

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	NAPP2305931418
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) nAPP2305931418
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

Location of Release Source

Latitude **36.35866** Longitude **-107.20433** (NAD 83 in decimal degrees to 5 decimal places)

Site Name Trunk 11-S	Site Type Natural Gas Gathering Pipeline
Date Release Discovered: 02/22/2023	Serial Number (if applicable): N/A

Unit Letter	Section	Township	Range	County
F	35	25N	4W	Rio Arriba

Surface Owner: State Federal Tribal Private (Name: **Jicarilla Apache Tribal**)

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): Estimated 20 BBLS	Volume Recovered (bbls): None
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf): 84 MCF	Volume Recovered (Mcf): None
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release: On February 22, 2023, Enterprise had a release of natural gas and natural gas liquids from the Trunk 11-S pipeline. The pipeline was isolated, depressurized, locked and tagged out. No fire nor injuries occurred. Release liquids flowed approximately 600 feet to the southwest entering an ephemeral wash. The final pipeline excavation dimensions measured approximately 50 feet long by 17 feet wide by 8.5 feet deep. The flow path excavation dimensions measured 100 feet long by six (6) feet wide by 2.5 feet deep. A total of 453 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm. On June 20, 2023, 300 gallons of potassium permanganate were applied to the upper flow path excavation for in-situ remediation of the residual hydrocarbons in the sandstone. On June 21, 2023, and June 22, 2024, hydro-excavation activities were performed at the at the lower pooling area at the base of the cliff. A third party closure report is included with this "Final" C-141.

Incident ID	NAPP2305931418
District RP	
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Application ID	

Closure

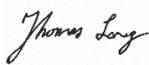
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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: 10-4-2023

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

OCD Only

Received by: Shelly Wells Date: 10/5/2023

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: _____

Printed Name: _____ Title: _____



ENSOLUM

CLOSURE REPORT

Property:

Trunk 11-S (02/22/23)
Unit Letter F, S36 T25N R4W
Rio Arriba County, New Mexico

New Mexico EMNRD OCD Incident ID No. NAPP2305931418

September 25, 2023

Ensolum Project No. 05A1226231

Prepared for:

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

Prepared by:

Raneet Deechilly
Project Manager

Kyle Summers
Senior Managing Geologist

TABLE OF CONTENTS

1.0	INTRODUCTION	1
1.1	Site Description & Background.....	1
1.2	Project Objective.....	1
2.0	CLOSURE CRITERIA	1
3.0	SOIL REMEDIATION ACTIVITIES	3
4.0	SOIL SAMPLING PROGRAM	4
5.0	SOIL LABORATORY ANALYTICAL METHODS	5
6.0	SOIL DATA EVALUATION	5
7.0	RECLAMATION AND REVEGETATION	6
8.0	FINDINGS AND RECOMMENDATION	6
9.0	STANDARDS OF CARE, LIMITATIONS, AND RELIANCE	6
9.1	Standard of Care.....	6
9.2	Limitations.....	7
9.3	Reliance.....	7

LIST OF APPENDICES

Appendix A – Figures

- Figure 1: Topographic Map
- Figure 2: Site Vicinity Map
- Figure 3A: Pipeline Excavation Map with Soil Analytical Results
- Figure 3B: Flow Path Map
- Figure 3C: Lower Flow Path Pooling Area Map

Appendix B – Siting Figures and Documentation

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

Appendix C – Executed C-138 Solid Waste Acceptance Forms

Appendix D – Photographic Documentation

Appendix E – Regulatory Correspondence

Appendix F – Table 1 - Soil Analytical Summary

Appendix G – Laboratory Data Sheets & Chain of Custody Documentation

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Trunk 11-S (02/22/23) (Site)
NM EMNRD OCD Incident ID No.	NAPP2305931418
Location:	36.35866° North, 107.20433° West Unit Letter F, Section 36, Township 25 North, Range 4 West Rio Arriba County, New Mexico (NM)
Property:	Jicarilla Apache Nation
Regulatory:	Jicarilla Apache Nation Environmental Protection Office (JAN-EPO)

On February 22, 2023, a release of natural gas and associated liquids from the Trunk 11-S pipeline was discovered at the Site. The release was characterized by discoloration of the ground surface and a flow path that traveled southwest from the release point. Enterprise verified a leak and subsequently isolated and locked the pipeline out of service. Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact on March 6, 2023.

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 under the jurisdiction of the Jicarilla Apache Nation and is subject to regulatory oversight by the JAN-EPO. Ensolum, LLC (Ensolum) deferred to the 19.15.29 New Mexico Administrative Code (NMAC), as guidance, which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action. 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). Three PODs (SJ-02516, SJ-02516 DCL, and RG-50845-POD1) with recorded depths to water were identified in the adjacent Public Land Survey System (PLSS) sections (**Figure A, Appendix B**). However, based on the available records, POD RG-50845-POD1 is actually located in a different county. The recorded depths to water for SJ-02516 and SJ-02516 DCL are 650 feet below grade surface (bgs). These two PODs are located approximately 1.2 miles southeast of the Site and are 160 feet lower in elevation than the Site.

- No cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the same PLSS section as the Site, or 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**). A first-order tributary to a United State Geological Survey (USGS) “blue line” was affected by the release.
- 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 March 6, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, OFT Construction, Inc (OFT) provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final pipeline excavation measured approximately 50 feet long and 17 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 8.5 feet bgs. The upper flow path traveled approximately 235 feet to the southwest, with a maximum width of 15 feet. The sampled lower flow path measured approximately 100 feet long with a maximum width of 6 feet, with a predominant pooling area at the base of the cliff face having a maximum width of 28 feet. The maximum depth of the flow path excavation measured approximately 2.5 feet bgs. The lithology encountered during the completion of pipeline remediation activities consisted primarily of unconsolidated silty sandy clay and weathered shale, underlain by sandstone. The lithology encountered during the flow path remediation activities primarily consisted of sandstone with a thin (0 to 2.5 feet) covering of sandy/silty topsoil (upper flow path) or sand (lower flow path).

During the remediation activities of the flow path, sandstone was encountered at, and very near, the ground surface over most of the flow path. Where possible, affected soil from the flow path was removed from the sandstone utilizing a backhoe or hand tools. Enterprise met with the JAN-EPO and reached an agreement on a variance request and alternative remediation strategy that included power-washing the impacted sandstone on the upper portion of the flow path with a solution of Simple Green® biodegradable detergent and capturing the bulk of the wash-water utilizing a vacuum truck. On May 10, 2023, the Simple Green® power-wash activity was implemented by OFT. The washed sandstone in the flow path was sampled again on May 11, 2023. Subsequent soil analytical results demonstrated that the Simple Green® power-wash was ineffective.

Enterprise again met with JAN-EPO at the Site, and they agreed to try another alternative remediation method that included the application of potassium permanganate to the upper flow path and an attempt at hydro-excavation of the lower pooling area of the flow path that is inaccessible to vehicular traffic. Potassium permanganate is one of the few chemical treatment options that are approved by the Jicarilla Apache Nation and was selected for its ability to persistently degrade (through chemical oxidation via the permanganate anion) petroleum hydrocarbon COCs. Additionally, the permanganate anion oxidation reactions are relatively safe to apply as the oxidants and byproducts are not toxic, the reactions are not highly exothermic, pH monitoring is not necessary, no catalysts are needed to instigate oxidation, and soil carbonates do not appear to interfere with the oxidation processes. On June 20, 2023, 300 gallons of potassium permanganate were applied to the upper flow path excavation by Envirotech, Inc. (Envirotech). On June 21, 2023, and June 22, 2024, Riley Industrial Services, Inc. (Riley) performed remote hydro-excavation activities at the lower pooling area.

Approximately 453 cubic yards (yd³) of petroleum hydrocarbon affected soils and 127 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm in San Juan County, NM for disposal/remediation. The executed C-138 solid waste acceptance forms are provided in **Appendix C**. The upper flow path excavation was backfilled with JAN-EPO approved native fill and was then contoured to surrounding grade. Enterprise has not yet determined a permanent repair strategy for the pipeline; therefore, a portion of the excavation has not yet been backfilled at the time this document was created. Once the permanent pipeline repairs are completed, the pipeline excavation will be backfilled with JAN-EPO approved native fill and then contoured to the surrounding grade.

Figure 3A is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the primary excavation with respect to the pipeline (**Appendix A**). **Figure 3B** is a map that depicts the approximate extent of the flow path and soil sample locations (**Appendix A**). **Figure 3C** is a map that depicts the approximate extent of the lower flow path pooling area and soil sample locations (**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 11 composite soil samples (S-1 through S-11) from the pipeline excavation, 33 flow path composite soil samples (FP-1 through FP-23, FP-2a through FP-7a, and FP-9a through FP-12a), and 4 soil boring samples (LF-1 through LF-4) 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 were utilized to obtain fresh aliquots from each area of the excavations. Regulatory correspondence is provided in **Appendix E**.

First Sampling Event

On March 31, 2023, sampling was performed at the Site. The JAN-EPO was present during sampling activities. Composite soil samples S-1 (7'-8.5'), S-2 (6'-7'), and S-3 (5'-7') were collected from the floor of the pipeline excavation. Composite soil samples S-4 (0'-8.5'), S-5 (0'-8.5'), S-6 (0'-6'), S-7 (0'-7'), S-8 (2'-5'), and S-9 (0'-7') were collected from the walls of the pipeline excavation. Composite soil samples S-10 (0'-4') and S-11 (0'-4') contained aliquots from the floor and walls of the pipeline excavation.

Second Sampling Event

On April 5, 2023, a second sampling event was performed at the Site. The JAN-EPO was present during sampling activities. Composite soil samples FP-1 (0'-0.25'), FP-2 (0'-0.25'), FP-3 (0'-0.25'), FP-4 (0'-0.25'), FP-5 (0'-0.25'), FP-6 (0'-2'), FP-7 (0'-2'), FP-8 (0'-2'), FP-9 (0'-0.25'), FP-10 (0'-0.25'), FP-11 (0'-0.25'), FP-12 (0'-0.25'), FP-13 (2.5'), FP-14 (2.5'), FP-15 (0'-2.5'), and FP-16 (0'-2.5') were collected from the flow path. Subsequent soil analytical results identified TPH concentrations that exceeded the NM EMNRD OCD closure criteria for composite soil samples FP-2 through FP-7 and FP-9 through FP-12.

Third Sampling Event

On April 6, 2023, a third sampling event was performed at the Site. The JAN-EPO was present during sampling activities. Composite soil samples FP-17 (0'-2'), FP-18 (0'-2'), and FP-19 (0'-2') were collected from the walls and floor of the excavated flow path.

Fourth Sampling Event

Subsequent to the Simple Green[®] power-wash, a fourth sampling event was performed at the Site on May 11, 2023. The JAN-EPO was notified of the sampling event although no representative was present during sampling activities. Composite soil samples FP-2a (0'-0.25'), FP-3a (0'-0.25'), FP-4a (0'-0.25'), FP-5a (0'-0.25'), FP-6a (0'-2'), FP-7a (0'-2'), FP-9a (0'-0.25'), FP-10a (0'-0.25'), FP-11a (0'-0.25'), FP-12a (0'-0.25') were collected from the flow path. In addition, composite soil samples FP-20 (0'-0.25'), FP-21 (0'-0.25'), and FP-22 (0'-0.25') were collected from the lower flow path. Subsequent soil analytical results identified TPH concentrations that exceeded the NM EMNRD OCD closure criteria for composite soil samples FP-2a through FP-5a, FP-9a through FP-12a, FP-20, and FP-21.

Fifth Sampling Event

On June 2, 2023, a fifth sampling event was performed at the Site. The JAN-EPO was notified of the sampling event although no representative was present during sampling activities. Four boreholes were attempted in the lower flow path utilizing a hand auger. Each borehole met with refusal at less than one foot bgs due to sandstone. Grab samples were collected from each borehole at the respective total depths. Soil samples LF-1 (0.5'), LF-2 (0.5'), LF-3 (0.25'), and LF-4 (0.5') were submitted for laboratory analysis. Subsequent soil analytical results identified TPH concentrations that exceeded the NM EMNRD OCD closure criteria for soil sample LF-3.

Sixth Sampling Event

In response to the TPH exceedances in the lower flow path, a hydro-excavation vacuum truck was utilized to remove the heavily impacted soil at the base of the cliff. On June 21 and June 22, 2023, Riley performed remote hydro-excavation activities by laterally piping into the ravine. Subsequently, one composite soil sample (FP-23 (0'-2')) was collected and submitted for laboratory analysis. Subsequent soil analytical results identified TPH concentrations that exceeded the NM EMNRD OCD closure criteria for the soil sample but at much lower concentrations than the previous sample results.

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 soil samples (S-1 through S-11, FP-1 through FP-19, FP-21 through FP-23, FP-2a through FP-7a, FP-9a through FP-12a, and LF-1 through LF-4) to the applicable NM EMNRD OCD closure criteria. Soil associated with sample FP-20 was removed by excavation and is not included in the following discussion. The laboratory analytical results are summarized in **Table 1 (Appendix F)**.

- The laboratory analytical result for soil sample FP-4 indicates a benzene concentration of 0.059 mg/kg, which is less than the applicable NM EMNRD OCD criteria of 10 mg/kg. The laboratory analytical results for all other soil samples indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD criteria of 10 mg/kg.
- The laboratory analytical results for soil samples FP-4, FP-4a, FP-5 through FP-8, FP-10, FP-11, and FP-18 indicate total BTEX concentrations ranging from 0.048 mg/kg (FP-18) to 5.2 mg/kg (FP-5), which are less than the applicable NM EMNRD OCD criteria of 50 mg/kg. The laboratory analytical results for all other soil samples indicate that total BTEX is not present in

concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg.

- The laboratory analytical results for soil samples FP-2 through FP-7, FP-9 through FP-12, FP-2a through FP-5a, FP-9a through FP-12a, FP-21, FP-23, and LF-3 indicate combined TPH GRO/DRO/MRO concentrations ranging from 110 mg/kg (LF-3) to 4,900 mg/kg (FP-9), which are above the applicable NM EMNRD OCD criteria of 100 mg/kg. The laboratory analytical results for soil samples S-8, FP-1, FP-6a, FP-7a, FP-8, FP-17, FP-18, FP-22, LF-1, and LF-4 indicate combined TPH GRO/DRO/MRO concentrations ranging from 10 mg/kg (FP-17) to 85 mg/kg (FP-6a), which are less than the applicable NM EMNRD OCD criteria of 100 mg/kg. The laboratory analytical results for all other soil samples indicate combined TPH GRO/DRO/MRO is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for all soil samples indicate that chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable NM EMNRD OCD criteria of 600 mg/kg.

7.0 RECLAMATION AND REVEGETATION

The pipeline excavation was partially backfilled with JAN-EPO approved native fill. Enterprise has not yet determined a permanent repair strategy for the pipeline; therefore, a portion of the excavation has not yet been backfilled at the time this document was created. Once permanent pipeline repairs are completed, Enterprise will backfill the excavation with JAN-EPO approved native fill and then contoured to the surrounding grade. Following the application of potassium permanganate, the upper flow path excavation was backfilled with JAN-EPO approved native fill and then contoured to the surrounding grade.

8.0 FINDINGS AND RECOMMENDATION

- Forty-eight soil samples were collected from the Site. Based on laboratory analytical results, benzene, BTEX, chloride, and combined TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.
- JAN-EPO approved the variance request and alternative closure method proposed by Enterprise that included the final application of potassium permanganate to the flow path prior to backfill.
- Approximately 453 yd³ of petroleum hydrocarbon-affected soils and 127 bbls of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm for disposal/remediation.

The JAN-EPO approved the variances discussed herein. Additional sampling may be required at a future date to assess Site conditions.

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.

