

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Enterprise Field Services, LLC	OGRID: 241602
Contact Name: Thomas Long	Contact Telephone: 505-599-2286
Contact email: tjlong@eprod.com	Incident # (assigned by OCD) nAPP2227742172
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

Location of Release Source

Latitude **36.402249** Longitude **-107.59339** (NAD 83 in decimal degrees to 5 decimal places)

Site Name Largo Discharge	Site Type Natural Gas Gathering Pipeline
Date Release Discovered: 10/03/2022	Serial Number (if applicable): N/A

Unit Letter	Section	Township	Range	County
G	17	25N	7W	Rio Arriba

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

Nature and Volume of Release

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

<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): 25 BBLs	Volume Recovered (bbls): None
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf): 936.3 MCF	Volume Recovered (Mcf): None
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release: On October 3, 2022, Enterprise had a release of natural gas from the Largo Discharge pipeline. The pipeline was isolated, depressurized, locked and tagged out. Released liquids flowed approximately 400 feet to the northeast along the Right-Of-Way. No emergency services responded. No fire nor injuries occurred. The remediation was completed on November 14, 2022. The final excavation dimensions measured approximately 75 feet long by 27 feet wide by 13 feet deep. A total of 1,322 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm. A third party closure report is included with this "Final." C-141.

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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

Printed Name: Thomas Long Title: Senior Environmental Scientist

Signature:  Date: 6-12-2023

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

OCD Only

Received by: _____ Date: _____

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

Closure Approved by:  Date: 06/13/2023

Printed Name: Nelson Velez Title: Environmental Specialist – Adv



ENSOLUM

CLOSURE REPORT

Property:

Largo Discharge (10/03/22)
Unit Letter G, S17 T25N R07W
Rio Arriba County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2227742172

January 9, 2023

Ensolum Project No. 05A1226216

Prepared for:

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

Prepared by:

Ranee Deechilly
Project Manager

Kyle Summers
Senior Managing Geologist

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- Figure G: Mines, Mills, and Quarries
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1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Largo Discharge (10/03/22) (Site)
NM EMNRD OCD Incident ID No.	NAPP2227742172
Location:	36.402249° North, 107.59339° West Unit Letter G, Section 17, Township 25 North, Range 07 West Rio Arriba County, New Mexico
Property:	United States Bureau of Land Management (BLM)
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On October 3, 2022, a release of natural gas from the Largo Discharge pipeline was identified by a third party. Enterprise verified a release and subsequently isolated and locked the pipeline out of service. On October 5, 2022, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

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

- The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs were identified in the same Public Land Survey System (PLSS) section as the Site, and no PODs were identified in the adjacent sections. Two PODs (SJ-00681-43 and SJ-00681-44) were identified less than 0.5 miles from the Site using the OSE online mapping tool, however no depths to water were indicated (**Figure A, Appendix B**).

- No cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the same PLSS section as the Site nor in the adjacent PLSS sections **Figure B (Appendix B)**.
- The Site is located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C, Appendix B**).
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (**Figure D, Appendix B**).
- No springs, or private domestic freshwater wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site (**Figure E, Appendix B**).
- No freshwater wells or springs were identified within 1,000 feet of the Site (**Figure E, Appendix B**).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not within 300 feet of a wetland (**Figure F, Appendix B**).
- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (**Figure G, Appendix B**).
- The Site is not located within an unstable area per Paragraph (6) of Subsection U of 19.15.2.7 NMAC.
- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year floodplain (**Figure H, Appendix B**).

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

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

¹ – Constituent concentrations are in milligrams per kilogram (mg/kg).

² – Total Petroleum Hydrocarbons (TPH). Gasoline Range Organics (GRO). Diesel Range Organics (DRO). Motor Oil/Lube Oil Range Organics (MRO).

³ – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

3.0 SOIL REMEDIATION ACTIVITIES

On October 5, 2022, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, Sunland Construction Inc, provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 75 feet long and 27 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 13 feet bgs. The floor of the excavation measured approximately 73 feet by 24 feet. The lithology encountered during the completion of remediation activities consisted primarily of sand and gravel.

Approximately 1,322 cubic yards (yd³) of petroleum hydrocarbon-affected soils and 20 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 form is provided in **Appendix C**. The excavation was backfilled with imported fill and then contoured to the surrounding topography.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the pipeline (**Appendix A**). Photographic documentation of the field activities is included in **Appendix D**.

4.0 SOIL SAMPLING PROGRAM

Ensolum field screened the soil samples from the excavation utilizing a calibrated Dexsil PetroFLAG[®] hydrocarbon analyzer system and a photoionization detector (PID) fitted with a 10.6 eV lamp to guide excavation extents.

Ensolum's soil sampling program included the collection of 26 composite soil samples (PC-1, PC-2, S-9a, and S-1 through S-23) from the primary excavation and two composite soil samples (FP-1 and FP-2) from the flow path excavation for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft²) or less sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. Hand tools or the excavator bucket were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

First Sampling Event

On October 13, 2022, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples PC-1 (0' to 4') and PC-2 (0' to 4') were collected from pipe chase end walls.

Second Sampling Event

On November 11, 2022, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-4 (13'), S-5 (13'), S-6 (13'), S-7 (13'), and S-8 (13'), were collected from floor of the excavation. Composite soil samples S-1 (0'-13'), S-2 (0'-13'), S-3 (0'-13'), S-9 (0'-13'), S-10 (0'-13'), S-11 (0'-13'), S-12 (0'-13'), and S-13 (0'-13'), were collected from the walls of the excavation.

Subsequent soil analytical results identified TPH concentrations that exceeded the NM EMNRD OCD closure criteria for composite soil sample S-9.

Third Sampling Event

On November 14, 2022, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-14 (13'), S-15 (13'), S-16 (13'), and S-17 (13'), were collected from floor of the excavation. Composite soil samples S-18 (0'-13'), S-19 (0'-13'), S-20 (0'-13'), S-21 (0'-13'), S-22 (0'-13'), and S-23 (0'-13'), were collected from the walls of the excavation. In addition, composite soil samples FP-1 (0.25') and FP-2 (0.25') were collected from the flow paths.

Fourth Sampling Event

In response to the exceedances of composite sample S-9 during the first sampling event, the excavation was extended in that area. The impacted soils were removed by excavation and transported to the landfarm for disposal/remediation. On November 15, 2022, sampling was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil sample S-9a (0' to 13') was collected from a wall of the excavation to replace sample S-9 that had exceeded closure criteria.

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

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX using Environmental Protection Agency (EPA) SW-846 Method #8021; TPH GRO/DRO/MRO using EPA SW-846 Method #8015; and chlorides using EPA Method #300.0.

The laboratory analytical results are summarized in **Table 1 (Appendix F)**. The laboratory data sheets and executed chain-of-custody forms are provided in **Appendix G**.

6.0 SOIL DATA EVALUATION

Ensolum compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (PC-1, PC-2, FP-1, FP-2, S-1 through S-9, S-9a, and S-10 through S-23) to the applicable NM EMNRD OCD closure criteria. The soil associated with composite soil sample S-9 was removed from the Site, and therefore, are not included in the following discussion. The laboratory analytical results are summarized in **Table 1 (Appendix F)**.

- The laboratory analytical results for composite soil sample S-14 indicates a benzene concentration of 0.019 mg/kg, which is less than the New Mexico EMNRD OCD closure criteria of 10 mg/kg. The laboratory analytical results for all other 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 NM EMNRD OCD closure criteria of 10 mg/kg.
- The laboratory analytical results for composite soil samples S-10 and S-14 indicate combined BTEX concentrations of 0.11 mg/kg, and 0.019 mg/kg, respectively, which are less than the New Mexico 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 NM EMNRD OCD closure criteria of 50 mg/kg.

- The laboratory analytical results for composite soil sample S-10 indicates a combined TPH GRO/DRO/MRO concentration of 67 mg/kg, which is less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for all other 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 New Mexico EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for composite soil samples FP-1, FP-2, PC-1, PC-2, S-9a, S-10 through S-13, S-18, S-19, S-22, and S-23 indicate chloride concentrations ranging from 64 mg/kg (S-18) to 300 mg/kg (PC-1), which are less than the New Mexico EMNRD OCD closure criteria of 600 mg/kg. The laboratory analytical results for all other 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 New Mexico EMNRD OCD closure criteria of 600 mg/kg.

7.0 RECLAMATION AND REVEGETATION

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

8.0 FINDINGS AND RECOMMENDATION

- Twenty-eight composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, BTEX, chloride, or combined TPH GRO/DRO or TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.
- Approximately 1,322 yd³ of petroleum hydrocarbon-affected soils and 20 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 topography.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work, and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum

cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendation are based solely upon data available to Ensolum at the time of these services.

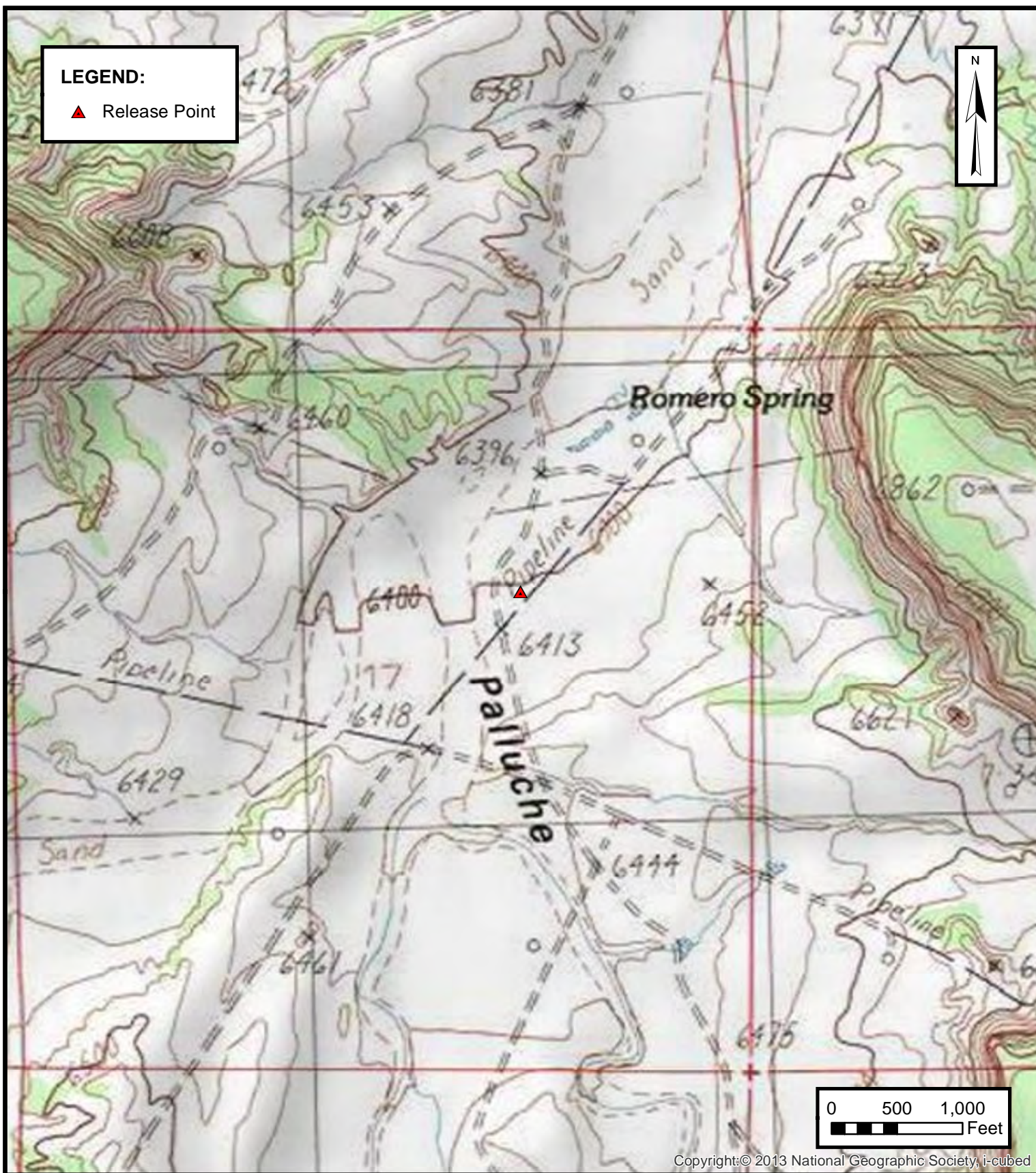
9.3 Reliance

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



APPENDIX A

Figures



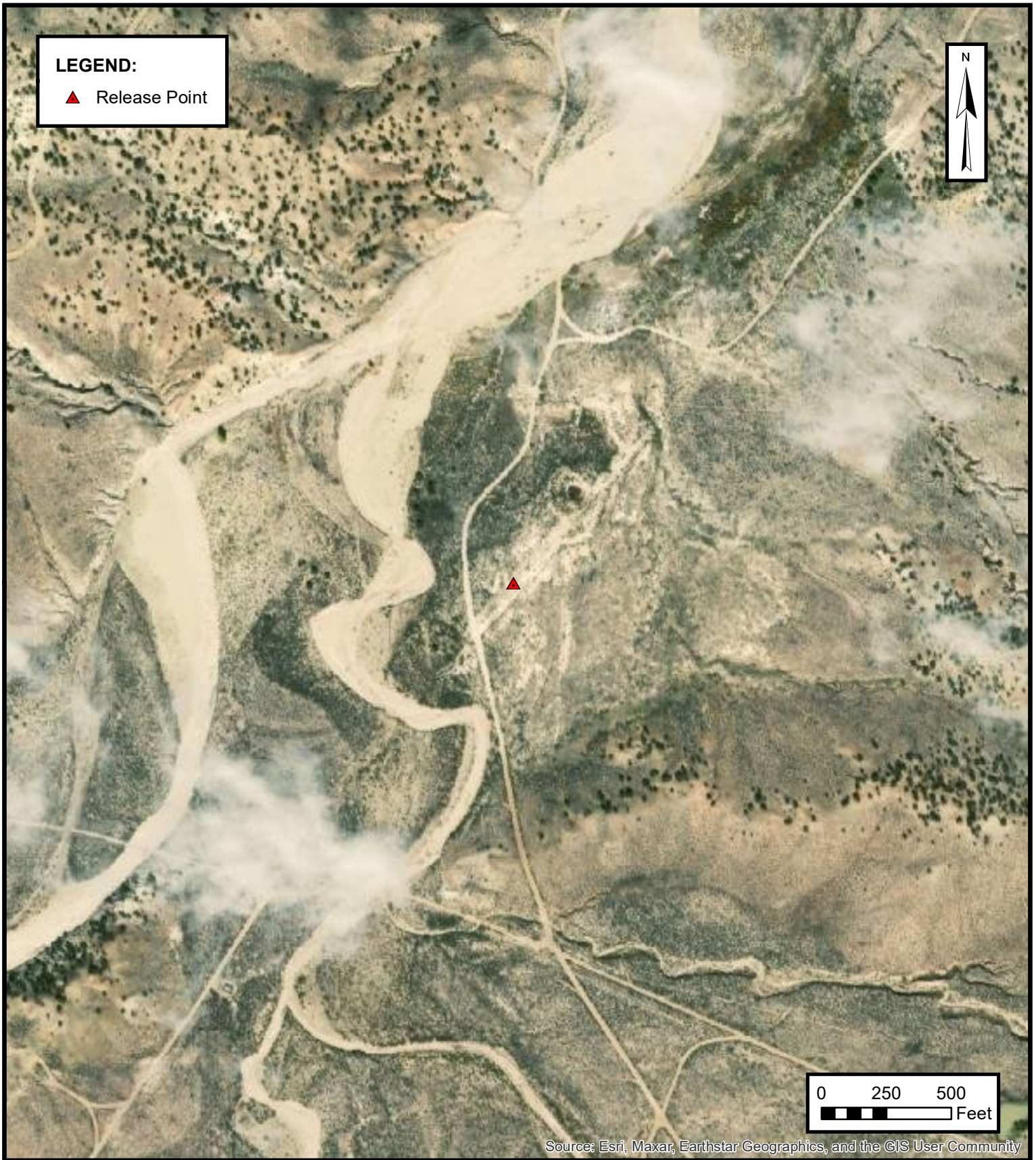
ENSOLUM
 Environmental, Engineering and
 Hydrogeologic Consultants

TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC
 LARGO DISCHARGE (10/03/22)
 Unit Letter G, S17 T25N R7W, Rio Arriba County, New Mexico
 36.402249° N, 107.59339° W

PROJECT NUMBER: 05A1226216

FIGURE
1



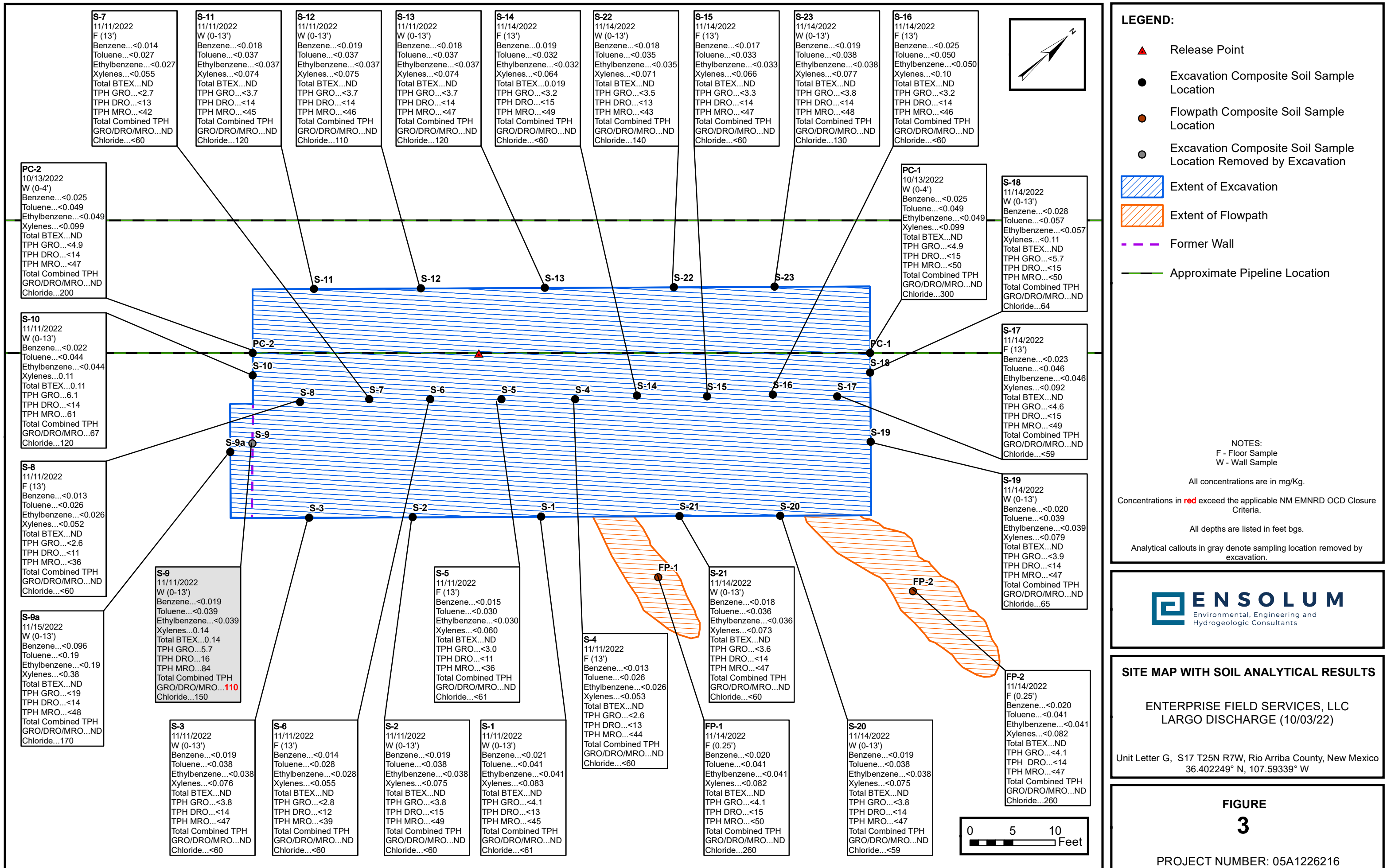
ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
LARGO DISCHARGE (10/03/22)
Unit Letter G, S17 T25N R7W, Rio Arriba County, New Mexico
36.402249° N, 107.59339° W

PROJECT NUMBER: 05A1226216

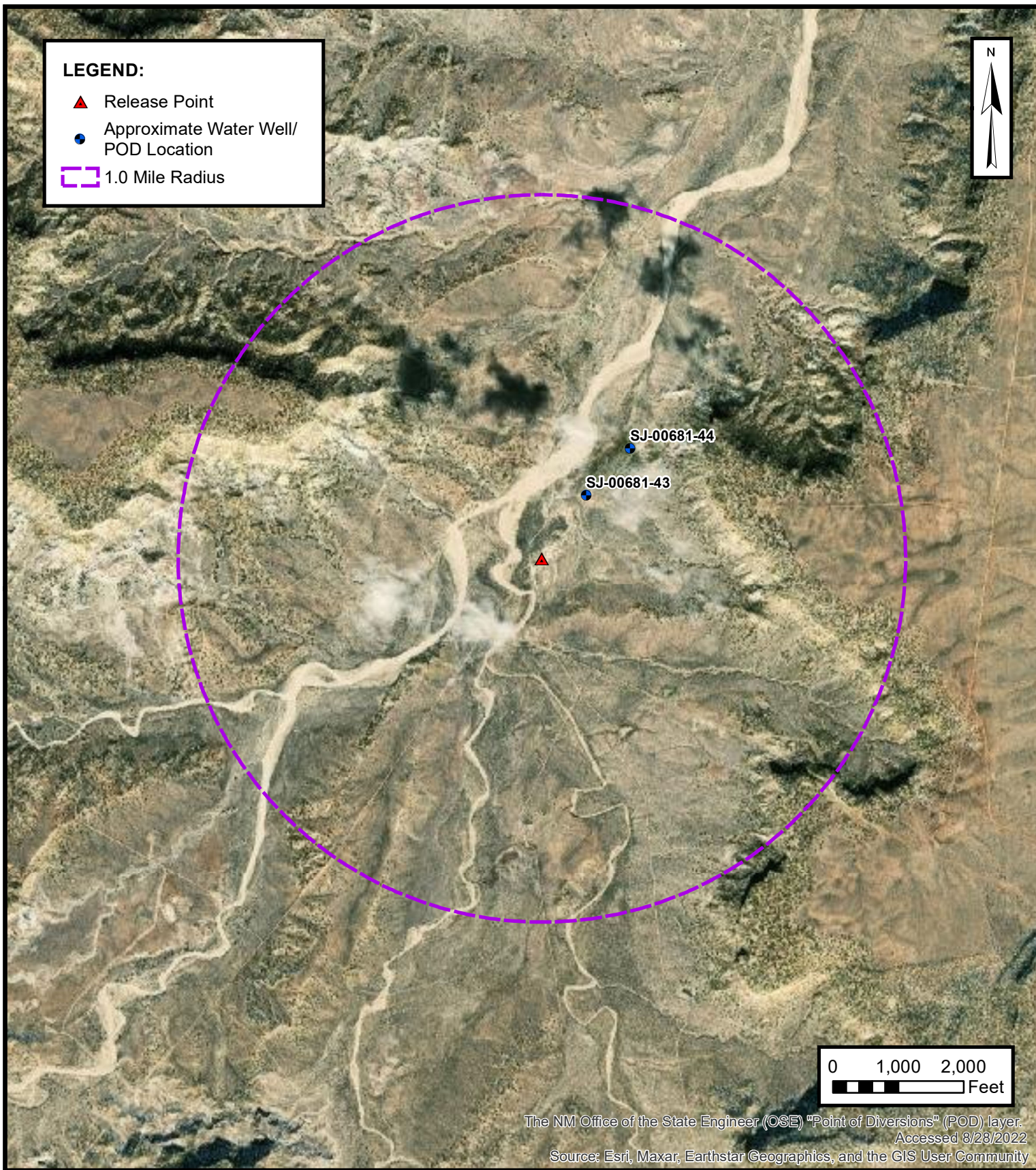
FIGURE
2





APPENDIX B

Siting Figures and Documentation

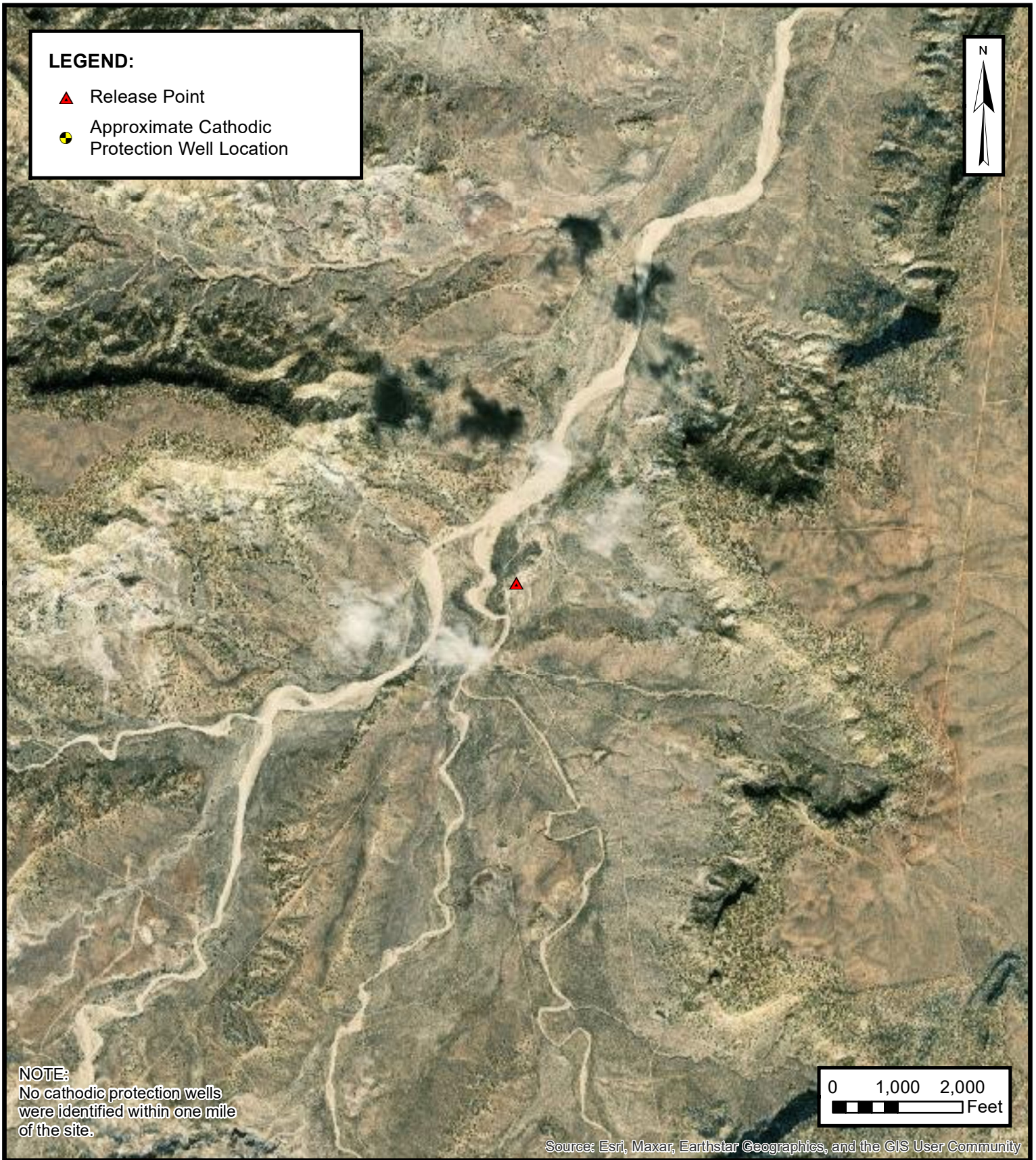


1.0 MILE RADIUS WATER WELL/ POD LOCATION MAP

ENTERPRISE FIELD SERVICES, LLC
 LARGO DISCHARGE (10/03/22)
 Unit Letter G, S17 T25N R7W, Rio Arriba County, New Mexico
 36.402249° N, 107.59339° W

PROJECT NUMBER: 05A1226216

FIGURE
A



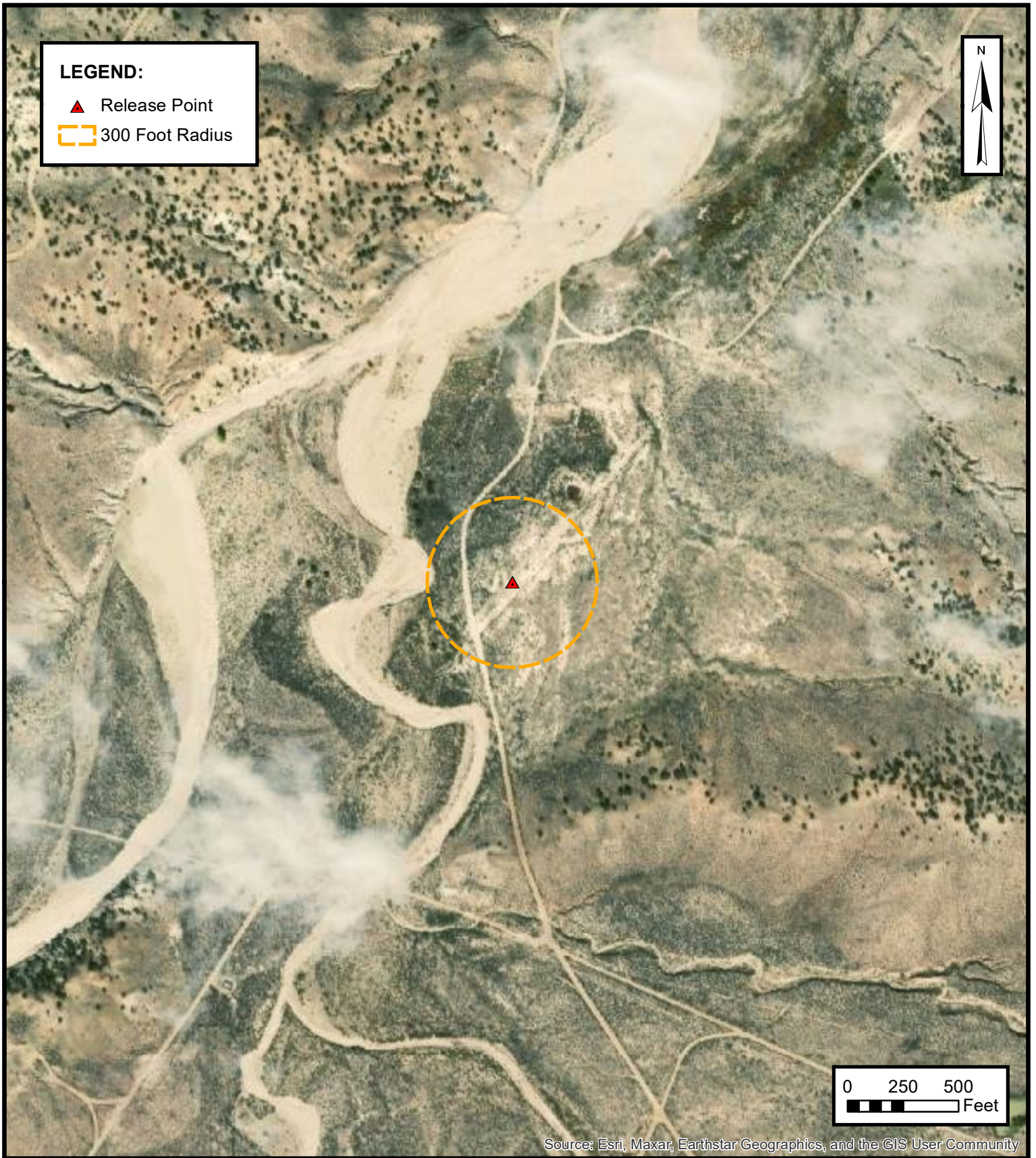
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

