249, -107.751974
Date: Tuesday, May 11, 2021 9:16:50 AM

[Use caution with links/attachments]

Tom,

Thanks for the update please submit the Final c-141

Thanks,

Cory Smith • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1000 Rio Brazos | Aztec, NM 87410
505.334.6178 x115 | Cory.Smith@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Long, Thomas <tjlong@eprod.com>
Sent: Wednesday, May 5, 2021 1:55 PM
To: nnepawq@frontiernet.net; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: [EXT] RE: [EXTERNAL] Re: Blanco C-11 - UL H Section 11 T27N R9W - East Release Site; 36.590249, -107.751974

Steve/Cory,

Please find the attached site sketch and lab report for the Lateral C-11 (East Release Site). All sample results are below the NMOCD Tier I remediation standard. Enterprise will backfill the excavation with clean imported fill material. 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: nnepawq@frontiernet.net <nnepawq@frontiernet.net>
Sent: Wednesday, May 5, 2021 12:30 PM

To: Long, Thomas <tjlong@eprod.com>; 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: [EXTERNAL] Re: Blanco C-11 - UL H Section 11 T27N R9W - East Release Site; 36.590249, -107.751974

[Use caution with links/attachments]

Tom,

Go ahead and proceed with this sampling.

—Steve

Steve Austin
Sr. Hydrologist
NNEPA Water Quality/NPDES Program
(505) 368-1037

On Monday, May 3, 2021, 1:51 PM, Long, Thomas <tjlong@eprod.com> wrote:

> Cory/Steve,
>
> This email is to notify you that Enterprise will be collecting soil samples laboratory analysis tomorrow May 4, 2021at 2:00 p.m. at the Blanco C-11 East Release Site. This will be a partial sampling event. 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

From: Long, Thomas
Sent: Tuesday, April 27, 2021 5:59 PM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>; 'Steve Austin' <nnepawq@frontiernet.net>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: Blanco C-11 - UL H Section 11 T27N R9W; 36.590249, -107.751974

Cory/Steve,

This email is to notify you that Entperise had a release of natural gas and condensate on the Blanco C-11 this evening. The release is approximately 80 feet from a wash. Approximately 2-3 barrels of condensate has been observed on the ground surface. It is located off of CR 7220 and CR 7007 at UL H Section 11 T27N R9W; 36.590249, -107.751974. The pipeline is being isolated, depressurized, locked out and tagged out. No fires, no emergency services responded. No residents affected. 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
Blanco C-11 @ 1600 - East Release Site
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	5.04.21	C	0 to 17	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.8	<49	ND	<60
S-2	5.04.21	C	0 to 17	<0.078	<0.16	<0.16	<0.31	ND	<16	<8.7	<44	ND	180
S-3	5.04.21	C	12 to 17	<0.081	<0.16	<0.16	<0.33	ND	<16	<9.7	<48	ND	100
S-4	5.04.21	C	0 to 12	<0.081	<0.16	<0.16	<0.32	ND	<16	<9.3	<47	ND	<60
S-5	5.04.21	C	0 to 12	<0.018	<0.036	<0.036	<0.071	ND	<3.6	<9.5	<47	ND	<61
S-6	5.04.21	C	0 to 17	<0.015	<0.031	<0.031	<0.062	ND	<3.1	<8.1	<41	ND	<60
S-7	5.04.21	C	0 to 17	<0.017	<0.035	<0.035	<0.070	ND	<3.5	11	<46	11	<60
S-8	5.04.21	C	0 to 12	<0.016	<0.032	<0.032	<0.065	ND	<3.2	<9.7	<49	ND	<60
S-9	5.04.21	C	0 to 17	<0.017	<0.034	<0.034	<0.069	ND	<3.4	<9.0	<45	ND	<60
S-10	5.04.21	C	0 to 17	<0.087	<0.17	<0.17	<0.35	ND	<17	<9.3	<46	ND	<60
Composite Soil Samples Collected from Beneath the Former Unlined Stockpiled Soils													
GS-1	5.07.21	C	0 to 0.25	<0.018	<0.036	<0.036	<0.073	ND	<3.6	<9.2	<46	ND	<61
GS-2	5.07.21	C	0 to 0.25	<0.017	<0.034	<0.034	<0.069	ND	<3.4	<9.6	<48	ND	<60
GS-3	5.07.21	C	0 to 0.25	<0.017	<0.034	<0.034	<0.067	ND	<3.4	<9.7	<48	ND	<60

