



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

ENTERPRISE PRODUCTS OPERATING LLC

August 20, 2021

7016 3010 0000 0900 5547
Return Receipt Requested

State Land Office
Attn: Sami Romero
Division of Oil and Gas
310 Old Santa Fe Trail
Santa Fe, NM 87501

RE: C-141 Form
Enterprise Field Services, LLC
State Com M#9R MV
San Juan County, NM

Mr. Romero:

Enterprise Field Services, LLC is submitting the final release report on State Com M#9R MV that occurred on November 11, 2020.

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

Thank you,

A handwritten signature in blue ink, appearing to read "Jon E. Fields".

Jon E. Fields
Director, Field Environmental

A handwritten signature in blue ink, appearing to read "Rodney M. Sartor".

Rodney M. Sartor
Senior Director, Environmental

/bjm
Attachment

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

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

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 DepartmentOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505Form 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): NRM2032953121
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

Location of Release SourceLatitude **36.946157** Longitude **-107.939104** (NAD 83 in decimal degrees to 5 decimal places)

Site Name State Com M#9R MV	Site Type Natural Gas Gathering Pipeline
Date Release Discovered: 11/11/2020	Serial Number (if applicable): N/A

Unit Letter	Section	Township	Range	County
B	36	32N	11W	San Juan

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: **Sami Romero**)**Nature and Volume of Release**

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls): 3-5 Barrels	Volume Recovered (bbls): None
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf): < 1 MCF	Volume Recovered (Mcf): None
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release: On November 11, 2020, Enterprise had a release of natural gas and natural gas liquids from the State Com M#9R MV meter tube. An area of approximately 56 feet long by 29 feet wide was impacted by the released fluids. The meter tube was isolated, depressurize, locked and tagged out. Remediation activities began December 16, 2020 and were postponed due to restricted access caused by winter weather conditions. NMOCD approved the delayed of remediation due to the inclement weather. Remediation was completed on July 1, 2021. The final excavation dimensions measured approximately 64 feet long by 30 feet wide and ranged up to three (3) feet deep. Approximately 131 cubic yards of hydrocarbon impacted soil was excavated and transported to a 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: 

Date: 8/20/2021

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: 

Date: 03/28/2022

Printed Name: Nelson Velez

Title: Environmental Specialist - Adv



CLOSURE REPORT

Property:

**State Com M#9R MV (11/11/20)
Unit Letter B, S36 T32N R11W
San Juan County, New Mexico**

NM EMNRD OCD Incident ID No. NRM2032953121

August 9, 2021
Ensolum Project No. 05A1226126

Prepared for:

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

Prepared by:

A handwritten signature in blue ink, reading "Raneet Deechilly".

Raneet Deechilly
Environmental Scientist

A handwritten signature in blue ink, reading "Kyle Summers".

Kyle Summers, CPG
Sr. Project Manager

Table of Contents

1.0	INTRODUCTION.....	1
1.1	Site Description & Background.....	1
1.2	Project Objective.....	1
2.0	CLOSURE CRITERIA.....	1
3.0	SOIL REMEDIATION ACTIVITIES.....	3
4.0	SOIL SAMPLING PROGRAM.....	3
5.0	SOIL LABORATORY ANALYTICAL METHODS.....	4
6.0	DATA EVALUATION.....	4
7.0	RECLAMATION AND REVEGETATION.....	5
8.0	FINDINGS AND RECOMMENDATION.....	5
9.0	STANDARDS OF CARE, LIMITATIONS, AND RELIANCE.....	5
9.1	Standard of Care.....	5
9.2	Limitations.....	6
9.3	Reliance.....	6

LIST OF APPENDICES

Appendix A: Figures

- Figure 1 Topographic Map
- Figure 2 Site Vicinity Map
- Figure 3 Site Map with Soil Analytical Results

Appendix B: Siting Figures and Documentation

- Figure A 1.0 Mile Radius Water Well/POD Location Map
- Figure B Cathodic Protection Well Recorded Depth to Water
- Figure C 300 Foot Radius Watercourse and Drainage Identification
- Figure D 300 Foot Radius Occupied Structure Identification
- Figure E Water Well and Natural Spring Location
- Figure F Wetlands
- Figure G Mines, Mills, and Quarries
- Figure H 100-Year Flood Plain Map

Appendix C: Executed C-138 Solid Waste Acceptance Forms

Appendix D: Photographic Documentation

Appendix E: Regulatory Correspondence

Appendix F: Table 1 - Soil Analytical Summary

Appendix G: Laboratory Data Sheets & Chain of Custody Documentation



CLOSURE REPORT

**State Com M#9R MV (11/11/20)
Unit Letter B, S36 T32N R11W
San Juan County, New Mexico**

Ensolum Project No. 05A1226126

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	State Com M#9R MV (11/11/20) (Site)
Incident ID	NRM2032953121
Location:	36.946157° North, 107.939104° West Unit Letter B, Section 36, Township 32 North, Range 11 West San Juan County, New Mexico
Property:	New Mexico (NM) State Land Office (SLO)
Regulatory:	NM Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On November 11, 2020, a release of natural gas and condensate occurred from the State Com M#9R MV meter run. Enterprise subsequently isolated, locked the meter run out of service, and replaced the orifice gaskets. On December 16, 2020, Enterprise initiated activities to remediate petroleum hydrocarbon impact.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the NM EMNRD OCD. To address activities related to oil and gas releases, the NM EMNRD OCD references NM Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, the general site characteristics, and information available from the NM Office of the State Engineer (OSE) and the NM EMNRD OCD imaging database to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following bullets are provided in **Appendix B**.

- The OSE tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). Four PODs (SJ-01356, SJ-01958, SJ-01977, and SJ-03308) were identified in the adjacent Public Land Survey System (PLSS) sections. The average water

Closure Report
Enterprise Field Services, LLC
State Com M#9R MV (11/11/20)
August 9, 2021



depth for these four PODS is 54 feet below grade surface (bgs). POD SJ-01356 is the only POD located less than one mile from the Site, with depth to water of 50 feet bgs (**Figure A, Appendix B**).

- Nine cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database within one mile of the Site and in adjacent PLSS sections. The approximate locations of the CPWs are depicted on **Figure B (Appendix B)**. One CPW is associated with the Fields LS 2A oil/gas production well and is located approximately 0.5 miles northeast of the site and at a higher elevation (6,235 feet) than the Site (6,194 feet), with a reported depth to water of 30 feet bgs. The second CPW is associated with the Hamilton #3 oil/gas production well and is located approximately 0.7 miles northeast of the site and at a lower elevation (6,121 feet) than the Site, with a reported depth to water of 70 feet bgs. The third CPW is associated with the Scott #2R oil/gas production well and is located approximately 1 mile east of the site and at a lower elevation (6,155 feet, according to the well record) than the Site, with a reported depth to water of 100 feet bgs. The fourth CPW is associated with the Scott #2, #16 oil/gas production wells and is located approximately 1.1 miles east of the site and at a lower elevation (6,081 feet, according to the well record) than the Site, with a reported depth to water of 100 feet bgs. The fifth CPW is associated with the Scott #2A oil/gas production well and is located approximately 1.1 miles southeast of the site and at a lower elevation (5,998 feet, according to the well record) than the Site, with a reported depth to water of 55 feet bgs. The sixth CPW is associated with the Primo Federal 1A oil/gas production well and is located approximately 1.2 miles southeast of the site and at a lower elevation (5,946 feet) than the Site, with a reported depth to water of 60 feet bgs. The seventh CPW is associated with the Horton #1R oil/gas production well and is located approximately 1.4 miles southwest of the site and at a lower elevation (6,052 feet, according to the well record) than the Site, with a reported depth to water of 110 feet bgs. The eighth CPW is associated with the Horton #1 oil/gas production well and is located approximately 1.5 miles southwest of the site and at a lower elevation (6,015 feet) than the Site, with no reported depth to water. The ninth CPW is associated with the Primo Federal 1 oil/gas production well and is located approximately 1.6 miles southeast of the site and at a lower elevation (5,940 feet) than the Site, with a reported depth to water of 90 feet bgs.
- The Site is not located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C, Appendix B**).
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (**Figure D, Appendix B**).
- No springs, or private domestic fresh water wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site (**Figure E, Appendix B**).
- No fresh water wells or springs were identified within 1,000 feet of the Site (**Figure E, Appendix B**).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not located within 300 feet of a wetland (**Figure F, Appendix B**).
- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine (**Figure G, Appendix B**).

Closure Report
Enterprise Field Services, LLC
State Com M#9R MV (11/11/20)
August 9, 2021



- 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 not located within a 100-year floodplain (**Figure H, Appendix B**).

Based on the identified siting criteria, the estimated depth to water may be than 50 feet. The soil requirements of NMAC 19.15.29.13(D)(1) indicate that a minimum of the upper four feet must contain “uncontaminated” soil and that the soils meet Tier I closure criteria listed in Table 1 of NMAC 19.15.29.12. The applicable closure criteria for soils at the Site (at which all impact was less than four feet bgs) includes the following:

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 December 16, 2020, Enterprise initiated activities to remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, West States Energy Contractors, Inc. provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 64 feet long and 30 feet wide at the maximum extents. The maximum depth of the excavation measured approximately three feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of unconsolidated silty sand.

Approximately 131 cubic yards of petroleum hydrocarbon affected soils and 15 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm near Hilltop, NM for disposal/remediation. The executed C-138 solid waste acceptance forms are provided in **Appendix C**. The excavation was backfilled with imported fill and then contoured to the surrounding grade.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the meter run (**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.

Closure Report
Enterprise Field Services, LLC
State Com M#9R MV (11/11/20)
August 9, 2021



Ensolum's soil sampling program included the collection of nine composite soil samples (S-1 through S-9) from the excavation for laboratory analysis. The composite samples were comprised of five aliquots each. The NM EMNRD OCD provided approval to increase the sampling interval from 200 square feet (ft²) to 400 ft². A clean shovel was utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

First Sampling Event

On December 16, 2020, the first sampling event was performed at the Site. The NM EMNRD OCD and the NM SLO were notified of the sampling event although no representatives were present during sampling activities. Composite soil samples S-1 (0'-1'), S-2 (0'-1'), S-3 (0'-1.5'), S-4 (0'-1.5'), S-5 (0'-0.5'), and S-6 (0'-0.5') were collected from the floor and walls of the shallow excavation. Subsequent analytical results indicated a TPH concentration that exceeded the NM EMNRD OCD closure criteria for composite soil sample S-6. The NM EMNRD OCD approved Enterprise's request to postpone excavation below and surrounding the meter run until weather and ground conditions improved. The remediated portion of the excavation was backfilled.

Second Sampling Event

On June 9, 2021, excavation resumed below and surrounding the meter run. Hand tools were utilized to excavate the soil. After excavation, a second sampling event was performed. The NM EMNRD OCD and the NM SLO were notified of the sampling event although no representatives were present during sampling activities. In an effort to pinpoint the area of heaviest hydrocarbon impact, two composite samples were collected to replace composite soil sample S-6. Composite soil samples S-7 (0'-2') and S-8 (0'-1.5') were collected from the floor and walls of the excavation under the meter run. Subsequent soil analytical results indicated a TPH concentration that exceeded the NM EMNRD OCD closure criteria for sample S-7. In response to the data exceedance, the sample area associated with S-7 was further excavated and the soil was transported to a NM EMNRD OCD-approved landfarm for disposal/remediation.

Third Sampling Event

On July 1, 2021, a third sampling event was performed. The NM EMNRD OCD and the NM SLO were notified of the sampling event although no representatives were present during sampling activities. Composite soil sample S-9 (0'-3') was collected from the floor and walls of the excavation to replace composite soil sample S-7.

All soil samples were collected and placed in laboratory prepared glassware. The containers were labeled and sealed using the laboratory supplied labels and custody seals and were stored on ice in a cooler. The samples were relinquished to the courier for Hall Environmental Analysis Laboratory of Albuquerque, NM, under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX using Environmental Protection Agency (EPA) SW-846 Method #8021 or #8260; 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-5, S-8, and S-9) to the applicable NM EMNRD OCD Tier I closure criteria. The soils associated with

Closure Report
Enterprise Field Services, LLC
State Com M#9R MV (11/11/20)
August 9, 2021



composite soil samples S-6 and S-7 were transported to Envirotech landfarm for disposal/remediation and are not included in the following discussion.

- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 10 mg/kg.
- The laboratory analytical result for composite soil sample S-5 indicates a total BTEX concentration of 0.29 mg/kg, which is less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for all other composite soil samples collected from soils remaining at the Site indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM 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 imported fill and was then contoured to surrounding grade to provide a suitable driving surface.

8.0 FINDINGS AND RECOMMENDATION

- Nine composite soil samples were collected from the Site. Based on laboratory analytical results, the soils remaining in place at the Site do not exhibit COC concentrations above the applicable New Mexico EMNRD OCD closure criteria.
- Approximately 131 cubic yards of petroleum hydrocarbon affected soils and 15 bbls of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled with imported fill and then contoured to the surrounding grade.

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

Closure Report
Enterprise Field Services, LLC
State Com M#9R MV (11/11/20)
August 9, 2021



work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties).

9.2 Limitations

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

9.3 Reliance

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



APPENDIX A

Figures



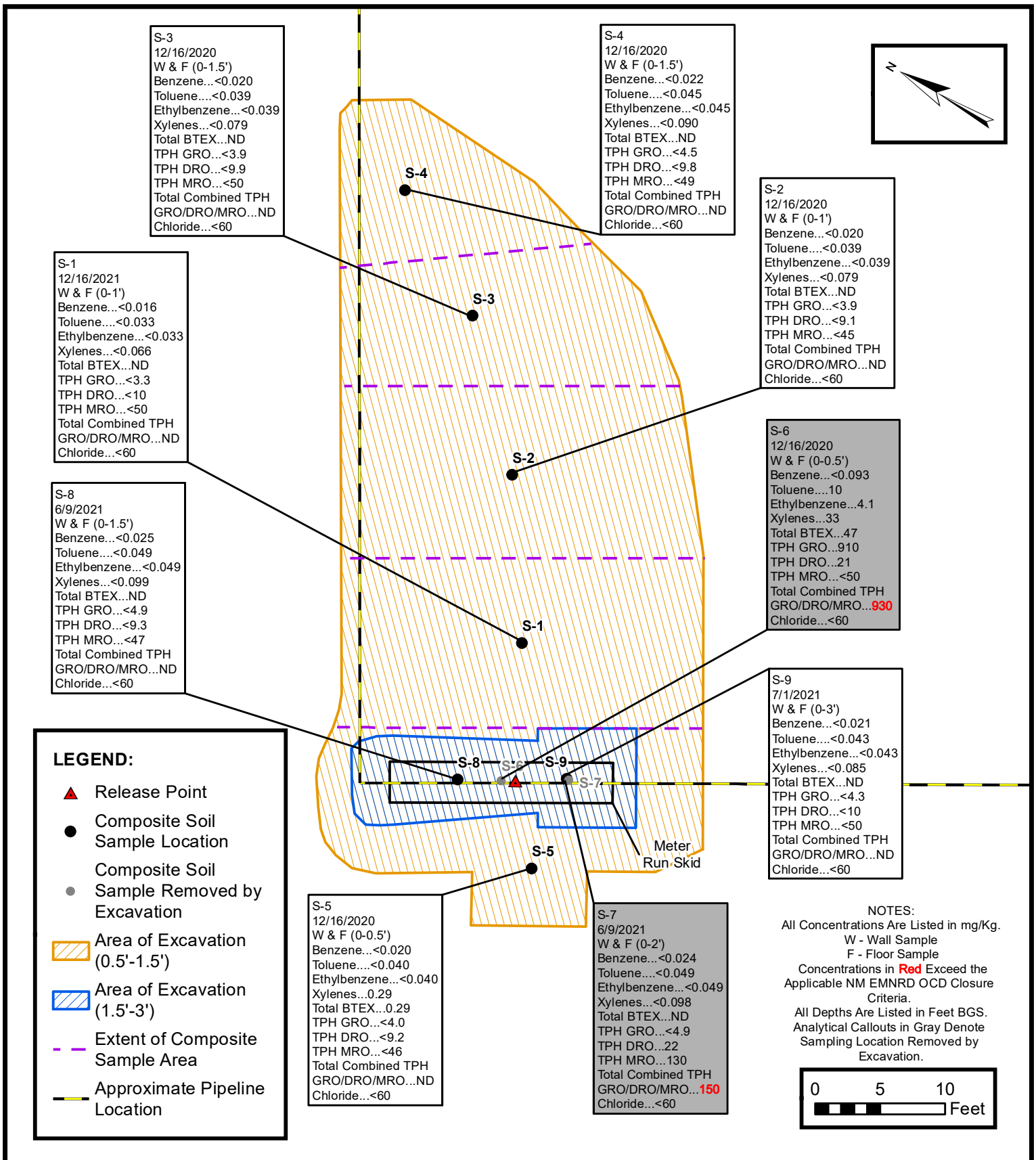
SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
STATE COM M#9R MV (11/11/20)
Unit Letter B, S36 T32N R11W, San Juan County, New Mexico
36.946157° N, 107.939104° W

PROJECT NUMBER: 05A1226126

FIGURE

2



SITE MAP WITH SOIL ANALYTICAL RESULTS

ENTERPRISE FIELD SERVICES, LLC
STATE COM M#9R MV (11/11/20)
Unit Letter B, S36 T32N R11W, San Juan County, New Mexico
36.946157° N, 107.939104° W