CATHODIC PROTECTION WELL RECORDED DEPTH TO WATER

ENTERPRISE FIELD SERVICES, LLC
 LARGO DISCHARGE (10/03/22)
 Unit Letter G, S17 T25N R7W, Rio Arriba County, New Mexico
 36.402249° N, 107.59339° W

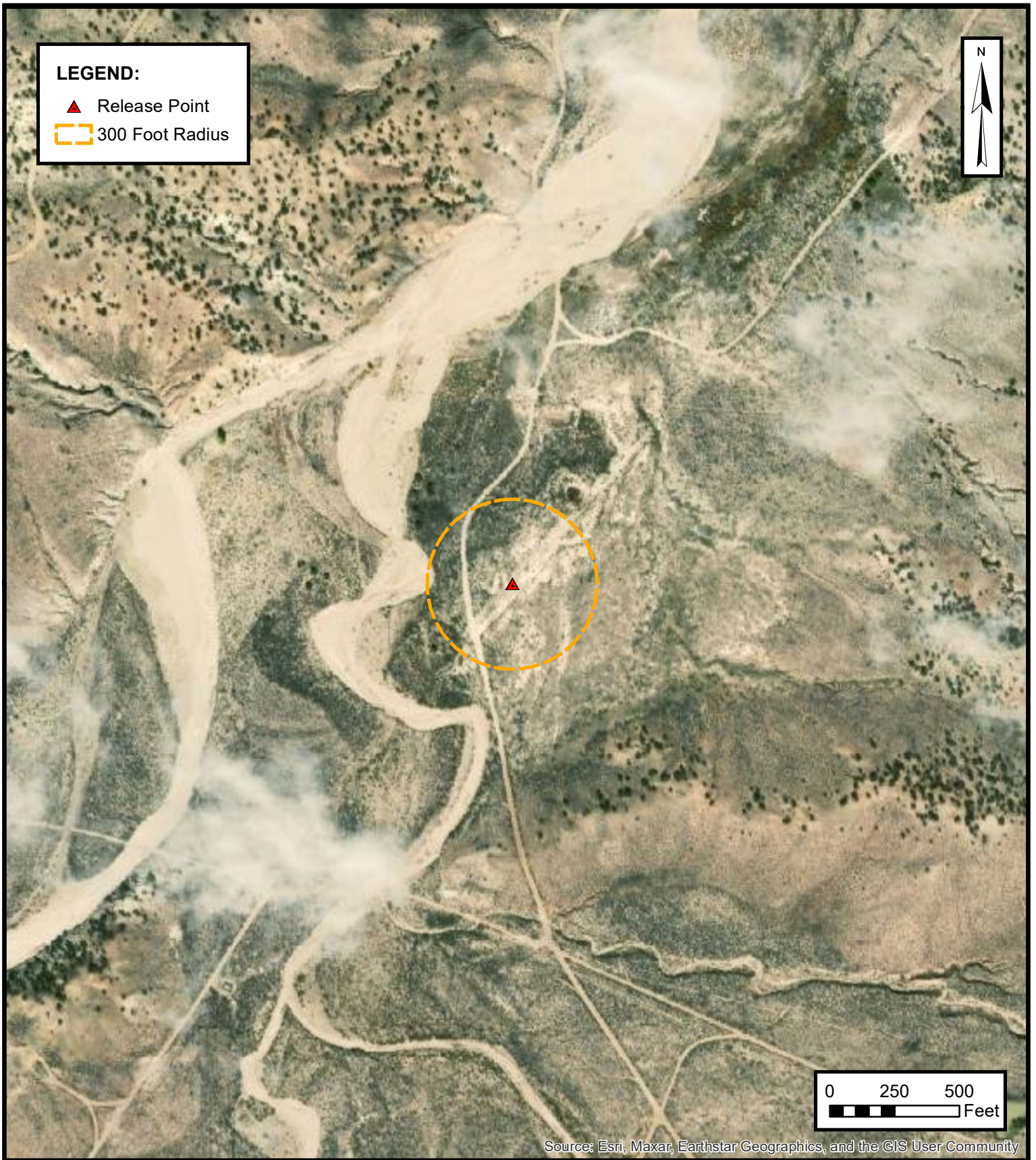
PROJECT NUMBER: 05A1226216

FIGURE B



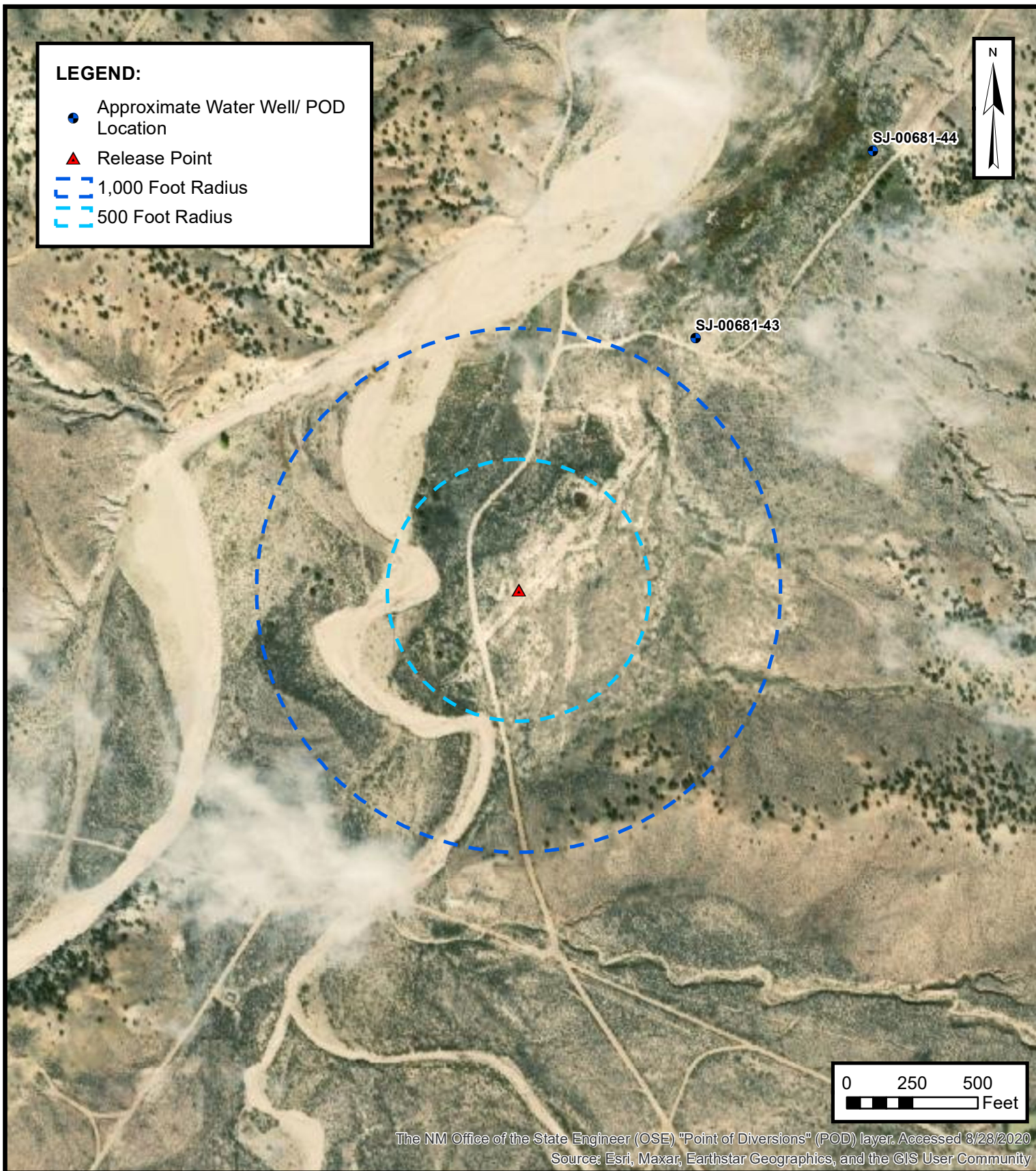
**300 FOOT RADIUS
WATERCOURSE AND DRAINAGE IDENTIFICATION**
ENTERPRISE FIELD SERVICES, LLC
LARGO DISCHARGE (10/03/22)
Unit Letter G, S17 T25N R7W, Rio Arriba County, New Mexico
36.402249° N, 107.59339° W
PROJECT NUMBER: 05A1226216

**FIGURE
C**



**300 FOOT RADIUS
OCCUPIED STRUCTURE IDENTIFICATION**
ENTERPRISE FIELD SERVICES, LLC
LARGO DISCHARGE (10/03/22)
Unit Letter G, S17 T25N R7W, Rio Arriba County, New Mexico
36.402249° N, 107.59339° W
PROJECT NUMBER: 05A1226216

**FIGURE
D**

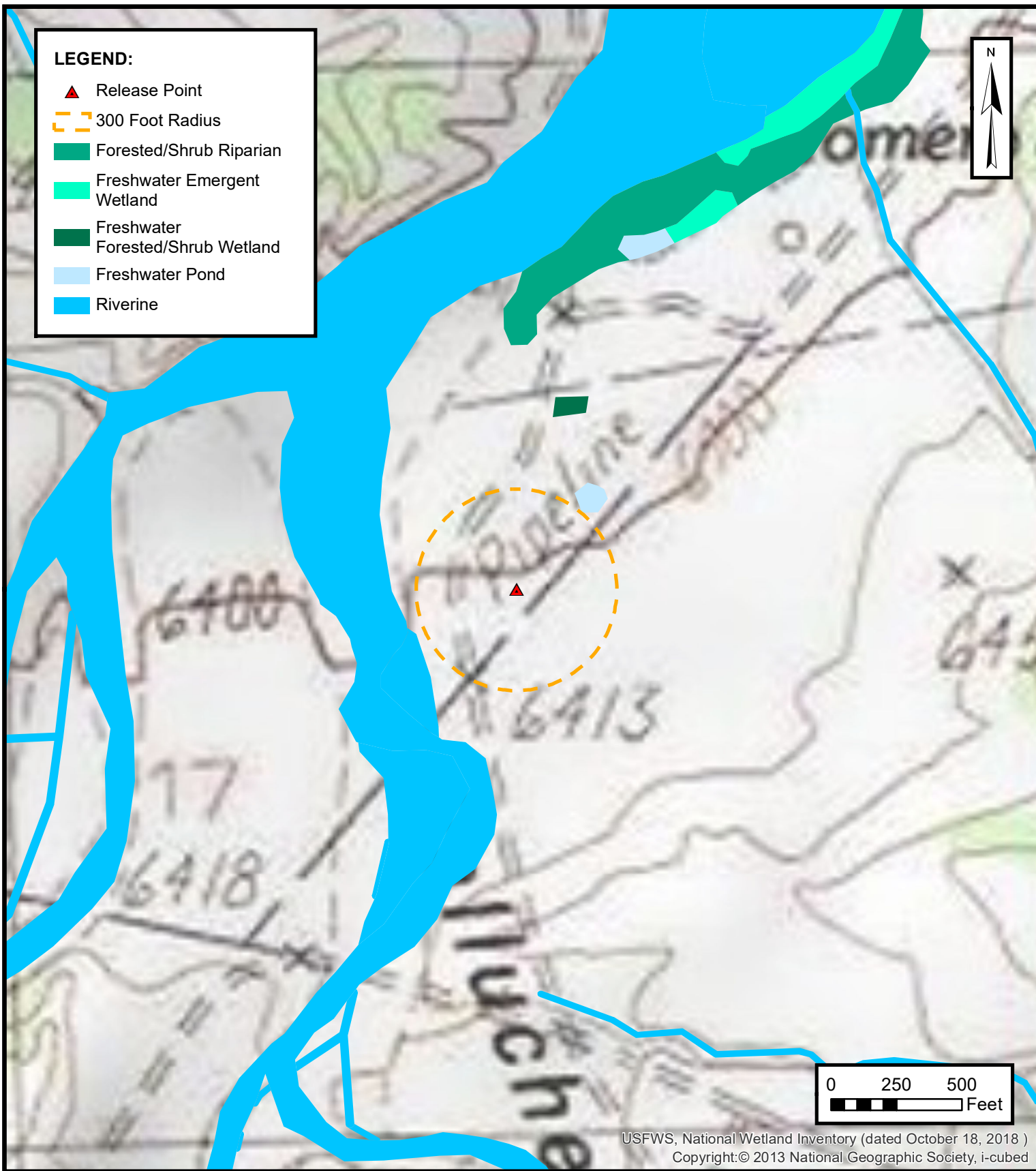


WATER WELL AND NATURAL SPRING LOCATION

ENTERPRISE FIELD SERVICES, LLC
 LARGO DISCHARGE (10/03/22)
 Unit Letter G, S17 T25N R7W, Rio Arriba County, New Mexico
 36.402249° N, 107.59339° W