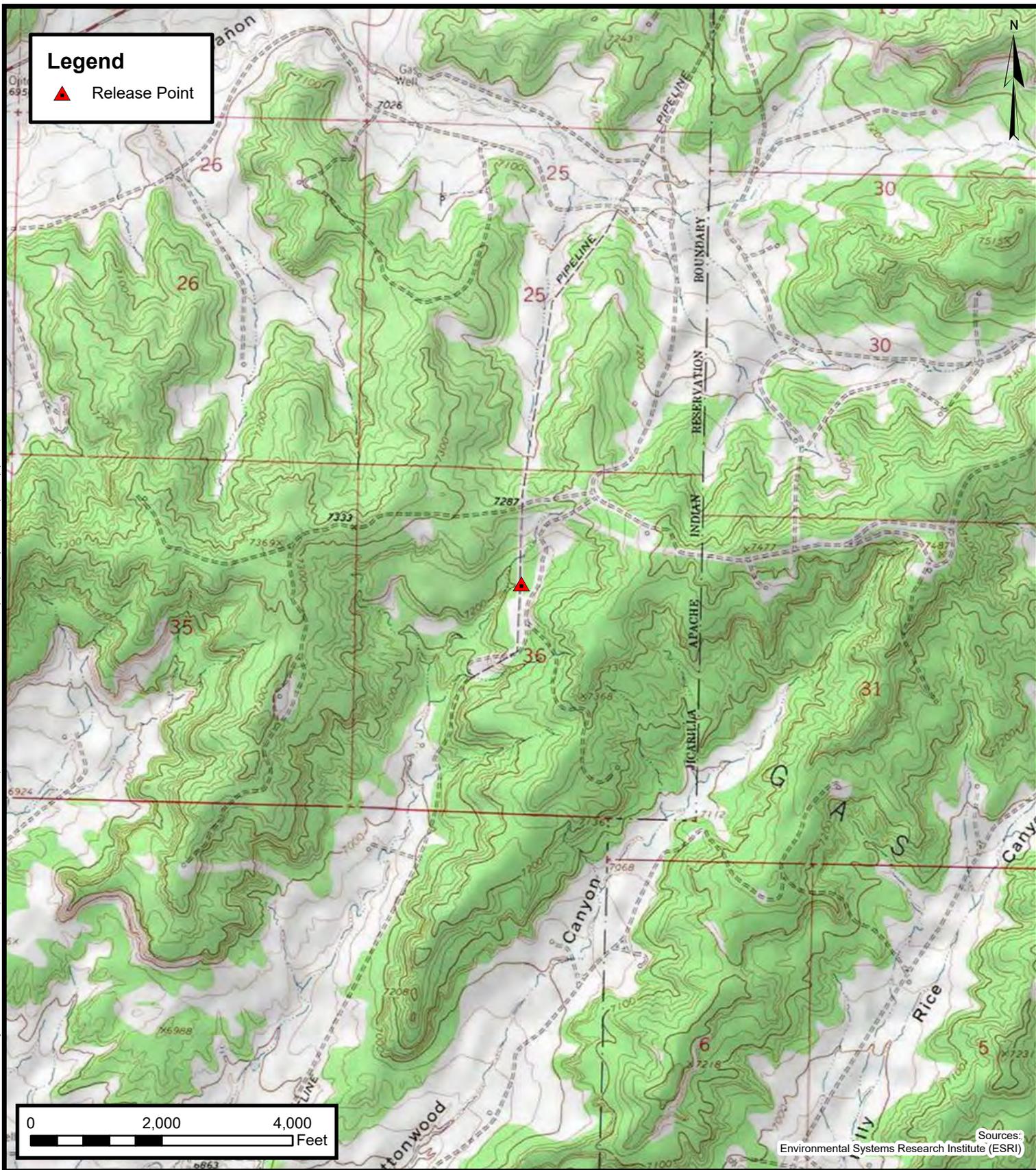
9.3 Reliance

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

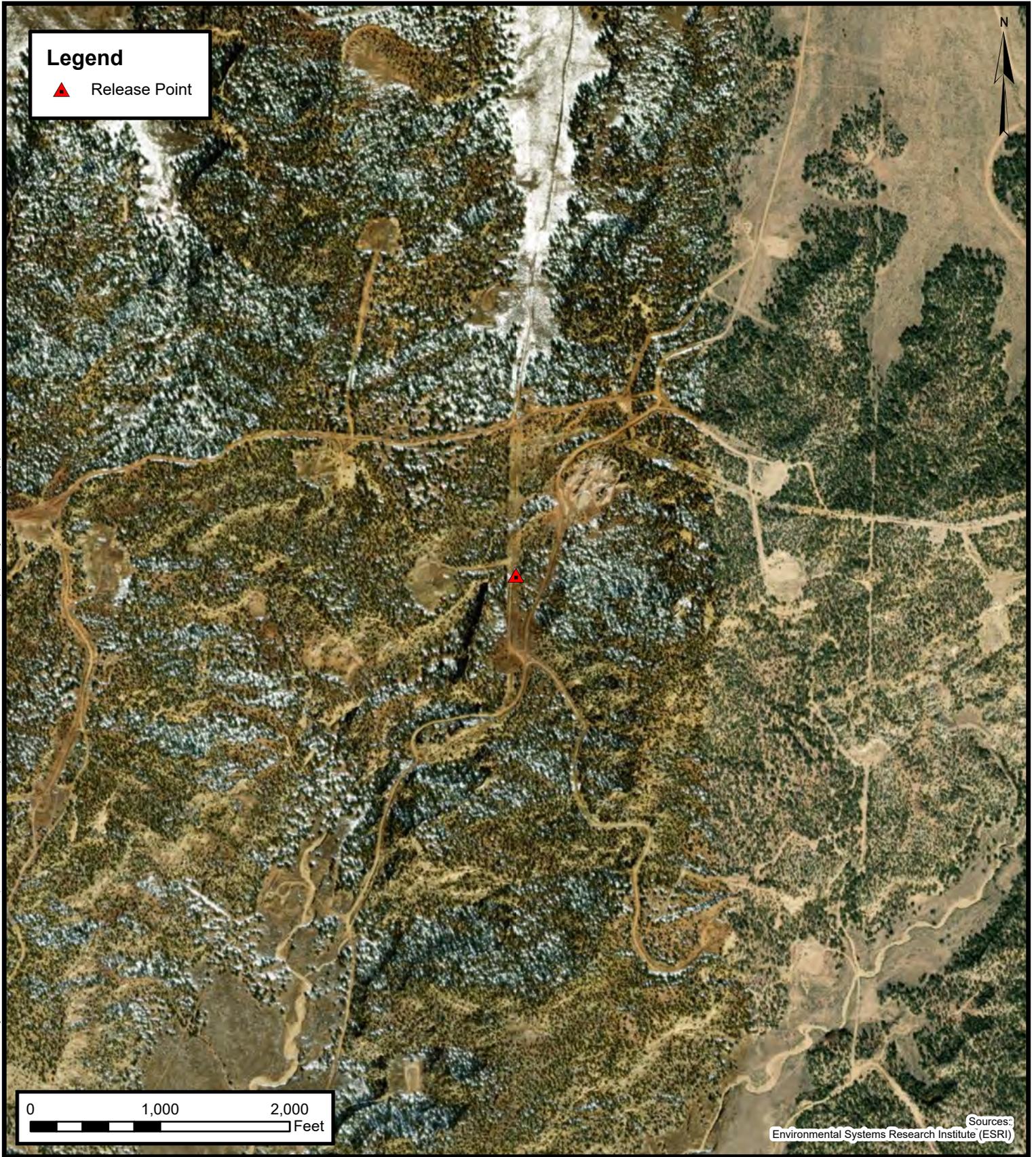


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ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

Topographic Map
Enterprise Field Services, LLC
Trunk 11-S (02/22/23)
Project Number: 05A1226231
Unit Letter F, S36 T25N R4W, Rio Arriba County, New Mexico
36.35866, -107.20433

FIGURE
1

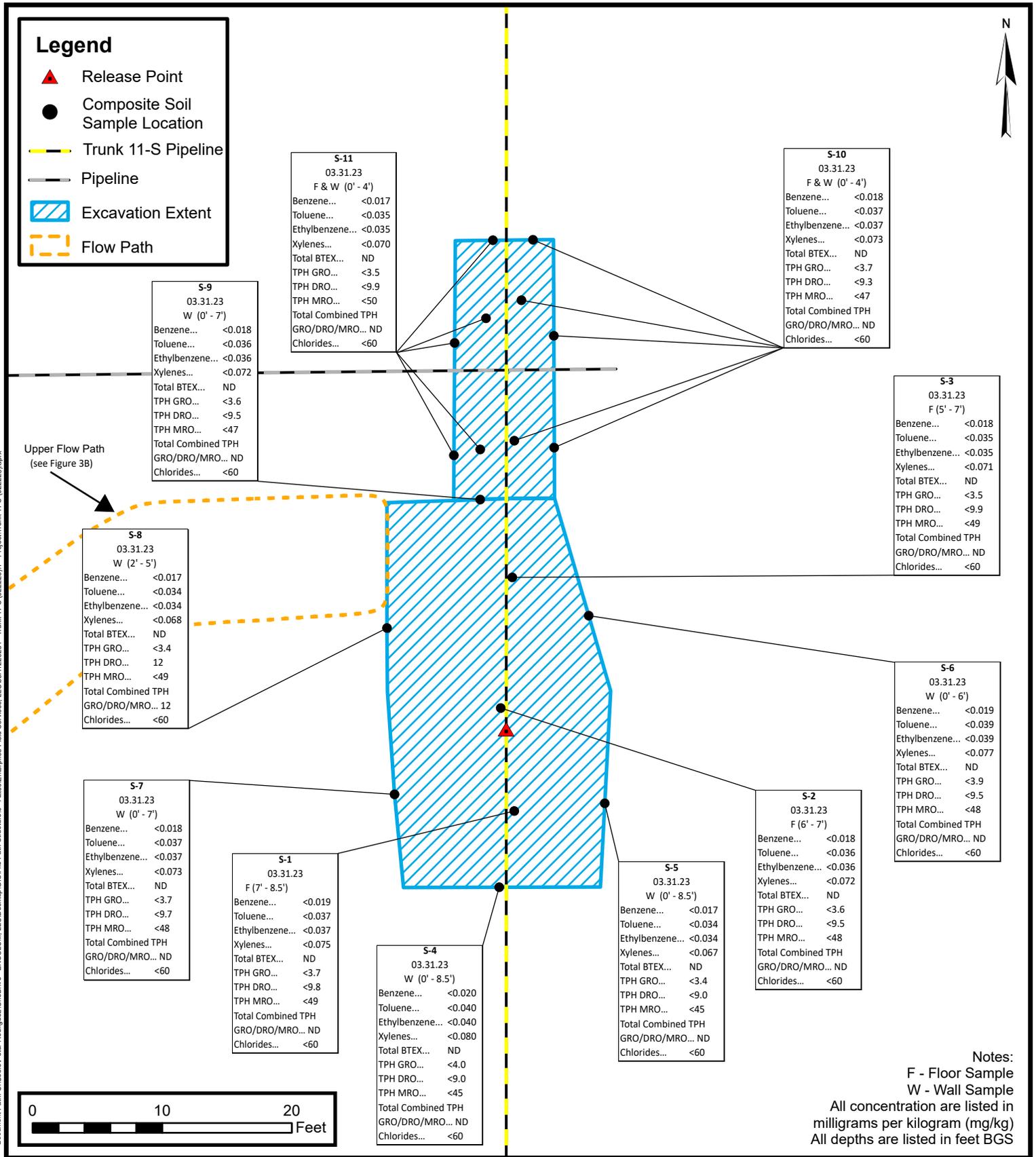


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ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

Site Vicinity Map
Enterprise Field Services, LLC
Trunk 11-S (02/22/23)
Project Number: 05A1226231
Unit Letter F, S36 T25N R4W, Rio Arriba County, New Mexico
36.35866, -107.20433

FIGURE
2

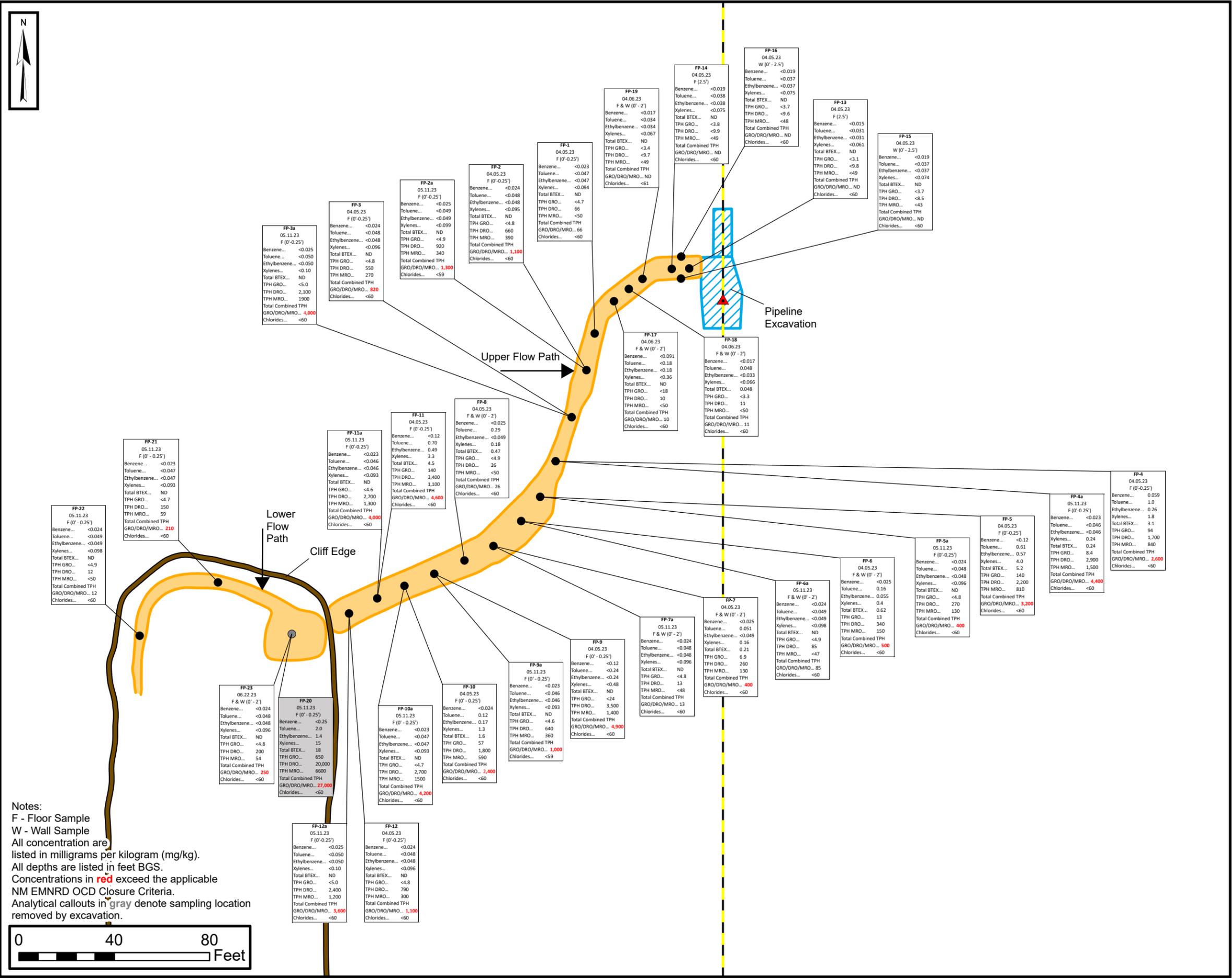


Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\Map\Structure6 - Aerial\Enterprise Field Services, LLC\05A1226231 - Trunk 11-S (02/22/23).aprx



**Pipeline Excavation Map
with Soil Analytical Results**
Enterprise Field Services, LLC
Trunk 11-S (02/22/23)
Project Number: 05A1226231
Unit Letter F, S36 T25N R4W, Rio Arriba County, New Mexico
36.35866, -107.20433