PROJECT NUMBER: 05A1226126

FIGURE

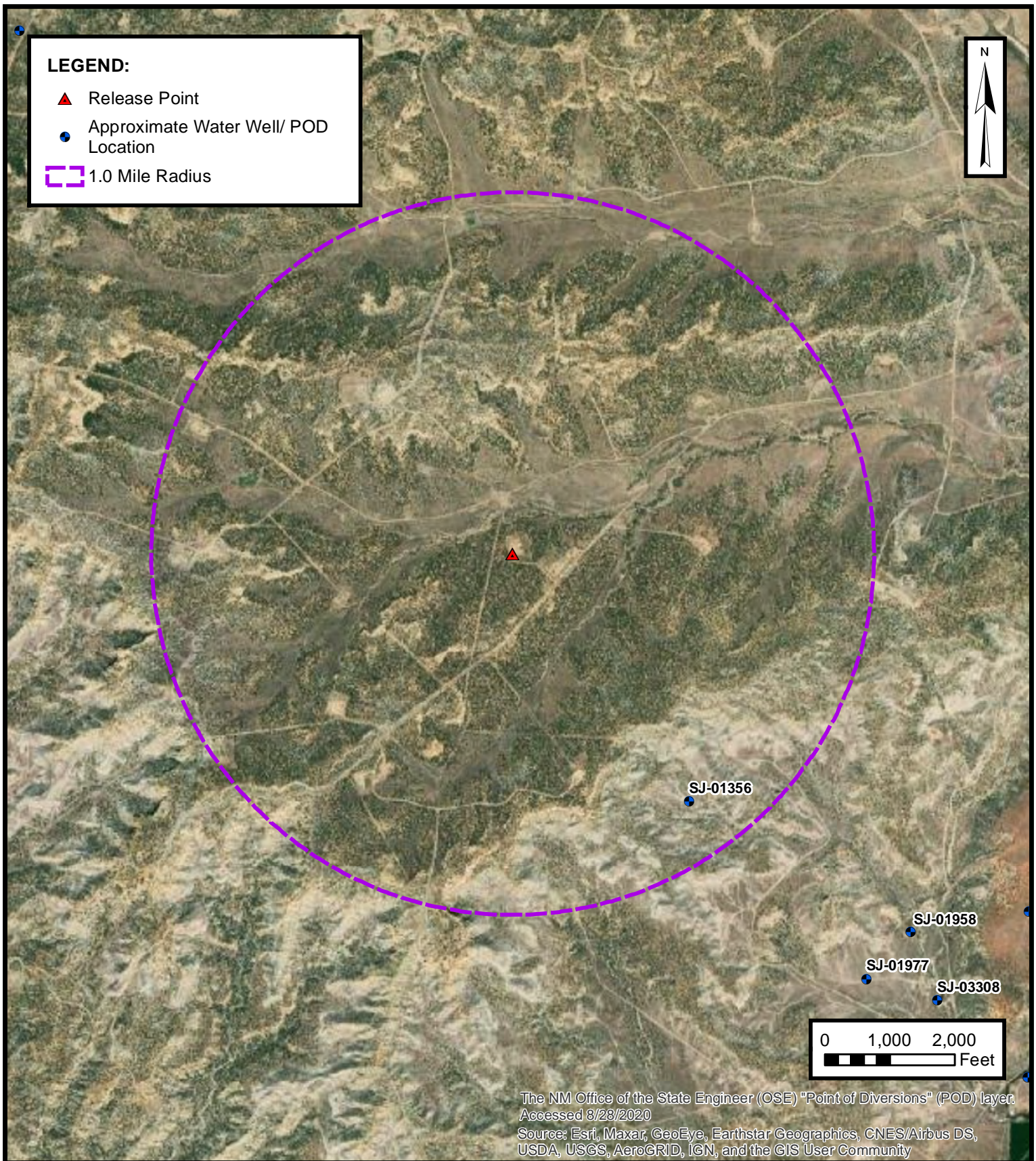
3

ENSOLUM
Environmental & Hydrogeologic Consultants



APPENDIX B

Siting Figures and Documentation



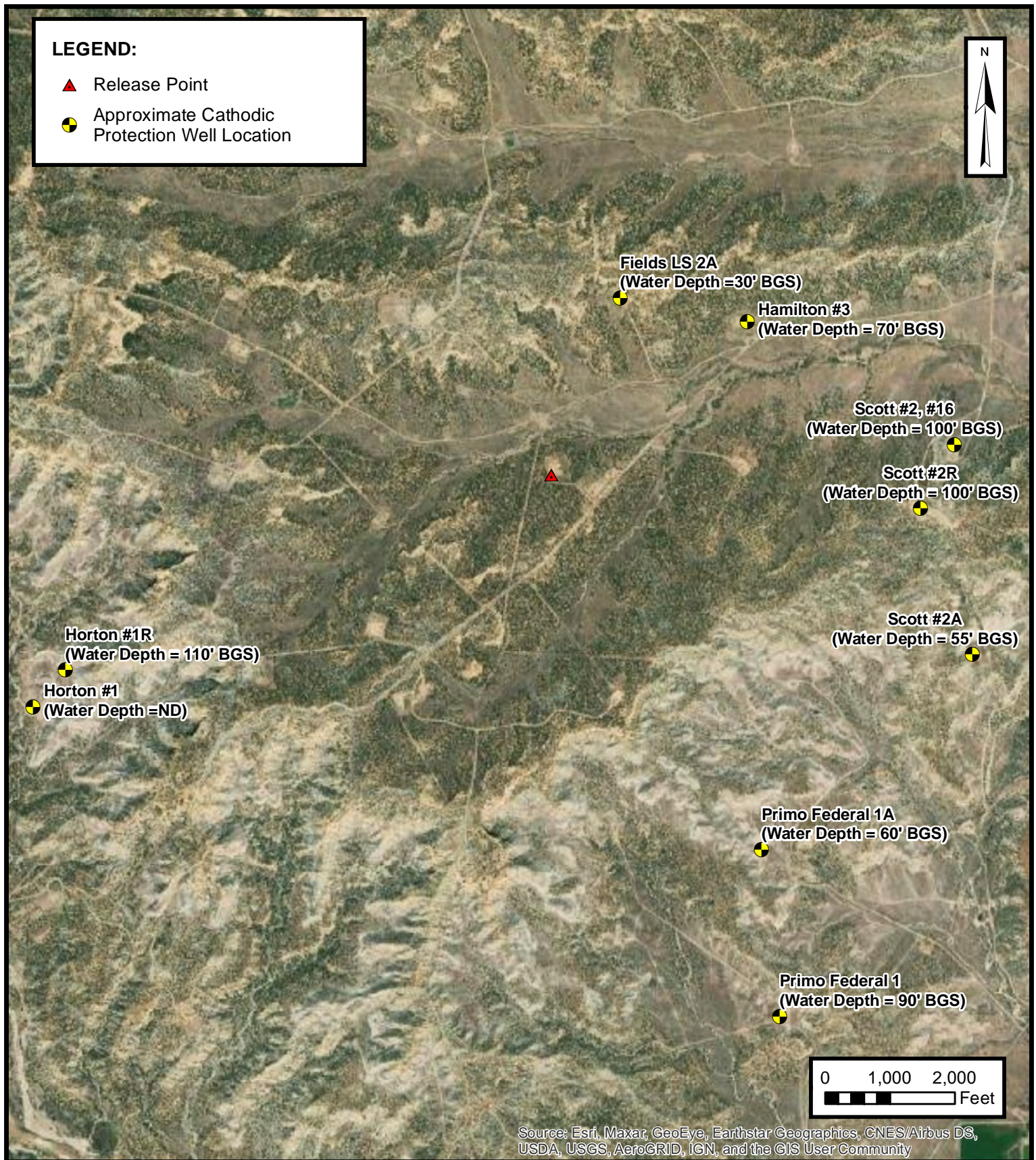
ENSOLUM
Environmental & Hydrogeologic Consultants

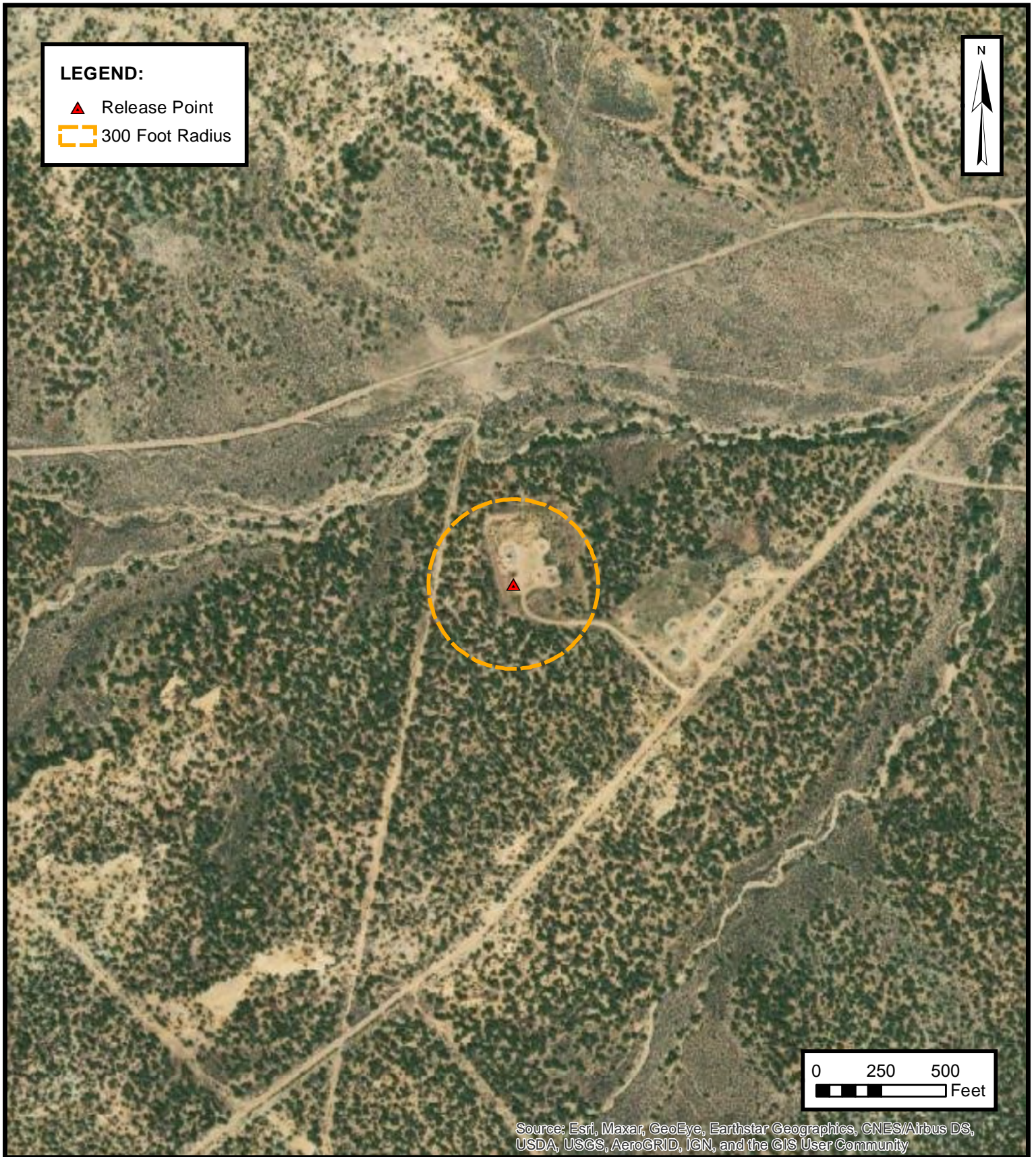
1.0 MILE RADIUS WATER WELL/ POD LOCATION MAP

ENTERPRISE FIELD SERVICES, LLC
STATE COM M#9R MV (11/11/20)
Unit Letter B, S36 T32N R11W, San Juan County, New Mexico
36.946157° N, 107.939104° W

PROJECT NUMBER: 05A1226126

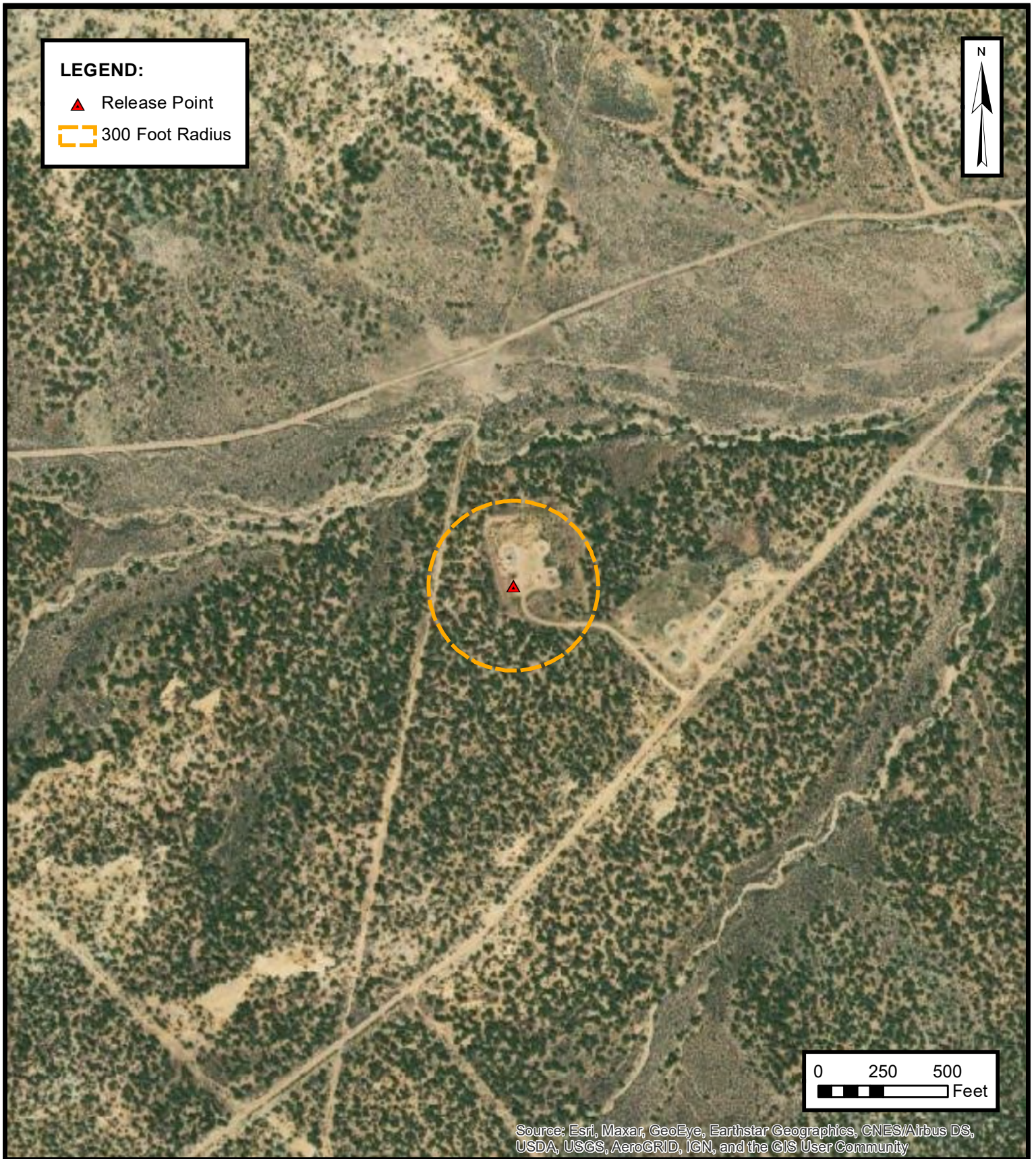
FIGURE
A





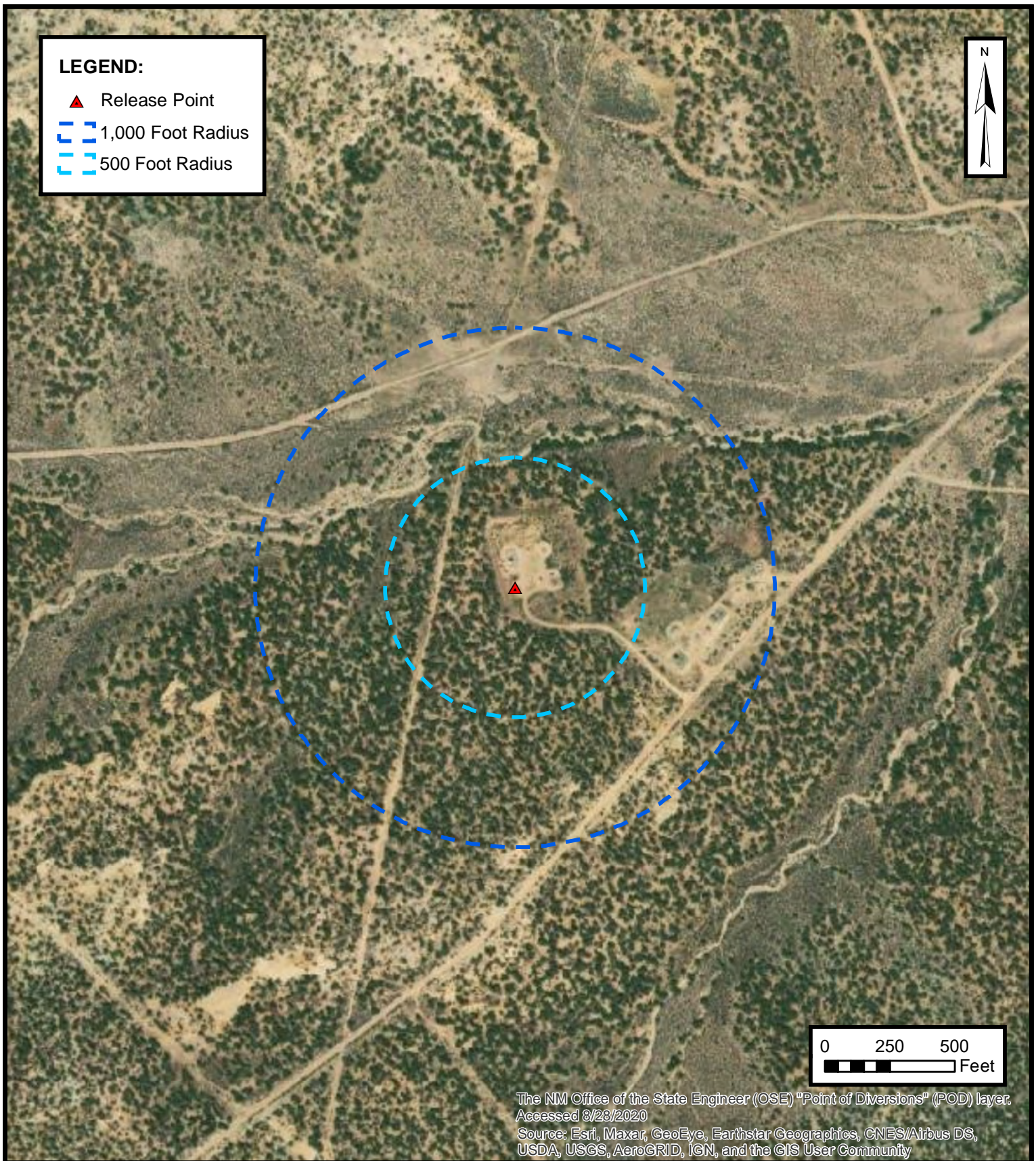
**300 FOOT RADIUS
WATERCOURSE AND DRAINAGE IDENTIFICATION**
ENTERPRISE FIELD SERVICES, LLC
STATE COM M#9R MV (11/11/20)
Unit Letter B, S36 T32N R11W, San Juan County, New Mexico
36.946157° N, 107.939104° W
PROJECT NUMBER: 05A1226126