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

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

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

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: clients.hallenvironmental.com

May 11, 2021

Kyle Summers

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

RE: C 11 East OrderNo.: 2105141

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 10 sample(s) on 5/5/2021 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 **2105141**
Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-1
Project: C 11 East **Collection Date:** 5/4/2021 2:00:00 PM
Lab ID: 2105141-001 **Matrix:** MEOH (SOIL) **Received Date:** 5/5/2021 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	5/5/2021 11:14:09 AM	59816
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/5/2021 11:02:41 AM	59811
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/5/2021 11:02:41 AM	59811
Surr: DNOP	97.4	70-130		%Rec	1	5/5/2021 11:02:41 AM	59811
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	5/5/2021 9:07:40 AM	G77156
Surr: BFB	90.9	70-130		%Rec	1	5/5/2021 9:07:40 AM	G77156
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	5/5/2021 9:07:40 AM	B77156
Toluene	ND	0.034		mg/Kg	1	5/5/2021 9:07:40 AM	B77156
Ethylbenzene	ND	0.034		mg/Kg	1	5/5/2021 9:07:40 AM	B77156
Xylenes, Total	ND	0.068		mg/Kg	1	5/5/2021 9:07:40 AM	B77156
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/5/2021 9:07:40 AM	B77156

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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2105141**
Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-2
Project: C 11 East **Collection Date:** 5/4/2021 2:05:00 PM
Lab ID: 2105141-002 **Matrix:** MEOH (SOIL) **Received Date:** 5/5/2021 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	180	60		mg/Kg	20	5/5/2021 11:26:34 AM	59816
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	5/5/2021 11:12:13 AM	59811
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	5/5/2021 11:12:13 AM	59811
Surr: DNOP	100	70-130		%Rec	1	5/5/2021 11:12:13 AM	59811
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	16		mg/Kg	5	5/5/2021 9:31:15 AM	G77156
Surr: BFB	93.4	70-130		%Rec	5	5/5/2021 9:31:15 AM	G77156
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.078		mg/Kg	5	5/5/2021 9:31:15 AM	B77156
Toluene	ND	0.16		mg/Kg	5	5/5/2021 9:31:15 AM	B77156
Ethylbenzene	ND	0.16		mg/Kg	5	5/5/2021 9:31:15 AM	B77156
Xylenes, Total	ND	0.31		mg/Kg	5	5/5/2021 9:31:15 AM	B77156
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	5	5/5/2021 9:31:15 AM	B77156

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	Value above quantitation range
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		

Analytical Report
Lab Order **2105141**
Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-3
Project: C 11 East **Collection Date:** 5/4/2021 2:10:00 PM
Lab ID: 2105141-003 **Matrix:** MEOH (SOIL) **Received Date:** 5/5/2021 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	100	60		mg/Kg	20	5/5/2021 11:38:59 AM	59816
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/5/2021 11:21:46 AM	59811
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/5/2021 11:21:46 AM	59811
Surr: DNOP	97.2	70-130		%Rec	1	5/5/2021 11:21:46 AM	59811
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	16		mg/Kg	5	5/5/2021 9:54:43 AM	G77156
Surr: BFB	91.6	70-130		%Rec	5	5/5/2021 9:54:43 AM	G77156
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.081		mg/Kg	5	5/5/2021 9:54:43 AM	B77156
Toluene	ND	0.16		mg/Kg	5	5/5/2021 9:54:43 AM	B77156
Ethylbenzene	ND	0.16		mg/Kg	5	5/5/2021 9:54:43 AM	B77156
Xylenes, Total	ND	0.33		mg/Kg	5	5/5/2021 9:54:43 AM	B77156
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	5	5/5/2021 9:54:43 AM	B77156

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	Value above quantitation range
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		