**FIGURE
3A**



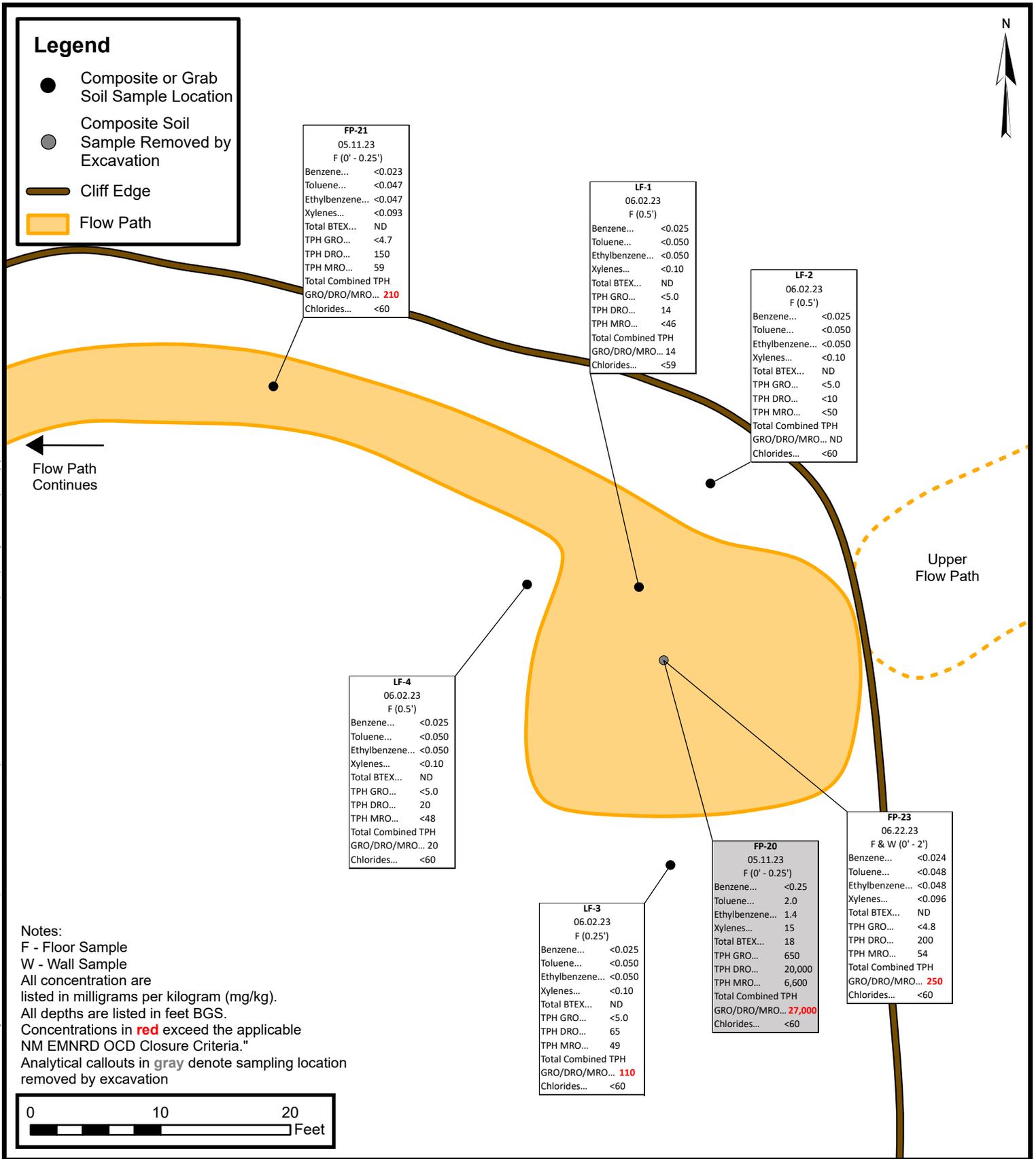
ENSOLUM
 Environmental, Engineering and Hydrogeologic Consultants

Flow Path Map

Enterprise Field Services, LLC
 Trunk 11-S (02/22/23)
 Unit Letter F, S36 T25N R4W
 Rio Arriba County, New Mexico
 36.35866, -107.20433

Figure 3B

Project Number: 05A1226231



Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\Map\Flow Path\Structure6 - Arriba\Enterprise Field Services, LLC\05A1226231 - Trunk 11-S (02/22/23).aprx



Lower Flow Path Pooling Area Map

Enterprise Field Services, LLC
Trunk 11-S (02/22/23)
Project Number: 05A1226231
Unit Letter F, S36 T25N R4W, Rio Arriba County, New Mexico
36.35866, -107.20433

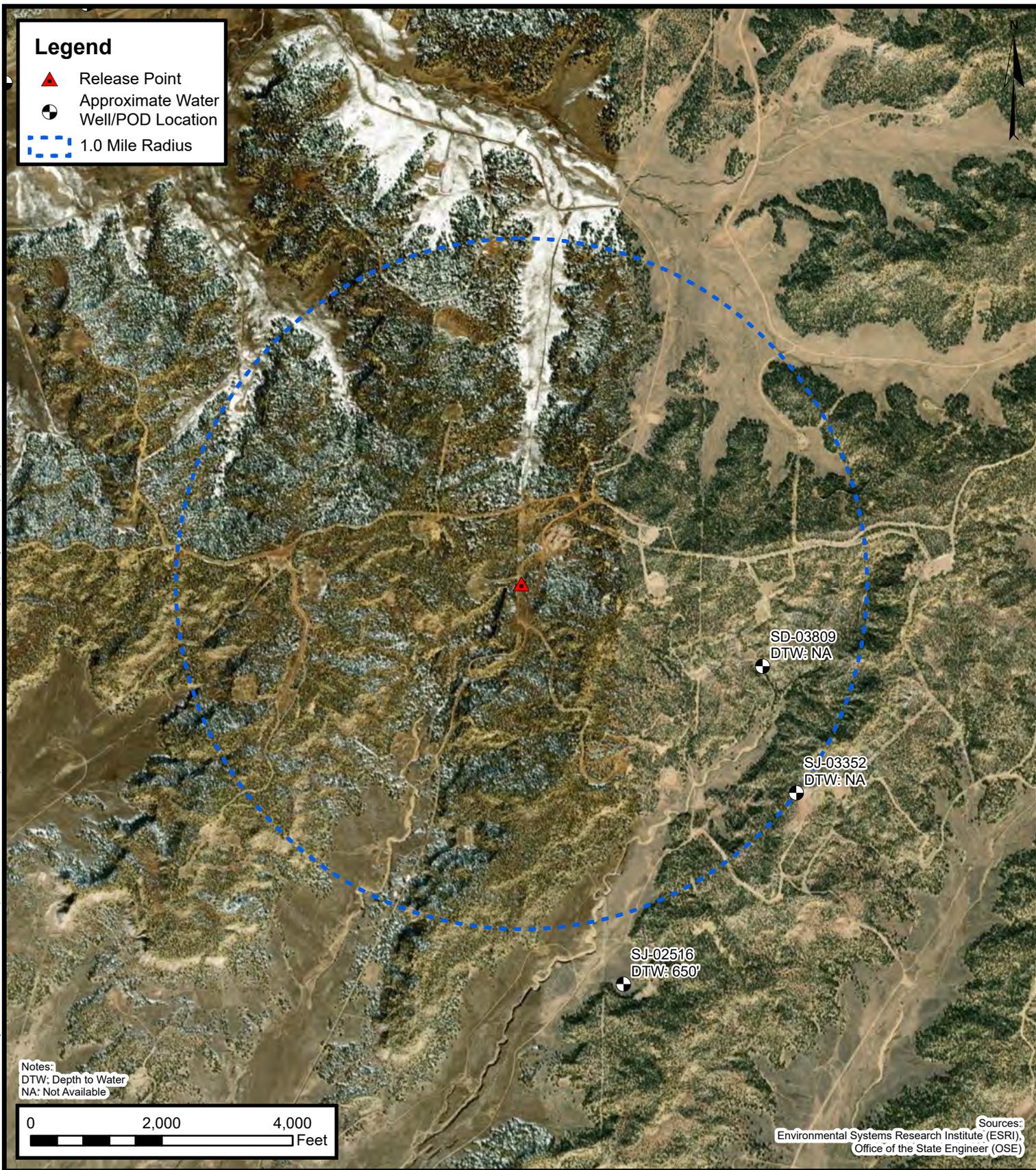
FIGURE
3C



APPENDIX B

Siting Figures and Documentation





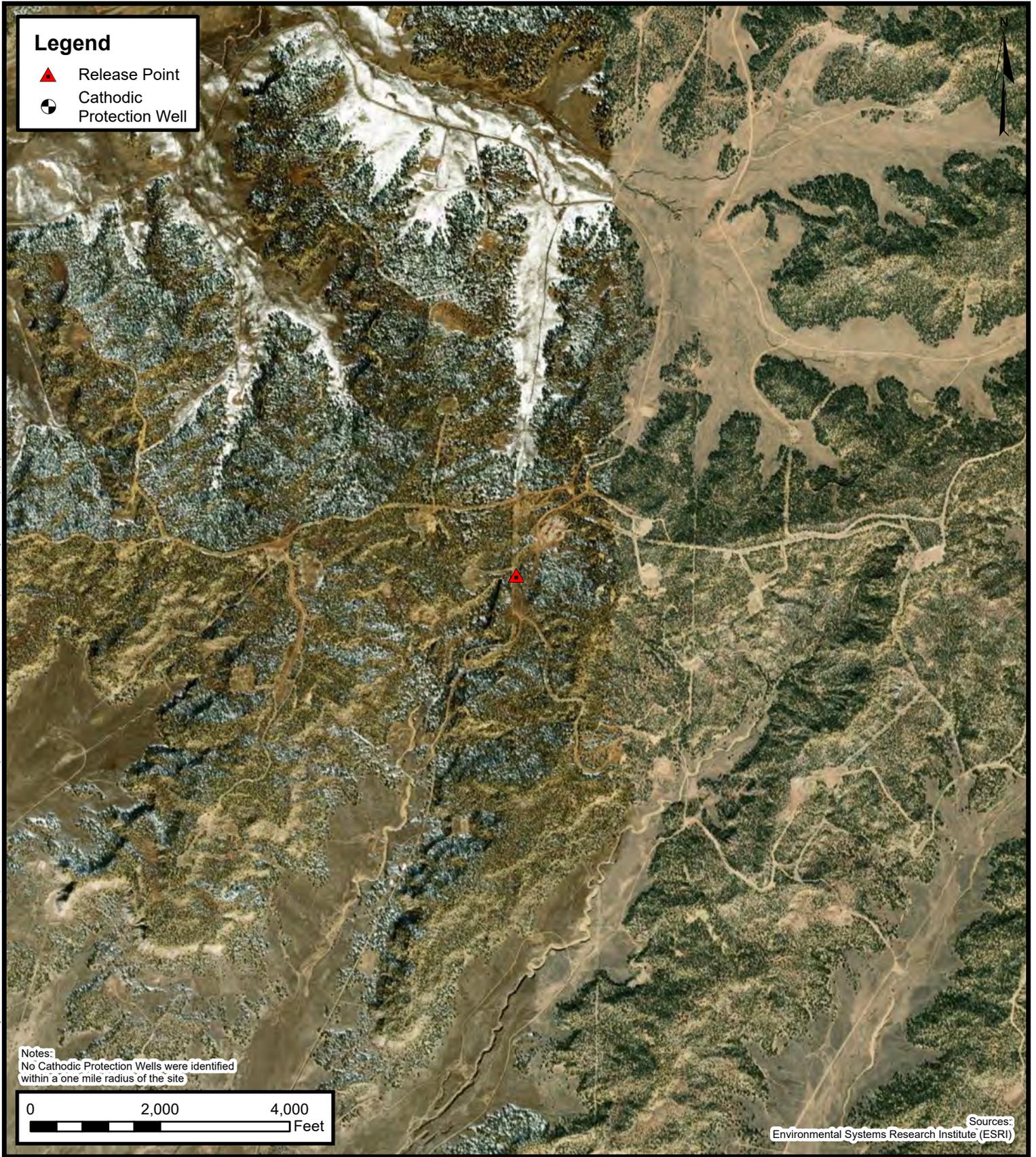
Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure6 - Arriba\Enterprise Field Services, LLC\05A1226231 - Trunk 11-S (02/22/23) - Project\Trunk 11-S (02/22/23).aprx



1.0 Mile Radius Water Well/POD Location Map

Enterprise Field Services, LLC
 Trunk 11-S (02/22/23)
 Project Number: 05A1226231
 Unit Letter F, S36 T25N R4W, Rio Arriba County, New Mexico
 36.35866, -107.20433

FIGURE
A

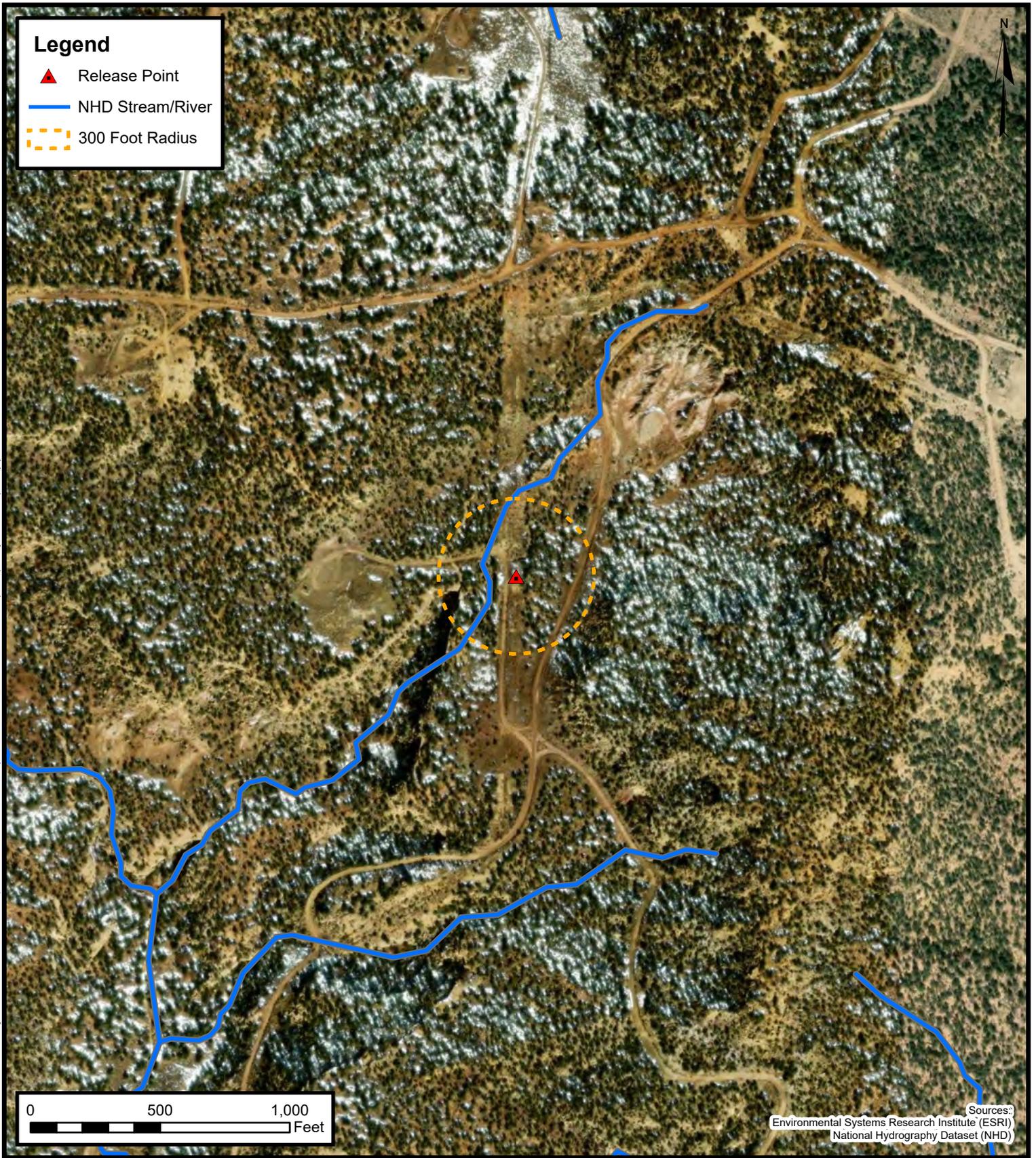


Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure6 - Arica\Enterprise Field Services, LLC\05A1226231 - Trunk 11-S (02/22/23) - Project\Trunk 11-S (02/22/23).aprx