**FIGURE
C**



**300 FOOT RADIUS
OCCUPIED STRUCTURE IDENTIFICATION**
ENTERPRISE FIELD SERVICES, LLC
STATE COM M#9R MV (11/11/20)
Unit Letter B, S36 T32N R11W, San Juan County, New Mexico
36.946157° N, 107.939104° W
PROJECT NUMBER: 05A1226126

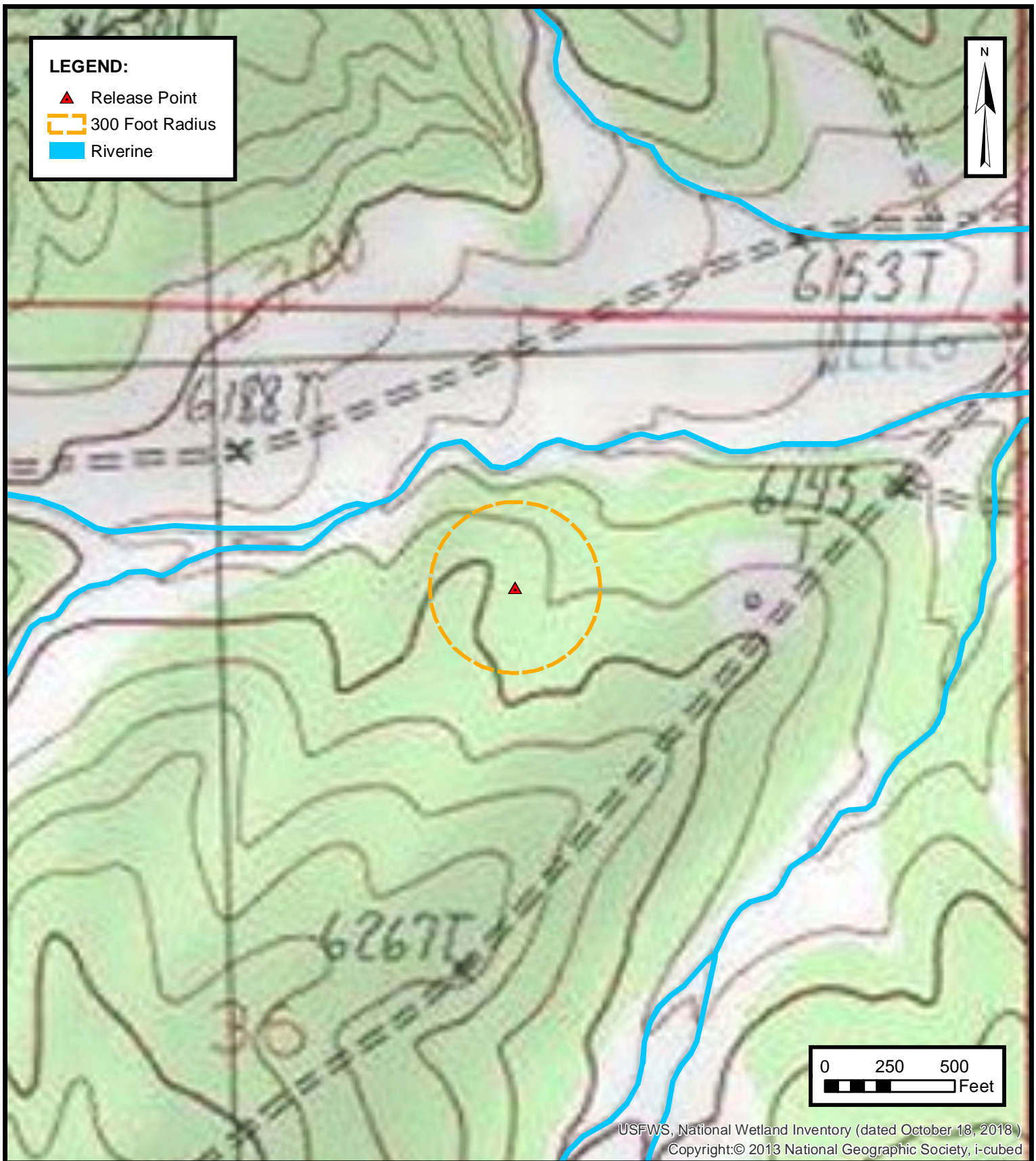
**FIGURE
D**

**WATER WELL AND NATURAL SPRING LOCATION**

ENTERPRISE FIELD SERVICES, LLC
STATE COM M#9R MV (11/11/20)
Unit Letter B, S36 T32N R11W, San Juan County, New Mexico
36.946157° N, 107.939104° W

PROJECT NUMBER: 05A1226126

FIGURE
E



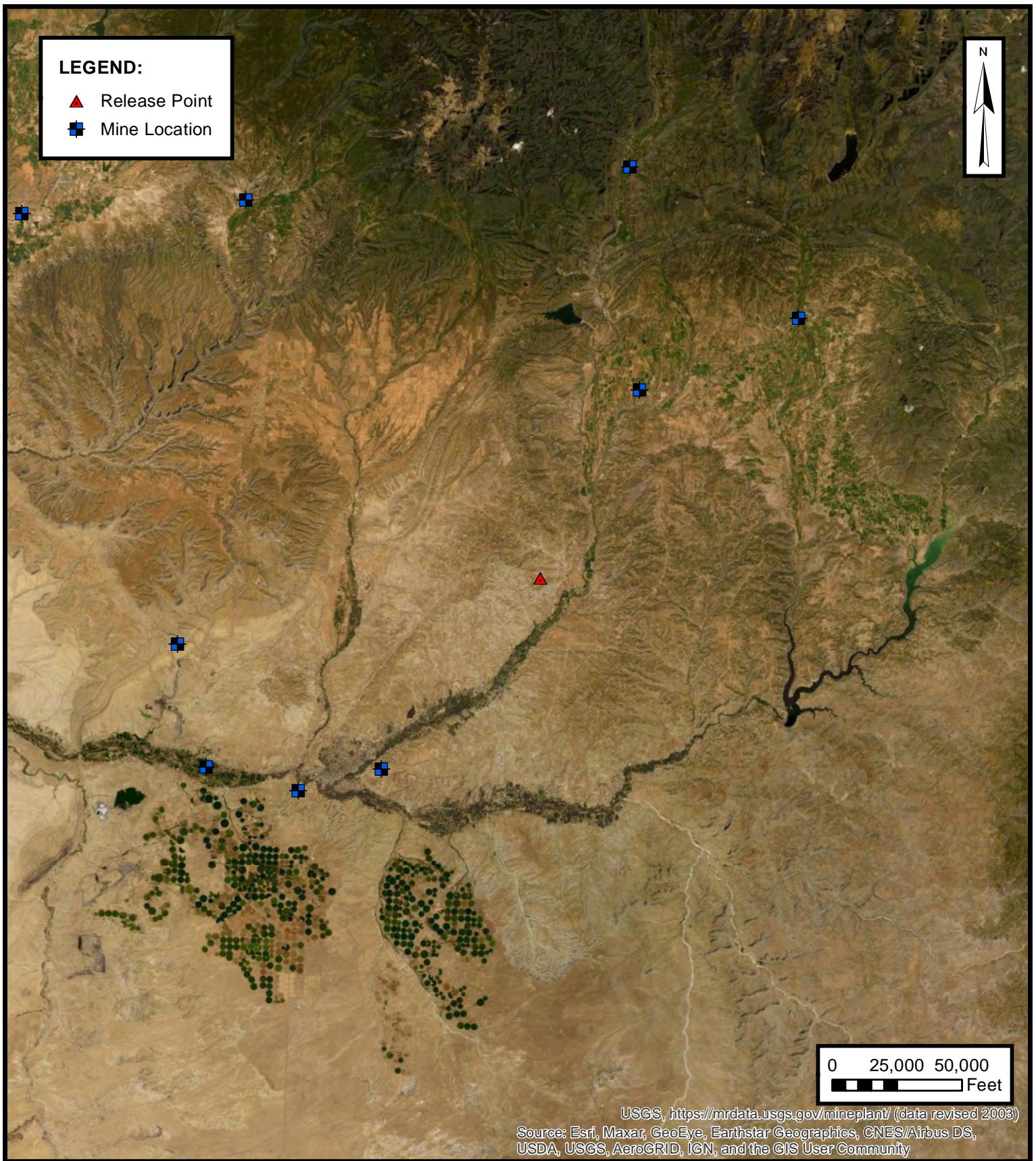
ENSOLUM
Environmental & Hydrogeologic Consultants

WETLANDS

ENTERPRISE FIELD SERVICES, LLC
STATE COM M#9R MV (11/11/20)
Unit Letter B, S36 T32N R11W, San Juan County, New Mexico
36.946157° N, 107.939104° W

PROJECT NUMBER: 05A1226126

FIGURE
F



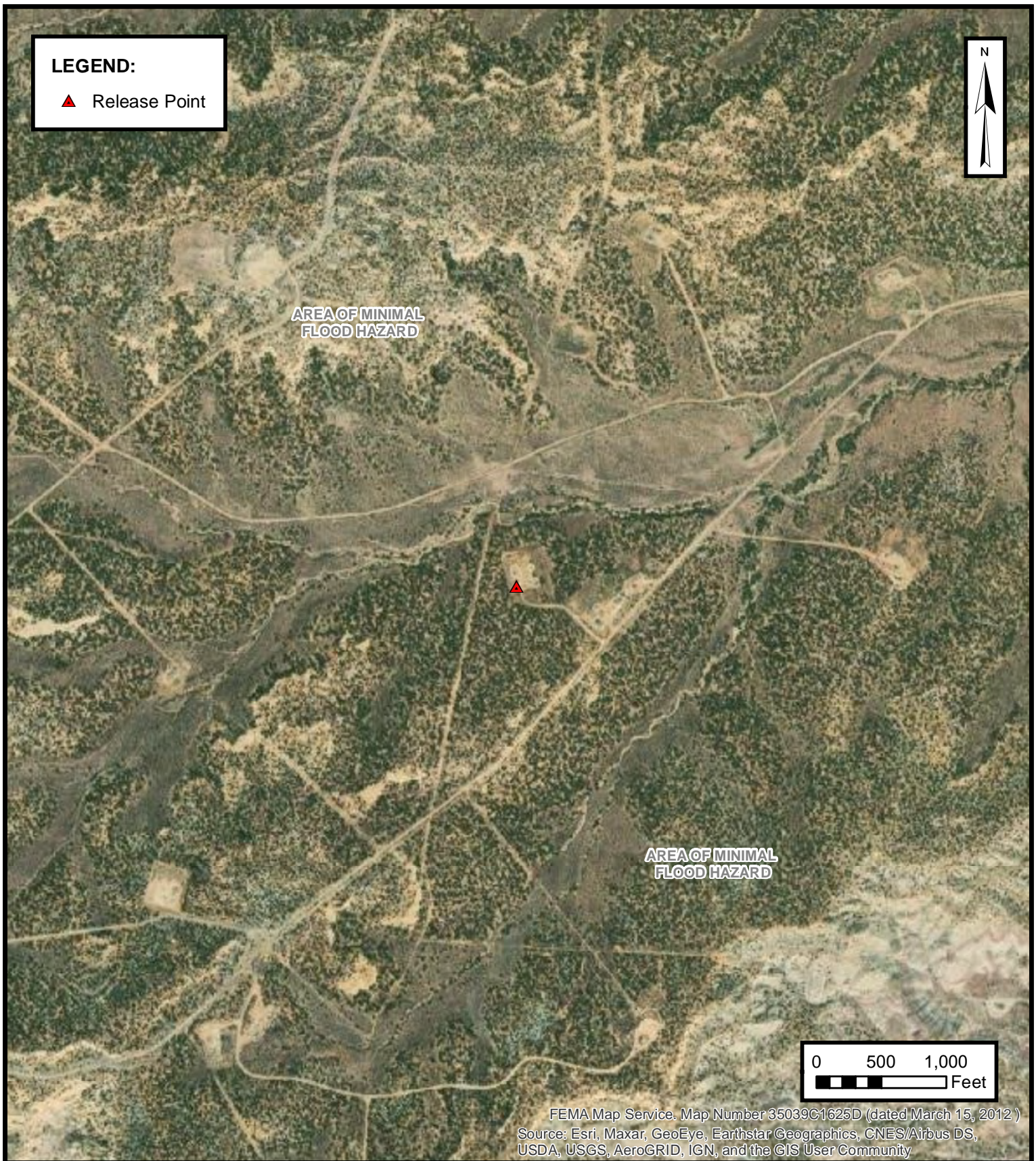
MINES, MILLS AND QUARRIES

ENTERPRISE FIELD SERVICES, LLC
STATE COM M#9R MV (11/11/20)
Unit Letter B, S36 T32N R11W, San Juan County, New Mexico
36.946157° N, 107.939104° W

PROJECT NUMBER: 05A1226126

FIGURE

G





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

No records found.

PLSS Search:

Section(s): 36, 25, 26, 35 **Township:** 32N **Range:** 11W

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/6/21 12:34 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 01356		SJAR	SJ	3	3	31		32N	10W	239013	4091829*	65	50	15

Average Depth to Water: **50 feet**

Minimum Depth: **50 feet**

Maximum Depth: **50 feet**

Record Count: 1

PLSS Search:

Section(s): 30, 31

Township: 32N

Range: 10W

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/6/21 12:35 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 01958	SJAR	SJ		2	06	31N	10W			239969	4091225*	103	83	20
SJ 01977	SJAR	SJ		3	2	06	31N	10W		239768	4091024*	93	33	60
SJ 03308	SJAR	SJ		3	4	2	06	31N	10W	240078	4090920*	100	60	40

Average Depth to Water: **58 feet**

Minimum Depth: **33 feet**

Maximum Depth: **83 feet**

Record Count: 3

PLSS Search:

Section(s): 6

Township: 31N

Range: 10W

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/6/21 12:35 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 1, 2

Township: 31N

Range: 11W

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/6/21 12:36 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

30-045-22399

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

Operator Amoco Production Co. Location: Unit Sec. 25 Twp 32N Rng 11W

Name of Well/Wells or Pipeline Serviced Fields LS 2A

Elevation Completion Date 2/10/92 Total Depth 320' Land Type

Casing, Sizes, Types & Depths NONE

RECEIVED

If Casing is cemented, show amounts & types used

JUL 22 1992

OIL CON. DIV. I

DIST. 3

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

COKE breeze/CEMENT mix (experimental) to T.D.