Analytical Report
Lab Order **2105141**
Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-4
Project: C 11 East **Collection Date:** 5/4/2021 2:15:00 PM
Lab ID: 2105141-004 **Matrix:** MEOH (SOIL) **Received Date:** 5/5/2021 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	5/5/2021 11:51:23 AM	59816
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/5/2021 11:31:25 AM	59811
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/5/2021 11:31:25 AM	59811
Surr: DNOP	96.3	70-130		%Rec	1	5/5/2021 11:31:25 AM	59811
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	16		mg/Kg	5	5/5/2021 10:18:10 AM	G77156
Surr: BFB	91.1	70-130		%Rec	5	5/5/2021 10:18:10 AM	G77156
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.081		mg/Kg	5	5/5/2021 10:18:10 AM	B77156
Toluene	ND	0.16		mg/Kg	5	5/5/2021 10:18:10 AM	B77156
Ethylbenzene	ND	0.16		mg/Kg	5	5/5/2021 10:18:10 AM	B77156
Xylenes, Total	ND	0.32		mg/Kg	5	5/5/2021 10:18:10 AM	B77156
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	5	5/5/2021 10:18:10 AM	B77156

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	Value above quantitation range
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		

Analytical Report
Lab Order **2105141**
Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-5
Project: C 11 East **Collection Date:** 5/4/2021 2:20:00 PM
Lab ID: 2105141-005 **Matrix:** MEOH (SOIL) **Received Date:** 5/5/2021 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	61		mg/Kg	20	5/5/2021 12:03:48 PM	59816
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/5/2021 11:41:01 AM	59811
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/5/2021 11:41:01 AM	59811
Surr: DNOP	99.2	70-130		%Rec	1	5/5/2021 11:41:01 AM	59811
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	5/5/2021 10:41:36 AM	G77156
Surr: BFB	94.4	70-130		%Rec	1	5/5/2021 10:41:36 AM	G77156
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	5/5/2021 10:41:36 AM	B77156
Toluene	ND	0.036		mg/Kg	1	5/5/2021 10:41:36 AM	B77156
Ethylbenzene	ND	0.036		mg/Kg	1	5/5/2021 10:41:36 AM	B77156
Xylenes, Total	ND	0.071		mg/Kg	1	5/5/2021 10:41:36 AM	B77156
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	5/5/2021 10:41:36 AM	B77156

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	Value above quantitation range
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		

Analytical Report
Lab Order **2105141**
Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-6
Project: C 11 East **Collection Date:** 5/4/2021 2:25:00 PM
Lab ID: 2105141-006 **Matrix:** MEOH (SOIL) **Received Date:** 5/5/2021 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	5/5/2021 12:16:12 PM	59816
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	8.1		mg/Kg	1	5/5/2021 11:50:40 AM	59811
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	5/5/2021 11:50:40 AM	59811
Surr: DNOP	97.4	70-130		%Rec	1	5/5/2021 11:50:40 AM	59811
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	5/5/2021 11:05:18 AM	G77156
Surr: BFB	94.5	70-130		%Rec	1	5/5/2021 11:05:18 AM	G77156
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.015		mg/Kg	1	5/5/2021 11:05:18 AM	B77156
Toluene	ND	0.031		mg/Kg	1	5/5/2021 11:05:18 AM	B77156
Ethylbenzene	ND	0.031		mg/Kg	1	5/5/2021 11:05:18 AM	B77156
Xylenes, Total	ND	0.062		mg/Kg	1	5/5/2021 11:05:18 AM	B77156
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	5/5/2021 11:05:18 AM	B77156

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	Value above quantitation range
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		

Analytical Report
Lab Order **2105141**
Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-7
Project: C 11 East **Collection Date:** 5/4/2021 2:30:00 PM
Lab ID: 2105141-007 **Matrix:** MEOH (SOIL) **Received Date:** 5/5/2021 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	5/5/2021 12:28:36 PM	59816
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	11	9.3		mg/Kg	1	5/5/2021 12:00:19 PM	59811
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/5/2021 12:00:19 PM	59811
Surr: DNOP	94.0	70-130		%Rec	1	5/5/2021 12:00:19 PM	59811
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	5/5/2021 11:28:57 AM	G77156
Surr: BFB	98.7	70-130		%Rec	1	5/5/2021 11:28:57 AM	G77156
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	5/5/2021 11:28:57 AM	B77156
Toluene	ND	0.035		mg/Kg	1	5/5/2021 11:28:57 AM	B77156
Ethylbenzene	ND	0.035		mg/Kg	1	5/5/2021 11:28:57 AM	B77156
Xylenes, Total	ND	0.070		mg/Kg	1	5/5/2021 11:28:57 AM	B77156
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	5/5/2021 11:28:57 AM	B77156