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

**Cathodic Protection Well
Recorded Depth to Water**
Enterprise Field Services, LLC
Trunk 11-S (02/22/23)
Project Number: 05A1226231
Unit Letter F, S36 T25N R4W, Rio Arriba County, New Mexico
36.35866, -107.20433

**FIGURE
B**



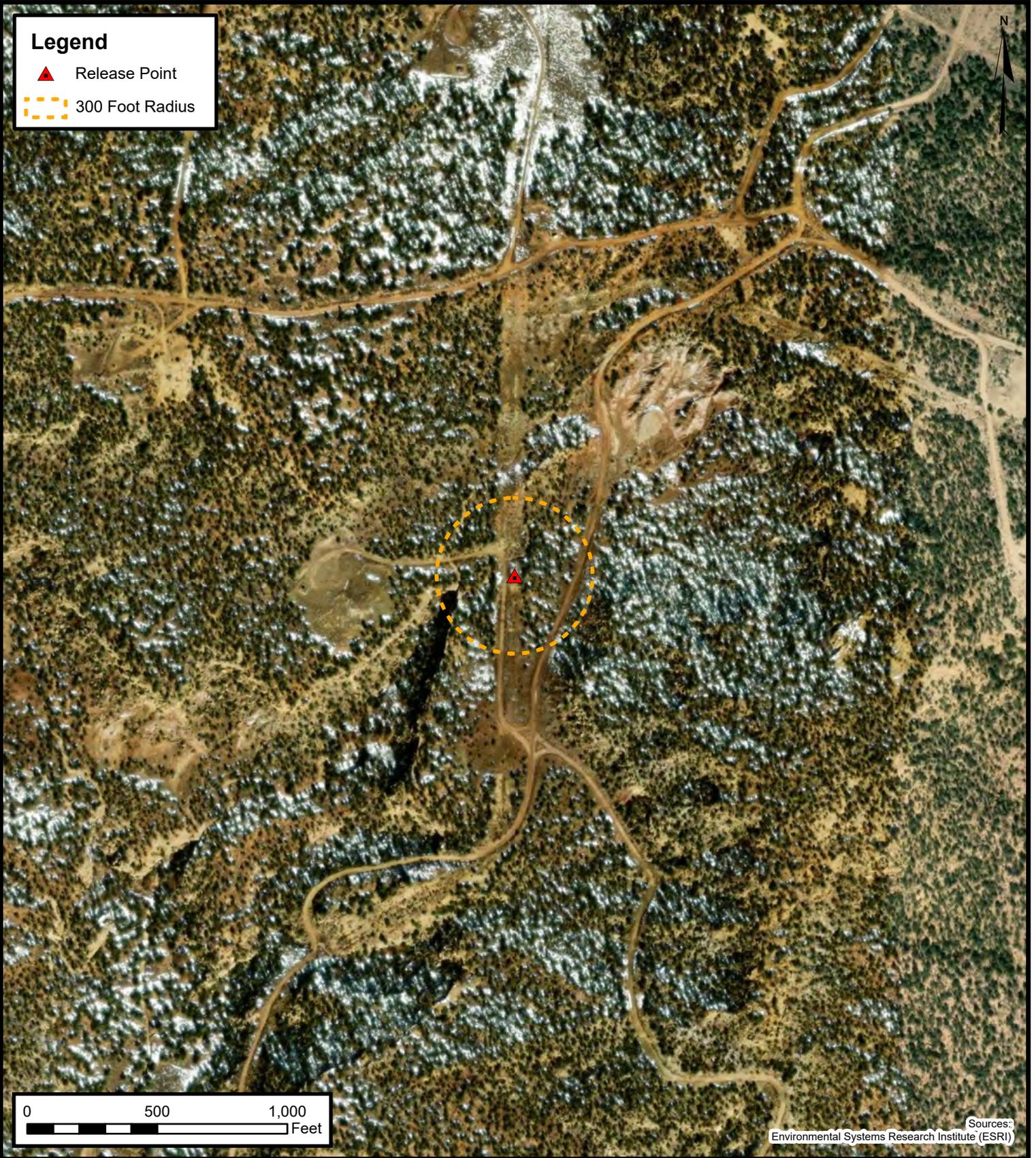
Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure6 - Arica\Enterprise Field Services, LLC\05A1226231 - Trunk 11-S (022223)1 - Project\Trunk 11-S (022223).aprx

ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

**300 Foot Radius Watercourse
and Drainage Identification**

Enterprise Field Services, LLC
Trunk 11-S (02/22/23)
Project Number: 05A1226231
Unit Letter F, S36 T25N R4W, Rio Arriba County, New Mexico
36.35866, -107.20433

**FIGURE
C**

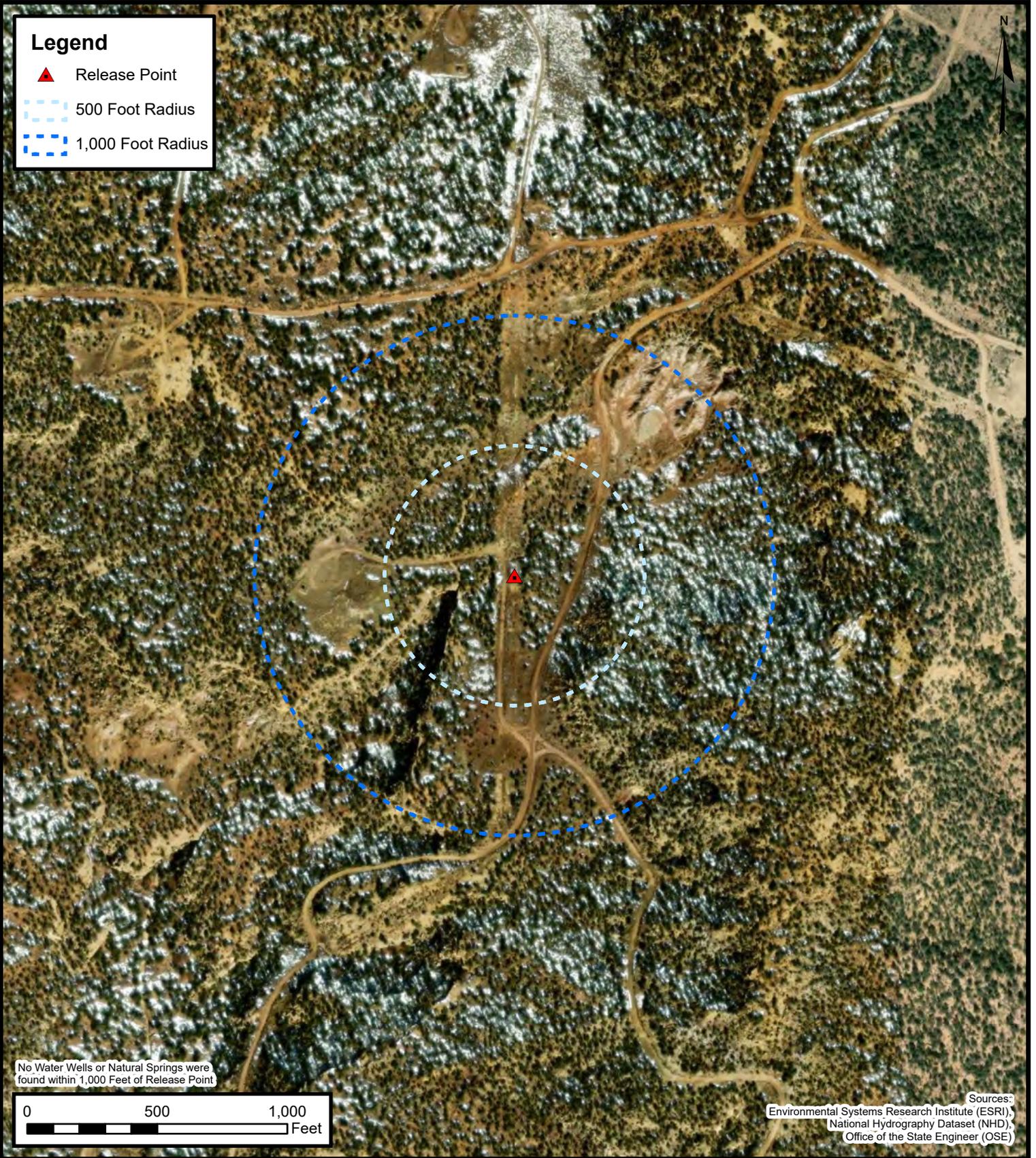


Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure6 - Arico\Enterprise Field Services, LLC\05A1226231 - Trunk 11-S (022223)1 - Project\Trunk 11-S (022223).aprx

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

300 Foot Radius Occupied Structure Identification
 Enterprise Field Services, LLC
 Trunk 11-S (02/22/23)
 Project Number: 05A1226231
 Unit Letter F, S36 T25N R4W, Rio Arriba County, New Mexico
 36.35866, -107.20433

FIGURE D

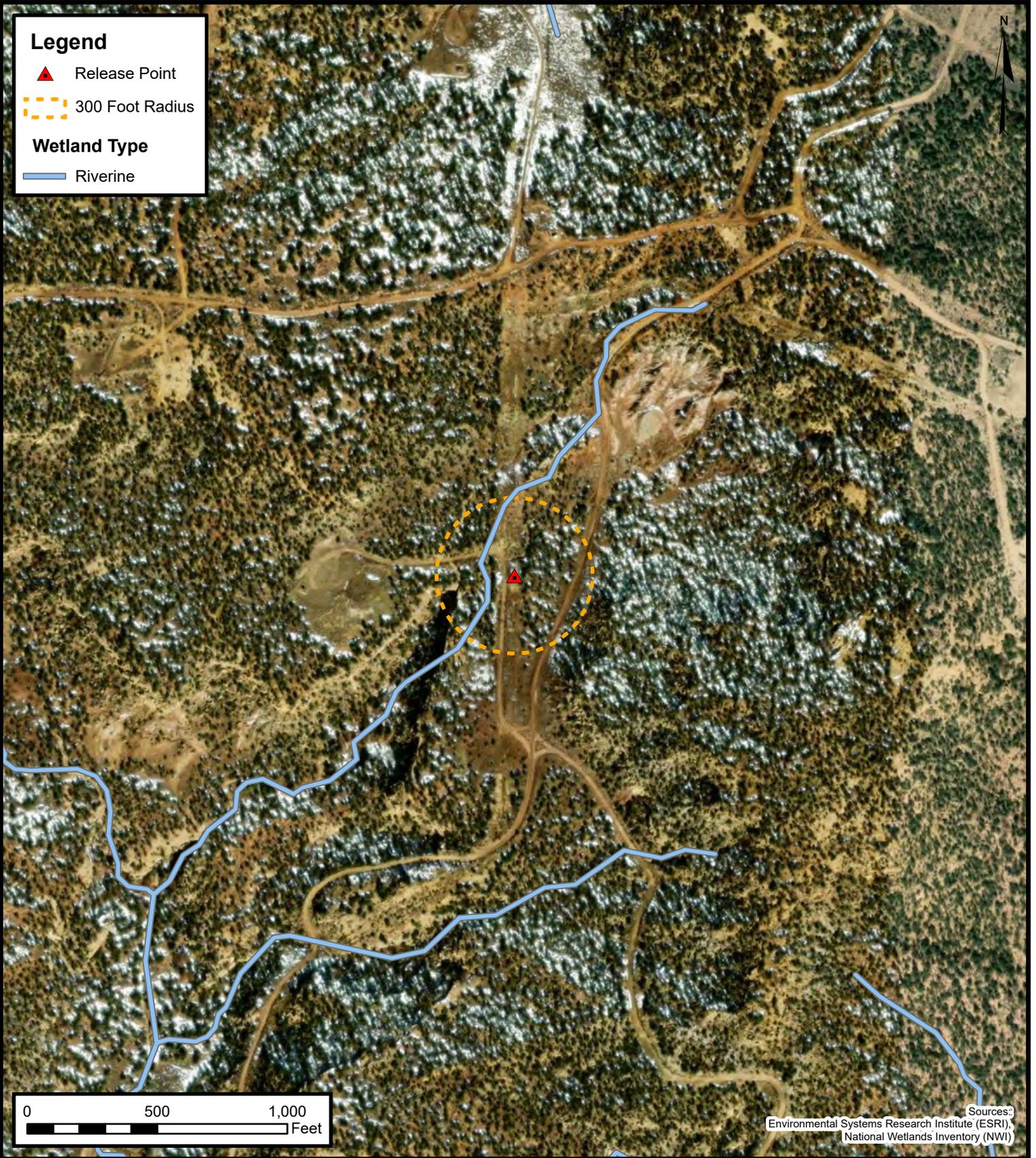


Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure6 - Arica\Enterprise Field Services, LLC\05A1226231 - Trunk 11-S (02/22/23)\1 - Project\Trunk 11-S (02/22/23).aprx



**Water Well and
 Natural Spring Location**
 Enterprise Field Services, LLC
 Trunk 11-S (02/22/23)
 Project Number: 05A1226231
 Unit Letter F, S36 T25N R4W, Rio Arriba County, New Mexico
 36.35866, -107.20433

**FIGURE
 E**

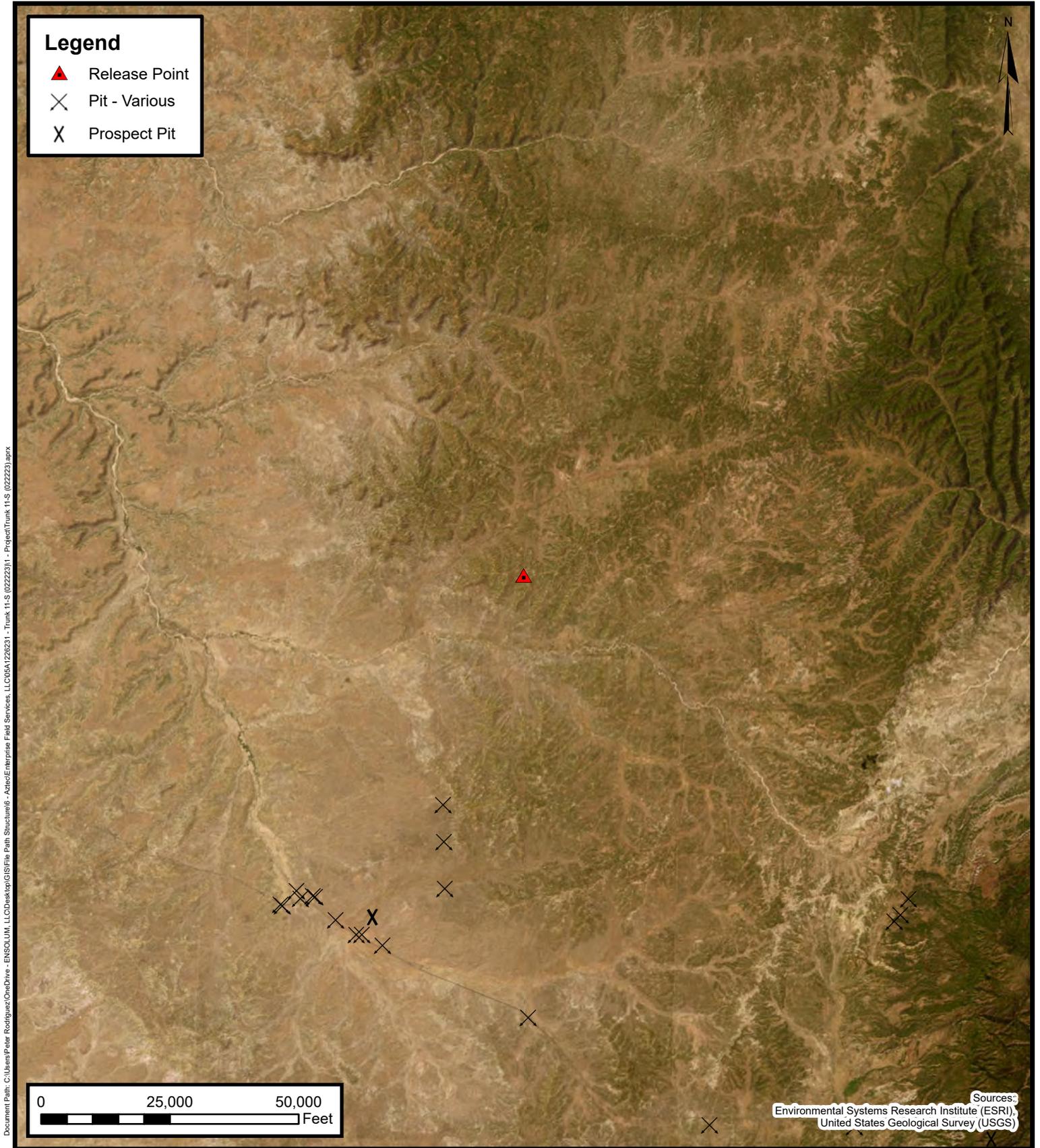


Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure6 - Arico\Enterprise Field Services, LLC\05A1226231 - Trunk 11-S (02/22/23) - Project\Trunk 11-S (02/22/23).aprx