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

Fresh, Clear, Salty, Sulphur, Etc. 30'-50', 170'-180'

Depths gas encountered: NONE

Type & amount of coke breeze used: LORESCO SC3 COKE Breeze, mixed w/20% cement

Depths anodes placed: 125', 145', 165', 185', 195', 205', 220', 230', 240', 250', 260', 290'

Depths vent pipes placed: to 295'

Vent pipe perforations: from TD to top anode - ^{bottom of pipe} 1" ^S slot

Remarks:

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

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

DEEP WELL GROUND BED DATA Contract #29BP00131 DATE February 10, 1992
 COMPANY Amoco Production Company COUNTY San Juan STATE New Mexico
 LOCATION Fields LS 2A UNIT NUMBER
 GROUND BED: Depth 320 Ft., Dia. 6½ In., Anodes (12) 2 x 60 Silicon Iron
 CASING: Size In., Depth Ft. Center-Connected 20.6 A
 11.14 V

DEPTH FT.	DRILLER'S LOG	RESISTIVITY OHMS	AMPS	ANODE NUMBER	DEPTH TO ANODE TOP	BEFORE COKE	AFTER COKE
5	Top Soil						
10	Sandstone						
15	"						
20	Shale						
25	"						
30	Sandy Shale						
35	"						
40	"						
45	"						
50	"		0.8				
55	Gray Shale		2.2				
60	"		2.4				
65	"		2.4				
70	"		2.2				
75	"		2.2				
80	"		2.1				
85	"		2.1				
90	"		1.9				
95	Sandy Shale		1.7				
100	"		1.8				
105	"		1.9				
110	Gray Shale		2.3				
115	"		2.3				
120	"		2.2				
125	"		2.3	12		2.3	3.3
130	"		1.8				
135	"		1.7				
140	"		1.8				
145	"		2.2	11		2.2	3.3
150	"		2.2				
155	"		2.0				
160	"		2.1				
165	"		2.2	10		2.2	3.4
170	Sandy Shale		1.6				
175	"		1.4				
180	"		1.3				
185	Gray Shale		2.0	9		2.1	3.3
190	"		2.2				
195	"		2.2	8		2.2	3.6
200	"		2.4				
205	"		2.5	7		2.5	4.1
210	"		2.4				
215	"		2.3				
220	"		2.6	6		2.6	4.0
225	"		2.3				
230	"		2.4	5		2.4	3.7
235	"		2.0				
240	Gray Shale		1.9	4		2.3	3.5

M1100

LOCATION Fields LS 2A

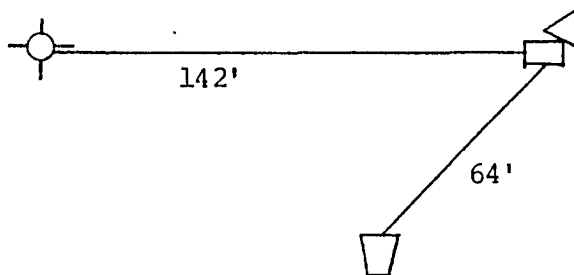
UNIT NUMBER

DEPTH FT.	DRILLER'S LOG	RESISTIVITY		ANODE NUMBER	DEPTH TO ANODE TOP	BEFORE COKE	AFTER COKE
		OHMS	AMPS				
245	Gray Shale		2.0				
250	"		1.9	3		2.1	3.2
255	"		2.2				
260	"		1.8	2		2.0	3.4
265	"		1.3				
270	"		1.0				
275	"		1.1				
280	"		1.1				
285	"		1.4				
290	"		1.8	1		2.0	2.8
295	"		2.3				
300	"		2.2				
305	"		1.8				
310	"		1.7				
315	"		1.8				
320	Gray Shale		1.8				
325							
330							
335							
340							
345							
350							
355							
360							
365							
370							
375							
380							
385							
390							
395							
400							
405							
410							
415							
420							
425							
430							
435							
440							
445							
450							
455							
460							
465							
470							
475							
480							
485							
490							
495							
500							
505							
510							

M1100

**THE LOFTIS COMPANY**P. O. BOX 7847
MIDLAND, TEXAS 79708**AS-BUILT**
(Revised)

Fields LS 2A

**LEGEND**

- Rectifier
- G.B.
- J-Box
- Well
- Conv. G.B.
- Meter Pole

Loresco SC3
 Completion: Coke Breeze/Cement Mix
 (12) 2 x 60 Anotec 2660
 Silicon Iron Center-Connected Anodes

LOCATION: Fields LS 2A
 San Juan County
 S-25, T-32N, R-11W

CLIENT: Amoco Production Company

PROJECT: Cathodic Protection System
 P. O. #29BP00131

DATE COMPLETED: 2/92**NOT TO SCALE****DATE DRILLED:** 02/10/92**DRAWN BY:** GS/MI**APPROVED BY:** MFL**DRAWING NO.:**

9

~~FILE COPY~~

M1100

30-045-11119

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

AFE # 0435

Operator Meridian Oil Location: Unit M Sec. 35 Twp 32 Rng 11Name of Well/Wells or Pipeline Serviced Horton #1CPST# 2198Elevation _____ Completion Date 9-19-91 Total Depth _____ Land Type _____

Casing Strings, Sizes, Types & Depths _____

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

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

100' Cement - 24 SacksDepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. _____

Depths gas encountered: _____

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

Depths anodes placed: _____

Depths vent pipes placed: _____

Vent pipe perforations: _____

Remarks: Plug + Abandoned Ground Bed Dave AshworthRECEIVED
FEB 24 1992
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.

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

AFE # 0435

4-10-10

Operator Meridian Oil Location: Unit M Sec. 35 Twp 32 Rng 11Name of Well/Wells or Pipeline Serviced Horton #1CPST# 2198Elevation _____ Completion Date 9-19-91 Total Depth _____ Land Type _____

Casing Strings, Sizes, Types & Depths _____

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

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

100' Cement - 24 SacksDepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. _____

Depths gas encountered: _____

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

RECEIVED

FEB 24 1992

Depths anodes placed: _____

OIL CON. DIV.
DIST. 3

Depths vent pipes placed: _____

Vent pipe perforations: _____

Remarks: Plug + Abandoned Ground Bed Dan Ashworth

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.

578

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

Operator MERIDIAN OIL INC. Location: Unit ^M~~34~~ Sec. 35 Twp 32 Rng 10

Name of Well/Wells or Pipeline Serviced HORTON #1R

30-045-27645

Elevation 6052 Completion Date 9-20-91 Total Depth 393 Land Type NM 010989

Casing Strings, Sizes, Types & Depths 100' 8" PVC SURFACE CASING

If Casing Strings are cemented, show amounts & types used 23 SACKS

CLEAN CEMENT

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

CEMENT plug @ 24 1/2 ft.

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

Salty, Sulphur, Etc. HIT H₂O @ 110' & CAUGHT SAMPLE; CLEAR

Depths gas encountered: NONE

Ground bed depth with type & amount of coke breeze used: 393' w/60

SACKS LORESCO

Depths anodes placed: 373', 355', 335', 300', 225', 215', 195', 170', 160', 145', 132', 122'

Depths vent pipes placed: 370'

Vent pipe perforations: BOTTOM 300'

Remarks: _____

RECEIVED
FEB 24 1992
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.

Log 388
60 sicks

CPS GROUND BED CONSTRUCTION WORKSHEET

CPS# 2198	P/L NAME(s), NUMBER(s) Horton #1R					
WO # L 966	TOTAL	VOLTS 9.95	AMPS 25.3	- OHMS .39	DATE 9-20-91	NAME W.R. MCGATH
REMARKS (notes for construction log)						
100' 8" PVC surface casing; 23 sack H ₂ O @ 110' & caught sample. 370' 1" PVC vent pipe perf. bottom 300'. 60 sacks Lorenzo Coke.						

DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	
	ANODE	#		ANODE	#		ANODE	#		ANODE	#	
100	1.7		295	1.8		490			685			
105	1.8		300	1.8	✓	495			690			
110	1.8		305	1.6		500			695			
115	1.9		310	1.5		505			700			
120	1.9		315	1.6		510			ANODE	DEPTH	NO	FULL
125	2.2	12	320	1.6		515			#		COKE	COKE
130	2.2		325	1.7		520			1	373	1.8	5.5
135	1.9	11 ✓	330	1.9		525			2	355	1.9	5.9
140	1.9		335	2.3	3 ✓	530			3	335	2.3	6.4
145	2.4	10 ✓	340	1.4		535			4	300	1.8	5.5
150	2.2		345	1.6		540			5	225	1.8	5.5
155	2.2		350	1.7		545			6	215	2.1	6.5
160	2.3	9 ✓	355	1.9	2 ✓	550			7	195	2.1	6.6
165	1.7		360	1.8		555			8	170	2.5	7.5
170	2.2	8 ✓	365	1.7		560			9	160	2.7	7.2
175	2.1	8	370	1.7	1 ✓	565			10	145	2.5	6.8
180	1.6		375	1.9		570			11	132	2.0	6.1
185	1.7		380	1.7		575			12	122	2.2	6.1
190	1.8		385	1.8		580			13			
195	1.9	7 ✓	390		393	585			14			
200	1.9		395			590			15			
205	1.8		400			595			16			
210	1.9	6 ✓	405			600			17			
215	2.0	6 ✓	410			605			18			
220	2.0	6	415			610			19			
225	1.9	5 ✓	420			615			20			
230	1.5		425			620			21			
235	1.5		430			625			22			
240	1.6		435			630			23			
245	1.4		440			635			24			
250	1.5		445			640			25			
255	1.6		450			645			26			
260	1.5		455			650			27			
265	1.6		460			655			28			
270	1.5		465			660			29			
275	1.4		470			665			30			
280	1.3		475			670						
285	1.3		480			675						
290	1.7	9	485			680						

DISTRIBUTION - original - permanent CPS FILE.

copy

- Division Corrosion Supervisor

copy

- Region Corrosion Specialist

API WATER ANALYSIS REPORT FORM

Laboratory No. 25810930-1 I 2198W

Company <u>MERIDIAN OIL</u>		Sample No.		Date Sampled <u>9/20/91</u>	
Field		Legal Description <u>M-35-32-11</u>		County or Parish <u>SAN JUAN</u>	
Lease or Unit		Well <u>HORTON 1R</u>		State <u>N.M.</u>	
Type of Water (Produced, Supply, etc.)		Depth <u>110'</u>		Formation <u>F.C.</u>	
Sampling Point <u>C.P. GROUND BED</u>		Water, B/D		Sampled By <u>W.R. McGAHA</u>	

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na (calc.)	<u>4900</u>	<u>210</u>
Calcium, Ca	<u>400</u>	<u>20</u>
Magnesium, Mg	<u>13</u>	<u>1.1</u>
Barium, Ba		

OTHER PROPERTIES

pH	<u>8.0</u>
Specific Gravity, 60/60 F.	<u>1.0079</u>
Resistivity (ohm-meters) <u>70</u> ° F.	<u>0.56</u>

Total Dissolved Solids (calc.)

14,000

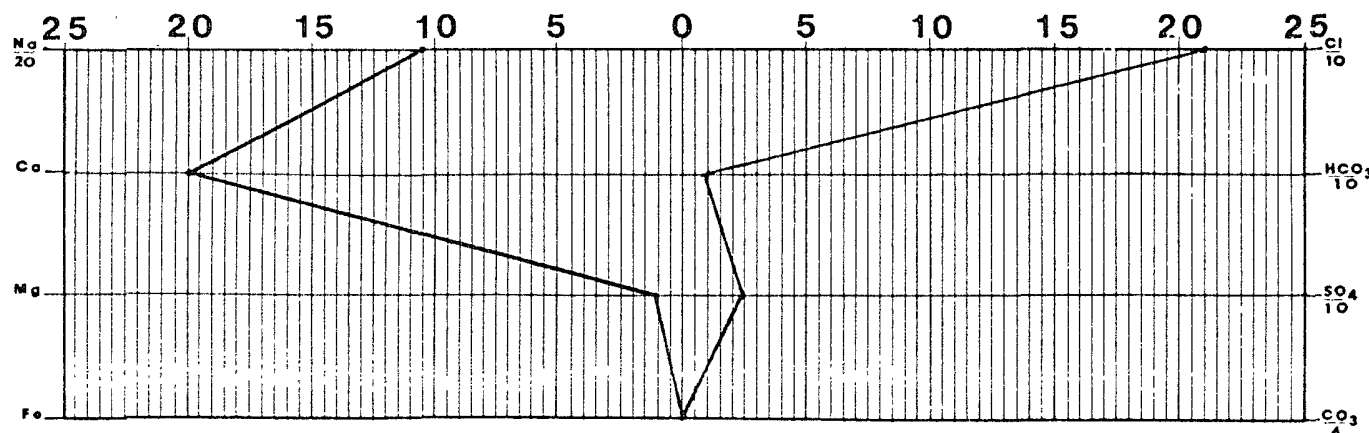
ANIONS

Chloride, Cl	<u>7400</u>	<u>210</u>
Sulfate, SO_4	<u>1100</u>	<u>24</u>
Carbonate, CO_3	<u>0</u>	<u>0</u>
Bicarbonate, HCO_3	<u>55</u>	<u>0.9</u>

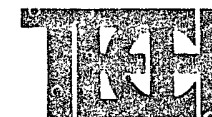
Iron, Fe (total)

Sulfide, as H_2S

REMARKS & RECOMMENDATIONS:



Date Received <u>9/30/91</u>	Preserved <u>No</u>	Date Analyzed <u>9/30-10/1/91</u>	Analyzed By <u>[Signature]</u>
---------------------------------	------------------------	--------------------------------------	-----------------------------------



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

#2 = 30-045-21994

#16 = 30-045-22073

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

Operator MERIDIAN OIL Location: Unit NE Sec. 31 Twp 32 Rng 10Name of Well/Wells or Pipeline Serviced SCOTT #2, #16cps 519wElevation 6081' Completion Date 6/3/76 Total Depth 180' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/ADepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 100' SAMPLE TAKENDepths gas encountered: N/AType & amount of coke breeze used: 27 SACKSDepths anodes placed: 170', 160', 150', 140', 130'Depths vent pipes placed: N/AVent pipe perforations: 100'Remarks: gb #2

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.

El Paso Natural Gas Company

Form 7-23 (Rev. 1-69)

WELL CASING

CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOGDrilling Log (Attach Hereto). ☐Completion Date **6-3-78**

Well Name Scott #2 #16		Location NE 31-32-10		CPS No. 519W	
Type & Size Bit Used 6 3/4				Work Order No. 184-52059	
Anode Hole Depth 180-177	Total Drilling Rig Time	Total Lbs. Coke Used 27 Sacks	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 170	# 2 160	# 3 150	# 4 140	# 5 130	# 6
# 7	# 8	# 9	# 10		
Anode Output (Amps)					
# 1 2.3	# 2 2.4	# 3 3.2	# 4 4.2	# 5 3.7	# 6
# 7	# 8	# 9	# 10		
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 12.0	Amps 8.9	Ohms 1.34			

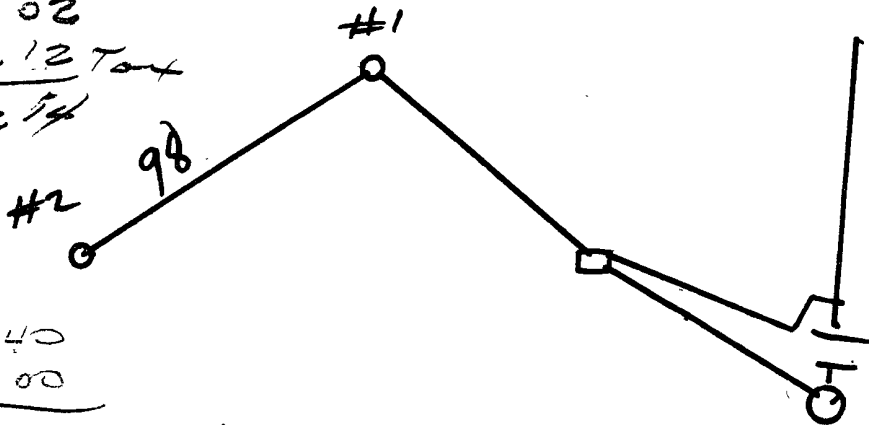
Remarks:

Driller Said Wet at 90 - Water at 100.
 Start Water injection at 100 - Drilled to 180.
 Water Next AM at 140 - Driller said water
 coming from 100'.
 Vent Perforated 100'.
 Slurry 27 Sacks Coke

All Construction Completed

DHS - W.F.L.
(Signature)

GROUND BED LAYOUT SKETCH



2248.50
 23.52 cable
 2272.02
 - 519.00 credit
 1753.02
 = 70.12 Tax
 1823.14

 213.40
 162.00
 2198.54 Total

DAILY DRILLING REPORT

LEASE Scott WELL NO. #2 CONTRACTOR Morrow RIG NO. REPORT NO. DATE 6/3 19 20
MORNING DAYLIGHT EVENING

Driller					Total Men In Crew					Driller					Total Men In Crew					Driller					Total Men In Crew				
FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.
0	60	Sand			145	177	Sand																						
60	80	Wet Sand																											
Inject at 80	145	Shale																											

BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.
SERIAL NO.		STANDS			SERIAL NO.		STANDS			SERIAL NO.		STANDS			SERIAL NO.		STANDS		
SIZE		SINGLES			SIZE		SINGLES			SIZE		SINGLES			SIZE		SINGLES		
TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY		
MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH		

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED		
Time	Wt.	Vis.				Time	Wt.	Vis.				Time	Wt.	Vis.			