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	Value above quantitation range
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		

Analytical Report
Lab Order **2105141**
Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-8
Project: C 11 East **Collection Date:** 5/4/2021 2:35:00 PM
Lab ID: 2105141-008 **Matrix:** MEOH (SOIL) **Received Date:** 5/5/2021 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	5/5/2021 1:05:50 PM	59816
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/5/2021 12:10:00 PM	59811
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/5/2021 12:10:00 PM	59811
Surr: DNOP	100	70-130		%Rec	1	5/5/2021 12:10:00 PM	59811
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	5/5/2021 11:52:39 AM	G77156
Surr: BFB	92.8	70-130		%Rec	1	5/5/2021 11:52:39 AM	G77156
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	5/5/2021 11:52:39 AM	B77156
Toluene	ND	0.032		mg/Kg	1	5/5/2021 11:52:39 AM	B77156
Ethylbenzene	ND	0.032		mg/Kg	1	5/5/2021 11:52:39 AM	B77156
Xylenes, Total	ND	0.065		mg/Kg	1	5/5/2021 11:52:39 AM	B77156
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	5/5/2021 11:52:39 AM	B77156

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	Value above quantitation range
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		

Analytical Report
Lab Order **2105141**
Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-9
Project: C 11 East **Collection Date:** 5/4/2021 2:40:00 PM
Lab ID: 2105141-009 **Matrix:** MEOH (SOIL) **Received Date:** 5/5/2021 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	5/5/2021 1:18:14 PM	59816
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	5/5/2021 12:19:43 PM	59811
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/5/2021 12:19:43 PM	59811
Surr: DNOP	98.8	70-130		%Rec	1	5/5/2021 12:19:43 PM	59811
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	5/5/2021 12:16:19 PM	G77156
Surr: BFB	92.3	70-130		%Rec	1	5/5/2021 12:16:19 PM	G77156
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	5/5/2021 12:16:19 PM	B77156
Toluene	ND	0.034		mg/Kg	1	5/5/2021 12:16:19 PM	B77156
Ethylbenzene	ND	0.034		mg/Kg	1	5/5/2021 12:16:19 PM	B77156
Xylenes, Total	ND	0.069		mg/Kg	1	5/5/2021 12:16:19 PM	B77156
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/5/2021 12:16:19 PM	B77156

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	Value above quantitation range
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		

Analytical Report
Lab Order **2105141**
Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** S-10
Project: C 11 East **Collection Date:** 5/4/2021 2:45:00 PM
Lab ID: 2105141-010 **Matrix:** MEOH (SOIL) **Received Date:** 5/5/2021 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	5/5/2021 1:30:38 PM	59816
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/5/2021 12:29:25 PM	59811
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/5/2021 12:29:25 PM	59811
Surr: DNOP	102	70-130		%Rec	1	5/5/2021 12:29:25 PM	59811
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	5/5/2021 12:39:44 PM	G77156
Surr: BFB	92.4	70-130		%Rec	5	5/5/2021 12:39:44 PM	G77156
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.087		mg/Kg	5	5/5/2021 12:39:44 PM	B77156
Toluene	ND	0.17		mg/Kg	5	5/5/2021 12:39:44 PM	B77156
Ethylbenzene	ND	0.17		mg/Kg	5	5/5/2021 12:39:44 PM	B77156
Xylenes, Total	ND	0.35		mg/Kg	5	5/5/2021 12:39:44 PM	B77156
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	5	5/5/2021 12:39:44 PM	B77156

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	Value above quantitation range
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		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2105141**

11-May-21

Client: ENSOLUM

Project: C 11 East

Sample ID: **MB-59816** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBS** Batch ID: **59816** RunNo: **77148**