Wetlands

Enterprise Field Services, LLC
 Trunk 11-S (02/22/23)
 Project Number: 05A1226231
 Unit Letter F, S36 T25N R4W, Rio Arriba County, New Mexico
 36.35866, -107.20433

FIGURE
F

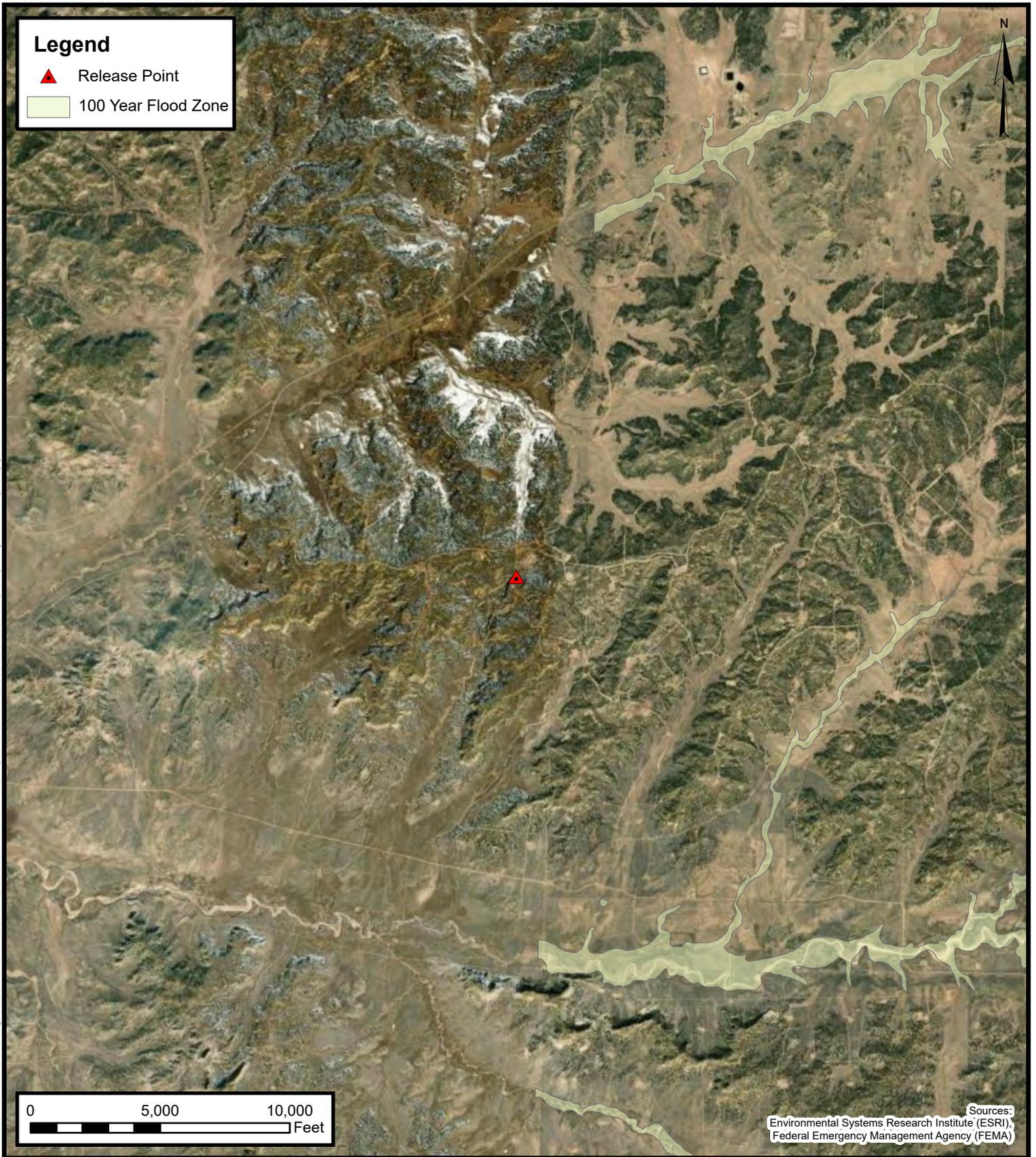


Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure6 - Arico\Enterprise Field Services, LLC\05A1226231 - Trunk 11-S (02/22/23) - Project\Trunk 11-S (02/22/23).aprx

Mines, Mills, and Quarries

Enterprise Field Services, LLC
Trunk 11-S (02/22/23)
Project Number: 05A1226231
Unit Letter F, S36 T25N R4W, Rio Arriba County, New Mexico
36.35866, -107.20433

FIGURE
G



Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure6 - Arico\Enterprise Field Services, LLC\05A1226231 - Trunk 11-S (022223)\1 - Project\Trunk 11-S (022223).aprx

ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

100-Year Flood Plain Map

Enterprise Field Services, LLC
Trunk 11-S (02/22/23)
Project Number: 05A1226231
Unit Letter F, S36 T25N R4W, Rio Arriba County, New Mexico
36.35866, -107.20433

FIGURE

H



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced,
 O=orphaned,
 C=the file is closed) (quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
RG 50845 POD1	MRG	SO		3	26	25N	04W			300247	4026989*	340	135	205

Average Depth to Water: **135 feet**
 Minimum Depth: **135 feet**
 Maximum Depth: **135 feet**

Record Count: 1

PLSS Search:

Section(s): 36, 25, 26, 35 **Township:** 25N **Range:** 04W

*UTM location was derived from PLSS - see Help

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



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

No records found.

PLSS Search:

Section(s): 31, 30

Township: 25N

Range: 03W

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.

3/2/23 1:47 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced,
O=orphaned,
C=the file is closed) (quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 02516	SJ	RA	1 3 1	06	24N	03W	302693	4024121*		1000	650	350		
SJ 02516 DCL	O	RA	1 3 1	06	24N	03W	302693	4024121*		1000	650	350		

Average Depth to Water: **650 feet**
 Minimum Depth: **650 feet**
 Maximum Depth: **650 feet**

Record Count: 2

PLSS Search:

Section(s): 6 Township: 24N Range: 03W

*UTM location was derived from PLSS - see Help

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



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

No records found.

PLSS Search:

Section(s): 1, 2

Township: 24N

Range: 04W

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.



APPENDIX C

Executed C-138 Solid Waste Acceptance Forms

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

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

Form C-138
Revised 08/01/11

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

97057-1125

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

2. **Originating Site:**
Trunk 11-S
AFE: N64995
PM: ME Eddleman
Pay Key: AM14058

2. **Location of Material (Street Address, City, State or ULSTR):**
UL F Section 35 T25N R4W; 36.35866, -107.20433
March/April 2023

4. **Source and Description of Waste:**
Source: Hydrocarbon contaminated soil associated with remediation activities from a natural gas pipeline release.
Description: Hydrocarbon contaminated soil associated with remediation activities from a natural gas pipeline release.
Estimated Volume 50 yd³ bbls Known Volume (to be entered by the operator at the end of the haul) 443/15 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* 3-2-2023, representative for Enterprise Products Operating authorize 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: OFT and Subcontractors**

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM01-0011
Address of Facility: Hill Top, NM
Method of Treatment and/or Disposal:

- Evaporation Injection Treating Plant Landfarm Landfill Other

Waste Acceptance Status:

- APPROVED** **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree TITLE: Enviro Manager DATE: 3/6/23

SIGNATURE: *Greg Crabtree* TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

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.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

2. **Originating Site:**
Trunk 11-S
AFE: N64995
PM: ME Eddleman
Pay Key: AM14058

2. **Location of Material (Street Address, City, State or ULSTR):**
UL F Section 35 T25N R4W; 36.35866, -107.20433
MAY 2023

4. **Source and Description of Waste:**
Source: Hydrocarbon contaminated soil associated with remediation activities from a natural gas pipeline release.
Description: Hydrocarbon contaminated soil associated with remediation activities from a natural gas pipeline release.
Estimated Volume 50 yd³ bbls Known Volume (to be entered by the operator at the end of the haul) 16 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* 5-10-2023, representative for Enterprise Products Operating authorize to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

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

5. **Transporter: OFT and Subcontractors**

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM01-0011

Address of Facility: Hill Top, NM

Method of Treatment and/or Disposal:

Evaporation Injection Treating Plant Landfarm Landfill Other

Waste Acceptance Status:

APPROVED

DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree

TITLE: Enviro MANAGER

DATE: 5/10/23

SIGNATURE: *Greg Crabtree*

TELEPHONE NO.: 505-632-0615

Surface Waste Management Facility Authorized Agent

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.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

2. Originating Site:
Trunk 11S
AFE: N64995
PM: Dwayne Dixon
Pay Key: AM14058

2. Location of Material (Street Address, City, State or ULSTR):
UL F Section 35 T25N R4W; 36.35866, -107.20433

4. Source and Description of Waste:
Source: Hydrocarbon contaminated soil/water/sludge associated with cleaning a natural condensate tank.
Description: Hydrocarbon contaminated soil/water/sludge associated with cleaning a natural condensate tank.
Estimated Volume 20 yd³ bbls Known Volume (to be entered by the operator at the end of the haul) 10 yd³ / 96 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* 6-19-2023, representative for Enterprise Products Operating authorize 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: OFT and Riley Industrial

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM01-0011
Address of Facility: Hill Top, NM
Method of Treatment and/or Disposal:

Evaporation Injection Treating Plant Landfarm Landfill Other

Waste Acceptance Status:

APPROVED

DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Green Crabtree TITLE: Enviro Manager DATE: 6/19/23

SIGNATURE: [Signature] TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent



APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Trunk 11-S (02/22/23)
Ensolum Project No. 05A1226231



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

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Trunk 11-S (02/22/23)
Ensolum Project No. 05A1226231



<p>Photograph 4</p> <p>Photograph Description: View of the upper flow path (second sampling event).</p>	
<p>Photograph 5</p> <p>Photograph Description: View of the upper flow path (second sampling event).</p>	
<p>Photograph 6</p> <p>Photograph Description: View of the upper flow path.</p>	

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Trunk 11-S (02/22/23)
Ensolum Project No. 05A1226231



<p>Photograph 7</p> <p>Photograph Description: View of the upper flow path after Simple Green® solution application.</p>	
<p>Photograph 8</p> <p>Photograph Description: View of the upper flow path after Simple Green® solution application.</p>	
<p>Photograph 9</p> <p>Photograph Description: View of the upper flow path after potassium permanganate application.</p>	

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Trunk 11-S (02/22/23)
Ensolum Project No. 05A1226231



<p>Photograph 10</p> <p>Photograph Description: View of the upper flow path after potassium permanganate application.</p>	
<p>Photograph 11</p> <p>Photograph Description: View of the lower pooling area after hydro-excavation.</p>	
<p>Photograph 12</p> <p>Photograph Description: View of the upper flow path after initial restoration.</p>	

SITE PHOTOGRAPHS

Closure Report
Enterprise Field Services, LLC
Trunk 11-S (02/22/23)
Ensolum Project No. 05A1226231



Photograph 13

Photograph Description: View of the upper flow path after initial restoration.





APPENDIX E

Regulatory Correspondence

From: [Yahoo Warning](#)
To: [Long, Thomas](#)
Subject: Re: [EXTERNAL] Re: Trunk 11S - Section 35 T25N R4W; 36.35886, -107.20443
Date: Monday, June 19, 2023 9:02:00 PM

[Use caution with links/attachments]

Tom Long,

K.C. Manwell will be present at proposed remediation project Trunk 11S, any questions will be discussed in person on location. Thank You for the information and plan to see you on June 20, 2023.

Thank You,
K.C. Manwell

On Monday, June 19, 2023 at 07:09:19 AM PDT, Long, Thomas <tjlong@eprod.com> wrote:

Keith,

This email is a follow up to our phone conversation last week and a notification that Enterprise will begin the in-situ remediation beginning tomorrow morning. OFT will be removing residual soil from the flow path on the sandstone today. Envirotech will apply the potassium permanganate solution tomorrow. Riley Industrial will be removing soil from the base of the cliff on Thursday. If you have any questions, please call or email.

Thomas J. Long

Senior Environmental Scientist

Enterprise Products Company

614 Reilly Ave.

Farmington, New Mexico 87401

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com



From: Long, Thomas
Sent: Tuesday, June 6, 2023 8:51 AM
To: 'Yahoo Warning' <kcmanwell@yahoo.com>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: [EXTERNAL] Re: Trunk 11S - Section 35 T25N R4W; 36.35886, -107.20443

Keith,

Please find the attached revised remediation plan for the Trunk 11S. Please let me know if you have any questions. I will keep you informed on the schedule.

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



From: Long, Thomas
Sent: Friday, May 19, 2023 8:18 AM
To: 'Yahoo Warning' <kcmanwell@yahoo.com>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: [EXTERNAL] Re: Trunk 11S - Section 35 T25N R4W; 36.35886, -107.20443

Keith,

Please find the attached site sketch and lab report for Trunk 11-S flow path. These samples were collected after the simple green application. Please let me know on how you would like to proceed.

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



From: Long, Thomas
Sent: Friday, May 5, 2023 8:46 AM
To: 'Yahoo Warning' <kcmanwell@yahoo.com>
Cc: Stone, Brian <bmstone@eprod.com>; 'Kyle Summers' <ksummers@ensolum.com>; 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>
Subject: RE: [EXTERNAL] Re: Trunk 11S - Section 35 T25N R4W; 36.35886, -107.20443

Keith,

This email is a notification that Enterprise has scheduled the in-situ remediation of the flow path at the Trunk 11S release site to begin Wednesday, May 10, 2023. Field work is anticipated to take 2-3 days. 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: Yahoo Warning <kcmawell@yahoo.com>
Sent: Friday, April 28, 2023 1:43 PM
To: Long, Thomas <tjlong@eprod.com>
Subject: Re: [EXTERNAL] Re: Trunk 11S - Section 35 T25N R4W; 36.35886, -107.20443

[Use caution with links/attachments]

Thomas Long,

After review of proposed addendum's, as discussed at the site location. JANEPO has granted approval on proposed plan as submitted, please contact K.C. Manwell on start dates. JANEPO would like to Thank Enterprise Products for their cooperation in resolving the non-compliance issue at hand, JANEPO looks forward to a continued transparent working relationship. Any questions or comments please contact myself at 505-330-8031.

Thank You,

K.C. Manwell

On Friday, April 28, 2023 at 07:38:21 AM PDT, Long, Thomas <tjlong@eprod.com> wrote:

Keith,

Please find the attached revised remediation plan for the Trunk 11S release site. I will keep you informed as to when we initiate the field work. If you have any questions, please call or email.

Thomas J. Long

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



From: Long, Thomas
Sent: Monday, April 24, 2023 9:18 AM
To: 'Yahoo Warning' <kcmanwell@yahoo.com>
Cc: Stone, Brian <bmstone@eprod.com>; 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>
Subject: FW: [EXTERNAL] Re: Trunk 11S - Section 35 T25N R4W; 36.35886, -107.20443

Keith,

I just wanted to see if you had a chance to review this data? What are your thoughts on going forward?