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN

REMARKS -	REMARKS -	REMARKS -

SIGNED: Toolpusher _____ Company Supervisor _____

Scott 2 Loading Log
579W - 6-3-76

MW		gals/mol
16	C ₁	6.4
30	C ₂	10.12
44	C ₃	10.42
58	IC ₄	12.38
"	NC ₄	11.93
72	IC ₅	13.85
"	NC ₅	13.71
86	IC ₆	15.50
"	C ₆	15.57
100	IC ₇	17.2
"	C ₇	17.46
114	C ₈	19.39
28	C ₂	9.64
42	C ₃	9.67

MSC		
MW		gals/mol
44	CO ₂	6.38
34	H ₂ S	5.17
28	N ₂	4.16
2	H ₂	1.18

Driller Said Water 90
water at 100 - Start in
Drilled To 180'
Water NEXT AM at 140

Vent Perf. 100'

Harry 27 Sox 60 ke

at	Coke
----	------

1	170	1.8	2.3
2	160	1.4	2.4
3	150	2.0	3.2
4	140	2.6	4.3
5	130	2.5	3.7

$$\begin{array}{r} 1.34 \\ 89 \overline{) 12.0} \text{ V} \quad 8.9 \text{ A} = 1.34 \text{ m} \\ \underline{89} \\ 310 \\ \underline{269} \\ 430 \end{array}$$

El Paso Natural Gas Company
San Juan Division
Farmington, New Mexico
Production Department Water Analysis

Analysis No. 1-9185 Date 6-7-78

Operator EPNG Well Name Scott #16 Scott 2

Location NE31-32-10 County San Juan State NM

Field _____ Formation _____

Sampled From 35 BBLs per Day 519-0

Date Sampled _____ by _____

Tubing Pressure _____ Casing Pressure _____ Surface casing pressure _____

	ppm	epm		ppm	epm
Sodium	<u>5810</u>	<u>253</u>	Chloride	<u>1420</u>	<u>40</u>
Calcium	<u>40</u>	<u>2</u>	Bicarbonate	<u>13176</u>	<u>216</u>
Magnesium	<u>15</u>	<u>1</u>	Sulfate	<u>5</u>	<u>0.1</u>
Iron	<u>Present</u>		Carbonate	<u>0</u>	<u>0</u>
H ₂ S	<u>Absent</u>		Hydroxide	<u>0</u>	<u>0</u>

Total Dissolved Solids 13990

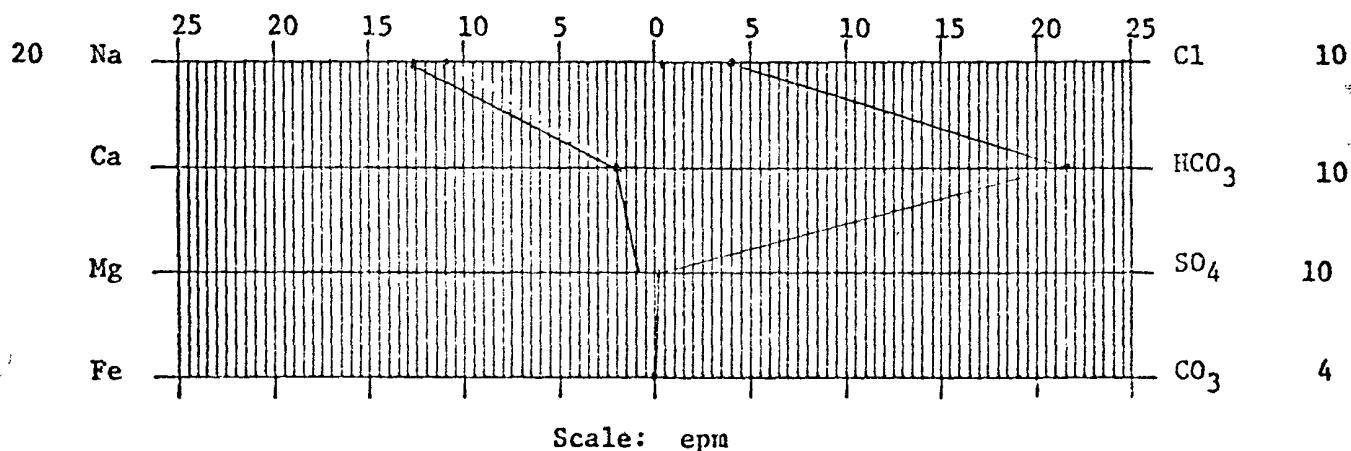
ph 7.7

cc: D. C. Adams W. B. Shropshire
A. M. Smith
R. A. Ullrich
W. D. Dawson
E. R. Paulek
J. W. McCarthy
File

Sp. Gr. 1.0158 at 60°F

Resistivity 55 ohm-cm at 72 °F

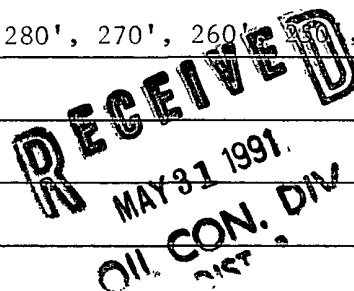
Cheryl Terwilliger RZE
Chemist



30-045-21994

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)Operator MERIDIAN OIL Location: Unit SE Sec. 31 Twp 32 Rng 10Name of Well/Wells or Pipeline Serviced SCOTT #2A

cps 1188w

Elevation 5998' Completion Date 5/17/77 Total Depth 400' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/ADepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. WET AT 55', 85', 115', 160', 185'Depths gas encountered: N/AType & amount of coke breeze used: 48 SACKSDepths anodes placed: 360', 350', 300', 290', 280', 270', 260', 250', 240', 230'Depths vent pipes placed: N/AVent pipe perforations: 180'Remarks: gb #1

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.

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOGDrilling Log (Attach Hereto). ☐Completion Date 5-17-77

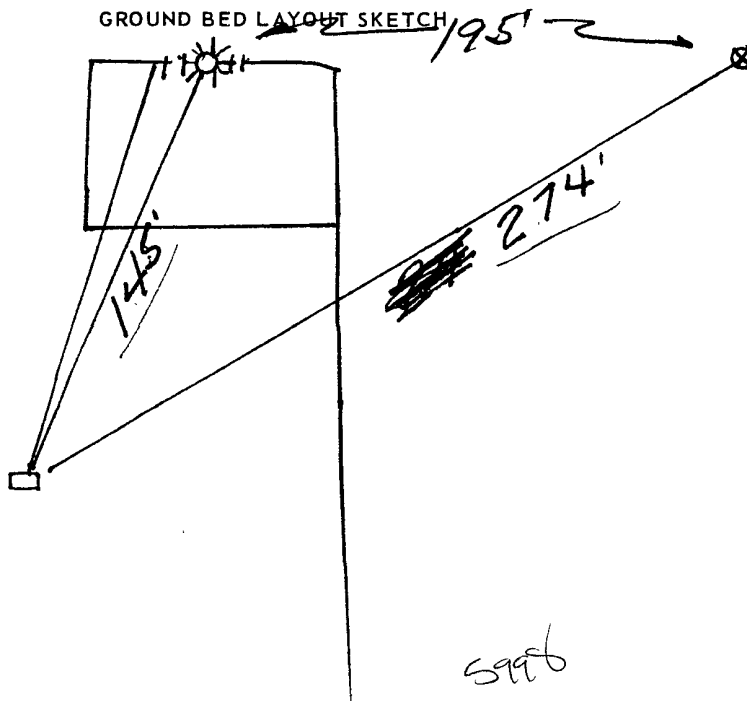
Well Name SCOTT # 2A		Location SE 31-32-10		CPS No. 1188W	
Type & Size Bit Used 6 3/4				Work Order No. 184-57076.19-50	
Anode Hole Depth 400 X 392	Total Drilling Rig Time —	Total Lbs. Coke Used 4800	Lost Circulation Mat'l Used 0	No. Sacks Mud Used 0	
Anode Depth					
# 1 360	# 2 350	# 3 300	# 4 290	# 5 280	# 6 270
# 7 260	# 8 250	# 9 240	# 10 230		
Anode Output (Amps)					
# 1 4.1	# 2 3.7	# 3 4.7	# 4 4.0	# 5 4.6	# 6 5.2
# 7 5.1	# 8 4.6	# 9 4.5	# 10 4.5		
Anode Depth					
# 11	# 12	# 13	# 14	# 15	# 16
# 17	# 18	# 19	# 20		
Anode Output (Amps)					
# 11	# 12	# 13	# 14	# 15	# 16
# 17	# 18	# 19	# 20		
Total Circuit Resistance					
Volts 11.9	Amps 18.1	Ohms 0.65	No. 8 C.P. Cable Used 564 SURFACE		No. 2 C.P. Cable Used

Remarks: DRILL TO 400' WITH AIR-WATER NEXTAM AT
115' - T.D. 392
VENT PERFORATED 180' -
SLURRY 48 COKE

All Construction Completed

Sanchez
 (Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

5996

DAILY DRILLING REPORT

LEASE WELL NO. C.P.S. 1188W CONTRACTOR Rosey RIG NO. REPORT NO. DATE 5-16- 1977

MORNING DAYLIGHT EVENING

MORNING					DAYLIGHT					EVENING				
Driller		Total Men In Crew			Driller		Total Men In Crew			Driller		Total Men In Crew		
FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.
SER	NO.	STANDS			SERIAL NO.	STANDS			SERIAL NO.	STANDS				
SIZE		SINGLES			SIZE		SINGLES			SIZE		SINGLES		
TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY		
MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH		

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED		
Time	Wt.	Vis.				Time	Wt.	Vis.				Time	Wt.	Vis.			

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
			0	20	Surface	200	230	Shale
			20	50	Shale	230	235	Sand
			50	55	Sand wet	235	250	Shale
			55	75	Shale	250	260	Sand
			75	85	Sand wet	260	320	Shale
			85	105	Shale	320	330	Sand
REMARKS -			REMARKS -			REMARKS -		
			105-115 Sand wet			330-400 Sandy shale		
			115-140 Shale					
			140-160 Sand wet					
			160-165 Shale					
			165-185 Sand wet					
			185-200 Shale					

SIGNED: Toolpusher

Company Supervisor

Scott # 2A

360
2.5

MW	gas/mol
16	C
32	O ₂
44	CO ₂
18	H ₂ O
14	N ₂
17	HCN
28	CO
44	CH ₄
100	CO ₂
114	C ₂ H ₆
126	C ₃ H ₈
154	C ₄ H ₁₀
170	C ₅ H ₁₂

MW	gas/mol
44	CO ₂
32	O ₂
28	N ₂
18	H ₂ O

1.15		295	2.5	SE 31-32-10
20	2.7	300	2.5	11880 - 57076.19
	2.5		2.2	
30	2.4	10	2.0	Drill 400'
	2.2		2.0	Water Next A Mat 1.15
40	2.1	20	2.1	
	1.9		2.1	
50	1.9	30	2.1	Vent Perf. 180'
	2.2		2.0	
60	2.2	40	2.0	48 Coke
	2.3		2.3	
70	2.2	50	2.1	
	2.1		2.2	
80	2.2	60	2.3	
	2.1		2.4	
90	2.0	70	2.3	1 360 3.4 4.1
	2.0		2.4	2 350 3.0 3.7
200	2.2	80	2.8	3 300 3.6 4.7
	2.2		2.7	4 290 3.4 4.0
10	2.4	90	392 T.D	5 280 3.8 4.6
	2.7			6 270 4.5 5.2
20	2.9	400		7 260 4.4 5.1
	2.8			8 250 3.6 4.6
30	2.6			9 240 3.7 4.5
	2.8			10 230 3.7 4.5
40	2.6			
	2.7			
50	2.7			181 11.90 181A = 0.65
	3.3			10 86
60	2.7			1040
	2.8			1040
70	2.9			
	2.8			
80	2.6			
	2.4			
90	2.3			

#2R

3942

30-05-26407

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 G Sec. 31 Twp 32 Rng 10Name of Well/Wells or Pipeline Serviced SCOT #2R

cps 190lw

Elevation 6155' Completion Date 8/11/87 Total Depth 420' Land Type* N/ACasing, Sizes, Types & Depths N/AIf 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. 100' SAMPLE TAKENDepths gas encountered: N/AType & amount of coke breeze used: N/ADepths anodes placed: 380', 370', 360', 320', 310', 290', 280', 255', 245', 235'Depths vent pipes placed: 410'Vent pipe perforations: 340'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.

meter

95-431

8-12-87

Completion

Date

8/11/87 Page 48 of 109

CPS #

Well Name, Line or Plant:

Work Order #

Static:

Ins. Union Check

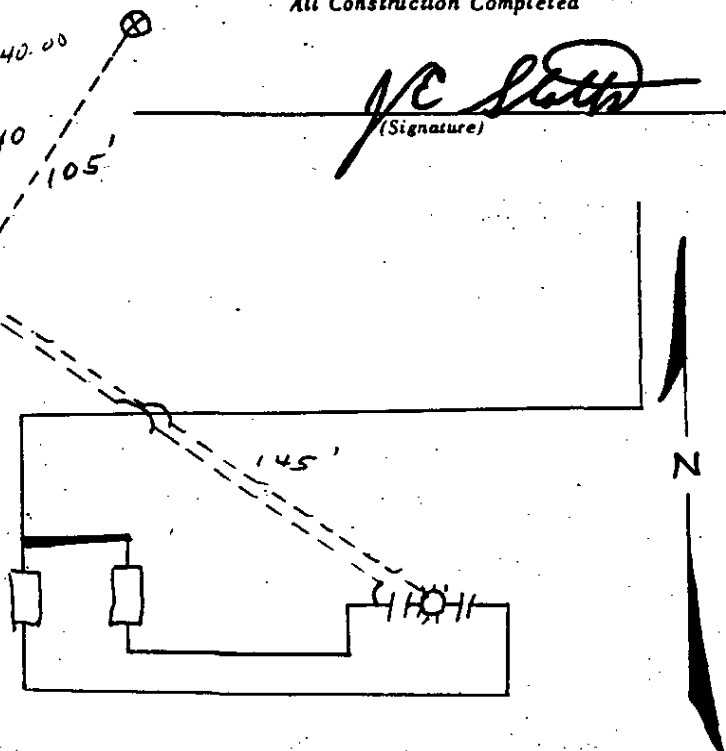
1901 W		SCOTT 2R		.78V		N		<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad	
Location: 9 G		Anode Size: 2" X 60"		Anode Type: DURATION		Size Set: 6 3/4"			
Depth Drilled: 420		Depth Logged: 410		Drilling Rig Time		Total Lbs. Cath Used		Loss Circulation Mat'l Used	
No. Sacks Mud Used									
Anode Depth									
# 1	380	# 2	370	# 3	360	# 4	320	# 5	310
# 6	290	# 7	280	# 8	255	# 9	245	# 10	235
Anode Output (Amps)									
# 1	4.7	# 2	4.4	# 3	3.5	# 4	3.8	# 5	3.8
# 6	3.8	# 7	3.5	# 8	4.1	# 9	4.3	# 10	4.4
Anode Depth									
# 11		# 12		# 13		# 14		# 15	
# 16		# 17		# 18		# 19		# 20	
Anode Output (Amps)									
# 11		# 12		# 13		# 14		# 15	
# 16		# 17		# 18		# 19		# 20	
Total Circuit Resistance									
Volts	11.4	Amps	15.4	Ohms	.74	No. 8 C.P. Cable Used		No. 2 C.P. Cable Used	

Remarks: WATER AT 100' (Took WATER sample)
 JUSTALLED 410' of 1" P.V.C. vent pipe Perforated 340'.

G.B. \$4300.00 ✓
 Rectifier Size: 60 V 28A P.P.
 Addn'l Depth: —
 Depth Credit: -90' ✓
 Extra Cable: 30' ✓
 Ditch & 1 Cable: 105' ✓
 Ditch & 2 Cable: 145' ✓
 25' Meter Pole: —
 20' Meter Pole: 1 ✓
 10' Stub Pole: —
 Junction Box: 1 ✓
 — 360.00 ✓
 7.50 ✓
 40.95 ✓
 75.42 ✓
 295.00 ✓
 40.00 ✓
 4298.875
 TAX 219.94
 TOTAL \$4618.81 79

All Construction Completed

(Signature)



WESS

MERIDIAN OIL

P. O. BOX 4289-Phone 327-0251
FARMINGTON, NMDate 8/11/87

DEEP WELL GROUND BED LOG

Company Meridian OilWell No. SCOT 2R Location NE 31-32-10Volts Applied 11.4 Amperes 15.4

5		230	1.3		455		680
10		235	2.0 - (10)		460		685
15		240	2.2		465		690
20		245	2.4 - (9)		470		695
25		250	2.3		475		700
30		255	2.2 - (8)		480		705
35		260	1.9		485		710
40		265	1.7		490		715
45		270	1.7		495		720
50		275	1.8		500		725
55		280	2.1 - (7)		505		730
60		285	2.0		510		735
65		290	2.1 - (6)		515		740
70		295	1.9		520		745
75		300	1.8		525		750
80		305	1.8		530		755
85		310	2.0 - (5)		535		760
90		315	1.9		540		765
95		320	2.1 - (4)		545		770
100	.4 WATER	325	1.9		550		775
105	.4	330	1.6		555		780
110	.1	335	1.5		560		785
115	.1	340	1.4		565		790
120	.1	345	1.4		570		795
125	.1	350	1.4		575		800
130	.1	355	1.6		580		805
135	.1	360	2.1 - (3)		585		810
140	.1	365	2.1 -		590		815
145	.1	370	2.1 - (2)		595		820
150	.1	375	2.6 -		600		825
155	.1	380	2.3 - (1)		605		830
160	.1	385	2.4		610		835
165	.5	390	2.4		615		840
170	.5	395	2.2		620		845
175	1.0	400	2.0		625		850
180	1.0	405	1.7		630		855
185	1.4	410	TD		635		860
190	1.4	415			640		865
195	1.4	420	Drilled To		645		870
200	1.6	425			650		875
205	1.3	430			655		880
210	1.2	435			660		885
215	1.1	440			665		890
220	.8	445			670		895
225		450			675		900



API WATER ANALYSIS REPORT FORM

QAS 1901 (C)
G 31-32-10

Company MERIDIAN OIL COMPANY		Sample No. 4		Date Sampled 8-11-87	
Field KV12	Legal Description		County or Parish San Juan	State NM	
Lease or Unit	Well Scot	Depth 100'	Formation Z R	Water, B/D	
Type of Water (Produced, Supply, etc.)			Sampling Point 100'	Sampled By J. J. ?	

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na (calc.)	952	41.4
Calcium, Ca	435	21.7
Magnesium, Mg	126	10.4
Barium, Ba		

OTHER PROPERTIES

pH
Specific Gravity, 60/60 F. 71.5° F.
Resistivity (ohm-meters) 7.39

Conductivity
5.15 x 10³ μmho

Total Dissolved Solids (calc.)