Prep Date: **5/5/2021** Analysis Date: **5/5/2021** SeqNo: **2736489** Units: **mg/Kg**

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

Sample ID: **LCS-59816** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSS** Batch ID: **59816** RunNo: **77148**

Prep Date: **5/5/2021** Analysis Date: **5/5/2021** SeqNo: **2736490** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2105141**

11-May-21

Client: ENSOLUM

Project: C 11 East

Sample ID: **MB-59811**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **59811**	RunNo: **77152**
Prep Date: **5/5/2021**	Analysis Date: **5/5/2021**	SeqNo: **2735839** 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	9.6		10.00		95.6	70	130			

Sample ID: **LCS-59811**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **59811**	RunNo: **77152**
Prep Date: **5/5/2021**	Analysis Date: **5/5/2021**	SeqNo: **2735840** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.0	68.9	141			
Surr: DNOP	4.7		5.000		93.8	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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2105141**

11-May-21

Client: ENSOLUM

Project: C 11 East

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G77156**	RunNo: **77156**
Prep Date:	Analysis Date: **5/5/2021**	SeqNo: **2736451** 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	930		1000		93.2	70	130			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G77156**	RunNo: **77156**
Prep Date:	Analysis Date: **5/5/2021**	SeqNo: **2736452** 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	102	78.6	131			
Surr: BFB	1000		1000		105	70	130			

Sample ID: **2105141-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **G77156**	RunNo: **77156**
Prep Date:	Analysis Date: **5/5/2021**	SeqNo: **2736453** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.4	17.04	0	98.0	61.3	114			
Surr: BFB	710		681.7		104	70	130			

Sample ID: **2105141-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **S-1**	Batch ID: **G77156**	RunNo: **77156**
Prep Date:	Analysis Date: **5/5/2021**	SeqNo: **2736454** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.4	17.04	0	96.0	61.3	114	2.02	20	
Surr: BFB	710		681.7		105	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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2105141**

11-May-21

Client: ENSOLUM

Project: C 11 East

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B77156**	RunNo: **77156**
Prep Date:	Analysis Date: **5/5/2021**	SeqNo: **2736461** 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	1.0		1.000		103	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B77156**	RunNo: **77156**
Prep Date:	Analysis Date: **5/5/2021**	SeqNo: **2736462** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	1.1	0.050	1.000	0	107	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	70	130			

Sample ID: **2105141-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2**	Batch ID: **B77156**	RunNo: **77156**
Prep Date:	Analysis Date: **5/5/2021**	SeqNo: **2736463** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.2	0.078	3.125	0	103	76.3	120			
Toluene	3.3	0.16	3.125	0	104	78.5	120			
Ethylbenzene	3.2	0.16	3.125	0	103	78.1	124			
Xylenes, Total	9.6	0.31	9.375	0	103	79.3	125			
Surr: 4-Bromofluorobenzene	3.3		3.125		106	70	130			

Sample ID: **2105141-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **S-2**	Batch ID: **B77156**	RunNo: **77156**
Prep Date:	Analysis Date: **5/5/2021**	SeqNo: **2736464** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.1	0.078	3.125	0	101	80	120	2.34	20	
Toluene	3.2	0.16	3.125	0	103	80	120	1.77	20	
Ethylbenzene	3.2	0.16	3.125	0	102	80	120	0.790	20	
Xylenes, Total	9.5	0.31	9.375	0	102	80	120	1.07	20	
Surr: 4-Bromofluorobenzene	3.4		3.125		108	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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
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: **2105141** RcptNo: 1

Received By: **Juan Rojas** **5/5/2021 7:25:00 AM**

Completed By: **Sean Livingston** **5/5/2021 8:03:30 AM**

Reviewed By: DAD 5/5/21

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 ☑

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: JR 5/5/21

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 ☐

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	2.7	Good				
2	0.8	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 100%