PROJECT NUMBER: 05A1226216

FIGURE
E



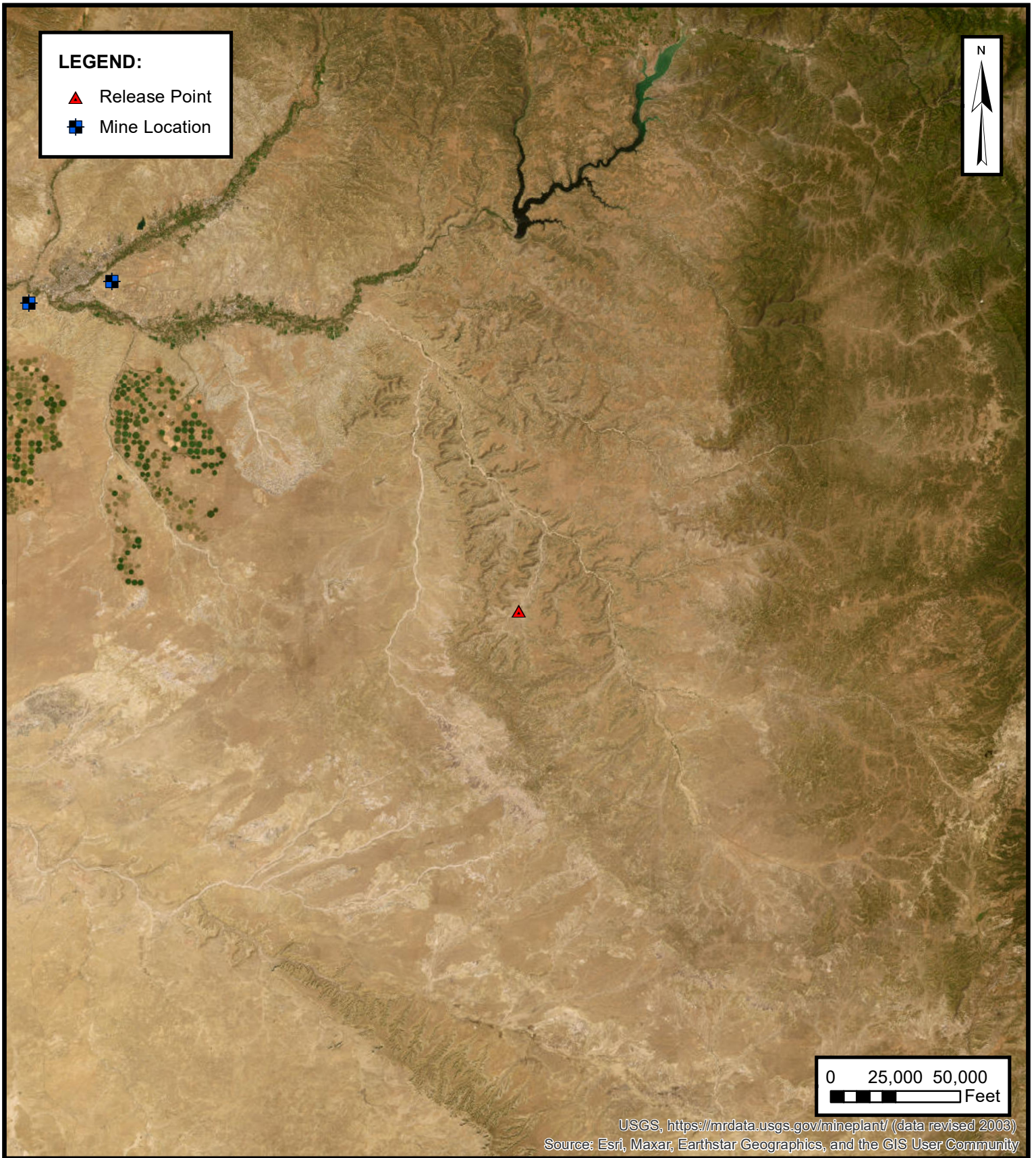
ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

WETLANDS

ENTERPRISE FIELD SERVICES, LLC
LARGO DISCHARGE (10/03/22)
Unit Letter G, S17 T25N R7W, Rio Arriba County, New Mexico
36.402249° N, 107.59339° W

PROJECT NUMBER: 05A1226216

FIGURE
F



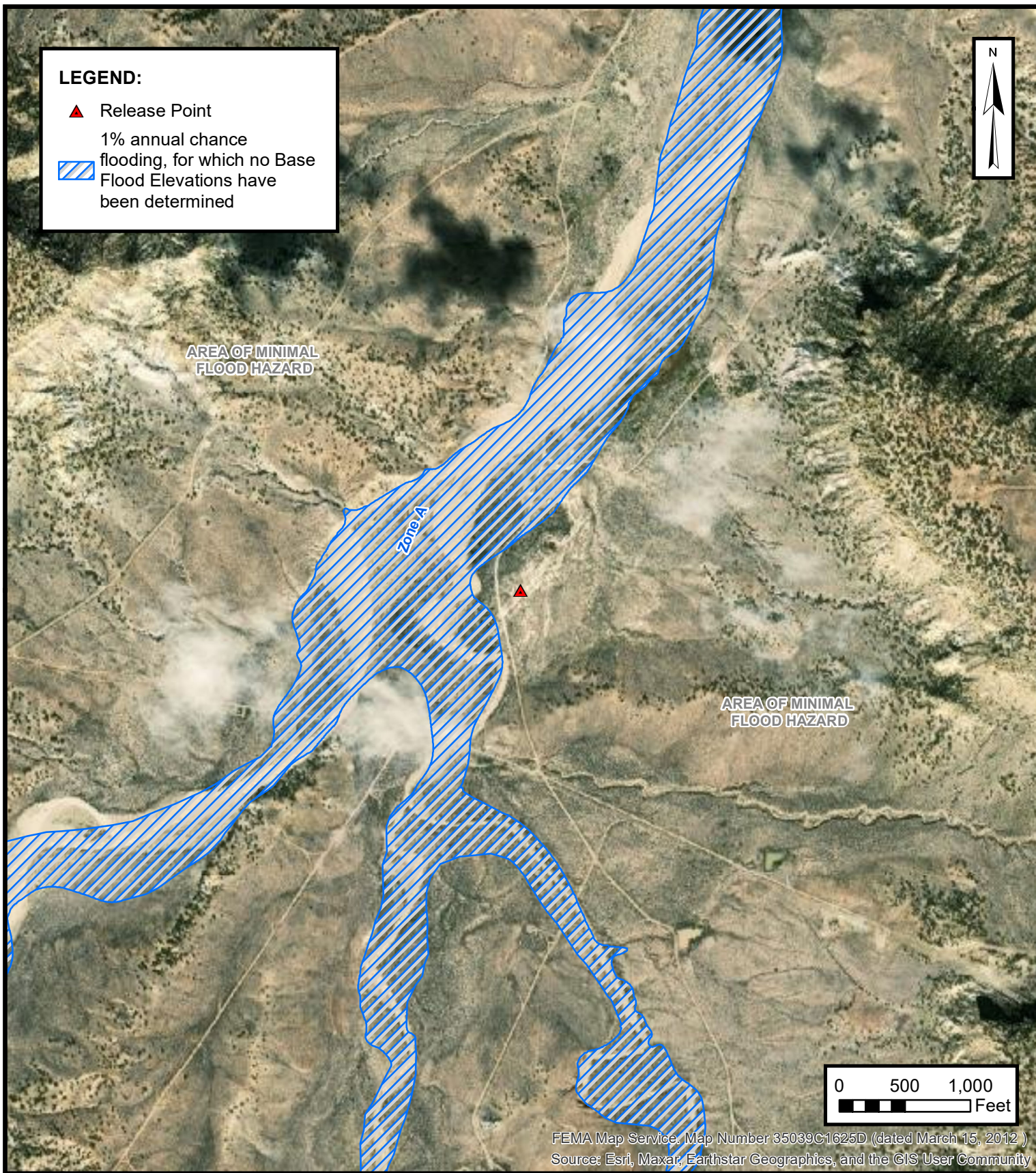
MINES, MILLS AND QUARRIES

ENTERPRISE FIELD SERVICES, LLC
LARGO DISCHARGE (10/03/22)
Unit Letter G, S17 T25N R7W, Rio Arriba County, New Mexico
36.402249° N, 107.59339° W

PROJECT NUMBER: 05A1226216

FIGURE

G



100-YEAR FLOOD PLAIN MAP

ENTERPRISE FIELD SERVICES, LLC
 LARGO DISCHARGE (10/03/22)
 Unit Letter G, S17 T25N R7W, Rio Arriba County, New Mexico
 36.402249° N, 107.59339° W

PROJECT NUMBER: 05A1226216

FIGURE

H



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

No records found.

PLSS Search:

Section(s): 17, 18, 16, 7, 8, **Township:** 25N **Range:** 07W
9, 19, 20, 21

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.

10/6/22 11:20 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



APPENDIX C

Executed C-138 Solid Waste Acceptance Form

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

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

Form C-138
Revised 08/01/11

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

97057-1125

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401
PayKey: RB21200
PM: Dwayne Dixon
AFE:N61062

2. **Originating Site:**
Largo Discharge

3. **Location of Material (Street Address, City, State or ULSTR):**
UL A Section 17 T25N R7W; 36.402249, -107.59669
Oct/Nov 2022

4. **Source and Description of Waste:**
Source: Remediation activities associated with a natural gas pipeline leak.
Description: Hydrocarbon/Condensate impacted soil associated natural gas pipeline release.
Estimated Volume 50 yd³/ bbls Known Volume (to be entered by the operator at the end of the haul) 1322/20 yd³/ bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**
I, Thomas Long *Thomas Long*, representative or authorized agent for Enterprise Products Operating do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)
 RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency Monthly Weekly Per Load
 RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)
 MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS
I, Thomas Long *Thomas Long* 10-5-2022, representative for Enterprise Products Operating authorizes Envirotech, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.
I, _____, 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: Sunland Construction**
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: _____ TITLE: _____ DATE: _____
SIGNATURE: _____ TELEPHONE NO.: _____
Surface Waste Management Facility Authorized Agent 505-632-0615



APPENDIX D

Photographic Documentation



SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Largo Discharge (10/03/22)
Ensolum Project No. 05A1226216






<p>Photograph 1</p> <p>Photograph Description: View of the in-process excavation activities.</p>	
<p>Photograph 2</p> <p>Photograph Description: View of the in-process excavation activities.</p>	
<p>Photograph 3</p> <p>Photograph Description: View of the in-process excavation activities.</p>	

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Largo Discharge (10/03/22)
Ensolum Project No. 05A1226216



<p>Photograph 4</p> <p>Photograph Description: View of the final excavation.</p>	
<p>Photograph 5</p> <p>Photograph Description: View of the scraped flow path.</p>	
<p>Photograph 6</p> <p>Photograph Description: View of the scraped flow path.</p>	

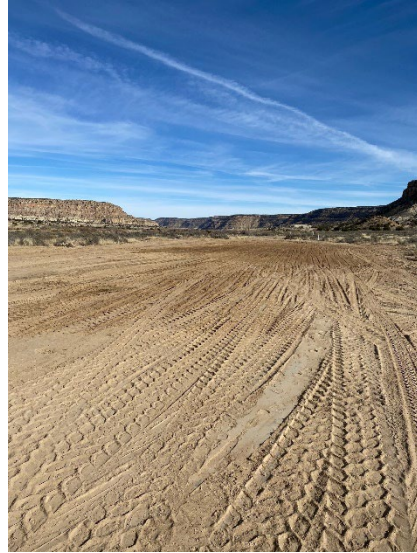
SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Largo Discharge (10/03/22)
Ensolum Project No. 05A1226216



Photograph 7

Photograph Description: View of the site after initial restoration.





APPENDIX E

Regulatory Correspondence

From: [Kyle Summers](#)
To: [Chad D"Aponti](#)
Cc: [Ranee Deechilly](#)
Subject: Fwd: [EXTERNAL] Largo Discharge - UL A Section 17 T25N R7W; 36.402249, -107.59669; Incident # nAPP2227742172
Date: Thursday, November 10, 2022 8:45:44 AM

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Thursday, November 10, 2022 9:35:24 AM
To: Long, Thomas <tjlong@eprod.com>; Ryan Joyner <rjoyner@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] Largo Discharge - UL A Section 17 T25N R7W; 36.402249, -107.59669; Incident # nAPP2227742172

[**EXTERNAL EMAIL**]

Tom,

Thank you for the notice. Your variance request specifically addressing 19.15.29.12D (1a) NMAC is approved.

If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

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

Regards

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov *NOTE NEW EMAIL ADDRESS*
<http://www.emnrd.state.nm.us/OCD/>



From: Long, Thomas <tjlong@eprod.com>
Sent: Thursday, November 10, 2022 8:33 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Ryan Joyner <rjoyner@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: FW: [EXTERNAL] Largo Discharge - UL A Section 17 T25N R7W; 36.402249, -107.59669; Incident # nAPP2227742172

Nelson/Ryan,

This email is a sample notification and variance request. Enterprise is requesting a variance for required 48 hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect partial closure samples tomorrow November 11, 2022 at the Largo Discharge excavation at 10:00 a.m. Please acknowledge acceptance of this variance request. If you have any questions, please call or email.

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



From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Thursday, October 13, 2022 12:02 PM
To: Long, Thomas <tjlong@eprod.com>; Ryan Joyner <rjoyner@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] Largo Discharge - UL A Section 17 T25N R7W; 36.402249, -107.59669; Incident # nAPP2227742172

[Use caution with links/attachments]

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Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrn.nm.gov *NOTE NEW EMAIL ADDRESS*
<http://www.emnrn.state.nm.us/OCD/>



From: Long, Thomas <tjlong@eprod.com>
Sent: Thursday, October 13, 2022 10:04 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrn.nm.gov>; Ryan Joyner <rjoyner@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: [EXTERNAL] Largo Discharge - UL A Section 17 T25N R7W; 36.402249, -107.59669; Incident # nAPP2227742172

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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



This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.

From: [Kyle Summers](#)
To: [Chad D"Aponti](#)
Cc: [Ranee Deechilly](#)
Subject: Fwd: [EXTERNAL] Largo Discharge - UL A Section 17 T25N R7W; 36.402249, -107.59669; Incident # nAPP2227742172
Date: Tuesday, November 15, 2022 11:01:45 AM

Kyle Summers
Principal
903-821-5603
Ensolum, LLC

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Tuesday, November 15, 2022 10:57:27 AM
To: Long, Thomas <tjlong@eprod.com>; Ryan Joyner <rjoyner@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] Largo Discharge - UL A Section 17 T25N R7W; 36.402249, -107.59669; Incident # nAPP2227742172

[**EXTERNAL EMAIL**]

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Regards

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Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov *NOTE NEW EMAIL ADDRESS*
<http://www.emnrd.state.nm.us/OCD/>



From: Long, Thomas <tjlong@eprod.com>
Sent: Tuesday, November 15, 2022 7:18 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Ryan Joyner <rjoyner@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] Largo Discharge - UL A Section 17 T25N R7W; 36.402249, -107.59669; Incident # nAPP2227742172

Nelson/Ryan,

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



From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Monday, November 14, 2022 10:52 AM
To: Long, Thomas <tjlong@eprod.com>; Ryan Joyner <rjoyner@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] Largo Discharge - UL A Section 17 T25N R7W; 36.402249, -107.59669; Incident # nAPP2227742172

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From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, November 14, 2022 10:00 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Ryan Joyner <rjoyner@blm.gov>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>
Subject: FW: [EXTERNAL] Largo Discharge - UL A Section 17 T25N R7W; 36.402249, -107.59669; Incident # nAPP2227742172