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



From: Long, Thomas
Sent: Tuesday, April 11, 2023 1:28 PM
To: 'Yahoo Warning' <kcmannwell@yahoo.com>
Cc: Stone, Brian <bmstone@eprod.com>; 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>; 'Kyle Summers' <ksummers@ensolum.com>
Subject: RE: [EXTERNAL] Re: Trunk 11S - Section 35 T25N R4W; 36.35886, -107.20443

Keith,

Please find the attached site sketch and lab reports for the Trunk 11S flow path to the southeast. Most of the samples exceed the 100 ppm TPH remediation standard. All samples were collected from depths where bedrock sandstone was encountered and mechanical excavation was becoming difficult. Additional excavating will require utilizing rock teeth on the track hoe or back hoe. In-situ remediation, such as an application of potassium permanganate solution or a microbial solution (warm weather application) may be a more effective and less destructive remediation option. In addition, the canyon where the released fluids ran off the cliff and propagated downgradient needs to be evaluated prior to any in-situ remediation. Please let me know your thoughts. 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: Yahoo Warning <kcmawell@yahoo.com>
Sent: Tuesday, April 4, 2023 9:42 PM
To: Long, Thomas <tjlong@eprod.com>
Subject: Re: [EXTERNAL] Re: Trunk 11S - Section 35 T25N R4W; 36.35886, -107.20443

[Use caution with links/attachments]

Thomas Long,

FYI, K.C. Manwell is planning to attend proposed sampling event as scheduled.

Thank You,

K.C. MANWELL

On Tuesday, April 4, 2023 at 01:51:51 PM PDT, Long, Thomas <tjlong@eprod.com> wrote:

Keith,

This email is a notification that Enterprise will be collecting soil samples for laboratory analysis at the Trunk 11S release site tomorrow April 5, 2023 at 11:00 a.m. The samples will be collected from the flow path area towards the canyon. If you have any questions, please call or email.

Thomas J. Long

Senior Environmental Scientist

Enterprise Products Company

614 Reilly Ave.

Farmington, New Mexico 87401

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com



From: Long, Thomas
Sent: Tuesday, April 4, 2023 8:18 AM
To: 'Yahoo Warning' <kcmawell@yahoo.com>
Cc: Stone, Brian <bmstone@eprod.com>; 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>
Subject: RE: [EXTERNAL] Re: Trunk 11S - Section 35 T25N R4W; 36.35886, -107.20443

Keith,

Please find the attached site sketch and lab report for the Trunk 11S excavation. We will be stock piling clean soil onsite and remediating the flow path today. Please let me know if you have any questions.

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: Yahoo Warning <kcmawell@yahoo.com>
Sent: Friday, March 31, 2023 6:38 AM
To: Long, Thomas <tjlong@eprod.com>
Subject: Re: [EXTERNAL] Re: Trunk 11S - Section 35 T25N R4W; 36.35886, -107.20443

[Use caution with links/attachments]

Re: Proposed sampling, K.C. Manwell will be present during sampling event.

Thank You,
K.C. Manwell

On Thursday, March 30, 2023 at 02:16:49 PM MDT, Long, Thomas <tjlong@eprod.com> wrote:

Keith,

The email is a notification that Enterprise will be collecting soil samples for laboratory analysis at the Trunk 11S excavation tomorrow, March 31, 2023 at 12:00 p.m. 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: Yahoo Warning <kcmanwell@yahoo.com>
Sent: Friday, February 24, 2023 9:57 AM
To: Long, Thomas <tjlong@eprod.com>
Subject: [EXTERNAL] Re: Trunk 11S - Section 35 T25N R4W; 36.35886, -107.20443

[Use caution with links/attachments]

Thomas Long,

Upon receiving the proposed remediation plan for Enterprise Trunk 11S, JANEPO has reviewed and will approve the plan as submitted. Please be advised that the proposed plan should remain in draft form, due to unforeseen circumstances that may occur. JANEPO would like Thank Enterprise for prompt response to this non-compliance issue, and May we continue with a transparent working relationship.

Thank You,

K.C. Manwell

On Friday, February 24, 2023 at 08:24:56 AM MST, Long, Thomas <tjlong@eprod.com> wrote:

Keith,

Please find the attached remediation plan for the Trunk 11S release. If you have any questions, please call or email.

Thomas J. Long

Senior Environmental Scientist

Enterprise Products Company

614 Reilly Ave.

Farmington, New Mexico 87401

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com



From: Long, Thomas
Sent: Thursday, February 23, 2023 9:53 AM
To: 'Yahoo Warning' <kcmawell@yahoo.com>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: Trunk 11S - Section 35T25N R4W; 36.35886, -107.20443

Keith,

This email is a notification that Enterprise has a release of natural gas on the Trunk 11S pipeline yesterday at approximately 11:33 a.m. No liquids were observed on the ground surface. No washes were affected. The pipeline has been isolated, depressurized, locked and tagged out. I will keep you informed on the repair and remediation schedule. 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



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.



APPENDIX F

Table 1 – Soil Analytical Summary



TABLE 1
Trunk 11S (02/22/23)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX ¹ (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) ¹ (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I)				10	NE	NE	NE	50	NE	NE	NE	100	600
Composite Soil Samples Removed by Excavation and Transported to the Landfarm for Disposal/Remediation													
FP-20	05.11.23	C	0 to 0.25	<0.25	2.0	1.4	15	18	650	20,000	6,600	27,000	<60
Excavation Composite Soil Samples													
S-1	03.31.23	C	7 to 8.5	<0.019	<0.037	<0.037	<0.075	ND	<3.7	<9.8	<49	ND	<60
S-2	03.31.23	C	6 to 7	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<9.5	<48	ND	<60
S-3	03.31.23	C	5 to 7	<0.018	<0.035	<0.035	<0.071	ND	<3.5	<9.9	<49	ND	<60
S-4	03.31.23	C	0 to 8.5	<0.020	<0.040	<0.040	<0.080	ND	<4.0	<9.0	<45	ND	<60
S-5	03.31.23	C	0 to 8.5	<0.017	<0.034	<0.034	<0.067	ND	<3.4	<9.0	<45	ND	<60
S-6	03.31.23	C	0 to 6	<0.019	<0.039	<0.039	<0.077	ND	<3.9	<9.5	<48	ND	<60
S-7	03.31.23	C	0 to 7	<0.018	<0.037	<0.037	<0.073	ND	<3.7	<9.7	<48	ND	<60
S-8	03.31.23	C	2 to 5	<0.017	<0.034	<0.034	<0.068	ND	<3.4	12	<49	12	<60
S-9	03.31.23	C	0 to 7	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<9.5	<47	ND	<60
S-10	03.31.23	C	0 to 4	<0.018	<0.037	<0.037	<0.073	ND	<3.7	<9.3	<47	ND	<60
S-11	03.31.23	C	0 to 4	<0.017	<0.035	<0.035	<0.070	ND	<3.5	<9.9	<50	ND	<60
Flowpath Composite Soil Samples													
FP-1	04.05.23	C	0 to 0.25	<0.023	<0.047	<0.047	<0.094	ND	<4.7	66	<50	66	<60
FP-2	04.05.23	C	0 to 0.25	<0.024	<0.048	<0.048	<0.095	ND	<4.8	660	390	1,100	<60
FP-2a	05.11.23	C	0 to 0.25	<0.025	<0.049	<0.049	<0.099	ND	<4.9	920	340	1,300	<59
FP-3	04.05.23	C	0 to 0.25	<0.024	<0.048	<0.048	<0.096	ND	<4.8	550	270	820	<60
FP-3a	05.11.23	C	0 to 0.25	<0.025	<0.050	<0.050	<0.10	ND	<5.0	2,100	1,900	4,000	<60
FP-4	04.05.23	C	0 to 0.25	0.059	1.0	0.26	1.8	3.1	94	1,700	840	2,600	<60
FP-4a	05.11.23	C	0 to 0.25	<0.023	<0.046	<0.046	0.24	0.24	8.4	2,900	1,500	4,400	<60
FP-5	04.05.23	C	0 to 0.25	<0.12	0.61	0.57	4.0	5.2	140	2,200	810	3,200	<60
FP-5a	05.11.23	C	0 to 0.25	<0.024	<0.048	<0.048	<0.096	ND	<4.8	270	130	400	<60



TABLE 1
Trunk 11S (02/22/23)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX ¹ (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) ¹ (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I)				10	NE	NE	NE	50	NE	NE	NE	100	600
FP-6	04.05.23	C	0 to 2	<0.025	0.16	0.055	0.40	0.62	13	340	150	500	<60
FP-6a	05.11.23	C	0 to 2	<0.024	<0.049	<0.049	<0.098	ND	<4.9	85	<47	85	<60
FP-7	04.05.23	C	0 to 2	<0.025	0.051	<0.049	0.16	0.21	6.9	260	130	400	<60
FP-7a	05.11.23	C	0 to 2	<0.024	<0.048	<0.048	<0.096	ND	<4.8	13	<48	13	<60
FP-8	04.05.23	C	0 to 2	<0.025	0.29	<0.049	0.18	0.47	<4.9	26	<50	26	<60
FP-9	04.05.23	C	0 to 0.25	<0.12	<0.24	<0.24	<0.48	ND	<24	3,500	1,400	4,900	<60
FP-9a	05.11.23	C	0 to 0.25	<0.023	<0.046	<0.046	<0.093	ND	<4.6	640	360	1,000	<59
FP-10	04.05.23	C	0 to 0.25	<0.024	0.12	0.17	1.3	1.6	57	1,800	590	2,400	<60
FP-10a	05.11.23	C	0 to 0.25	<0.023	<0.047	<0.047	<0.093	ND	<4.7	2,700	1,500	4,200	<60
FP-11	04.05.23	C	0 to 0.25	<0.12	0.70	0.49	3.3	4.5	140	3,400	1,100	4,600	<60
FP-11a	05.11.23	C	0 to 0.25	<0.023	<0.046	<0.046	<0.093	ND	<4.6	2,700	1,300	4,000	<60
FP-12	04.05.23	C	0 to 0.25	<0.024	<0.048	<0.048	<0.096	ND	<4.8	790	300	1,100	<60
FP-12a	05.11.23	C	0 to 0.25	<0.025	<0.050	<0.050	<0.10	ND	<5.0	2,400	1,200	3,600	<60
FP-13	04.05.23	C	2.5	<0.015	<0.031	<0.031	<0.061	ND	<3.1	<9.8	<49	ND	<60
FP-14	04.05.23	C	2.5	<0.019	<0.038	<0.038	<0.075	ND	<3.8	<9.9	<49	ND	<60
FP-15	04.05.23	C	0 to 2.5	<0.019	<0.037	<0.037	<0.074	ND	<3.7	<8.5	<43	ND	<60
FP-16	04.05.23	C	0 to 2.5	<0.019	<0.037	<0.037	<0.075	ND	<3.7	<9.6	<48	ND	<60
FP-17	04.06.23	C	0 to 2	<0.091	<0.18	<0.18	<0.36	ND	<18	10	<50	10	<60
FP-18	04.06.23	C	0 to 2	<0.017	0.048	<0.033	<0.066	0.048	<3.3	11	<50	11	<60
FP-19	04.06.23	C	0 to 2	<0.017	<0.034	<0.034	<0.067	ND	<3.4	<9.7	<49	ND	<61
FP-21	05.11.23	C	0 to 0.25	<0.023	<0.047	<0.047	<0.093	ND	<4.7	150	59	210	<60
FP-22	05.11.23	C	0 to 0.25	<0.024	<0.049	<0.049	<0.098	ND	<4.9	12	<50	12	<60
FP-23	06.22.23	C	0 to 2	<0.024	<0.048	<0.048	<0.096	ND	<4.8	200	54	250	<60



TABLE 1
Trunk 11S (02/22/23)
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
Lower Flowpath Soil Boring Soil Samples													
LF-1	06.02.23	G	0.5	<0.025	<0.050	<0.050	<0.10	ND	<5.0	14	<46	14	<59
LF-2	06.02.23	G	0.5	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<10	<50	ND	<60
LF-3	06.02.23	G	0.25	<0.025	<0.050	<0.050	<0.10	ND	<5.0	65	49	110	<60
LF-4	06.02.23	G	0.5	<0.025	<0.050	<0.050	<0.10	ND	<5.0	20	<48	20	<60

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

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

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

NA = Not Analyzed

NE = Not established

mg/kg = milligrams per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Total 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

April 06, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Trunk 11S Feb 2023

OrderNo.: 2304001

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 11 sample(s) on 4/1/2023 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued April 5, 2023.

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 over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2304001

Date Reported: 4/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-1

Project: Trunk 11S Feb 2023

Collection Date: 3/31/2023 12:00:00 PM

Lab ID: 2304001-001

Matrix: MEOH (SOIL)

Received Date: 4/1/2023 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	4/3/2023 10:24:45 AM	74081
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/3/2023 12:12:57 PM	74073
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/3/2023 12:12:57 PM	74073
Surr: DNOP	192	69-147	S	%Rec	1	4/3/2023 12:12:57 PM	74073
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	4/3/2023 11:29:00 AM	GS95736
Surr: BFB	88.6	37.7-212		%Rec	1	4/3/2023 11:29:00 AM	GS95736
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.019		mg/Kg	1	4/3/2023 11:29:00 AM	BS95736
Toluene	ND	0.037		mg/Kg	1	4/3/2023 11:29:00 AM	BS95736
Ethylbenzene	ND	0.037		mg/Kg	1	4/3/2023 11:29:00 AM	BS95736
Xylenes, Total	ND	0.075		mg/Kg	1	4/3/2023 11:29:00 AM	BS95736
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	4/3/2023 11:29:00 AM	BS95736

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 **2304001**

Date Reported: **4/6/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-2

Project: Trunk 11S Feb 2023

Collection Date: 3/31/2023 12:05:00 PM

Lab ID: 2304001-002

Matrix: MEOH (SOIL)

Received Date: 4/1/2023 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	4/3/2023 10:37:09 AM	74081
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/3/2023 12:37:25 PM	74073
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/3/2023 12:37:25 PM	74073
Surr: DNOP	198	69-147	S	%Rec	1	4/3/2023 12:37:25 PM	74073
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	4/3/2023 11:51:00 AM	GS95736
Surr: BFB	90.0	37.7-212		%Rec	1	4/3/2023 11:51:00 AM	GS95736
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.018		mg/Kg	1	4/3/2023 11:51:00 AM	BS95736
Toluene	ND	0.036		mg/Kg	1	4/3/2023 11:51:00 AM	BS95736
Ethylbenzene	ND	0.036		mg/Kg	1	4/3/2023 11:51:00 AM	BS95736
Xylenes, Total	ND	0.072		mg/Kg	1	4/3/2023 11:51:00 AM	BS95736
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	4/3/2023 11:51:00 AM	BS95736

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 2304001

Date Reported: 4/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-3

Project: Trunk 11S Feb 2023

Collection Date: 3/31/2023 12:10:00 PM

Lab ID: 2304001-003

Matrix: MEOH (SOIL)

Received Date: 4/1/2023 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	4/3/2023 10:49:34 AM	74081
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/3/2023 1:01:32 PM	74073
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/3/2023 1:01:32 PM	74073
Surr: DNOP	199	69-147	S	%Rec	1	4/3/2023 1:01:32 PM	74073
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	4/3/2023 12:12:00 PM	GS95736
Surr: BFB	89.1	37.7-212		%Rec	1	4/3/2023 12:12:00 PM	GS95736
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.018		mg/Kg	1	4/3/2023 12:12:00 PM	BS95736
Toluene	ND	0.035		mg/Kg	1	4/3/2023 12:12:00 PM	BS95736
Ethylbenzene	ND	0.035		mg/Kg	1	4/3/2023 12:12:00 PM	BS95736
Xylenes, Total	ND	0.071		mg/Kg	1	4/3/2023 12:12:00 PM	BS95736
Surr: 4-Bromofluorobenzene	86.4	70-130		%Rec	1	4/3/2023 12:12:00 PM	BS95736

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 **2304001**

Date Reported: **4/6/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-4

Project: Trunk 11S Feb 2023

Collection Date: 3/31/2023 12:15:00 PM

Lab ID: 2304001-004

Matrix: MEOH (SOIL)

Received Date: 4/1/2023 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	4/3/2023 11:26:48 AM	74081
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	4/3/2023 1:25:52 PM	74073
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/3/2023 1:25:52 PM	74073
Surr: DNOP	204	69-147	S	%Rec	1	4/3/2023 1:25:52 PM	74073
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	4/3/2023 12:34:00 PM	GS95736
Surr: BFB	90.6	37.7-212		%Rec	1	4/3/2023 12:34:00 PM	GS95736
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.020		mg/Kg	1	4/3/2023 12:34:00 PM	BS95736
Toluene	ND	0.040		mg/Kg	1	4/3/2023 12:34:00 PM	BS95736
Ethylbenzene	ND	0.040		mg/Kg	1	4/3/2023 12:34:00 PM	BS95736
Xylenes, Total	ND	0.080		mg/Kg	1	4/3/2023 12:34:00 PM	BS95736
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	4/3/2023 12:34:00 PM	BS95736