Project Name: C-11 East

Project #: OSA1226147

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☐ Yes ☐ No

# of Coolers: 1 2 5/5/21

Cooler Temp (including cf): 2.7-0.2=2.5 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2105141
5/4/21	14:00	S	S-1	1 4oz jar	Cool	001
5/4/21	14:05	S	S-2	1 4oz jar		002
5/4/21	14:10	S	S-3	1 4oz jar		003
5/4/21	14:15	S	S-4	1 4oz jar		004
5/4/21	14:20	S	S-5	1 4oz jar		005
5/4/21	14:25	S	S-6	1 4oz jar		006
5/4/21	14:30	S	S-7	1 4oz jar		007
5/4/21	14:35	S	S-8	1 4oz jar		008
5/4/21	14:40	S	S-9	1 4oz jar		009
5/4/21	14:45	S	S-10	1 4oz jar		010

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
5/4/21	1802		Christian Walls		5/4/21	1802
5/4/21	1917	Christian Walls		courier	5/5/21	9:15

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.

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

Analysis Request

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	(G) ~~F, Br, NO3, NO2, PO4, SO4~~	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
X	X					X			
X	X					X			
X	X					X			
X	X					X			
X	X					X			
X	X					X			
X	X					X			
X	X					X			
X	X					X			
X	X					X			

Remarks:
PM Tom Long
~~N53664~~ N53663 LO Same Day
Pay Key # RB 21200

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

May 11, 2021

Kyle Summers

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

RE: C 11 East OrderNo.: 2105384

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/8/2021 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 **2105384**
Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** GS-1
Project: C 11 East **Collection Date:** 5/7/2021 10:05:00 AM
Lab ID: 2105384-001 **Matrix:** MEOH (SOIL) **Received Date:** 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	61		mg/Kg	20	5/8/2021 11:58:58 AM	59891
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	5/8/2021 1:52:39 PM	59890
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/8/2021 1:52:39 PM	59890
Surr: DNOP	93.9	70-130		%Rec	1	5/8/2021 1:52:39 PM	59890
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	5/10/2021 9:13:38 AM	59887
Surr: BFB	92.0	70-130		%Rec	1	5/10/2021 9:13:38 AM	59887
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	5/10/2021 9:13:38 AM	59887
Toluene	ND	0.036		mg/Kg	1	5/10/2021 9:13:38 AM	59887
Ethylbenzene	ND	0.036		mg/Kg	1	5/10/2021 9:13:38 AM	59887
Xylenes, Total	ND	0.073		mg/Kg	1	5/10/2021 9:13:38 AM	59887
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/10/2021 9:13:38 AM	59887

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	Value above quantitation range
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		

Analytical Report
Lab Order **2105384**
Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** GS-2
Project: C 11 East **Collection Date:** 5/7/2021 10:10:00 AM
Lab ID: 2105384-002 **Matrix:** MEOH (SOIL) **Received Date:** 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	5/8/2021 12:11:23 PM	59891
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/8/2021 3:04:33 PM	59890
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/8/2021 3:04:33 PM	59890
Surr: DNOP	93.6	70-130		%Rec	1	5/8/2021 3:04:33 PM	59890
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	5/10/2021 9:37:22 AM	59887
Surr: BFB	91.3	70-130		%Rec	1	5/10/2021 9:37:22 AM	59887
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	5/10/2021 9:37:22 AM	59887
Toluene	ND	0.034		mg/Kg	1	5/10/2021 9:37:22 AM	59887
Ethylbenzene	ND	0.034		mg/Kg	1	5/10/2021 9:37:22 AM	59887
Xylenes, Total	ND	0.069		mg/Kg	1	5/10/2021 9:37:22 AM	59887
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/10/2021 9:37:22 AM	59887

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	Value above quantitation range
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		

Analytical Report
Lab Order **2105384**
Date Reported: **5/11/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** GS-3
Project: C 11 East **Collection Date:** 5/7/2021 10:15:00 AM
Lab ID: 2105384-003 **Matrix:** MEOH (SOIL) **Received Date:** 5/8/2021 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	5/8/2021 12:23:48 PM	59891
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/8/2021 3:28:31 PM	59890
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/8/2021 3:28:31 PM	59890
Surr: DNOP	95.7	70-130		%Rec	1	5/8/2021 3:28:31 PM	59890
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	5/10/2021 10:01:09 AM	59887
Surr: BFB	90.9	70-130		%Rec	1	5/10/2021 10:01:09 AM	59887
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	5/10/2021 10:01:09 AM	59887
Toluene	ND	0.034		mg/Kg	1	5/10/2021 10:01:09 AM	59887
Ethylbenzene	ND	0.034		mg/Kg	1	5/10/2021 10:01:09 AM	59887
Xylenes, Total	ND	0.067		mg/Kg	1	5/10/2021 10:01:09 AM	59887
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/10/2021 10:01:09 AM	59887