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APPENDIX F

Table 1 – Soil Analytical Summary



TABLE 1
Largo Discharge (10/03/22)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type	Sample Depth	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX ¹	TPH GRO	TPH DRO	TPH MRO	Total Combined TPH (GRO/DRO/MRO) ¹	Chloride
		C- Composite G - Grab	(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I)				10	NE	NE	NE	50	NE	NE	NE	100	600
Excavation Soil Samples Removed by Excavation													
S-9	11.11.22	C	0 to 13	<0.019	<0.039	<0.039	0.14	0.14	5.7	16	84	110	150
FlowPath Composite Soil Samples													
FP-1	11.14.22	C	0.25	<0.020	<0.041	<0.041	<0.082	ND	<4.1	<15	<50	ND	260
FP-2	11.14.22	C	0.25	<0.020	<0.041	<0.041	<0.082	ND	<4.1	<14	<47	ND	260
Excavation Composite Soil Samples													
PC-1	10.13.22	C	0 to 4	<0.025	<0.049	<0.049	<0.099	ND	<4.9	<15	<50	ND	300
PC-2	10.13.22	C	0 to 4	<0.025	<0.049	<0.049	<0.099	ND	<4.9	<14	<47	ND	200
S-1	11.11.22	C	0 to 13	<0.021	<0.041	<0.041	<0.083	ND	<4.1	<13	<45	ND	<61
S-2	11.11.22	C	0 to 13	<0.019	<0.038	<0.038	<0.075	ND	<3.8	<15	<49	ND	<60
S-3	11.11.22	C	0 to 13	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<14	<47	ND	<60
S-4	11.11.22	C	13	<0.013	<0.026	<0.026	<0.053	ND	<2.6	<13	<44	ND	<60
S-5	11.11.22	C	13	<0.015	<0.030	<0.030	<0.060	ND	<3.0	<11	<36	ND	<61
S-6	11.11.22	C	13	<0.014	<0.028	<0.028	<0.055	ND	<2.8	<12	<39	ND	<60
S-7	11.11.22	C	13	<0.014	<0.027	<0.027	<0.055	ND	<2.7	<13	<42	ND	<60
S-8	11.11.22	C	13	<0.013	<0.026	<0.026	<0.052	ND	<2.6	<11	<36	ND	<60
S-9a	11.15.22	C	0 to 13	<0.096	<0.19	<0.19	<0.38	ND	<19	<14	<48	ND	170
S-10	11.11.22	C	0 to 13	<0.022	<0.044	<0.044	0.11	0.11	6.1	<14	61	67	120
S-11	11.11.22	C	0 to 13	<0.018	<0.037	<0.037	<0.074	ND	<3.7	<14	<45	ND	120
S-12	11.11.22	C	0 to 13	<0.019	<0.037	<0.037	<0.075	ND	<3.7	<14	<46	ND	110
S-13	11.11.22	C	0 to 13	<0.018	<0.037	<0.037	<0.074	ND	<3.7	<14	<47	ND	120
S-14	11.14.22	C	13	0.019	<0.032	<0.032	<0.064	0.019	<3.2	<15	<49	ND	<60
S-15	11.14.22	C	13	<0.017	<0.033	<0.033	<0.066	ND	<3.3	<14	<47	ND	<60
S-16	11.14.22	C	13	<0.025	<0.050	<0.050	<0.10	ND	<3.2	<14	<46	ND	<60
S-17	11.14.22	C	13	<0.023	<0.046	<0.046	<0.092	ND	<4.6	<15	<49	ND	<59
S-18	11.14.22	C	0 to 13	<0.028	<0.057	<0.057	<0.11	ND	<5.7	<15	<50	ND	64
S-19	11.14.22	C	0 to 13	<0.020	<0.039	<0.039	<0.079	ND	<3.9	<14	<47	ND	65



TABLE 1
Largo Discharge (10/03/22)
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		C- Composite G - Grab	(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I)				10	NE	NE	NE	50	NE	NE	NE	100	600
S-20	11.14.22	C	0 to 13	<0.019	<0.038	<0.038	<0.075	ND	<3.8	<14	<47	ND	<59
S-21	11.14.22	C	0 to 13	<0.018	<0.036	<0.036	<0.073	ND	<3.6	<14	<47	ND	<60
S-22	11.14.22	C	0 to 13	<0.018	<0.035	<0.035	<0.071	ND	<3.5	<13	<43	ND	140
S-23	11.14.22	C	0 to 13	<0.019	<0.038	<0.038	<0.077	ND	<3.8	<14	<48	ND	130

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

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

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

NA = Not Analyzed

NE = Not established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

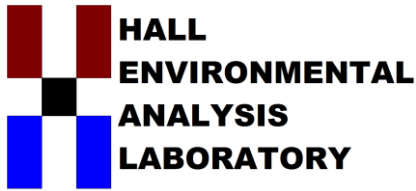
DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics



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: www.hallenvironmental.com

November 22, 2022

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

RE: Largo Discharge 10 3

OrderNo.: 2210702

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/14/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued October 20, 2022.

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. 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. All samples are reported as received unless otherwise indicated.

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 positioned above the typed name.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2210702**

Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: PC-1

Project: Largo Discharge 10 3

Collection Date: 10/13/2022 9:00:00 AM

Lab ID: 2210702-001

Matrix: SOIL

Received Date: 10/14/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	300	59		mg/Kg	20	10/18/2022 12:39:02 AM	70846
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/18/2022 3:45:11 PM	70899
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/18/2022 3:45:11 PM	70899
Surr: DNOP	103	21-129		%Rec	1	10/18/2022 3:45:11 PM	70899
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/17/2022 9:53:19 AM	70835
Surr: BFB	87.8	37.7-212		%Rec	1	10/17/2022 9:53:19 AM	70835
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/17/2022 9:53:19 AM	70835
Toluene	ND	0.049		mg/Kg	1	10/17/2022 9:53:19 AM	70835
Ethylbenzene	ND	0.049		mg/Kg	1	10/17/2022 9:53:19 AM	70835
Xylenes, Total	ND	0.099		mg/Kg	1	10/17/2022 9:53:19 AM	70835
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	10/17/2022 9:53:19 AM	70835

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2210702**

Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: PC-2

Project: Largo Discharge 10 3

Collection Date: 10/13/2022 9:05:00 AM

Lab ID: 2210702-002

Matrix: SOIL

Received Date: 10/14/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	200	60		mg/Kg	20	10/18/2022 1:16:16 AM	70846
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/18/2022 3:58:33 PM	70899
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/18/2022 3:58:33 PM	70899
Surr: DNOP	101	21-129		%Rec	1	10/18/2022 3:58:33 PM	70899
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/17/2022 10:16:44 AM	70835
Surr: BFB	86.8	37.7-212		%Rec	1	10/17/2022 10:16:44 AM	70835
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/17/2022 10:16:44 AM	70835
Toluene	ND	0.049		mg/Kg	1	10/17/2022 10:16:44 AM	70835
Ethylbenzene	ND	0.049		mg/Kg	1	10/17/2022 10:16:44 AM	70835
Xylenes, Total	ND	0.099		mg/Kg	1	10/17/2022 10:16:44 AM	70835
Surr: 4-Bromofluorobenzene	93.5	70-130		%Rec	1	10/17/2022 10:16:44 AM	70835

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2210702

22-Nov-22

Client: ENSOLUM
Project: Largo Discharge 10 3

Sample ID: MB-70846	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 70846	RunNo: 91834								
Prep Date: 10/14/2022	Analysis Date: 10/14/2022	SeqNo: 3293127	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70846	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 70846	RunNo: 91834								
Prep Date: 10/14/2022	Analysis Date: 10/14/2022	SeqNo: 3293128	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.1	90	110			

Sample ID: MB-70846	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 70846	RunNo: 91958								
Prep Date: 10/14/2022	Analysis Date: 10/20/2022	SeqNo: 3299492	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70846	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 70846	RunNo: 91958								
Prep Date: 10/14/2022	Analysis Date: 10/20/2022	SeqNo: 3299493	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.8	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2210702

22-Nov-22

Client: ENSOLUM
Project: Largo Discharge 10 3

Sample ID: MB-70899	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 70899	RunNo: 91882								
Prep Date: 10/18/2022	Analysis Date: 10/18/2022	SeqNo: 3295054	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.0	21	129			

Sample ID: LCS-70899	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 70899	RunNo: 91882								
Prep Date: 10/18/2022	Analysis Date: 10/18/2022	SeqNo: 3295055	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	15	50.00	0	101	64.4	127			
Surr: DNOP	4.9		5.000		97.8	21	129			

Sample ID: 2210702-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PC-1	Batch ID: 70899	RunNo: 91882								
Prep Date: 10/18/2022	Analysis Date: 10/18/2022	SeqNo: 3296161	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	14	47.17	0	95.2	36.1	154			
Surr: DNOP	4.7		4.717		98.9	21	129			

Sample ID: 2210702-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PC-1	Batch ID: 70899	RunNo: 91882								
Prep Date: 10/18/2022	Analysis Date: 10/18/2022	SeqNo: 3296162	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	14	47.57	0	101	36.1	154	6.40	33.9	
Surr: DNOP	4.8		4.757		102	21	129	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2210702

22-Nov-22

Client: ENSOLUM

Project: Largo Discharge 10 3

Sample ID: mb-70835	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 70835	RunNo: 91849								
Prep Date: 10/14/2022	Analysis Date: 10/17/2022	SeqNo: 3293582	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	860		1000		86.0	37.7	212			

Sample ID: lcs-70835	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 70835	RunNo: 91849								
Prep Date: 10/14/2022	Analysis Date: 10/17/2022	SeqNo: 3293583	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	86.6	72.3	137			
Surr: BFB	1800		1000		181	37.7	212			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2210702

22-Nov-22

Client: ENSOLUM
Project: Largo Discharge 10 3

Sample ID: mb-70835	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 70835		RunNo: 91849							
Prep Date: 10/14/2022	Analysis Date: 10/17/2022		SeqNo: 3293628		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	0.94		1.000		94.2	70	130			

Sample ID: LCS-70835	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 70835		RunNo: 91849							
Prep Date: 10/14/2022	Analysis Date: 10/17/2022		SeqNo: 3293629		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	92.1	80	120			
Toluene	0.94	0.050	1.000	0	93.9	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.7	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.4	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- 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: www.hallenvironmental.com

Sample Log-In Check List

Client Name: ENSOLUM Work Order Number: 2210702 RcptNo: 1

Received By: Tracy Casarrubias 10/14/2022 7:15:00 AM

Completed By: Tracy Casarrubias 10/14/2022 7:50:46 AM

Reviewed By: See 10/14/22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: KPA 10.14.22

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Rows 1-4.

Chain-of-Custody Record

Client: Enselom

Mailing Address: 606 S Rio Grande

Suit A 87410

Phone #:

email or Fax#:

QA/QC Package:

Standard

Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC

Other

EDD (Type)

Turn-Around Time:

Standard

Rush 10-18-22

Project Name:

Largo Discharge 10-3

Project #:

Project Manager:

K Summers

Sampler: C D Aponti

On Ice: Yes No

of Coolers: 3

Cooler Temp (including CF): See Remarks (°C)

Container Type and #

Preservative Type

HEAL No.

1 462

1 462

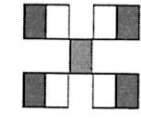
1 462

2210702

Pool

Pool

Pool



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

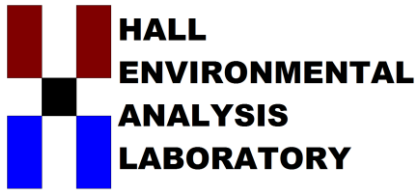
4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

<input checked="" type="checkbox"/> BTEX / MTBE / TPH's (8021)	<input checked="" type="checkbox"/>
TPH:8015D(GRO / DRO / MRO)	<input checked="" type="checkbox"/>
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
C1, B1, NO3, NO2, PO4, SO4	<input checked="" type="checkbox"/>
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Received by:	Date	Time	Remarks:
10-13	900	S	S-1	1 462	Pool	2210702	<u>Chris Wat</u>	10/13/22	1400	<u>Tom Long</u>
10-13	905	S	S-2	1 462	Pool	002	<u>Chris Wat</u>	10/13/22	7:15	<u>RB21200</u>



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

December 02, 2022

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Largo Discharge

OrderNo.: 2211747

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 13 sample(s) on 11/12/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued November 16, 2022.

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. 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. All samples are reported as received unless otherwise indicated.

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 in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2211747**

Date Reported: **12/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-1

Project: Largo Discharge

Collection Date: 11/11/2022 10:00:00 AM

Lab ID: 2211747-001

Matrix: MEOH (SOIL)

Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	61		mg/Kg	20	11/14/2022 10:45:57 AM	71467
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	11/14/2022 11:28:20 AM	71461
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/14/2022 11:28:20 AM	71461
Surr: DNOP	96.8	21-129		%Rec	1	11/14/2022 11:28:20 AM	71461
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	11/14/2022 10:10:00 AM	G92559
Surr: BFB	86.4	37.7-212		%Rec	1	11/14/2022 10:10:00 AM	G92559
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	11/14/2022 10:10:00 AM	B92559
Toluene	ND	0.041		mg/Kg	1	11/14/2022 10:10:00 AM	B92559
Ethylbenzene	ND	0.041		mg/Kg	1	11/14/2022 10:10:00 AM	B92559
Xylenes, Total	ND	0.083		mg/Kg	1	11/14/2022 10:10:00 AM	B92559
Surr: 4-Bromofluorobenzene	89.3	70-130		%Rec	1	11/14/2022 10:10:00 AM	B92559

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211747**

Date Reported: **12/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-2

Project: Largo Discharge

Collection Date: 11/11/2022 10:05:00 AM

Lab ID: 2211747-002

Matrix: MEOH (SOIL)

Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	60		mg/Kg	20	11/14/2022 10:58:22 AM	71467
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/14/2022 11:38:44 AM	71461
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/14/2022 11:38:44 AM	71461
Surr: DNOP	98.0	21-129		%Rec	1	11/14/2022 11:38:44 AM	71461
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	11/14/2022 10:33:44 AM	G92559
Surr: BFB	91.0	37.7-212		%Rec	1	11/14/2022 10:33:44 AM	G92559
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	11/14/2022 10:33:44 AM	B92559
Toluene	ND	0.038		mg/Kg	1	11/14/2022 10:33:44 AM	B92559
Ethylbenzene	ND	0.038		mg/Kg	1	11/14/2022 10:33:44 AM	B92559
Xylenes, Total	ND	0.075		mg/Kg	1	11/14/2022 10:33:44 AM	B92559
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	11/14/2022 10:33:44 AM	B92559

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211747**

Date Reported: **12/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-3

Project: Largo Discharge

Collection Date: 11/11/2022 10:10:00 AM

Lab ID: 2211747-003

Matrix: MEOH (SOIL)

Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	60		mg/Kg	20	11/14/2022 11:10:47 AM	71467
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/14/2022 11:49:09 AM	71461
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/14/2022 11:49:09 AM	71461
Surr: DNOP	97.9	21-129		%Rec	1	11/14/2022 11:49:09 AM	71461
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	11/14/2022 10:57:25 AM	G92559
Surr: BFB	90.0	37.7-212		%Rec	1	11/14/2022 10:57:25 AM	G92559
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	11/14/2022 10:57:25 AM	B92559
Toluene	ND	0.038		mg/Kg	1	11/14/2022 10:57:25 AM	B92559
Ethylbenzene	ND	0.038		mg/Kg	1	11/14/2022 10:57:25 AM	B92559
Xylenes, Total	ND	0.076		mg/Kg	1	11/14/2022 10:57:25 AM	B92559
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	11/14/2022 10:57:25 AM	B92559

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211747**

Date Reported: **12/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-4

Project: Largo Discharge

Collection Date: 11/11/2022 10:15:00 AM

Lab ID: 2211747-004

Matrix: MEOH (SOIL)

Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	60		mg/Kg	20	11/14/2022 11:23:12 AM	71467
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	11/14/2022 11:59:35 AM	71461
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	11/14/2022 11:59:35 AM	71461
Surr: DNOP	98.0	21-129		%Rec	1	11/14/2022 11:59:35 AM	71461
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	2.6		mg/Kg	1	11/14/2022 11:21:07 AM	G92559
Surr: BFB	89.2	37.7-212		%Rec	1	11/14/2022 11:21:07 AM	G92559
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.013		mg/Kg	1	11/14/2022 11:21:07 AM	B92559
Toluene	ND	0.026		mg/Kg	1	11/14/2022 11:21:07 AM	B92559
Ethylbenzene	ND	0.026		mg/Kg	1	11/14/2022 11:21:07 AM	B92559
Xylenes, Total	ND	0.053		mg/Kg	1	11/14/2022 11:21:07 AM	B92559
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	11/14/2022 11:21:07 AM	B92559