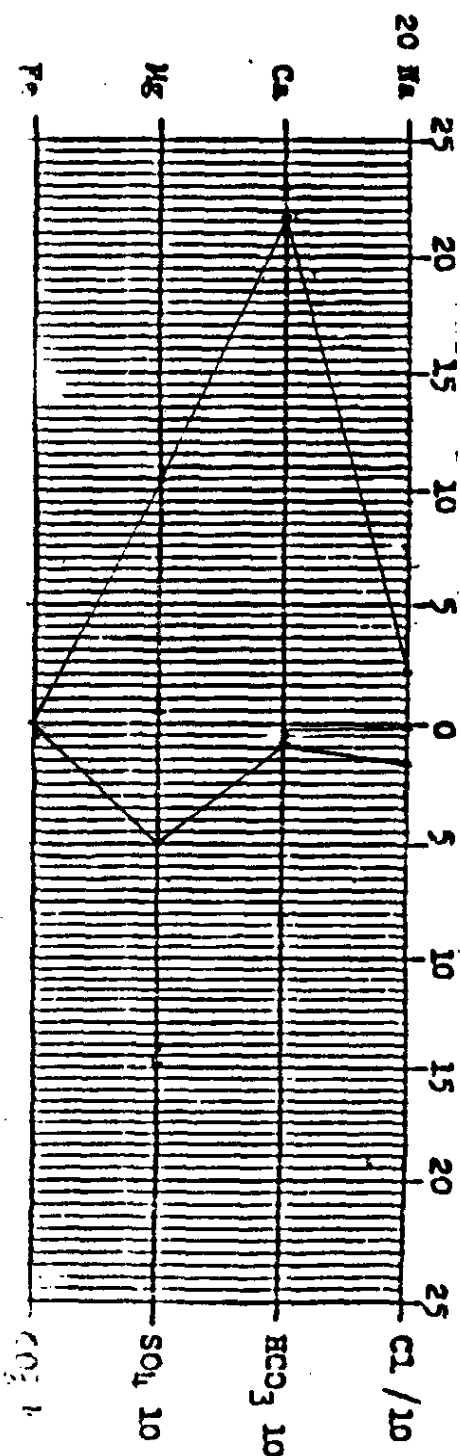
ANIONS

	mg/l	me/l
Chloride, Cl	560	16.3
Sulfate, SO ₄	2340	48.7
Carbonate, CO ₃	0	0
Bicarbonate, HCO ₃	515	8.5
Hydroxide, OH	0	

Iron, Fe (total)
Sulfide, as H₂S

5000
0

REMARKS & RECOMMENDATIONS:



30-045-26910

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

Operator Mesa Operating Location: Unit M Sec. 30 Twp 32 Rng 10Name of Well/Wells or Pipeline Serviced HAMILTON #3Elevation _____ Completion Date _____ Total Depth 300 Land Type* _____

Casing, Sizes, Types & Depths _____

If Casing is cemented, show amounts & types used _____

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

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. _____

Depths gas encountered: _____

Type & amount of coke breeze used: _____

Depths anodes placed: _____

Depths vent pipes placed: _____

Vent pipe perforations: _____

Remarks: See Attached

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.

DRILLING LOG

Hamilton 3
Unit M Sec 30, T 32N, R 10W

(NOTE WHERE WATER IS LOCATED)

Cedar Hill Fruitland Basal Coal Gas

RECEIVED

MAR 15 1990

Amarillo Production

Received
Production Administration

MAR 19 1990

SOIL

10	SAND
20	"
30	"
40	"
50	"
60	SANDY LOAM
70	WATER SAND
80	SANDSTONE
90	"
100	"
110	"
120	SANDY LOAM
130	"
140	SHALE
150	"
160	"
170	"
180	"
190	"
200	SANDSTONE
210	"
220	SHALE
230	SHALE
240	SHALE
250	"
260	"
270	"
280	"
290	"
300	CLAY
310	
320	
330	
340	
350	
360	
370	
380	
390	
400	
410	
420	
430	
440	
450	
460	
470	
480	
490	
500	
510	
520	

CASING

- water

TD

LOCATION

Hamilton #3

DATE

A Node Placement

10	130	250	370	490
15	135	255	375	495
20	140	260	380	500
25	145	265	385	505
30	150	270	390	510
35	155	275	395	
40	160	280	400	Total Amps 18.2
45	165	285	405	Total Volts 12.2
50	170	290	410	Total Res. .67
55	175	295	415	- Coked Readings
60	180	300	420	#1 = 2.4
65	185	305	425	#2 = 2.1
70	190	310	430	#3 = 2.3
75	195	315	435	#4 = 2.6
80	200	320	440	#5 = 2.6
85	205	325	445	#6 = 3.9
90	210	330	450	#7 = 3.4
95	215	335	455	#8 = 3.8
100	220	340	460	#9 = 3.2
105	225	345	465	#10 = 3.6
110	230	350	470	
115	235	355	475	
120	240	360	480	
125	245	365	485	

30-045-11019

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

Operator Mesa Operating Ltd. Partnership Location: Unit K Sec. 6 Twp 31N Rng 10W

Name of Well/Wells or Pipeline Serviced Primo Federal 1 (MV)

Elevation _____ Completion Date _____ Total Depth 210' Land Type* F

Casing, Sizes, Types & Depths No Record

If Casing is cemented, show amounts & types used No Record

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

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 90' No record of type of water and thickness
of water zone

Depths gas encountered: _____

Type & amount of coke breeze used: 1400#

Depths anodes placed: 195' - 185' - 175' - 145' - 135' - 125' - 115' - 105'

Depths vent pipes placed: No Record

Vent pipe perforations: No Record

Remarks: Anodes used were D-51

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.

OPERATOR: <i>Mesa Petroleum Corp</i>	
FIELD:	LEASE: <i>Primo Federal</i> WELL NO. <i>41</i>
FINAL CHECK Polarity	RECTIFIER DATA: Model <i>T.E. 6</i> , Ser. No. <i>146-25-47F</i> Setting: <i>6.2</i> Volts <i>11.8</i> Amps
Date <i>11/5/74</i>	

Ground Bed

50'

T.E. Unit.

70'

W/H



POTENTIALS AT INSULATING FLANGE				GROUNDBED DESCRIPTION			
Rectifier	On	Off	No. & Type of Anodes	<i>8-D-51</i>			
Well Head			Horizontal	Vertical <i>✓</i>			
			Backfill	<i>1400# Coke Breeze</i>			
Depth, Moisture		<i>90'</i>		Holes	<i>1</i>		Total Hole Depth
Log Anode	Dept.	Log Anode	Dept.	Anode Placement		Anode Placement	
<i>1.0</i>	<i>90</i>	<i>2.1</i>	<i>190</i>	<i>1</i>	<i>195</i>	<i>11</i>	<i>11</i>
<i>1.4</i>	<i>95</i>	<i>2.1</i>	<i>195</i>	<i>2</i>	<i>185</i>	<i>12</i>	<i>12</i>
<i>1.8</i>	<i>100</i>	<i>2.0</i>	<i>200</i>	<i>3</i>	<i>175</i>	<i>13</i>	<i>13</i>
<i>1.9</i>	<i>105</i>	<i>2.0</i>	<i>205</i>	<i>4</i>	<i>145</i>	<i>14</i>	<i>14</i>
<i>2.0</i>	<i>110</i>			<i>5</i>	<i>135</i>	<i>15</i>	<i>15</i>
<i>2.0</i>	<i>115</i>			<i>6</i>	<i>125</i>	<i>16</i>	<i>16</i>
<i>2.1</i>	<i>125</i>			<i>7</i>	<i>115</i>	<i>17</i>	<i>17</i>
<i>2.0</i>	<i>130</i>			<i>8</i>	<i>105</i>	<i>18</i>	<i>18</i>
<i>2.2</i>	<i>135</i>			<i>9</i>		<i>19</i>	<i>19</i>
<i>2.4</i>	<i>140</i>			<i>10</i>		<i>20</i>	<i>20</i>
<i>2.0</i>	<i>145</i>						
<i>1.8</i>	<i>150</i>						
<i>1.2</i>	<i>155</i>						
<i>1.0</i>	<i>160</i>						
<i>.9</i>	<i>165</i>						
<i>1.3</i>	<i>170</i>						
<i>1.8</i>	<i>175</i>						
<i>1.8</i>	<i>180</i>						
<i>1.9</i>	<i>185</i>						

CORROSION CONTROL COMPANY
 Aztec, New Mexico 87410
Installation Record

30-045-21827

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

Operator Mesa Operating Ltd. Partnership Location: Unit D Sec. 6 Twp 31N Rng 10W

Name of Well/Wells or Pipeline Serviced Primo Federal 1A (MV, PC, CH)

Elevation _____ Completion Date _____ Total Depth 200' Land Type* F

Casing, Sizes, Types & Depths No Record

If Casing is cemented, show amounts & types used No Record

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

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 60'

RECEIVED

APR 30 1990

Depths gas encountered: No Record

Type & amount of coke breeze used: 1200# Coke Breeze

OIL CON. DIV.
DIST. 3

Depths anodes placed: 185' - 175' - 165' - 155' - 145' - 135' - 125' - 115' - 105' - 95'

Depths vent pipes placed: No Record

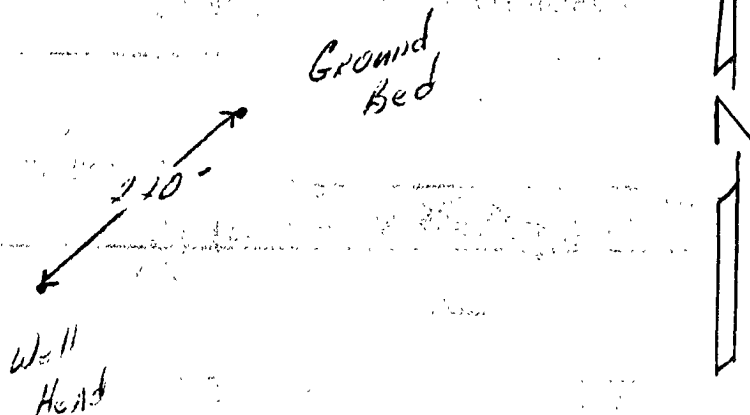
Vent pipe perforations: No Record

Remarks: Type of Anodes used CD-51

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.

OPERATOR: <i>Mass Petroleum Company</i>			
FIELD:		LEASE: <i>Primo Federal</i>	WELL NO. <i>1A</i>
FINAL CHECK Polarity	Date <i>3/4/76</i>	RECTIFIER DATA: Model Setting: <i>116</i> Volts	Ser. No. <i>124</i> Amps



POTENTIALS AT INSULATING FLANGE				GROUNDBED DESCRIPTION			
Rectifier	On	Off	No. & Type of Anodes	<i>10-CD-51</i>			
Well Head			Horizontal	Vertical <input checked="" type="checkbox"/>			
			Backfill	<i>100# C&G K&C</i>			
Depth, Moisture <i>60'</i>		Holes <i>1</i>		Total Hole Depth <i>200'</i>			
Log Anode	Dept.	Log Anode	Dept.	Anode Placement		Anode Placement	
<i>1.6</i>	<i>70</i>	<i>1.7</i>	<i>110</i>	<i>1</i>	<i>185</i>	<i>11</i>	
<i>1.6</i>	<i>75</i>	<i>1.8</i>	<i>125</i>	<i>2</i>	<i>175</i>	<i>12</i>	
<i>1.5</i>	<i>80</i>	<i>1.9</i>	<i>130</i>	<i>3</i>	<i>165</i>	<i>13</i>	
<i>1.9</i>	<i>85</i>	<i>1.9</i>	<i>135</i>	<i>4</i>	<i>155</i>	<i>14</i>	
<i>1.9</i>	<i>90</i>	<i>1.4</i>	<i>140</i>	<i>5</i>	<i>145</i>	<i>15</i>	
<i>1.6</i>	<i>100</i>			<i>6</i>	<i>135</i>	<i>16</i>	
<i>1.1</i>	<i>110</i>			<i>7</i>	<i>125</i>	<i>17</i>	
<i>1.1</i>	<i>115</i>			<i>8</i>	<i>115</i>	<i>18</i>	
<i>1.9</i>	<i>110</i>			<i>9</i>	<i>105</i>	<i>19</i>	
<i>1.8</i>	<i>115</i>			<i>10</i>	<i>95</i>	<i>20</i>	
<i>1.8</i>	<i>120</i>						
<i>1.7</i>	<i>125</i>						
<i>1.7</i>	<i>130</i>						
<i>1.7</i>	<i>135</i>						
<i>1.7</i>	<i>140</i>						
<i>1.6</i>	<i>145</i>						
<i>1.6</i>	<i>150</i>						
<i>1.6</i>	<i>155</i>						
<i>1.6</i>	<i>160</i>						
<i>1.6</i>	<i>165</i>						
<i>1.6</i>	<i>170</i>						
<i>1.6</i>	<i>175</i>						
<i>1.6</i>	<i>180</i>						
<i>1.6</i>	<i>185</i>						
<i>1.6</i>	<i>190</i>						
<i>1.6</i>	<i>195</i>						
<i>1.6</i>	<i>200</i>						

CORROSION CONTROL COMPANY
 Aztec, New Mexico 87410
Installation Record



APPENDIX C

Executed C-138 Solid Waste Acceptance Forms

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
AFE: N49798
PayKey: AM14058
PM: Jim Marquis

2. **Originating Site:**
State Com M#9R MV

3. **Location of Material (Street Address, City, State or ULSTR):**
UL B Section 36 T32N R11W; 36.946157, -107.939104

4. **Source and Description of Waste:**
Source: Remediation activities associated with a natural gas meter tube release.
Description: Hydrocarbon/Condensate impacted soil associated natural meter tube release.
Estimated Volume 50 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 120/15 yd³ / bbls

Dec/2020

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* 12-15-2020, 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, West States Energy Contractor or 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
SIGNATURE: *Greg Crabtree*
Surface Waste Management Facility Authorized Agent

TITLE: Enviro Manager DATE: 12/16/20
TELEPHONE NO.: 505-632-0615

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	AFE: N49798 PayKey: AM14058 PM: Jim Marquis
2. Originating Site: State Com M#9R MV	
3. Location of Material (Street Address, City, State or ULSTR): UL B Section 36 T32N R11W; 36.946157, -107.939104	
4. Source and Description of Waste: Source: Remediation activities associated with a natural gas meter tube release. Description: Hydrocarbon/Condensate impacted soil associated natural meter tube release. Estimated Volume <u>20</u> yd ³ / bbls Known Volume (to be entered by the operator at the end of the haul) <u>11</u> yd ³ / bbls	

June 2021

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*, 6-8-2021, 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, West States Energy Contractor or 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*
SIGNATURE: *Greg Crabtree*
Surface Waste Management Facility Authorized Agent

TITLE: *Enviro Manager*
TELEPHONE NO.: 505-632-0615

DATE: *6/9/21*



APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
State Com M#9R MV (11/11/20)
Ensolum Project No. 05A1226126

**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 the excavation (first sampling event).



SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
State Com M#9R MV (11/11/20)
Ensolum Project No. 05A1226126

**Photograph 4**

Photograph Description: View of the excavation (first sampling event). The soil under the meter run remained in place. The NM EMNRD OCD approved Enterprise's request to postpone excavation below and surrounding the meter run until weather and ground conditions improved.

**Photograph 5**

Photograph Description: View of the excavation below and surrounding the meter run (second sampling event).

**Photograph 6**

Photograph Description: View of the excavation below and surrounding the meter run (second sampling event).



SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
State Com M#9R MV (11/11/20)
Ensolum Project No. 05A1226126

**Photograph 7**

Photograph Description: View of the excavation below and surrounding the meter run (third sampling event).

**Photograph 8**

Photograph Description: View of the excavation after initial restoration.

**Photograph 9**

Photograph Description: View of the excavation after initial restoration.





APPENDIX E

Regulatory Correspondence

From: [Long, Thomas](#)
To: ["Smith, Cory, EMNRD \(Cory.Smith@state.nm.us\)"; "Johnson, David"](#)
Cc: [Stone, Brian](#)
Subject: FW: State Com M#9R MV - UL B Section 36 T32N R11W; 36.946157, -107.939104
Date: Wednesday, June 30, 2021 12:39:00 PM

Cory/David,

This email is a notification that Entperise will continuing the remediation at the State Com M#9R MV and collecting soil samples for laboratory analysis around 12:00 p.m. tomorrow July 1, 2021. We had one area that did not pass during the last 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, June 8, 2021 12:42 PM
To: 'Johnson, David' <djohnson@slo.state.nm.us>; 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: RE: State Com M#9R MV - UL B Section 36 T32N R11W; 36.946157, -107.939104

Cory/David,

This email is a notification that Entperise will be completing the remediation at the State Com M#9R MV and collecting soil samples for laboratory analysis around 1:00 p.m. I have attached a site diagram for reference. We will be hand digging under the meter tube and resampling. 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: Johnson, David <djohnson@slo.state.nm.us>
Sent: Thursday, December 17, 2020 3:33 PM
To: Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] Re: State Com M#9R MV - UL B Section 36 T32N R11W; 36.946157, -107.939104

[Use caution with links/attachments]

Thanks, Tom!

Appreciate your diligence.

Regards!

Dave

From: Long, Thomas <tjlong@eprod.com>
Sent: Thursday, December 17, 2020 2:48:59 PM
To: Johnson, David; 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)'
Cc: Boone, Brandon W.; Stone, Brian; Mann, Ryan
Subject: [EXTERNAL] RE: State Com M#9R MV - UL B Section 36 T32N R11W; 36.946157, -107.939104

Cory,

Please find the attached site sketch and lab report for the State Com M#9R MV excavation. All sample results are below the NMOCD Tier I remediation standard except for S-6 (underneath the meter tube skid). It is estimated to approximately about four cubic yards (an area of 24'x 8'x 0.5') or less are in place. Enterprise requests to wait until the soil thaws underneath the meter tube, so the soil can be removed with hand tools or with a hydro-exactor and then sampled. Please acknowledge acceptance of this request. If you have any questions, please call or email.

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



From: Johnson, David <djohnson@slo.state.nm.us>
Sent: Wednesday, December 16, 2020 4:33 PM
To: Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] Re: State Com M#9R MV - UL B Section 36 T32N R11W; 36.946157, -107.939104

[Use caution with links/attachments]

Thanks for the heads-up.

Regards!