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 **2304001**

Date Reported: **4/6/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-5

Project: Trunk 11S Feb 2023

Collection Date: 3/31/2023 12:20:00 PM

Lab ID: 2304001-005

Matrix: MEOH (SOIL)

Received Date: 4/1/2023 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	4/3/2023 11:39:13 AM	74081
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	4/3/2023 11:31:50 AM	74073
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/3/2023 11:31:50 AM	74073
Surr: DNOP	169	69-147	S	%Rec	1	4/3/2023 11:31:50 AM	74073
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	4/3/2023 12:55:00 PM	GS95736
Surr: BFB	90.7	37.7-212		%Rec	1	4/3/2023 12:55:00 PM	GS95736
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.017		mg/Kg	1	4/3/2023 12:55:00 PM	BS95736
Toluene	ND	0.034		mg/Kg	1	4/3/2023 12:55:00 PM	BS95736
Ethylbenzene	ND	0.034		mg/Kg	1	4/3/2023 12:55:00 PM	BS95736
Xylenes, Total	ND	0.067		mg/Kg	1	4/3/2023 12:55:00 PM	BS95736
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	4/3/2023 12:55:00 PM	BS95736

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 **2304001**

Date Reported: **4/6/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-6

Project: Trunk 11S Feb 2023

Collection Date: 3/31/2023 12:25:00 PM

Lab ID: 2304001-006

Matrix: MEOH (SOIL)

Received Date: 4/1/2023 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	4/3/2023 11:51:37 AM	74081
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/3/2023 11:55:50 AM	74073
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/3/2023 11:55:50 AM	74073
Surr: DNOP	86.1	69-147		%Rec	1	4/3/2023 11:55:50 AM	74073
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	4/3/2023 1:17:00 PM	GS95736
Surr: BFB	90.3	37.7-212		%Rec	1	4/3/2023 1:17:00 PM	GS95736
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.019		mg/Kg	1	4/3/2023 1:17:00 PM	BS95736
Toluene	ND	0.039		mg/Kg	1	4/3/2023 1:17:00 PM	BS95736
Ethylbenzene	ND	0.039		mg/Kg	1	4/3/2023 1:17:00 PM	BS95736
Xylenes, Total	ND	0.077		mg/Kg	1	4/3/2023 1:17:00 PM	BS95736
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	4/3/2023 1:17:00 PM	BS95736

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 **2304001**

Date Reported: **4/6/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-7

Project: Trunk 11S Feb 2023

Collection Date: 3/31/2023 12:30:00 PM

Lab ID: 2304001-007

Matrix: MEOH (SOIL)

Received Date: 4/1/2023 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	4/3/2023 12:04:02 PM	74081
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/3/2023 12:19:53 PM	74073
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/3/2023 12:19:53 PM	74073
Surr: DNOP	84.1	69-147		%Rec	1	4/3/2023 12:19:53 PM	74073
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	4/3/2023 1:39:00 PM	GS95736
Surr: BFB	88.3	37.7-212		%Rec	1	4/3/2023 1:39:00 PM	GS95736
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.018		mg/Kg	1	4/3/2023 1:39:00 PM	BS95736
Toluene	ND	0.037		mg/Kg	1	4/3/2023 1:39:00 PM	BS95736
Ethylbenzene	ND	0.037		mg/Kg	1	4/3/2023 1:39:00 PM	BS95736
Xylenes, Total	ND	0.073		mg/Kg	1	4/3/2023 1:39:00 PM	BS95736
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	4/3/2023 1:39:00 PM	BS95736

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 **2304001**

Date Reported: **4/6/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-8

Project: Trunk 11S Feb 2023

Collection Date: 3/31/2023 12:35:00 PM

Lab ID: 2304001-008

Matrix: MEOH (SOIL)

Received Date: 4/1/2023 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	4/3/2023 12:16:27 PM	74081
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	12	9.9		mg/Kg	1	4/3/2023 12:44:01 PM	74073
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/3/2023 12:44:01 PM	74073
Surr: DNOP	82.6	69-147		%Rec	1	4/3/2023 12:44:01 PM	74073
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	4/3/2023 2:00:00 PM	GS95736
Surr: BFB	88.0	37.7-212		%Rec	1	4/3/2023 2:00:00 PM	GS95736
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.017		mg/Kg	1	4/3/2023 2:00:00 PM	BS95736
Toluene	ND	0.034		mg/Kg	1	4/3/2023 2:00:00 PM	BS95736
Ethylbenzene	ND	0.034		mg/Kg	1	4/3/2023 2:00:00 PM	BS95736
Xylenes, Total	ND	0.068		mg/Kg	1	4/3/2023 2:00:00 PM	BS95736
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	1	4/3/2023 2:00:00 PM	BS95736

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 **2304001**

Date Reported: **4/6/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-9

Project: Trunk 11S Feb 2023

Collection Date: 3/31/2023 12:40:00 PM

Lab ID: 2304001-009

Matrix: MEOH (SOIL)

Received Date: 4/1/2023 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	4/3/2023 12:28:52 PM	74081
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/3/2023 1:08:13 PM	74073
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/3/2023 1:08:13 PM	74073
Surr: DNOP	86.3	69-147		%Rec	1	4/3/2023 1:08:13 PM	74073
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	4/3/2023 2:22:00 PM	GS95736
Surr: BFB	89.8	37.7-212		%Rec	1	4/3/2023 2:22:00 PM	GS95736
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.018		mg/Kg	1	4/3/2023 2:22:00 PM	BS95736
Toluene	ND	0.036		mg/Kg	1	4/3/2023 2:22:00 PM	BS95736
Ethylbenzene	ND	0.036		mg/Kg	1	4/3/2023 2:22:00 PM	BS95736
Xylenes, Total	ND	0.072		mg/Kg	1	4/3/2023 2:22:00 PM	BS95736
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	4/3/2023 2:22:00 PM	BS95736

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 **2304001**

Date Reported: **4/6/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-10

Project: Trunk 11S Feb 2023

Collection Date: 3/31/2023 12:45:00 PM

Lab ID: 2304001-010

Matrix: MEOH (SOIL)

Received Date: 4/1/2023 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	4/3/2023 12:41:17 PM	74081
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/3/2023 1:32:03 PM	74073
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/3/2023 1:32:03 PM	74073
Surr: DNOP	87.1	69-147		%Rec	1	4/3/2023 1:32:03 PM	74073
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	4/3/2023 2:43:00 PM	GS95736
Surr: BFB	86.1	37.7-212		%Rec	1	4/3/2023 2:43:00 PM	GS95736
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.018		mg/Kg	1	4/3/2023 2:43:00 PM	BS95736
Toluene	ND	0.037		mg/Kg	1	4/3/2023 2:43:00 PM	BS95736
Ethylbenzene	ND	0.037		mg/Kg	1	4/3/2023 2:43:00 PM	BS95736
Xylenes, Total	ND	0.073		mg/Kg	1	4/3/2023 2:43:00 PM	BS95736
Surr: 4-Bromofluorobenzene	81.3	70-130		%Rec	1	4/3/2023 2:43:00 PM	BS95736

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 2304001

Date Reported: 4/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-11

Project: Trunk 11S Feb 2023

Collection Date: 3/31/2023 12:50:00 PM

Lab ID: 2304001-011

Matrix: MEOH (SOIL)

Received Date: 4/1/2023 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	4/3/2023 12:53:41 PM	74081
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/3/2023 1:55:50 PM	74073
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/3/2023 1:55:50 PM	74073
Surr: DNOP	89.9	69-147		%Rec	1	4/3/2023 1:55:50 PM	74073
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	4/3/2023 3:26:00 PM	GS95736
Surr: BFB	86.6	37.7-212		%Rec	1	4/3/2023 3:26:00 PM	GS95736
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.017		mg/Kg	1	4/3/2023 3:26:00 PM	BS95736
Toluene	ND	0.035		mg/Kg	1	4/3/2023 3:26:00 PM	BS95736
Ethylbenzene	ND	0.035		mg/Kg	1	4/3/2023 3:26:00 PM	BS95736
Xylenes, Total	ND	0.070		mg/Kg	1	4/3/2023 3:26:00 PM	BS95736
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	4/3/2023 3:26:00 PM	BS95736

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#: 2304001

06-Apr-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: MB-74081	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 74081	RunNo: 95740								
Prep Date: 4/3/2023	Analysis Date: 4/3/2023	SeqNo: 3466259	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-74081	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 74081	RunNo: 95740								
Prep Date: 4/3/2023	Analysis Date: 4/3/2023	SeqNo: 3466260	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#: 2304001

06-Apr-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: MB-74073	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 74073	RunNo: 95739								
Prep Date: 4/3/2023	Analysis Date: 4/3/2023	SeqNo: 3465252	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	19		10.00		192	69	147			S

Sample ID: LCS-74073	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 74073	RunNo: 95739								
Prep Date: 4/3/2023	Analysis Date: 4/3/2023	SeqNo: 3465253	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.9	61.9	130			
Surr: DNOP	5.1		5.000		101	69	147			

Sample ID: 2304001-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1	Batch ID: 74073	RunNo: 95739								
Prep Date: 4/3/2023	Analysis Date: 4/3/2023	SeqNo: 3465255	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.2	45.79	0	98.6	54.2	135			
Surr: DNOP	5.0		4.579		109	69	147			

Sample ID: 2304001-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: S-1	Batch ID: 74073	RunNo: 95739								
Prep Date: 4/3/2023	Analysis Date: 4/3/2023	SeqNo: 3465348	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.7	48.50	0	98.6	54.2	135	5.73	29.2	
Surr: DNOP	5.3		4.850		109	69	147	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#: 2304001

06-Apr-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: GS95736	RunNo: 95736								
Prep Date:	Analysis Date: 4/3/2023	SeqNo: 3465155	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	95.6	70	130			
Surr: BFB	2200		1000		222	37.7	212			S

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: GS95736	RunNo: 95736								
Prep Date:	Analysis Date: 4/3/2023	SeqNo: 3465156	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	1000		1000		99.6	37.7	212			

Sample ID: 2304001-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-1	Batch ID: GS95736	RunNo: 95736								
Prep Date:	Analysis Date: 4/3/2023	SeqNo: 3466186	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.7	18.67	0	87.8	70	130			
Surr: BFB	1400		746.8		194	37.7	212			

Sample ID: 2304001-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S-1	Batch ID: GS95736	RunNo: 95736								
Prep Date:	Analysis Date: 4/3/2023	SeqNo: 3466187	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.7	18.67	0	90.5	70	130	3.01	20	
Surr: BFB	1400		746.8		187	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#: 2304001

06-Apr-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: BS95736	RunNo: 95736								
Prep Date:	Analysis Date: 4/3/2023	SeqNo: 3465178			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	93.8	80	120			
Toluene	0.95	0.050	1.000	0	95.1	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: BS95736	RunNo: 95736								
Prep Date:	Analysis Date: 4/3/2023	SeqNo: 3465179			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		97.9	70	130			

Sample ID: 2304001-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-2	Batch ID: BS95736	RunNo: 95736								
Prep Date:	Analysis Date: 4/3/2023	SeqNo: 3466204			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.66	0.018	0.7194	0	91.6	68.8	120			
Toluene	0.66	0.036	0.7194	0	91.9	73.6	124			
Ethylbenzene	0.65	0.036	0.7194	0	90.4	72.7	129			
Xylenes, Total	1.9	0.072	2.158	0	89.6	75.7	126			
Surr: 4-Bromofluorobenzene	0.63		0.7194		87.2	70	130			

Sample ID: 2304001-002AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-2	Batch ID: BS95736	RunNo: 95736								
Prep Date:	Analysis Date: 4/3/2023	SeqNo: 3466205			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.64	0.018	0.7194	0	88.3	68.8	120	3.69	20	
Toluene	0.64	0.036	0.7194	0	88.7	73.6	124	3.53	20	
Ethylbenzene	0.63	0.036	0.7194	0	87.3	72.7	129	3.48	20	
Xylenes, Total	1.9	0.072	2.158	0	86.8	75.7	126	3.17	20	
Surr: 4-Bromofluorobenzene	0.62		0.7194		86.6	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: **2304001** RcptNo: **1**

Received By: **Cheyenne Gason** 4/1/2023 8:50:00 AM *Chad*
Completed By: **Cheyenne Gason** 4/1/2023 9:04:09 AM *Chad*
Reviewed By: **TMC** 4/1/23

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: *CMC 4/1/23*

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	0.0	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Ensolium, LLC
 Mailing Address: 606 S. Rinconade Suite A
Alto NM 87410
 Phone #: _____

email or Fax#: ksummers@ensolium.com
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type) _____

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
3/31/23	1200	S	S-1	(1) 4oz Jar	COOL	230400
3/31/23	1205	S	S-2	(1) 4oz Jar	COOL	007 001 Cmc 4/1/23
3/31/23	1210	S	S-3	(1) 4oz Jar	COOL	003
3/31/23	1215	S	S-4	(1) 4oz Jar	COOL	004
3/31/23	1220	S	S-5	(1) 4oz Jar	COOL	005
3/31/23	1225	S	S-6	(1) 4oz Jar	COOL	006
3/31/23	1230	S	S-7	(1) 4oz Jar	COOL	007
3/31/23	1235	S	S-8	(1) 4oz Jar	COOL	008
3/31/23	1240	S	S-9	(1) 4oz Jar	COOL	009
3/31/23	1245	S	S-10	(1) 4oz Jar	COOL	010
3/31/23	1250	S	S-11	(1) 4oz Jar	COOL	011

Date: 3/31/23 Time: 1548 Relinquished by: [Signature]
 Date: 3/31/23 Time: 1809 Relinquished by: [Signature]

Turn-Around Time: SAME DAY
 Standard Rush 100%
 Project Name: Trunk US (Feb 2023)
 Project #: See notes

Project Manager: ksummers
 Sampler: R Dechilly
 On Ice: Yes No Yog.
 # of Coolers: 1

Container Type and #	Preservative Type	HEAL No.	Cooler Temp (including CF):
(1) 4oz Jar	COOL	007 001 Cmc 4/1/23	0.1 -0.1 = 0.0 (°C)
(1) 4oz Jar	COOL	002	
(1) 4oz Jar	COOL	003	
(1) 4oz Jar	COOL	004	
(1) 4oz Jar	COOL	005	
(1) 4oz Jar	COOL	006	
(1) 4oz Jar	COOL	007	
(1) 4oz Jar	COOL	008	
(1) 4oz Jar	COOL	009	
(1) 4oz Jar	COOL	010	
(1) 4oz Jar	COOL	011	

Received by: [Signature] Date: 3/31/23 Time: 1548
 Received by: [Signature] Date: 03/31/23 Time: _____
 Via: Cmc Courm Date: 3/4/23 Time: 0850



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 / TMBs (8021)	X
TPH:8015D(GRO / DRO / MRO)	X
8081 Pesticides/8082 PCBs	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	X Chloride

Remarks: SAME DAY
PM-TOM LONG (EPDOD)
NON AFE - N64995
Pay Day - P621200



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

April 12, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Trunk 11S Feb 2023

OrderNo.: 2304254

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 12 sample(s) on 4/6/2023 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 in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2304254

Date Reported: 4/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-1

Project: Trunk 11S Feb 2023

Collection Date: 4/5/2023 10:30:00 AM

Lab ID: 2304254-001

Matrix: SOIL

Received Date: 4/6/2023 6:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/8/2023 2:10:12 AM	74211
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	66	10		mg/Kg	1	4/10/2023 11:36:51 AM	74198
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/10/2023 11:36:51 AM	74198
Surr: DNOP	92.0	69-147		%Rec	1	4/10/2023 11:36:51 AM	74198
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/8/2023 11:21:59 PM	74179
Surr: BFB	95.5	37.7-212		%Rec	1	4/8/2023 11:21:59 PM	74179
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	4/10/2023 1:04:39 PM	74179
Toluene	ND	0.047		mg/Kg	1	4/10/2023 1:04:39 PM	74179
Ethylbenzene	ND	0.047		mg/Kg	1	4/10/2023 1:04:39 PM	74179
Xylenes, Total	ND	0.094		mg/Kg	1	4/10/2023 1:04:39 PM	74179
Surr: 4-Bromofluorobenzene	81.8	70-130		%Rec	1	4/10/2023 1:04:39 PM	74179