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211747**

Date Reported: **12/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-5

Project: Largo Discharge

Collection Date: 11/11/2022 10:20:00 AM

Lab ID: 2211747-005

Matrix: MEOH (SOIL)

Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	61		mg/Kg	20	11/14/2022 11:35:36 AM	71467
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	11		mg/Kg	1	11/14/2022 12:20:28 PM	71461
Motor Oil Range Organics (MRO)	ND	36		mg/Kg	1	11/14/2022 12:20:28 PM	71461
Surr: DNOP	102	21-129		%Rec	1	11/14/2022 12:20:28 PM	71461
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	11/14/2022 11:44:51 AM	G92559
Surr: BFB	92.3	37.7-212		%Rec	1	11/14/2022 11:44:51 AM	G92559
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.015		mg/Kg	1	11/14/2022 11:44:51 AM	B92559
Toluene	ND	0.030		mg/Kg	1	11/14/2022 11:44:51 AM	B92559
Ethylbenzene	ND	0.030		mg/Kg	1	11/14/2022 11:44:51 AM	B92559
Xylenes, Total	ND	0.060		mg/Kg	1	11/14/2022 11:44:51 AM	B92559
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	11/14/2022 11:44:51 AM	B92559

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211747**

Date Reported: **12/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-6

Project: Largo Discharge

Collection Date: 11/11/2022 10:25:00 AM

Lab ID: 2211747-006

Matrix: MEOH (SOIL)

Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	60		mg/Kg	20	11/14/2022 11:48:00 AM	71467
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	12		mg/Kg	1	11/14/2022 12:30:56 PM	71461
Motor Oil Range Organics (MRO)	ND	39		mg/Kg	1	11/14/2022 12:30:56 PM	71461
Surr: DNOP	100	21-129		%Rec	1	11/14/2022 12:30:56 PM	71461
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	2.8		mg/Kg	1	11/14/2022 12:08:33 PM	G92559
Surr: BFB	92.2	37.7-212		%Rec	1	11/14/2022 12:08:33 PM	G92559
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.014		mg/Kg	1	11/14/2022 12:08:33 PM	B92559
Toluene	ND	0.028		mg/Kg	1	11/14/2022 12:08:33 PM	B92559
Ethylbenzene	ND	0.028		mg/Kg	1	11/14/2022 12:08:33 PM	B92559
Xylenes, Total	ND	0.055		mg/Kg	1	11/14/2022 12:08:33 PM	B92559
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	11/14/2022 12:08:33 PM	B92559

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211747**

Date Reported: **12/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-7

Project: Largo Discharge

Collection Date: 11/11/2022 10:30:00 AM

Lab ID: 2211747-007

Matrix: MEOH (SOIL)

Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	60		mg/Kg	20	11/14/2022 12:25:14 PM	71467
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	11/14/2022 12:41:23 PM	71461
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	11/14/2022 12:41:23 PM	71461
Surr: DNOP	101	21-129		%Rec	1	11/14/2022 12:41:23 PM	71461
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	2.7		mg/Kg	1	11/14/2022 12:32:17 PM	G92559
Surr: BFB	90.6	37.7-212		%Rec	1	11/14/2022 12:32:17 PM	G92559
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.014		mg/Kg	1	11/14/2022 12:32:17 PM	B92559
Toluene	ND	0.027		mg/Kg	1	11/14/2022 12:32:17 PM	B92559
Ethylbenzene	ND	0.027		mg/Kg	1	11/14/2022 12:32:17 PM	B92559
Xylenes, Total	ND	0.055		mg/Kg	1	11/14/2022 12:32:17 PM	B92559
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	11/14/2022 12:32:17 PM	B92559

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211747**

Date Reported: **12/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-8

Project: Largo Discharge

Collection Date: 11/11/2022 10:35:00 AM

Lab ID: 2211747-008

Matrix: MEOH (SOIL)

Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	ND	60		mg/Kg	20	11/14/2022 12:37:39 PM	71467
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	11		mg/Kg	1	11/14/2022 12:51:52 PM	71461
Motor Oil Range Organics (MRO)	ND	36		mg/Kg	1	11/14/2022 12:51:52 PM	71461
Surr: DNOP	99.6	21-129		%Rec	1	11/14/2022 12:51:52 PM	71461
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	2.6		mg/Kg	1	11/14/2022 12:56:01 PM	G92559
Surr: BFB	89.5	37.7-212		%Rec	1	11/14/2022 12:56:01 PM	G92559
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.013		mg/Kg	1	11/14/2022 12:56:01 PM	B92559
Toluene	ND	0.026		mg/Kg	1	11/14/2022 12:56:01 PM	B92559
Ethylbenzene	ND	0.026		mg/Kg	1	11/14/2022 12:56:01 PM	B92559
Xylenes, Total	ND	0.052		mg/Kg	1	11/14/2022 12:56:01 PM	B92559
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	11/14/2022 12:56:01 PM	B92559

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211747**

Date Reported: **12/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-9

Project: Largo Discharge

Collection Date: 11/11/2022 10:40:00 AM

Lab ID: 2211747-009

Matrix: MEOH (SOIL)

Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	150	60		mg/Kg	20	11/14/2022 12:50:05 PM	71467
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	16	15		mg/Kg	1	11/14/2022 1:02:23 PM	71461
Motor Oil Range Organics (MRO)	84	49		mg/Kg	1	11/14/2022 1:02:23 PM	71461
Surr: DNOP	106	21-129		%Rec	1	11/14/2022 1:02:23 PM	71461
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	5.7	3.9		mg/Kg	1	11/14/2022 1:19:42 PM	G92559
Surr: BFB	126	37.7-212		%Rec	1	11/14/2022 1:19:42 PM	G92559
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	11/14/2022 1:19:42 PM	B92559
Toluene	ND	0.039		mg/Kg	1	11/14/2022 1:19:42 PM	B92559
Ethylbenzene	ND	0.039		mg/Kg	1	11/14/2022 1:19:42 PM	B92559
Xylenes, Total	0.14	0.077		mg/Kg	1	11/14/2022 1:19:42 PM	B92559
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	11/14/2022 1:19:42 PM	B92559

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211747**

Date Reported: **12/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-10

Project: Largo Discharge

Collection Date: 11/11/2022 10:45:00 AM

Lab ID: 2211747-010

Matrix: MEOH (SOIL)

Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	120	60		mg/Kg	20	11/14/2022 1:02:29 PM	71467
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/14/2022 1:12:55 PM	71461
Motor Oil Range Organics (MRO)	61	46		mg/Kg	1	11/14/2022 1:12:55 PM	71461
Surr: DNOP	107	21-129		%Rec	1	11/14/2022 1:12:55 PM	71461
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	6.1	4.4		mg/Kg	1	11/14/2022 1:43:26 PM	G92559
Surr: BFB	122	37.7-212		%Rec	1	11/14/2022 1:43:26 PM	G92559
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.022		mg/Kg	1	11/14/2022 1:43:26 PM	B92559
Toluene	ND	0.044		mg/Kg	1	11/14/2022 1:43:26 PM	B92559
Ethylbenzene	ND	0.044		mg/Kg	1	11/14/2022 1:43:26 PM	B92559
Xylenes, Total	0.11	0.087		mg/Kg	1	11/14/2022 1:43:26 PM	B92559
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	11/14/2022 1:43:26 PM	B92559

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211747**

Date Reported: **12/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-11

Project: Largo Discharge

Collection Date: 11/11/2022 10:50:00 AM

Lab ID: 2211747-011

Matrix: MEOH (SOIL)

Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	120	60		mg/Kg	20	11/14/2022 1:14:54 PM	71467
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/14/2022 1:23:27 PM	71461
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/14/2022 1:23:27 PM	71461
Surr: DNOP	104	21-129		%Rec	1	11/14/2022 1:23:27 PM	71461
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	11/14/2022 2:31:05 PM	G92559
Surr: BFB	90.1	37.7-212		%Rec	1	11/14/2022 2:31:05 PM	G92559
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	11/14/2022 2:31:05 PM	B92559
Toluene	ND	0.037		mg/Kg	1	11/14/2022 2:31:05 PM	B92559
Ethylbenzene	ND	0.037		mg/Kg	1	11/14/2022 2:31:05 PM	B92559
Xylenes, Total	ND	0.074		mg/Kg	1	11/14/2022 2:31:05 PM	B92559
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	11/14/2022 2:31:05 PM	B92559

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211747**

Date Reported: **12/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-12

Project: Largo Discharge

Collection Date: 11/11/2022 10:55:00 AM

Lab ID: 2211747-012

Matrix: MEOH (SOIL)

Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	110	60		mg/Kg	20	11/14/2022 1:27:18 PM	71467
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/14/2022 1:34:00 PM	71461
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/14/2022 1:34:00 PM	71461
Surr: DNOP	105	21-129		%Rec	1	11/14/2022 1:34:00 PM	71461
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	11/14/2022 2:54:51 PM	G92559
Surr: BFB	90.0	37.7-212		%Rec	1	11/14/2022 2:54:51 PM	G92559
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	11/14/2022 2:54:51 PM	B92559
Toluene	ND	0.037		mg/Kg	1	11/14/2022 2:54:51 PM	B92559
Ethylbenzene	ND	0.037		mg/Kg	1	11/14/2022 2:54:51 PM	B92559
Xylenes, Total	ND	0.075		mg/Kg	1	11/14/2022 2:54:51 PM	B92559
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	11/14/2022 2:54:51 PM	B92559

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211747**

Date Reported: **12/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-13

Project: Largo Discharge

Collection Date: 11/11/2022 11:00:00 AM

Lab ID: 2211747-013

Matrix: MEOH (SOIL)

Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	120	60		mg/Kg	20	11/14/2022 1:39:42 PM	71467
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/14/2022 1:47:49 PM	71461
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/14/2022 1:47:49 PM	71461
Surr: DNOP	105	21-129		%Rec	1	11/14/2022 1:47:49 PM	71461
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	11/14/2022 3:18:33 PM	G92559
Surr: BFB	89.5	37.7-212		%Rec	1	11/14/2022 3:18:33 PM	G92559
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	11/14/2022 3:18:33 PM	B92559
Toluene	ND	0.037		mg/Kg	1	11/14/2022 3:18:33 PM	B92559
Ethylbenzene	ND	0.037		mg/Kg	1	11/14/2022 3:18:33 PM	B92559
Xylenes, Total	ND	0.074		mg/Kg	1	11/14/2022 3:18:33 PM	B92559
Surr: 4-Bromofluorobenzene	91.9	70-130		%Rec	1	11/14/2022 3:18:33 PM	B92559

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211747

02-Dec-22

Client: ENSOLUM
Project: Largo Discharge

Sample ID: MB-71467	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 71467	RunNo: 92554								
Prep Date: 11/14/2022	Analysis Date: 11/14/2022	SeqNo: 3329199	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-71467	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 71467	RunNo: 92554								
Prep Date: 11/14/2022	Analysis Date: 11/14/2022	SeqNo: 3329200	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.5	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211747

02-Dec-22

Client: ENSOLUM
Project: Largo Discharge

Sample ID: LCS-71461	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 71461	RunNo: 92557								
Prep Date: 11/14/2022	Analysis Date: 11/14/2022	SeqNo: 3327869	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	15	50.00	0	85.4	64.4	127			
Surr: DNOP	5.0		5.000		101	21	129			

Sample ID: MB-71461	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 71461	RunNo: 92557								
Prep Date: 11/14/2022	Analysis Date: 11/14/2022	SeqNo: 3327870	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		92.6	21	129			

Sample ID: 2211747-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1	Batch ID: 71461	RunNo: 92557								
Prep Date: 11/14/2022	Analysis Date: 11/14/2022	SeqNo: 3329474	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	14	47.85	0	90.8	36.1	154			
Surr: DNOP	5.2		4.785		110	21	129			

Sample ID: 2211747-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1	Batch ID: 71461	RunNo: 92557								
Prep Date: 11/14/2022	Analysis Date: 11/14/2022	SeqNo: 3329475	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	14	46.38	0	89.6	36.1	154	4.37	33.9	
Surr: DNOP	5.0		4.638		108	21	129	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211747

02-Dec-22

Client: ENSOLUM
Project: Largo Discharge

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: G92559	RunNo: 92559								
Prep Date:	Analysis Date: 11/14/2022	SeqNo: 3328231	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	920		1000		91.8	37.7	212			

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: G92559	RunNo: 92559								
Prep Date:	Analysis Date: 11/14/2022	SeqNo: 3328232	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.6	72.3	137			
Surr: BFB	1800		1000		184	37.7	212			

Sample ID: 2211747-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-1	Batch ID: G92559	RunNo: 92559								
Prep Date:	Analysis Date: 11/14/2022	SeqNo: 3328233	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.1	20.64	0	94.3	70	130			
Surr: BFB	1500		825.8		188	37.7	212			

Sample ID: 2211747-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-1	Batch ID: G92559	RunNo: 92559								
Prep Date:	Analysis Date: 11/14/2022	SeqNo: 3328234	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.1	20.64	0	92.2	70	130	2.19	20	
Surr: BFB	1500		825.8		186	37.7	212	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211747

02-Dec-22

Client: ENSOLUM
Project: Largo Discharge

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: B92559	RunNo: 92559								
Prep Date:	Analysis Date: 11/14/2022	SeqNo: 3328265	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	0.94		1.000		93.8	70	130			

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: B92559	RunNo: 92559								
Prep Date:	Analysis Date: 11/14/2022	SeqNo: 3328266	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.5	80	120			
Toluene	0.97	0.050	1.000	0	96.6	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.8	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	70	130			

Sample ID: 2211747-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-2	Batch ID: B92559	RunNo: 92559								
Prep Date:	Analysis Date: 11/14/2022	SeqNo: 3328267	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.71	0.019	0.7547	0	93.5	68.8	120			
Toluene	0.72	0.038	0.7547	0	95.6	73.6	124			
Ethylbenzene	0.72	0.038	0.7547	0	95.7	72.7	129			
Xylenes, Total	2.2	0.075	2.264	0	96.0	75.7	126			
Surr: 4-Bromofluorobenzene	0.73		0.7547		96.9	70	130			

Sample ID: 2211747-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-2	Batch ID: B92559	RunNo: 92559								
Prep Date:	Analysis Date: 11/14/2022	SeqNo: 3328268	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.70	0.019	0.7547	0	92.2	68.8	120	1.31	20	
Toluene	0.71	0.038	0.7547	0	93.9	73.6	124	1.76	20	
Ethylbenzene	0.71	0.038	0.7547	0	94.0	72.7	129	1.76	20	
Xylenes, Total	2.1	0.075	2.264	0	94.6	75.7	126	1.44	20	
Surr: 4-Bromofluorobenzene	0.70		0.7547		92.2	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- 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: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM**

Work Order Number: **2211747**

RcptNo: **1**

Received By: **Cheyenne Cason**

11/12/2022 8:00:00 AM

Cason

Completed By: **Cheyenne Cason**

11/12/2022 8:12:37 AM

Cason

Reviewed By: *Cme*

11/12/22

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes No NA

4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA

5. Sample(s) in proper container(s)? Yes No

6. Sufficient sample volume for indicated test(s)? Yes No

7. Are samples (except VOA and ONG) properly preserved? Yes No

8. Was preservative added to bottles? Yes No NA

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA

10. Were any sample containers received broken? Yes No

11. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)

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? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: *KPA 11.12.22*