Dave

From: Long, Thomas <tjlong@eprod.com>
Sent: Wednesday, December 16, 2020 3:24 PM
To: Smith, Cory, EMNRD; Johnson, David
Cc: Stone, Brian; Mann, Ryan; Boone, Brandon W.
Subject: [EXTERNAL] RE: State Com M#9R MV - UL B Section 36 T32N R11W; 36.946157, -107.939104

Cory/David,

This email is another variance request. Enterprise is requesting a variance for the 48 hour sampling notification requirement, and requesting to sample the entire excavation today. Field work was anticipated to take two days and turned out to only tank one day. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

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



From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>

Sent: Wednesday, December 16, 2020 1:27 PM

To: Romero, Samantha - OGMD <srromero@slo.state.nm.us>; Long, Thomas <tjlong@eprod.com>; Johnson, David <djohnson@slo.state.nm.us>

Cc: Stone, Brian <bmstone@eprod.com>; Mann, Ryan <rmann@slo.state.nm.us>; Boone, Brandon W. <bboone@slo.state.nm.us>

Subject: [EXTERNAL] RE: State Com M#9R MV - UL B Section 36 T32N R11W; 36.946157, -107.939104

[Use caution with links/attachments]

Tom,

I received the photos via text message due to reception at the site. The photos look good I see no signs of major staining etc. OCD approves your sample request of 400sqft

Please include this approval in your final C-141 as a hard copy will not be sent to you.

Thank you,

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: Romero, Samantha - OGMD <srromero@slo.state.nm.us>

Sent: Wednesday, December 16, 2020 11:12 AM

To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Long, Thomas <tjlong@eprod.com>; Johnson, David <djohnson@slo.state.nm.us>

Cc: Stone, Brian <bmstone@eprod.com>; Mann, Ryan <rmann@slo.state.nm.us>; Boone, Brandon W. <bboone@slo.state.nm.us>

Subject: [EXT] RE: State Com M#9R MV - UL B Section 36 T32N R11W; 36.946157, -107.939104

I have forwarded the correspondence sent to me by mistake to our Environmental Specialist Maria and she has asked that all future information be sent to David Johnson the DRM in the NW and cc the other spill team members (Ryan and Brandon) on these communications. I have included them in this email for future reference.

Thank you,

Samantha Romero
(505)827-5744

From: Smith, Cory, EMNRD [<mailto:Cory.Smith@state.nm.us>]

Sent: Wednesday, December 16, 2020 10:05 AM

To: Long, Thomas <tjlong@eprod.com>; Romero, Samantha - OGMD <srromero@slo.state.nm.us>

Cc: Stone, Brian <bmstone@eprod.com>

Subject: [EXTERNAL] RE: State Com M#9R MV - UL B Section 36 T32N R11W; 36.946157, -107.939104

Tom,

As discussed could you send me some photos of the area so I can make a better decision.

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, December 16, 2020 9:14 AM

To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; srromero@slo.state.nm.us

Cc: Stone, Brian <bmstone@eprod.com>

Subject: [EXT] RE: State Com M#9R MV - UL B Section 36 T32N R11W; 36.946157, -107.939104

Cory/Sami,

Enterprise is requesting variance request to the 200 square foot sampling requirement. Enterprise requests to increase the sampling interval to 400 square feet as that a majority of the sampling will be surficial or very shallow. Please acknowledge agreement to this variance request. If you have any questions, please call or email.

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



From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>

Sent: Tuesday, December 15, 2020 4:07 PM

To: Long, Thomas <tjlong@eprod.com>; srromero@slo.state.nm.us

Cc: Stone, Brian <bmstone@eprod.com>

Subject: [EXTERNAL] RE: State Com M#9R MV - UL B Section 36 T32N R11W; 36.946157, -107.939104

[Use caution with links/attachments]

Tom,

Thank you for the update.

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: Tuesday, December 15, 2020 7:50 AM

To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; srromero@slo.state.nm.us

Cc: Stone, Brian <bmstone@eprod.com>

Subject: [EXT] FW: State Com M#9R MV - UL B Section 36 T32N R11W; 36.946157, -107.939104

Cory/Sami,

This email is a notification that Enterprise will begin the remediation activities at the State Com M#9R MV release site tomorrow, December 16, 2020. I will keep you informed as to when will be collecting soil samples for laboratory analysis. 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: Thursday, November 12, 2020 2:03 PM

To: 'srromero@slo.state.nm.us' <srromero@slo.state.nm.us>

Subject: FW: State Com M#9R MV - UL B Section 36 T32N R11W; 36.946157, -107.939104

Sami,

Please see the notification below.

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: Thursday, November 12, 2020 11:58 AM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>;
'njaramillo@slo.state.nm.us' <njaramillo@slo.state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: State Com M#9R MV - UL B Section 36 T32N R11W; 36.946157, -107.939104

Cory/Nick,

This email is a notification that Enterprise had a release of natural gas on condensate from the meter tube located at the State Com M#9R MV wellsite yesterday afternoon. An area of approximately 56 feet long by 29 feet wide was impacted by condensate. The well and meter tube have the depressurized, locked and tagged out. No washes were affected. The release is located at UL B Section 36 T32N R11W; 36.946157, -107.939104. I have attached a map and photos for reference. I will keep you informed as to when the remediation activities will begin. 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



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APPENDIX F

Table 1 – Soil Analytical Summary



TABLE 1
State Com M#9R MV (11/11/20)
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
Composite Soil Sample Removed by Hand Shovel													
S-6	12.16.20	C	0 to 0.5	<0.093	10	4.1	33	47	910	21	<50	930	<60
S-7	6.09.21	C	0 to 2	<0.024	<0.049	<0.049	<0.098	ND	<4.9	22	130	150	<60
Excavation Composite Soil Samples													
S-1	12.16.20	C	0 to 1	<0.016	<0.033	<0.033	<0.066	ND	<3.3	<10	<50	ND	<60
S-2	12.16.20	C	0 to 1	<0.020	<0.039	<0.039	<0.079	ND	<3.9	<9.1	<45	ND	<60
S-3	12.16.20	C	0 to 1.5	<0.020	<0.039	<0.039	<0.079	ND	<3.9	<9.9	<50	ND	<60
S-4	12.16.20	C	0 to 1.5	<0.022	<0.045	<0.045	<0.090	ND	<4.5	<9.8	<49	ND	<60
S-5	12.16.20	C	0 to 0.5	<0.020	<0.040	<0.040	0.29	0.29	<4.0	<9.2	<46	ND	<60
S-8	6.09.21	C	0 to 1.5	<0.025	<0.049	<0.049	<0.099	ND	<4.9	<9.3	<47	ND	<60
S-9	7.01.21	C	0 to 3	<0.021	<0.043	<0.043	<0.085	ND	<4.3	<10	<50	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 or Reporting Limits

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



APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation



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

December 18, 2020

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: State Com M 9R MV

OrderNo.: 2012855

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 12/17/2020 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2012855

Date Reported: 12/18/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-1

Project: State Com M 9R MV

Collection Date: 12/16/2020 3:15:00 PM

Lab ID: 2012855-001

Matrix: MEOH (SOIL)

Received Date: 12/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	12/17/2020 11:11:42 AM	57069
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/17/2020 10:00:30 AM	57067
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/17/2020 10:00:30 AM	57067
Surr: DNOP	96.9	30.4-154		%Rec	1	12/17/2020 10:00:30 AM	57067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	12/17/2020 9:39:45 AM	SG74081
Surr: BFB	104	75.3-105		%Rec	1	12/17/2020 9:39:45 AM	SG74081
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	12/17/2020 9:39:45 AM	SB74081
Toluene	ND	0.033		mg/Kg	1	12/17/2020 9:39:45 AM	SB74081
Ethylbenzene	ND	0.033		mg/Kg	1	12/17/2020 9:39:45 AM	SB74081
Xylenes, Total	ND	0.066		mg/Kg	1	12/17/2020 9:39:45 AM	SB74081
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	12/17/2020 9:39:45 AM	SB74081

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 10

Analytical Report

Lab Order 2012855

Date Reported: 12/18/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-2

Project: State Com M 9R MV

Collection Date: 12/16/2020 3:20:00 PM

Lab ID: 2012855-002

Matrix: MEOH (SOIL)

Received Date: 12/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	12/17/2020 11:24:06 AM	57069
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/17/2020 10:09:56 AM	57067
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/17/2020 10:09:56 AM	57067
Surr: DNOP	95.2	30.4-154		%Rec	1	12/17/2020 10:09:56 AM	57067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	12/17/2020 11:37:48 AM	SG74081
Surr: BFB	91.7	75.3-105		%Rec	1	12/17/2020 11:37:48 AM	SG74081
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	12/17/2020 11:37:48 AM	SB74081
Toluene	ND	0.039		mg/Kg	1	12/17/2020 11:37:48 AM	SB74081
Ethylbenzene	ND	0.039		mg/Kg	1	12/17/2020 11:37:48 AM	SB74081
Xylenes, Total	ND	0.079		mg/Kg	1	12/17/2020 11:37:48 AM	SB74081
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	12/17/2020 11:37:48 AM	SB74081

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 10

Analytical Report

Lab Order 2012855

Date Reported: 12/18/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-3

Project: State Com M 9R MV

Collection Date: 12/16/2020 3:25:00 PM

Lab ID: 2012855-003

Matrix: MEOH (SOIL)

Received Date: 12/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	12/17/2020 11:36:31 AM	57069
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/17/2020 10:19:22 AM	57067
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/17/2020 10:19:22 AM	57067
Surr: DNOP	101	30.4-154		%Rec	1	12/17/2020 10:19:22 AM	57067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	12/17/2020 12:01:19 PM	SG74081
Surr: BFB	92.9	75.3-105		%Rec	1	12/17/2020 12:01:19 PM	SG74081
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	12/17/2020 12:01:19 PM	SB74081
Toluene	ND	0.039		mg/Kg	1	12/17/2020 12:01:19 PM	SB74081
Ethylbenzene	ND	0.039		mg/Kg	1	12/17/2020 12:01:19 PM	SB74081
Xylenes, Total	ND	0.079		mg/Kg	1	12/17/2020 12:01:19 PM	SB74081
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	12/17/2020 12:01:19 PM	SB74081

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 3 of 10

Analytical Report

Lab Order 2012855

Date Reported: 12/18/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-4

Project: State Com M 9R MV

Collection Date: 12/16/2020 3:30:00 PM

Lab ID: 2012855-004

Matrix: MEOH (SOIL)

Received Date: 12/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	12/17/2020 11:48:55 AM	57069
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/17/2020 10:28:49 AM	57067
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/17/2020 10:28:49 AM	57067
Surr: DNOP	95.4	30.4-154		%Rec	1	12/17/2020 10:28:49 AM	57067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	12/17/2020 12:25:00 PM	SG7408
Surr: BFB	99.3	75.3-105		%Rec	1	12/17/2020 12:25:00 PM	SG7408
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.022		mg/Kg	1	12/17/2020 12:25:00 PM	SB74081
Toluene	ND	0.045		mg/Kg	1	12/17/2020 12:25:00 PM	SB74081
Ethylbenzene	ND	0.045		mg/Kg	1	12/17/2020 12:25:00 PM	SB74081
Xylenes, Total	ND	0.090		mg/Kg	1	12/17/2020 12:25:00 PM	SB74081
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	12/17/2020 12:25:00 PM	SB74081

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 4 of 10

Analytical Report

Lab Order 2012855

Date Reported: 12/18/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-5

Project: State Com M 9R MV

Collection Date: 12/16/2020 3:35:00 PM

Lab ID: 2012855-005

Matrix: MEOH (SOIL)

Received Date: 12/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	12/17/2020 12:01:20 PM	57069
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/17/2020 10:38:24 AM	57067
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/17/2020 10:38:24 AM	57067
Surr: DNOP	104	30.4-154		%Rec	1	12/17/2020 10:38:24 AM	57067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	12/17/2020 12:48:38 PM	SG7408
Surr: BFB	103	75.3-105		%Rec	1	12/17/2020 12:48:38 PM	SG7408
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	12/17/2020 12:48:38 PM	SB74081
Toluene	ND	0.040		mg/Kg	1	12/17/2020 12:48:38 PM	SB74081
Ethylbenzene	ND	0.040		mg/Kg	1	12/17/2020 12:48:38 PM	SB74081
Xylenes, Total	0.29	0.080		mg/Kg	1	12/17/2020 12:48:38 PM	SB74081
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	12/17/2020 12:48:38 PM	SB74081

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 5 of 10

Analytical Report

Lab Order 2012855

Date Reported: 12/18/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-6

Project: State Com M 9R MV

Collection Date: 12/16/2020 3:40:00 PM

Lab ID: 2012855-006

Matrix: MEOH (SOIL)

Received Date: 12/17/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	12/17/2020 12:13:45 PM	57069
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	21	10		mg/Kg	1	12/17/2020 10:47:55 AM	57067
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/17/2020 10:47:55 AM	57067
Surr: DNOP	93.7	30.4-154		%Rec	1	12/17/2020 10:47:55 AM	57067
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	910	19		mg/Kg	5	12/17/2020 9:16:09 AM	SG74081
Surr: BFB	603	75.3-105	S	%Rec	5	12/17/2020 9:16:09 AM	SG74081
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.093		mg/Kg	5	12/17/2020 9:16:09 AM	SB74081
Toluene	10	0.19		mg/Kg	5	12/17/2020 9:16:09 AM	SB74081
Ethylbenzene	4.1	0.19		mg/Kg	5	12/17/2020 9:16:09 AM	SB74081
Xylenes, Total	33	0.37		mg/Kg	5	12/17/2020 9:16:09 AM	SB74081
Surr: 4-Bromofluorobenzene	129	80-120	S	%Rec	5	12/17/2020 9:16:09 AM	SB74081

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 6 of 10

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2012855

18-Dec-20

Client: ENSOLUM**Project:** State Com M 9R MV

Sample ID: MB-57069	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 57069	RunNo: 74079								
Prep Date: 12/17/2020	Analysis Date: 12/17/2020	SeqNo: 2614724	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-57069	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 57069	RunNo: 74079								
Prep Date: 12/17/2020	Analysis Date: 12/17/2020	SeqNo: 2614725	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.7	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 Quantitative 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

Page 7 of 10

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2012855

18-Dec-20

Client: ENSOLUM**Project:** State Com M 9R MV

Sample ID: LCS-57067	SampType: LCS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 57067				RunNo: 74076					
Prep Date: 12/17/2020	Analysis Date: 12/17/2020				SeqNo: 2613831	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.6	70	130			
Surr: DNOP	4.9		5.000		97.1	30.4	154			

Sample ID: MB-57067	SampType: MBLK				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 57067				RunNo: 74076					
Prep Date: 12/17/2020	Analysis Date: 12/17/2020				SeqNo: 2613832	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	9.9		10.00		99.3	30.4	154			

Sample ID: 2012855-001AMS	SampType: MS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: S-1	Batch ID: 57067				RunNo: 74076					
Prep Date: 12/17/2020	Analysis Date: 12/17/2020				SeqNo: 2614531	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.6	47.76	0	90.3	15	184			
Surr: DNOP	4.8		4.776		101	30.4	154			

Sample ID: 2012855-001AMSD	SampType: MSD				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: S-1	Batch ID: 57067				RunNo: 74076					
Prep Date: 12/17/2020	Analysis Date: 12/17/2020				SeqNo: 2614532	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.8	48.92	0	93.0	15	184	5.43	23.9	
Surr: DNOP	5.1		4.892		104	30.4	154	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 Quantitative 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

Page 8 of 10

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2012855

18-Dec-20

Client: ENSOLUM
Project: State Com M 9R MV

Sample ID: mb-II	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: SG74081		RunNo: 74081							
Prep Date:	Analysis Date: 12/17/2020		SeqNo: 2614433		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	890		1000		89.2	75.3	105			

Sample ID: 2.5ug gro lcs-II	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: SG74081		RunNo: 74081							
Prep Date:	Analysis Date: 12/17/2020		SeqNo: 2614434		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.8	72.5	106			
Surr: BFB	1000		1000		101	75.3	105			

Sample ID: 2012855-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: S-1	Batch ID: SG74081		RunNo: 74081							
Prep Date:	Analysis Date: 12/17/2020		SeqNo: 2614441		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.3	16.38	0	101	61.3	114			
Surr: BFB	740		655.3		114	75.3	105			S

Sample ID: 2012855-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: S-1	Batch ID: SG74081		RunNo: 74081							
Prep Date:	Analysis Date: 12/17/2020		SeqNo: 2614442		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	3.3	16.38	0	138	61.3	114	30.7	20	RS
Surr: BFB	780		655.3		119	75.3	105	0	0	S

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 Quantitative 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

Page 9 of 10

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2012855

18-Dec-20

Client: ENSOLUM**Project:** State Com M 9R MV

Sample ID: mb-II	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: SB74081			RunNo: 74081						
Prep Date:	Analysis Date: 12/17/2020			SeqNo: 2614469		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	80	120			

Sample ID: 100ng btex lcs-II	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: SB74081			RunNo: 74081						
Prep Date:	Analysis Date: 12/17/2020			SeqNo: 2614470		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.2	80	120			
Toluene	0.95	0.050	1.000	0	94.7	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

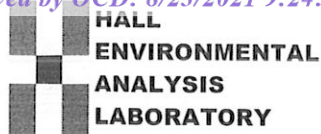
Sample ID: 2012855-002ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: S-2	Batch ID: SB74081			RunNo: 74081						
Prep Date:	Analysis Date: 12/17/2020			SeqNo: 2614477		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.70	0.020	0.7874	0	89.4	76.3	120			
Toluene	0.72	0.039	0.7874	0.01110	89.7	78.5	120			
Ethylbenzene	0.70	0.039	0.7874	0.008661	87.2	78.1	124			
Xylenes, Total	2.1	0.079	2.362	0.02819	88.5	79.3	125			
Surr: 4-Bromofluorobenzene	0.87		0.7874		110	80	120			