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	Value above quantitation range
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		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2105384**
11-May-21

Client: ENSOLUM
Project: C 11 East

Sample ID: **MB-59891** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **59891** RunNo: **77242**
Prep Date: **5/8/2021** Analysis Date: **5/8/2021** SeqNo: **2739133** Units: **mg/Kg**

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

Sample ID: **LCS-59891** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **59891** RunNo: **77242**
Prep Date: **5/8/2021** Analysis Date: **5/8/2021** SeqNo: **2739134** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2105384**

11-May-21

Client: ENSOLUM

Project: C 11 East

Sample ID: **MB-59890** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **59890** RunNo: **77247**

Prep Date: **5/8/2021** Analysis Date: **5/8/2021** SeqNo: **2740470** 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	9.1		10.00		90.8	70	130			

Sample ID: **LCS-59890** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **59890** RunNo: **77247**

Prep Date: **5/8/2021** Analysis Date: **5/8/2021** SeqNo: **2740471** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.8	68.9	141			
Surr: DNOP	4.4		5.000		88.1	70	130			

Sample ID: **2105384-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **GS-1** Batch ID: **59890** RunNo: **77247**

Prep Date: **5/8/2021** Analysis Date: **5/8/2021** SeqNo: **2740472** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	8.8	44.21	0	98.8	15	184			
Surr: DNOP	3.9		4.421		87.9	70	130			

Sample ID: **2105384-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **GS-1** Batch ID: **59890** RunNo: **77247**

Prep Date: **5/8/2021** Analysis Date: **5/8/2021** SeqNo: **2740473** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.8	48.83	0	98.7	15	184	9.78	23.9	
Surr: DNOP	4.3		4.883		88.7	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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2105384**

11-May-21

Client: ENSOLUM

Project: C 11 East

Sample ID: **MB-59887** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **59887** RunNo: **77262**

Prep Date: **5/8/2021** Analysis Date: **5/10/2021** SeqNo: **2740941** 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	930		1000		92.9	70	130			

Sample ID: **lcs-59887** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **59887** RunNo: **77262**

Prep Date: **5/8/2021** Analysis Date: **5/10/2021** SeqNo: **2740942** 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	102	78.6	131			
Surr: BFB	1000		1000		104	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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2105384**

11-May-21

Client: ENSOLUM

Project: C 11 East

Sample ID: **MB-59887** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **59887** RunNo: **77262**

Prep Date: **5/8/2021** Analysis Date: **5/10/2021** SeqNo: **2740963** 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	1.0		1.000		104	70	130			

Sample ID: **LCS-59887** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **59887** RunNo: **77262**

Prep Date: **5/8/2021** Analysis Date: **5/10/2021** SeqNo: **2740964** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.5	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
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: **2105384** RcptNo: 1

Received By: **Isaiah Ortiz** **5/8/2021 8:25:00 AM** I-OK

Completed By: **Isaiah Ortiz** **5/8/2021 8:36:43 AM** I-OK

Reviewed By: 05/08/2021

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 ☐	

10. NO

# of preserved bottles checked for pH: 5/8/21 (<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	3.4	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande, Suite A

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 100%

Project Name: C-11 East

Project #: 05A1226147

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 3.5-0.1=3.4 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2105384	BTEX / ~~MTBE~~ / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
5/7/21	10:05	S	GS-1	1 4oz jar	Cool	001	X	X					X			
5/7/21	10:10	S	GS-2	1 4oz jar	Cool	002	X	X					X			
5/7/21	10:15	S	GS-3	1 4oz jar	Cool	003	X	X					X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/7/21	1351		Christen Wade		5/7/21	1351
5/7/21	1753	Christen Walters			5/8/21	0825

Remarks: PM Tom Long AFE#N53663 Same Day

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

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 45549

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 45549
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	3/2/2022