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
By Whom: _____ Via: eMail Phone Fax In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.2	Good	Yes			
2	0.9	Good	Yes			

Chain-of-Custody Record

Client: Endsolum
 Mailing Address: 666 S Rio Grande
Suite A 87410
 Phone #: _____

Turn-Around Time: 100%
 Standard Rush 11-14-22
 Project Name: Valgo Discharge
 Project #: _____

Project Manager: _____
 Sampler: K Summers
 On Ice: Yes No
 # of Coolers: 2 0.2-0-0.2
 Cooler Temp (including CF): 0.9-0-0.9 (°C)

Project Manager: _____
 Sampler: A Apant
 On Ice: Yes No
 # of Coolers: 2 0.2-0-0.2
 Cooler Temp (including CF): 0.9-0-0.9 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
11/11	1000	S	S-1	1402 Jar	Lead	224747
11/11	1005	S	S-2			
11/11	1010	S	S-3			003
11/11	1015	S	S-4			004
11/11	1020	S	S-5			005
11/11	1025	S	S-6			006
11/11	1030	S	S-7			007
11/11	1035	S	S-8			008
11/11	1040	S	S-9			009
11/11	1045	S	S-10			010
11/11	1050	S	S-11			011
11/11	1055	S	S-12			012

Date	Time	Relinquished by:	Relinquished by:
11/12	1142	<i>[Signature]</i>	<i>[Signature]</i>
11/12	1821	<i>[Signature]</i>	<i>[Signature]</i>

Received by: WAW Date: 11/12/22 Time: 1412
 Received by: Car Camber Date: 11/12/22 Time: 0800

Received by: WAW Date: 11/12/22 Time: 1412
 Received by: Car Camber Date: 11/12/22 Time: 0800



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)	<input checked="" type="checkbox"/>
TPH:8015D(GRO / DRO / MRO)	<input checked="" type="checkbox"/>
8081 Pesticides/8082 PCBs	<input checked="" type="checkbox"/>
EDB (Method 504.1)	<input checked="" type="checkbox"/>
PAHs by 8310 or 8270SIMS	<input checked="" type="checkbox"/>
RCRA 8 Metals	<input checked="" type="checkbox"/>
Cl ⁻ , Br ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , SO ₄ ²⁻	<input checked="" type="checkbox"/>
8260 (VOA)	<input checked="" type="checkbox"/>
8270 (Semi-VOA)	<input checked="" type="checkbox"/>
Total Coliform (Present/Absent)	<input checked="" type="checkbox"/>

Remarks: Tom Long
RD 21200
AFE # 10
10/22
Sam Long

Chain-of-Custody Record

Client: Ensalum Turn-Around Time: 100%

Mailing Address: 1400 S S-13 Project Name: Largo Discharge

Phone #: 11/11 1100 Project #: 1614-22

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

Accreditation: Az Compliance NELAC Other

On Ice: Yes No
of Coolers: 2 0.2-0=0.2
Cooler Temp (including CF): 0.9-0=0.9 (°C)

Container Type and # 1402 jar Preservative Type Acid HEAL No. 2211747

Date Time Matrix Sample Name
11/11 1100 S S-13

Relinquished by: [Signature] Date Time 11/11/22 1412

Relinquished by: [Signature] Date Time 11/11/22 1821

Received by: [Signature] Date Time 11/11/22 1412

Received by: [Signature] Date Time 11/12/22 0800



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

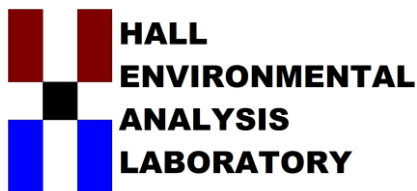
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

<input checked="" type="checkbox"/>	BTEX / MTE / TMS (8021)	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	TPH:8015D(GRO / DRO / MRO)	
<input type="checkbox"/>	8081 Pesticides/8082 PCBs	
<input type="checkbox"/>	EDB (Method 504.1)	
<input type="checkbox"/>	PAHs by 8310 or 8270SIMS	
<input type="checkbox"/>	RCRA 8 Metals	
<input type="checkbox"/>	CHL B, NO ₂ , NO ₃ , NO ₄ , SO ₄	
<input type="checkbox"/>	8260 (VOA)	
<input type="checkbox"/>	8270 (Semi-VOA)	
<input type="checkbox"/>	Total Coliform (Present/Absent)	

Remarks:

Page 2 of 2
Same Day



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

November 22, 2022

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

RE: Largo Discharge

OrderNo.: 2211793

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 12 sample(s) on 11/15/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2211793**

Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-14

Project: Largo Discharge

Collection Date: 11/14/2022 10:00:00 AM

Lab ID: 2211793-001

Matrix: MEOH (SOIL)

Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	ND	60		mg/Kg	20	11/15/2022 10:28:39 AM	71506
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/15/2022 11:21:15 AM	71501
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/15/2022 11:21:15 AM	71501
Surr: DNOP	91.8	21-129		%Rec	1	11/15/2022 11:21:15 AM	71501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	11/15/2022 9:40:44 AM	A92587
Surr: BFB	87.4	37.7-212		%Rec	1	11/15/2022 9:40:44 AM	A92587
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.019	0.016		mg/Kg	1	11/15/2022 9:40:44 AM	C92587
Toluene	ND	0.032		mg/Kg	1	11/15/2022 9:40:44 AM	C92587
Ethylbenzene	ND	0.032		mg/Kg	1	11/15/2022 9:40:44 AM	C92587
Xylenes, Total	ND	0.064		mg/Kg	1	11/15/2022 9:40:44 AM	C92587
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	11/15/2022 9:40:44 AM	C92587

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211793**

Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-15

Project: Largo Discharge

Collection Date: 11/14/2022 10:05:00 AM

Lab ID: 2211793-002

Matrix: MEOH (SOIL)

Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	ND	60		mg/Kg	20	11/15/2022 10:41:03 AM	71506
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/15/2022 11:34:38 AM	71501
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/15/2022 11:34:38 AM	71501
Surr: DNOP	91.5	21-129		%Rec	1	11/15/2022 11:34:38 AM	71501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	11/15/2022 10:04:09 AM	A92587
Surr: BFB	87.6	37.7-212		%Rec	1	11/15/2022 10:04:09 AM	A92587
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	11/15/2022 10:04:09 AM	C92587
Toluene	ND	0.033		mg/Kg	1	11/15/2022 10:04:09 AM	C92587
Ethylbenzene	ND	0.033		mg/Kg	1	11/15/2022 10:04:09 AM	C92587
Xylenes, Total	ND	0.066		mg/Kg	1	11/15/2022 10:04:09 AM	C92587
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	11/15/2022 10:04:09 AM	C92587

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211793**

Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-16

Project: Largo Discharge

Collection Date: 11/14/2022 10:10:00 AM

Lab ID: 2211793-003

Matrix: MEOH (SOIL)

Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	ND	60		mg/Kg	20	11/15/2022 10:53:28 AM	71506
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/15/2022 11:48:29 AM	71501
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/15/2022 11:48:29 AM	71501
Surr: DNOP	96.6	21-129		%Rec	1	11/15/2022 11:48:29 AM	71501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	11/15/2022 10:51:09 AM	A92587
Surr: BFB	89.5	37.7-212		%Rec	1	11/15/2022 10:51:09 AM	A92587
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	11/15/2022 3:10:47 PM	C92587
Toluene	ND	0.050		mg/Kg	1	11/15/2022 3:10:47 PM	C92587
Ethylbenzene	ND	0.050		mg/Kg	1	11/15/2022 3:10:47 PM	C92587
Xylenes, Total	ND	0.10		mg/Kg	1	11/15/2022 3:10:47 PM	C92587
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	11/15/2022 3:10:47 PM	C92587

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211793**

Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-17

Project: Largo Discharge

Collection Date: 11/14/2022 10:15:00 AM

Lab ID: 2211793-004

Matrix: MEOH (SOIL)

Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	ND	59		mg/Kg	20	11/15/2022 11:05:53 AM	71506
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/15/2022 12:01:51 PM	71501
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/15/2022 12:01:51 PM	71501
Surr: DNOP	95.5	21-129		%Rec	1	11/15/2022 12:01:51 PM	71501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/15/2022 11:14:42 AM	A92587
Surr: BFB	95.0	37.7-212		%Rec	1	11/15/2022 11:14:42 AM	A92587
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	11/15/2022 11:14:42 AM	C92587
Toluene	ND	0.046		mg/Kg	1	11/15/2022 11:14:42 AM	C92587
Ethylbenzene	ND	0.046		mg/Kg	1	11/15/2022 11:14:42 AM	C92587
Xylenes, Total	ND	0.092		mg/Kg	1	11/15/2022 11:14:42 AM	C92587
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	11/15/2022 11:14:42 AM	C92587

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211793**

Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-18

Project: Largo Discharge

Collection Date: 11/14/2022 10:20:00 AM

Lab ID: 2211793-005

Matrix: MEOH (SOIL)

Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	64	60		mg/Kg	20	11/15/2022 11:18:17 AM	71506
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/15/2022 12:15:51 PM	71501
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/15/2022 12:15:51 PM	71501
Surr: DNOP	94.8	21-129		%Rec	1	11/15/2022 12:15:51 PM	71501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.7		mg/Kg	1	11/15/2022 11:38:21 AM	A92587
Surr: BFB	90.2	37.7-212		%Rec	1	11/15/2022 11:38:21 AM	A92587
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.028		mg/Kg	1	11/15/2022 11:38:21 AM	C92587
Toluene	ND	0.057		mg/Kg	1	11/15/2022 11:38:21 AM	C92587
Ethylbenzene	ND	0.057		mg/Kg	1	11/15/2022 11:38:21 AM	C92587
Xylenes, Total	ND	0.11		mg/Kg	1	11/15/2022 11:38:21 AM	C92587
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	11/15/2022 11:38:21 AM	C92587

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211793**

Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-19

Project: Largo Discharge

Collection Date: 11/14/2022 10:25:00 AM

Lab ID: 2211793-006

Matrix: MEOH (SOIL)

Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	65	59		mg/Kg	20	11/15/2022 11:30:42 AM	71506
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/15/2022 12:29:12 PM	71501
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/15/2022 12:29:12 PM	71501
Surr: DNOP	97.7	21-129		%Rec	1	11/15/2022 12:29:12 PM	71501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	11/15/2022 12:02:00 PM	A92587
Surr: BFB	91.4	37.7-212		%Rec	1	11/15/2022 12:02:00 PM	A92587
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	11/15/2022 12:02:00 PM	C92587
Toluene	ND	0.039		mg/Kg	1	11/15/2022 12:02:00 PM	C92587
Ethylbenzene	ND	0.039		mg/Kg	1	11/15/2022 12:02:00 PM	C92587
Xylenes, Total	ND	0.079		mg/Kg	1	11/15/2022 12:02:00 PM	C92587
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	11/15/2022 12:02:00 PM	C92587

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211793**

Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-20

Project: Largo Discharge

Collection Date: 11/14/2022 10:30:00 AM

Lab ID: 2211793-007

Matrix: MEOH (SOIL)

Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	ND	59		mg/Kg	20	11/15/2022 11:43:07 AM	71506
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/15/2022 10:52:39 AM	71501
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/15/2022 10:52:39 AM	71501
Surr: DNOP	108	21-129		%Rec	1	11/15/2022 10:52:39 AM	71501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	11/15/2022 12:25:45 PM	A92587
Surr: BFB	90.1	37.7-212		%Rec	1	11/15/2022 12:25:45 PM	A92587
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	11/15/2022 12:25:45 PM	C92587
Toluene	ND	0.038		mg/Kg	1	11/15/2022 12:25:45 PM	C92587
Ethylbenzene	ND	0.038		mg/Kg	1	11/15/2022 12:25:45 PM	C92587
Xylenes, Total	ND	0.075		mg/Kg	1	11/15/2022 12:25:45 PM	C92587
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	11/15/2022 12:25:45 PM	C92587

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211793**

Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-21

Project: Largo Discharge

Collection Date: 11/14/2022 10:35:00 AM

Lab ID: 2211793-008

Matrix: MEOH (SOIL)

Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	ND	60		mg/Kg	20	11/15/2022 11:55:31 AM	71506
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/15/2022 11:03:11 AM	71501
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/15/2022 11:03:11 AM	71501
Surr: DNOP	109	21-129		%Rec	1	11/15/2022 11:03:11 AM	71501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	11/15/2022 12:49:18 PM	A92587
Surr: BFB	93.5	37.7-212		%Rec	1	11/15/2022 12:49:18 PM	A92587
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	11/15/2022 12:49:18 PM	C92587
Toluene	ND	0.036		mg/Kg	1	11/15/2022 12:49:18 PM	C92587
Ethylbenzene	ND	0.036		mg/Kg	1	11/15/2022 12:49:18 PM	C92587
Xylenes, Total	ND	0.073		mg/Kg	1	11/15/2022 12:49:18 PM	C92587
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	11/15/2022 12:49:18 PM	C92587

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211793**

Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-22

Project: Largo Discharge

Collection Date: 11/14/2022 10:40:00 AM

Lab ID: 2211793-009

Matrix: MEOH (SOIL)

Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	140	60		mg/Kg	20	11/15/2022 12:32:45 PM	71506
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	11/15/2022 11:13:43 AM	71501
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	11/15/2022 11:13:43 AM	71501
Surr: DNOP	109	21-129		%Rec	1	11/15/2022 11:13:43 AM	71501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	11/15/2022 1:13:08 PM	A92587
Surr: BFB	92.3	37.7-212		%Rec	1	11/15/2022 1:13:08 PM	A92587
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	11/15/2022 1:13:08 PM	C92587
Toluene	ND	0.035		mg/Kg	1	11/15/2022 1:13:08 PM	C92587
Ethylbenzene	ND	0.035		mg/Kg	1	11/15/2022 1:13:08 PM	C92587
Xylenes, Total	ND	0.071		mg/Kg	1	11/15/2022 1:13:08 PM	C92587
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	11/15/2022 1:13:08 PM	C92587

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211793**

Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-23

Project: Largo Discharge

Collection Date: 11/14/2022 10:45:00 AM

Lab ID: 2211793-010

Matrix: MEOH (SOIL)

Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	130	60		mg/Kg	20	11/15/2022 12:45:10 PM	71506
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/15/2022 11:24:16 AM	71501
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/15/2022 11:24:16 AM	71501
Surr: DNOP	109	21-129		%Rec	1	11/15/2022 11:24:16 AM	71501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	11/15/2022 2:00:36 PM	A92587
Surr: BFB	92.3	37.7-212		%Rec	1	11/15/2022 2:00:36 PM	A92587
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	11/15/2022 2:00:36 PM	C92587
Toluene	ND	0.038		mg/Kg	1	11/15/2022 2:00:36 PM	C92587
Ethylbenzene	ND	0.038		mg/Kg	1	11/15/2022 2:00:36 PM	C92587
Xylenes, Total	ND	0.077		mg/Kg	1	11/15/2022 2:00:36 PM	C92587
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	11/15/2022 2:00:36 PM	C92587

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211793**

Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-1

Project: Largo Discharge

Collection Date: 11/14/2022 10:50:00 AM

Lab ID: 2211793-011

Matrix: MEOH (SOIL)

Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	260	60		mg/Kg	20	11/15/2022 12:57:35 PM	71506
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/15/2022 11:34:50 AM	71501
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/15/2022 11:34:50 AM	71501
Surr: DNOP	110	21-129		%Rec	1	11/15/2022 11:34:50 AM	71501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	11/15/2022 2:24:05 PM	A92587
Surr: BFB	91.6	37.7-212		%Rec	1	11/15/2022 2:24:05 PM	A92587
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	11/15/2022 2:24:05 PM	C92587
Toluene	ND	0.041		mg/Kg	1	11/15/2022 2:24:05 PM	C92587
Ethylbenzene	ND	0.041		mg/Kg	1	11/15/2022 2:24:05 PM	C92587
Xylenes, Total	ND	0.082		mg/Kg	1	11/15/2022 2:24:05 PM	C92587
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	11/15/2022 2:24:05 PM	C92587

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order **2211793**

Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-2

Project: Largo Discharge

Collection Date: 11/14/2022 10:55:00 AM

Lab ID: 2211793-012

Matrix: MEOH (SOIL)

Received Date: 11/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	260	60		mg/Kg	20	11/15/2022 1:10:00 PM	71506
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/15/2022 11:45:23 AM	71501
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/15/2022 11:45:23 AM	71501
Surr: DNOP	113	21-129		%Rec	1	11/15/2022 11:45:23 AM	71501
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	11/15/2022 2:47:34 PM	A92587
Surr: BFB	92.5	37.7-212		%Rec	1	11/15/2022 2:47:34 PM	A92587
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	11/15/2022 2:47:34 PM	C92587
Toluene	ND	0.041		mg/Kg	1	11/15/2022 2:47:34 PM	C92587
Ethylbenzene	ND	0.041		mg/Kg	1	11/15/2022 2:47:34 PM	C92587
Xylenes, Total	ND	0.082		mg/Kg	1	11/15/2022 2:47:34 PM	C92587
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	11/15/2022 2:47:34 PM	C92587

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211793

22-Nov-22

Client: ENSOLUM
Project: Largo Discharge

Sample ID: MB-71506	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 71506	RunNo: 92584								
Prep Date: 11/15/2022	Analysis Date: 11/15/2022	SeqNo: 3331205	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-71506	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 71506	RunNo: 92584								
Prep Date: 11/15/2022	Analysis Date: 11/15/2022	SeqNo: 3331206	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.6	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211793

22-Nov-22

Client: ENSOLUM
Project: Largo Discharge

Sample ID: MB-71501	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 71501	RunNo: 92578								
Prep Date: 11/15/2022	Analysis Date: 11/15/2022	SeqNo: 3329420	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.0	21	129			

Sample ID: LCS-71501	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 71501	RunNo: 92578								
Prep Date: 11/15/2022	Analysis Date: 11/15/2022	SeqNo: 3329421	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	15	50.00	0	102	64.4	127			
Surr: DNOP	4.8		5.000		96.1	21	129			

Sample ID: MB-71492	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 71492	RunNo: 92578								
Prep Date: 11/14/2022	Analysis Date: 11/15/2022	SeqNo: 3331679	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		116	21	129			

Sample ID: LCS-71492	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 71492	RunNo: 92578								
Prep Date: 11/14/2022	Analysis Date: 11/15/2022	SeqNo: 3331680	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.0		5.000		119	21	129			

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211793

22-Nov-22

Client: ENSOLUM
Project: Largo Discharge

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: A92587		RunNo: 92587							
Prep Date:	Analysis Date: 11/15/2022		SeqNo: 3329706		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	870		1000		86.6	37.7	212			

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: A92587		RunNo: 92587							
Prep Date:	Analysis Date: 11/15/2022		SeqNo: 3329707		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.4	72.3	137			
Surr: BFB	1800		1000		178	37.7	212			

Sample ID: 2211793-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: S-14	Batch ID: A92587		RunNo: 92587							
Prep Date:	Analysis Date: 11/15/2022		SeqNo: 3329709		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	3.2	16.04	0	90.8	70	130			
Surr: BFB	1100		641.4		178	37.7	212			

Sample ID: 2211793-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: S-14	Batch ID: A92587		RunNo: 92587							
Prep Date:	Analysis Date: 11/15/2022		SeqNo: 3329710		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	3.2	16.04	0	90.8	70	130	0.0440	20	
Surr: BFB	1200		641.4		181	37.7	212	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211793

22-Nov-22

Client: ENSOLUM
Project: Largo Discharge

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: C92587	RunNo: 92587								
Prep Date:	Analysis Date: 11/15/2022	SeqNo: 3329742	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	0.92		1.000		92.2	70	130			

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: C92587	RunNo: 92587								
Prep Date:	Analysis Date: 11/15/2022	SeqNo: 3329743	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.4	80	120			
Toluene	0.96	0.050	1.000	0	96.0	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.1	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.6	70	130			

Sample ID: 2211793-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-15	Batch ID: C92587	RunNo: 92587								
Prep Date:	Analysis Date: 11/15/2022	SeqNo: 3329746	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.64	0.017	0.6609	0.01011	94.8	68.8	120			
Toluene	0.64	0.033	0.6609	0	97.0	73.6	124			
Ethylbenzene	0.64	0.033	0.6609	0	97.1	72.7	129			
Xylenes, Total	1.9	0.066	1.983	0.01335	97.0	75.7	126			
Surr: 4-Bromofluorobenzene	0.65		0.6609		97.9	70	130			

Sample ID: 2211793-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-15	Batch ID: C92587	RunNo: 92587								
Prep Date:	Analysis Date: 11/15/2022	SeqNo: 3329747	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.62	0.017	0.6609	0.01011	91.9	68.8	120	3.06	20	
Toluene	0.62	0.033	0.6609	0	93.5	73.6	124	3.68	20	
Ethylbenzene	0.62	0.033	0.6609	0	93.7	72.7	129	3.61	20	
Xylenes, Total	1.9	0.066	1.983	0.01335	93.7	75.7	126	3.51	20	
Surr: 4-Bromofluorobenzene	0.62		0.6609		94.4	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- 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: www.hallenvironmental.com

Sample Log-In Check List

Client Name: ENSOLUM Work Order Number: 2211793 RcptNo: 1

Received By: Juan Rojas 11/15/2022 7:30:00 AM [Signature]

Completed By: Cheyenne Cason 11/15/2022 8:06:03 AM [Signature]

Reviewed By: KPC 11.15.22

Chain of Custody

1. Is Chain of Custody complete? Yes [checked] No [] Not Present []

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes [checked] No [] NA []

4. Were all samples received at a temperature of >0° C to 6.0°C Yes [checked] No [] NA []

5. Sample(s) in proper container(s)? Yes [checked] No []

6. Sufficient sample volume for indicated test(s)? Yes [checked] No []

7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []

8. Was preservative added to bottles? Yes [] No [checked] NA []

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]

10. Were any sample containers received broken? Yes [] No [checked]

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes [checked] No []

12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []

13. Is it clear what analyses were requested? Yes [checked] No []

14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes [checked] No []

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: Juan 11/15/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 0.1, Good, Yes, [], [], []

Chain-of-Custody Record

Client: Ensoluna

Mailing Address: Box 5 Rio Grande

Phone #: Suite A 879110

email or Fax#:

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

Accreditation: Az Compliance NELAC Other

EDD (Type)

Turn-Around Time: 100 days

Standard Rush 11-15-02

Project Name: Largo Discharge

Project #: 11/14/02

Project Manager: K Summers

Sampler: A D Apont

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 0.1-0.2-0.1 (°C)

Container Type and #

Preservative Type

HEAL No. 2211793

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
11/14	1000	S	S-14	14oz	Lead	001
11/14	1035	S	S-15	Lead	Lead	002
11/14	1010	S	S-16	Lead	Lead	003
11/14	1015	S	S-17	Lead	Lead	004
11/14	1020	S	S-18	Lead	Lead	005
11/14	1035	S	S-19	Lead	Lead	006
11/14	1030	S	S-20	Lead	Lead	007
11/14	1035	S	S-21	Lead	Lead	008
11/14	1040	S	S-22	Lead	Lead	009
11/14	1045	S	S-23	Lead	Lead	010
11/14	1050	S	F.P.1	Lead	Lead	011
11/14	1055	S	F.P.2	Lead	Lead	012

Date: 11/14/02 Time: 1315 Relinquished by: [Signature]

Date: 11/14/02 Time: 1825 Relinquished by: [Signature]

Remarks:	Analysis Request
<p>Received by: <u>[Signature]</u> Via: <u>11/14/02</u> Date: <u>11/14/02</u> Time: <u>1315</u></p> <p>Received by: <u>[Signature]</u> Via: <u>11/15/02</u> Date: <u>11/15/02</u> Time: <u>2130</u></p> <p>Remarks: <u>Tom Long RB81206 AFEA</u></p>	<input checked="" type="checkbox"/> BTEX / MDE / TMR 's (8021)
	<input checked="" type="checkbox"/> TPH:8015D(GRO / DRO / MRO)
	<input checked="" type="checkbox"/> 8081 Pesticides/8082 PCB's
	<input checked="" type="checkbox"/> EDB (Method 504.1)
	<input checked="" type="checkbox"/> PAHs by 8310 or 8270SIMS
	<input checked="" type="checkbox"/> RCRA 8 Metals
	<input checked="" type="checkbox"/> Cl ⁻ , F ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , SO ₄ ²⁻
	<input checked="" type="checkbox"/> 8260 (VOA)
	<input checked="" type="checkbox"/> 8270 (Semi-VOA)
	<input checked="" type="checkbox"/> Total Coliform (Present/Absent)



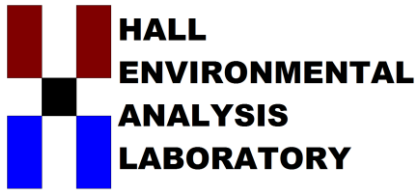
HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request



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

November 22, 2022

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

RE: Largo Discharge

OrderNo.: 2211873

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/16/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2211873**

Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-9a

Project: Largo Discharge

Collection Date: 11/15/2022 10:30:00 AM

Lab ID: 2211873-001

Matrix: SOIL

Received Date: 11/16/2022 6:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	170	60		mg/Kg	20	11/16/2022 9:37:03 AM	71532
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/16/2022 9:39:08 AM	71530
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/16/2022 9:39:08 AM	71530
Surr: DNOP	108	21-129		%Rec	1	11/16/2022 9:39:08 AM	71530
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	19		mg/Kg	5	11/16/2022 9:44:22 AM	71521
Surr: BFB	97.4	37.7-212		%Rec	5	11/16/2022 9:44:22 AM	71521
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.096		mg/Kg	5	11/16/2022 9:44:22 AM	71521
Toluene	ND	0.19		mg/Kg	5	11/16/2022 9:44:22 AM	71521
Ethylbenzene	ND	0.19		mg/Kg	5	11/16/2022 9:44:22 AM	71521
Xylenes, Total	ND	0.38		mg/Kg	5	11/16/2022 9:44:22 AM	71521
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	5	11/16/2022 9:44:22 AM	71521

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	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211873

22-Nov-22

Client: ENSOLUM
Project: Largo Discharge

Sample ID: MB-71532	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 71532	RunNo: 92613								
Prep Date: 11/16/2022	Analysis Date: 11/16/2022	SeqNo: 3332644	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-71532	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 71532	RunNo: 92613								
Prep Date: 11/16/2022	Analysis Date: 11/16/2022	SeqNo: 3332649	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.9	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211873

22-Nov-22

Client: ENSOLUM
Project: Largo Discharge

Sample ID: LCS-71530	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 71530	RunNo: 92609								
Prep Date: 11/16/2022	Analysis Date: 11/16/2022	SeqNo: 3330925	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	15	50.00	0	93.9	64.4	127			
Surr: DNOP	5.8		5.000		115	21	129			

Sample ID: MB-71513	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 71513	RunNo: 92609								
Prep Date: 11/15/2022	Analysis Date: 11/16/2022	SeqNo: 3330926	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		107	21	129			

Sample ID: MB-71530	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 71530	RunNo: 92609								
Prep Date: 11/16/2022	Analysis Date: 11/16/2022	SeqNo: 3330927	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		98.9	21	129			

Sample ID: 2211873-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-9a	Batch ID: 71530	RunNo: 92609								
Prep Date: 11/16/2022	Analysis Date: 11/16/2022	SeqNo: 3330949	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	14	46.13	0	108	36.1	154			
Surr: DNOP	5.5		4.613		119	21	129			

Sample ID: 2211873-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-9a	Batch ID: 71530	RunNo: 92609								
Prep Date: 11/16/2022	Analysis Date: 11/16/2022	SeqNo: 3330951	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	14	47.94	0	99.7	36.1	154	4.45	33.9	
Surr: DNOP	5.5		4.794		115	21	129	0	0	

Sample ID: LCS-71513	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 71513	RunNo: 92609								
Prep Date: 11/15/2022	Analysis Date: 11/16/2022	SeqNo: 3333123	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211873

22-Nov-22

Client: ENSOLUM
Project: Largo Discharge

Sample ID: LCS-71513	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 71513	RunNo: 92609								
Prep Date: 11/15/2022	Analysis Date: 11/16/2022	SeqNo: 3333123	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.8		5.000		116	21	129			

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211873

22-Nov-22

Client: ENSOLUM
Project: Largo Discharge

Sample ID: mb-71521	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 71521	RunNo: 92616								
Prep Date: 11/15/2022	Analysis Date: 11/16/2022	SeqNo: 3332067	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.5	37.7	212			

Sample ID: lcs-71521	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 71521	RunNo: 92616								
Prep Date: 11/15/2022	Analysis Date: 11/16/2022	SeqNo: 3332068	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	72.3	137			
Surr: BFB	1900		1000		190	37.7	212			

Qualifiers:

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- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211873

22-Nov-22

Client: ENSOLUM
Project: Largo Discharge

Sample ID: mb-71521	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 71521	RunNo: 92616								
Prep Date: 11/15/2022	Analysis Date: 11/16/2022	SeqNo: 3332113	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	0.98		1.000		97.5	70	130			

Sample ID: LCS-71521	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 71521	RunNo: 92616								
Prep Date: 11/15/2022	Analysis Date: 11/16/2022	SeqNo: 3332114	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.2	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: ENSOLUM Work Order Number: 2211873 RcptNo: 1

Received By: Tracy Casarrubias 11/16/2022 6:25:00 AM

Completed By: Tracy Casarrubias 11/16/2022 6:38:18 AM

Reviewed By: JA 11/16/22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: TMC 11/16/22

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, -0.1, Good, Yes, [], [], []

Chain-of-Custody Record

Client: Enselum
 Mailing Address: 666 S Rio Grande
Suit A 87410
 Phone #: _____
 email or Fax#: _____

QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type) _____

Project Manager: K Summers
 Sampler: C. D'Apanti
 On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CF): -0.1 - 0 = -0.1 (°C)
 Container Type and # 14oz jar cool 001
 Preservative Type HEAL No. 2211873

Turn-Around Time: 100%
 Standard Rush 11-16-23
 Project Name: Largo Discharge
 Project #: _____

Relinquished by: [Signature] Date: 11/15/22 Time: 1700
 Relinquished by: [Signature] Date: 11/16/22 Time: 0:25
 Received by: [Signature] Date: 11/15/22 Time: 1700
 Received by: [Signature] Date: 11/16/22 Time: 0:25



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

Analysis Request	
BTEX / MDE / TMB's (8021)	<input checked="" type="checkbox"/>
TPH:8015D(GRO / DRO / MRO)	<input checked="" type="checkbox"/>
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	<input checked="" type="checkbox"/>
8260 (VOA)	<input checked="" type="checkbox"/>
8270 (Semi-VOA)	<input checked="" type="checkbox"/>
Total Coliform (Present/Absent)	

Remarks: Tom Long
Same Day

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 226487

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 226487
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	6/13/2023