Sample ID: 2012855-002amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: S-2	Batch ID: SB74081			RunNo: 74081						
Prep Date:	Analysis Date: 12/17/2020			SeqNo: 2614478		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.020	0.7874	0	133	76.3	120	39.2	20	RS
Toluene	1.1	0.039	0.7874	0.01110	134	78.5	120	39.2	20	RS
Ethylbenzene	1.1	0.039	0.7874	0.008661	133	78.1	124	41.3	20	RS
Xylenes, Total	3.2	0.079	2.362	0.02819	135	79.3	125	41.1	20	RS
Surr: 4-Bromofluorobenzene	0.87		0.7874		110	80	120	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 Quantitative 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
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: **2012855**RcptNo: **1**Received By: **Emily Mocho** 12/17/2020 8:05:00 AMCompleted By: **Desiree Dominguez** 12/17/2020 8:11:28 AMReviewed By: **SGC 12/17/20**

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: **JR 12/17/20**

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	1.0	Good	Yes			



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

June 16, 2021

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: State Com M 9R MV

OrderNo.: 2106553

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/10/2021 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2106553

Date Reported: 6/16/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-7

Project: State Com M 9R MV

Collection Date: 6/9/2021 4:45:00 PM

Lab ID: 2106553-001

Matrix: SOIL

Received Date: 6/10/2021 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/13/2021 4:13:51 PM	60595
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	22	9.0		mg/Kg	1	6/12/2021 8:28:51 AM	60552
Motor Oil Range Organics (MRO)	130	45		mg/Kg	1	6/12/2021 8:28:51 AM	60552
Surr: DNOP	105	70-130		%Rec	1	6/12/2021 8:28:51 AM	60552
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/12/2021 1:00:00 PM	60554
Surr: BFB	98.0	70-130		%Rec	1	6/12/2021 1:00:00 PM	60554
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	6/12/2021 1:00:00 PM	60554
Toluene	ND	0.049		mg/Kg	1	6/12/2021 1:00:00 PM	60554
Ethylbenzene	ND	0.049		mg/Kg	1	6/12/2021 1:00:00 PM	60554
Xylenes, Total	ND	0.098		mg/Kg	1	6/12/2021 1:00:00 PM	60554
Surr: 4-Bromofluorobenzene	83.7	70-130		%Rec	1	6/12/2021 1:00:00 PM	60554

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 7

Analytical Report

Lab Order 2106553

Date Reported: 6/16/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-8

Project: State Com M 9R MV

Collection Date: 6/9/2021 4:50:00 PM

Lab ID: 2106553-002

Matrix: SOIL

Received Date: 6/10/2021 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/13/2021 4:26:15 PM	60595
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/12/2021 10:05:37 AM	60552
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/12/2021 10:05:37 AM	60552
Surr: DNOP	99.3	70-130		%Rec	1	6/12/2021 10:05:37 AM	60552
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/12/2021 2:00:00 PM	60554
Surr: BFB	108	70-130		%Rec	1	6/12/2021 2:00:00 PM	60554
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	6/12/2021 2:00:00 PM	60554
Toluene	ND	0.049		mg/Kg	1	6/12/2021 2:00:00 PM	60554
Ethylbenzene	ND	0.049		mg/Kg	1	6/12/2021 2:00:00 PM	60554
Xylenes, Total	ND	0.099		mg/Kg	1	6/12/2021 2:00:00 PM	60554
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	6/12/2021 2:00:00 PM	60554

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 7

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106553

16-Jun-21

Client: ENSOLUM**Project:** State Com M 9R MV

Sample ID: MB-60595	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60595	RunNo: 79041								
Prep Date: 6/13/2021	Analysis Date: 6/13/2021	SeqNo: 2773120	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60595	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60595	RunNo: 79041								
Prep Date: 6/13/2021	Analysis Date: 6/13/2021	SeqNo: 2773121	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.3	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 Quantitative 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

Page 3 of 7

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106553

16-Jun-21

Client: ENSOLUM**Project:** State Com M 9R MV

Sample ID: MB-60552	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60552	RunNo: 79023								
Prep Date: 6/10/2021	Analysis Date: 6/12/2021	SeqNo: 2772847 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		102	70	130			

Sample ID: LCS-60552	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60552	RunNo: 79023								
Prep Date: 6/10/2021	Analysis Date: 6/12/2021	SeqNo: 2772848 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.6	68.9	141			
Surr: DNOP	5.1		5.000		102	70	130			

Sample ID: 2106553-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-7	Batch ID: 60552	RunNo: 79023								
Prep Date: 6/10/2021	Analysis Date: 6/12/2021	SeqNo: 2772850 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	9.8	49.12	21.95	77.7	15	184			
Surr: DNOP	5.5		4.912		112	70	130			

Sample ID: 2106553-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-7	Batch ID: 60552	RunNo: 79023								
Prep Date: 6/10/2021	Analysis Date: 6/12/2021	SeqNo: 2772851 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.5	47.53	21.95	59.5	15	184	18.0	23.9	
Surr: DNOP	4.9		4.753		104	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 Quantitative 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

Page 4 of 7

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106553

16-Jun-21

Client: ENSOLUM
Project: State Com M 9R MV

Sample ID: LCS-60554	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 60554			RunNo: 79039						
Prep Date: 6/10/2021	Analysis Date: 6/12/2021			SeqNo: 2772871		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	78.6	131			
Surr: BFB	1100		1000		115	70	130			

Sample ID: MB-60554	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 60554			RunNo: 79039						
Prep Date: 6/10/2021	Analysis Date: 6/12/2021			SeqNo: 2772872		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	990		1000		98.8	70	130			

Sample ID: 2106553-001ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: S-7	Batch ID: 60554			RunNo: 79039						
Prep Date: 6/10/2021	Analysis Date: 6/12/2021			SeqNo: 2772874		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	24.80	0	99.0	61.3	114			
Surr: BFB	1100		992.1		115	70	130			

Sample ID: 2106553-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: S-7	Batch ID: 60554			RunNo: 79039						
Prep Date: 6/10/2021	Analysis Date: 6/12/2021			SeqNo: 2772875		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	24.95	0	100	61.3	114	7.35	20	
Surr: BFB	1100		998.0		114	70	130	0	0	

Sample ID: LCS-60583	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 60583			RunNo: 79039						
Prep Date: 6/11/2021	Analysis Date: 6/12/2021			SeqNo: 2772895		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		111	70	130			

Sample ID: MB-60583	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 60583			RunNo: 79039						
Prep Date: 6/11/2021	Analysis Date: 6/12/2021			SeqNo: 2772896		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	980		1000		98.3	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 Quantitative 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

Page 5 of 7

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106553

16-Jun-21

Client: ENSOLUM**Project:** State Com M 9R MV

Sample ID: LCS-60554	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 60554			RunNo: 79039						
Prep Date: 6/10/2021	Analysis Date: 6/12/2021			SeqNo: 2772956			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	86.6	80	120			
Toluene	0.86	0.050	1.000	0	85.9	80	120			
Ethylbenzene	0.88	0.050	1.000	0	87.7	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.4	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		83.9	70	130			

Sample ID: MB-60554	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 60554			RunNo: 79039						
Prep Date: 6/10/2021	Analysis Date: 6/12/2021			SeqNo: 2772957			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		85.1	70	130			

Sample ID: 2106553-002ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: S-8	Batch ID: 60554			RunNo: 79039						
Prep Date: 6/10/2021	Analysis Date: 6/12/2021			SeqNo: 2772960			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.81	0.099	0.9901	0	82.2	59.7	119			
Benzene	0.84	0.025	0.9901	0	85.0	80	120			
Toluene	0.83	0.050	0.9901	0	84.2	80	120			
Ethylbenzene	0.87	0.050	0.9901	0	88.0	80	120			
Xylenes, Total	2.5	0.099	2.970	0	85.4	80	120			
Surr: 4-Bromofluorobenzene	0.83		0.9901		84.3	70	130			

Sample ID: 2106553-002amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: S-8	Batch ID: 60554			RunNo: 79039						
Prep Date: 6/10/2021	Analysis Date: 6/12/2021			SeqNo: 2772961			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.84	0.099	0.9891	0	84.8	59.7	119	8.83	20	
Benzene	0.86	0.025	0.9891	0	86.7	80	120	9.42	20	
Toluene	0.85	0.049	0.9891	0	85.7	80	120	9.93	20	
Ethylbenzene	0.89	0.049	0.9891	0	89.5	80	120	10.1	20	
Xylenes, Total	2.6	0.099	2.967	0	87.1	80	120	10.2	20	
Surr: 4-Bromofluorobenzene	0.85		0.9891		85.5	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 Quantitative 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

Page 6 of 7

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2106553

16-Jun-21

Client: ENSOLUM

Project: State Com M 9R MV

Sample ID: LCS-60583	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 60583		RunNo: 79039							
Prep Date: 6/11/2021	Analysis Date: 6/12/2021		SeqNo: 2772980		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.84		1.000		84.0	70	130			

Sample ID: MB-60583	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 60583		RunNo: 79039							
Prep Date: 6/11/2021	Analysis Date: 6/12/2021		SeqNo: 2772981		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.84		1.000		84.3	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 Quantitative 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

Page 7 of 7



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: **2106553**RcptNo: **1**Received By: **Juan Rojas**

6/10/2021 7:05:00 AM

*Juan Rojas*Completed By: **Cheyenne Cason**

6/10/2021 8:16:58 AM

Cheyenne Cason

Reviewed By:

JR 6/10/21

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? */*

Checked by: *KPG 6/10/21*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes			

Chain-of-Custody Record

Client: Froggump, LLCMailing Address: 6406 S. Rio Grande Suite AAztec, NM 87410

Phone #:

email or Fax#: Ksummers@ensolum.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)Cooler Temp (including CF): 2.9-0.1 = 2.8 (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Turn-Around Time: 3-DAY☐ Standard ☒ Rush

Project Name:

State Comm #9 R MV

Project #:

See notesProject Manager: KsummersSampler: ReedchinyOn Ice: ☒ Yes ☐ No

of Coolers:

Cooler Temp (including CF): 2.9-0.1 = 2.8 (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

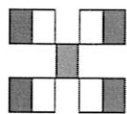
Time

Matrix

Sample Name

Date

Time

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Project Manager: KsummersSampler: ReedchinyOn Ice: ☒ Yes ☐ No

of Coolers:

Cooler Temp (including CF): 2.9-0.1 = 2.8 (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Project Manager: KsummersSampler: ReedchinyOn Ice: ☒ Yes ☐ No

of Coolers:

Cooler Temp (including CF): 2.9-0.1 = 2.8 (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Project Manager: KsummersSampler: ReedchinyOn Ice: ☒ Yes ☐ No

of Coolers:

Cooler Temp (including CF): 2.9-0.1 = 2.8 (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Project Manager: KsummersSampler: ReedchinyOn Ice: ☒ Yes ☐ No

of Coolers:

Cooler Temp (including CF): 2.9-0.1 = 2.8 (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Project Manager: KsummersSampler: ReedchinyOn Ice: ☒ Yes ☐ No

of Coolers:

Cooler Temp (including CF): 2.9-0.1 = 2.8 (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Project Manager: KsummersSampler: ReedchinyOn Ice: ☒ Yes ☐ No

of Coolers:

Cooler Temp (including CF): 2.9-0.1 = 2.8 (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Project Manager: KsummersSampler: ReedchinyOn Ice: ☒ Yes ☐ No

of Coolers:

Cooler Temp (including CF): 2.9-0.1 = 2.8 (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Project Manager: KsummersSampler: ReedchinyOn Ice: ☒ Yes ☐ No

of Coolers:

Cooler Temp (including CF): 2.9-0.1 = 2.8 (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Project Manager: KsummersSampler: ReedchinyOn Ice: ☒ Yes ☐ No

of Coolers:

Cooler Temp (including CF): 2.9



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

July 06, 2021

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: State Com M 9R MV

OrderNo.: 2107064

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/2/2021 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2107064

Date Reported: 7/6/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-9

Project: State Com M 9R MV

Collection Date: 7/1/2021 12:00:00 PM

Lab ID: 2107064-001

Matrix: MEOH (SOIL)

Received Date: 7/2/2021 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/2/2021 10:34:45 AM	61106
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	7/2/2021 1:13:53 PM	61095
Surr: BFB	95.7	70-130		%Rec	1	7/2/2021 1:13:53 PM	61095
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/2/2021 10:28:37 AM	61105
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/2/2021 10:28:37 AM	61105
Surr: DNOP	98.5	70-130		%Rec	1	7/2/2021 10:28:37 AM	61105
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.021		mg/Kg	1	7/2/2021 1:13:53 PM	61095
Toluene	ND	0.043		mg/Kg	1	7/2/2021 1:13:53 PM	61095
Ethylbenzene	ND	0.043		mg/Kg	1	7/2/2021 1:13:53 PM	61095
Xylenes, Total	ND	0.085		mg/Kg	1	7/2/2021 1:13:53 PM	61095
Surr: 1,2-Dichloroethane-d4	97.1	70-130		%Rec	1	7/2/2021 1:13:53 PM	61095
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	7/2/2021 1:13:53 PM	61095
Surr: Dibromofluoromethane	102	70-130		%Rec	1	7/2/2021 1:13:53 PM	61095
Surr: Toluene-d8	99.3	70-130		%Rec	1	7/2/2021 1:13:53 PM	61095

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2107064

06-Jul-21

Client: ENSOLUM
Project: State Com M 9R MV

Sample ID: MB-61106	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 61106	RunNo: 79537								
Prep Date: 7/2/2021	Analysis Date: 7/2/2021	SeqNo: 2798059 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-61106	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 61106	RunNo: 79537								
Prep Date: 7/2/2021	Analysis Date: 7/2/2021	SeqNo: 2798060 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.8	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 Quantitative 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

Page 2 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2107064

06-Jul-21

Client: ENSOLUM
Project: State Com M 9R MV

Sample ID: MB-61105	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61105	RunNo: 79548								
Prep Date: 7/2/2021	Analysis Date: 7/2/2021	SeqNo: 2797391 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		96.0	70	130			

Sample ID: LCS-61105	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61105	RunNo: 79548								
Prep Date: 7/2/2021	Analysis Date: 7/2/2021	SeqNo: 2797392 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.8	68.9	141			
Surr: DNOP	5.4		5.000		108	70	130			

Sample ID: 2107064-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-9	Batch ID: 61105	RunNo: 79548								
Prep Date: 7/2/2021	Analysis Date: 7/2/2021	SeqNo: 2797399 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.7	48.69	9.247	77.5	15	184			
Surr: DNOP	5.3		4.869		108	70	130			

Sample ID: 2107064-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-9	Batch ID: 61105	RunNo: 79548								
Prep Date: 7/2/2021	Analysis Date: 7/2/2021	SeqNo: 2797403 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.1	45.70	9.247	83.6	15	184	1.04	23.9	
Surr: DNOP	4.9		4.570		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 Quantitative 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#: 2107064

06-Jul-21

Client: ENSOLUM
Project: State Com M 9R MV

Sample ID: lcs-61095	SampType: LCS		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: LCSS	Batch ID: 61095		RunNo: 79552							
Prep Date: 7/1/2021	Analysis Date: 7/2/2021		SeqNo: 2797540		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.6	70	130			
Toluene	0.95	0.050	1.000	0	95.2	70	130			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		97.3	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		93.9	70	130			
Surr: Toluene-d8	0.47		0.5000		94.9	70	130			

Sample ID: mb-61095	SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batch ID: 61095		RunNo: 79552							
Prep Date: 7/1/2021	Analysis Date: 7/2/2021		SeqNo: 2797541		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: 1,2-Dichloroethane-d4	0.49		0.5000		98.6	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		103	70	130			
Surr: Toluene-d8	0.50		0.5000		101	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 Quantitative 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#: 2107064

06-Jul-21

Client: ENSOLUM
Project: State Com M 9R MV

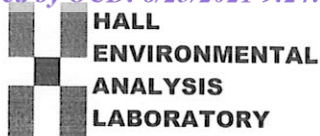
Sample ID: lcs-61095	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 61095			RunNo: 79552						
Prep Date: 7/1/2021	Analysis Date: 7/2/2021			SeqNo: 2797545		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.4	70	130			
Surr: BFB	510		500.0		101	70	130			

Sample ID: mb-61095	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: 61095			RunNo: 79552						
Prep Date: 7/1/2021	Analysis Date: 7/2/2021			SeqNo: 2797546		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	490		500.0		97.9	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 Quantitative 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
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: 2107064

RcptNo: 1

Received By: Juan Rojas

7/2/2021 7:05:00 AM

Juan Rojas

Completed By: Cheyenne Cason

7/2/2021 7:44:16 AM

Cason

Reviewed By:

JR 7/2/21

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *cc 7/2/21*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good				

Chain-of-Custody Record

Client:

Ensolium, LLC

Mailing Address:

6006 S. Rio Grande, Suite 101

Phone #:

Project #:

email or Fax#: Ksummers@ensolium.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

Same Day

☐ Standard ☒ Rush

180%

Project Name:

State Com M#9R MV

Project #:

Project Manager:

K. Summers

Sampler:

L. Daivell

On Ice:

☒ Yes ☐ No

of Coolers:

1

Container Type and #

1402 Jar Cool

Preservative Type

CO1

HEAL No.

2107064

Cooler Temp (including CF):

13.0/12.1/11.4

(°C)

Date

Time

Matrix

Sample Name

Date

Time

Relinquished by:

Received by:

Via:

Date

Time

Relinquished by:

Received by:

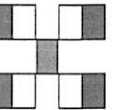
Via:

Date

Time

Relinquished by:

Received by:



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

Remarks:

PM Tom Long
Pay Key A514058
Non AFE - N49798

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 43682

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 43682
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	3/28/2022