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 2304254

Date Reported: 4/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-2

Project: Trunk 11S Feb 2023

Collection Date: 4/5/2023 10:35:00 AM

Lab ID: 2304254-002

Matrix: SOIL

Received Date: 4/6/2023 6:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/8/2023 2:22:37 AM	74211
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	660	9.7		mg/Kg	1	4/10/2023 11:47:27 AM	74202
Motor Oil Range Organics (MRO)	390	48		mg/Kg	1	4/10/2023 11:47:27 AM	74202
Surr: DNOP	91.9	69-147		%Rec	1	4/10/2023 11:47:27 AM	74202
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/8/2023 12:46:00 AM	74186
Surr: BFB	98.0	37.7-212		%Rec	1	4/8/2023 12:46:00 AM	74186
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	4/8/2023 12:46:00 AM	74186
Toluene	ND	0.048		mg/Kg	1	4/8/2023 12:46:00 AM	74186
Ethylbenzene	ND	0.048		mg/Kg	1	4/8/2023 12:46:00 AM	74186
Xylenes, Total	ND	0.095		mg/Kg	1	4/8/2023 12:46:00 AM	74186
Surr: 4-Bromofluorobenzene	88.8	70-130		%Rec	1	4/8/2023 12:46:00 AM	74186

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 2304254

Date Reported: 4/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-3

Project: Trunk 11S Feb 2023

Collection Date: 4/5/2023 10:40:00 AM

Lab ID: 2304254-003

Matrix: SOIL

Received Date: 4/6/2023 6:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/8/2023 2:35:01 AM	74211
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	550	9.8		mg/Kg	1	4/10/2023 12:28:57 PM	74202
Motor Oil Range Organics (MRO)	270	49		mg/Kg	1	4/10/2023 12:28:57 PM	74202
Surr: DNOP	86.8	69-147		%Rec	1	4/10/2023 12:28:57 PM	74202
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/8/2023 1:51:00 AM	74186
Surr: BFB	95.7	37.7-212		%Rec	1	4/8/2023 1:51:00 AM	74186
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	4/8/2023 1:51:00 AM	74186
Toluene	ND	0.048		mg/Kg	1	4/8/2023 1:51:00 AM	74186
Ethylbenzene	ND	0.048		mg/Kg	1	4/8/2023 1:51:00 AM	74186
Xylenes, Total	ND	0.096		mg/Kg	1	4/8/2023 1:51:00 AM	74186
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	4/8/2023 1:51:00 AM	74186

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 2304254

Date Reported: 4/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-4

Project: Trunk 11S Feb 2023

Collection Date: 4/5/2023 10:45:00 AM

Lab ID: 2304254-004

Matrix: SOIL

Received Date: 4/6/2023 6:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/8/2023 2:47:25 AM	74211
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	1700	100		mg/Kg	10	4/10/2023 1:48:08 PM	74202
Motor Oil Range Organics (MRO)	840	500		mg/Kg	10	4/10/2023 1:48:08 PM	74202
Surr: DNOP	0	69-147	S	%Rec	10	4/10/2023 1:48:08 PM	74202
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	94	5.0		mg/Kg	1	4/8/2023 2:55:00 AM	74186
Surr: BFB	146	37.7-212		%Rec	1	4/8/2023 2:55:00 AM	74186
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	0.059	0.025		mg/Kg	1	4/8/2023 2:55:00 AM	74186
Toluene	1.0	0.050		mg/Kg	1	4/8/2023 2:55:00 AM	74186
Ethylbenzene	0.26	0.050		mg/Kg	1	4/8/2023 2:55:00 AM	74186
Xylenes, Total	1.8	0.099		mg/Kg	1	4/8/2023 2:55:00 AM	74186
Surr: 4-Bromofluorobenzene	126	70-130		%Rec	1	4/8/2023 2:55:00 AM	74186

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 2304254

Date Reported: 4/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-5

Project: Trunk 11S Feb 2023

Collection Date: 4/5/2023 10:50:00 AM

Lab ID: 2304254-005

Matrix: SOIL

Received Date: 4/6/2023 6:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/8/2023 12:18:29 AM	74211
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	2200	96		mg/Kg	10	4/10/2023 2:17:20 PM	74202
Motor Oil Range Organics (MRO)	810	480		mg/Kg	10	4/10/2023 2:17:20 PM	74202
Surr: DNOP	0	69-147	S	%Rec	10	4/10/2023 2:17:20 PM	74202
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	140	24		mg/Kg	5	4/8/2023 3:17:00 AM	74186
Surr: BFB	215	37.7-212	S	%Rec	5	4/8/2023 3:17:00 AM	74186
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.12		mg/Kg	5	4/8/2023 3:17:00 AM	74186
Toluene	0.61	0.24		mg/Kg	5	4/8/2023 3:17:00 AM	74186
Ethylbenzene	0.57	0.24		mg/Kg	5	4/8/2023 3:17:00 AM	74186
Xylenes, Total	4.0	0.48		mg/Kg	5	4/8/2023 3:17:00 AM	74186
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	5	4/8/2023 3:17:00 AM	74186

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 2304254

Date Reported: 4/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-6

Project: Trunk 11S Feb 2023

Collection Date: 4/5/2023 10:55:00 AM

Lab ID: 2304254-006

Matrix: SOIL

Received Date: 4/6/2023 6:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/8/2023 12:30:53 AM	74211
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	340	9.5		mg/Kg	1	4/10/2023 4:01:40 PM	74202
Motor Oil Range Organics (MRO)	150	48		mg/Kg	1	4/10/2023 4:01:40 PM	74202
Surr: DNOP	84.6	69-147		%Rec	1	4/10/2023 4:01:40 PM	74202
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	13	5.0		mg/Kg	1	4/8/2023 3:38:00 AM	74186
Surr: BFB	143	37.7-212		%Rec	1	4/8/2023 3:38:00 AM	74186
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	4/8/2023 3:38:00 AM	74186
Toluene	0.16	0.050		mg/Kg	1	4/8/2023 3:38:00 AM	74186
Ethylbenzene	0.055	0.050		mg/Kg	1	4/8/2023 3:38:00 AM	74186
Xylenes, Total	0.40	0.099		mg/Kg	1	4/8/2023 3:38:00 AM	74186
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	4/8/2023 3:38:00 AM	74186

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 2304254

Date Reported: 4/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-7

Project: Trunk 11S Feb 2023

Collection Date: 4/5/2023 11:00:00 AM

Lab ID: 2304254-007

Matrix: SOIL

Received Date: 4/6/2023 6:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/8/2023 1:08:08 AM	74211
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	260	9.5		mg/Kg	1	4/10/2023 4:22:46 PM	74202
Motor Oil Range Organics (MRO)	130	47		mg/Kg	1	4/10/2023 4:22:46 PM	74202
Surr: DNOP	91.4	69-147		%Rec	1	4/10/2023 4:22:46 PM	74202
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	6.9	4.9		mg/Kg	1	4/8/2023 4:00:00 AM	74186
Surr: BFB	123	37.7-212		%Rec	1	4/8/2023 4:00:00 AM	74186
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	4/8/2023 4:00:00 AM	74186
Toluene	0.051	0.049		mg/Kg	1	4/8/2023 4:00:00 AM	74186
Ethylbenzene	ND	0.049		mg/Kg	1	4/8/2023 4:00:00 AM	74186
Xylenes, Total	0.16	0.099		mg/Kg	1	4/8/2023 4:00:00 AM	74186
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	4/8/2023 4:00:00 AM	74186

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 2304254

Date Reported: 4/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-8

Project: Trunk 11S Feb 2023

Collection Date: 4/5/2023 11:05:00 AM

Lab ID: 2304254-008

Matrix: SOIL

Received Date: 4/6/2023 6:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/8/2023 1:20:33 AM	74211
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	26	10		mg/Kg	1	4/10/2023 1:13:03 PM	74202
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/10/2023 1:13:03 PM	74202
Surr: DNOP	103	69-147		%Rec	1	4/10/2023 1:13:03 PM	74202
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/8/2023 4:21:00 AM	74186
Surr: BFB	90.6	37.7-212		%Rec	1	4/8/2023 4:21:00 AM	74186
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	4/8/2023 4:21:00 AM	74186
Toluene	0.29	0.049		mg/Kg	1	4/8/2023 4:21:00 AM	74186
Ethylbenzene	ND	0.049		mg/Kg	1	4/8/2023 4:21:00 AM	74186
Xylenes, Total	0.18	0.099		mg/Kg	1	4/8/2023 4:21:00 AM	74186
Surr: 4-Bromofluorobenzene	88.8	70-130		%Rec	1	4/8/2023 4:21:00 AM	74186

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 2304254

Date Reported: 4/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-9

Project: Trunk 11S Feb 2023

Collection Date: 4/5/2023 11:10:00 AM

Lab ID: 2304254-009

Matrix: SOIL

Received Date: 4/6/2023 6:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/8/2023 1:32:58 AM	74211
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	3500	95		mg/Kg	10	4/10/2023 2:39:56 PM	74202
Motor Oil Range Organics (MRO)	1400	480		mg/Kg	10	4/10/2023 2:39:56 PM	74202
Surr: DNOP	0	69-147	S	%Rec	10	4/10/2023 2:39:56 PM	74202
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	4/8/2023 4:43:00 AM	74186
Surr: BFB	117	37.7-212		%Rec	5	4/8/2023 4:43:00 AM	74186
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.12		mg/Kg	5	4/8/2023 4:43:00 AM	74186
Toluene	ND	0.24		mg/Kg	5	4/8/2023 4:43:00 AM	74186
Ethylbenzene	ND	0.24		mg/Kg	5	4/8/2023 4:43:00 AM	74186
Xylenes, Total	ND	0.48		mg/Kg	5	4/8/2023 4:43:00 AM	74186
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	5	4/8/2023 4:43:00 AM	74186

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 2304254

Date Reported: 4/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-10

Project: Trunk 11S Feb 2023

Collection Date: 4/5/2023 11:15:00 AM

Lab ID: 2304254-010

Matrix: SOIL

Received Date: 4/6/2023 6:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/8/2023 1:45:23 AM	74211
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	1800	100		mg/Kg	10	4/10/2023 3:01:12 PM	74202
Motor Oil Range Organics (MRO)	590	500		mg/Kg	10	4/10/2023 3:01:12 PM	74202
Surr: DNOP	0	69-147	S	%Rec	10	4/10/2023 3:01:12 PM	74202
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	57	4.8		mg/Kg	1	4/8/2023 5:05:00 AM	74186
Surr: BFB	163	37.7-212		%Rec	1	4/8/2023 5:05:00 AM	74186
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	4/8/2023 5:05:00 AM	74186
Toluene	0.12	0.048		mg/Kg	1	4/8/2023 5:05:00 AM	74186
Ethylbenzene	0.17	0.048		mg/Kg	1	4/8/2023 5:05:00 AM	74186
Xylenes, Total	1.3	0.097		mg/Kg	1	4/8/2023 5:05:00 AM	74186
Surr: 4-Bromofluorobenzene	148	70-130	S	%Rec	1	4/8/2023 5:05:00 AM	74186

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 2304254

Date Reported: 4/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-11

Project: Trunk 11S Feb 2023

Collection Date: 4/5/2023 11:20:00 AM

Lab ID: 2304254-011

Matrix: SOIL

Received Date: 4/6/2023 6:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/10/2023 1:44:09 PM	74213
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	3400	99		mg/Kg	10	4/11/2023 11:32:29 AM	74202
Motor Oil Range Organics (MRO)	1100	500		mg/Kg	10	4/11/2023 11:32:29 AM	74202
Surr: DNOP	0	69-147	S	%Rec	10	4/11/2023 11:32:29 AM	74202
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	140	25		mg/Kg	5	4/8/2023 5:26:00 AM	74186
Surr: BFB	204	37.7-212		%Rec	5	4/8/2023 5:26:00 AM	74186
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.12		mg/Kg	5	4/8/2023 5:26:00 AM	74186
Toluene	0.70	0.25		mg/Kg	5	4/8/2023 5:26:00 AM	74186
Ethylbenzene	0.49	0.25		mg/Kg	5	4/8/2023 5:26:00 AM	74186
Xylenes, Total	3.3	0.49		mg/Kg	5	4/8/2023 5:26:00 AM	74186
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	5	4/8/2023 5:26:00 AM	74186

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 2304254

Date Reported: 4/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-12

Project: Trunk 11S Feb 2023

Collection Date: 4/5/2023 11:25:00 AM

Lab ID: 2304254-012

Matrix: SOIL

Received Date: 4/6/2023 6:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/10/2023 1:56:34 PM	74213
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	790	9.7		mg/Kg	1	4/10/2023 1:24:13 PM	74202
Motor Oil Range Organics (MRO)	300	48		mg/Kg	1	4/10/2023 1:24:13 PM	74202
Surr: DNOP	102	69-147		%Rec	1	4/10/2023 1:24:13 PM	74202
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/8/2023 6:09:00 AM	74186
Surr: BFB	115	37.7-212		%Rec	1	4/8/2023 6:09:00 AM	74186
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	4/8/2023 6:09:00 AM	74186
Toluene	ND	0.048		mg/Kg	1	4/8/2023 6:09:00 AM	74186
Ethylbenzene	ND	0.048		mg/Kg	1	4/8/2023 6:09:00 AM	74186
Xylenes, Total	ND	0.096		mg/Kg	1	4/8/2023 6:09:00 AM	74186
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	4/8/2023 6:09:00 AM	74186

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#: 2304254

12-Apr-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: MB-74211	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 74211	RunNo: 95862								
Prep Date: 4/7/2023	Analysis Date: 4/7/2023	SeqNo: 3471550	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-74211	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 74211	RunNo: 95862								
Prep Date: 4/7/2023	Analysis Date: 4/7/2023	SeqNo: 3471551	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.9	90	110			

Sample ID: MB-74213	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 74213	RunNo: 95905								
Prep Date: 4/7/2023	Analysis Date: 4/10/2023	SeqNo: 3472742	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-74213	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 74213	RunNo: 95905								
Prep Date: 4/7/2023	Analysis Date: 4/10/2023	SeqNo: 3472743	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.8	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#: 2304254

12-Apr-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: LCS-74202	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 74202		RunNo: 95894							
Prep Date: 4/7/2023	Analysis Date: 4/10/2023		SeqNo: 3472132		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.3	61.9	130			
Surr: DNOP	4.5		5.000		90.2	69	147			

Sample ID: MB-74202	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 74202		RunNo: 95894							
Prep Date: 4/7/2023	Analysis Date: 4/10/2023		SeqNo: 3472133		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.2	69	147			

Sample ID: MB-74198	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 74198		RunNo: 95898							
Prep Date: 4/7/2023	Analysis Date: 4/10/2023		SeqNo: 3472268		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.3		10.00		83.4	69	147			

Sample ID: LCS-74198	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 74198		RunNo: 95898							
Prep Date: 4/7/2023	Analysis Date: 4/10/2023		SeqNo: 3472269		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.8	61.9	130			
Surr: DNOP	4.4		5.000		88.5	69	147			

Sample ID: 2304254-002AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: FP-2	Batch ID: 74202		RunNo: 95894							
Prep Date: 4/7/2023	Analysis Date: 4/11/2023		SeqNo: 3472598		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	770	9.4	47.21	663.8	215	54.2	135			S
Surr: DNOP	4.1		4.721		86.0	69	147			

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#: 2304254

12-Apr-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: 2304254-002AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: FP-2	Batch ID: 74202	RunNo: 95894								
Prep Date: 4/7/2023	Analysis Date: 4/11/2023	SeqNo: 3472599			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	700	9.6	48.22	663.8	85.4	54.2	135	8.21	29.2	
Surr: DNOP	3.9		4.822		81.4	69	147	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#: 2304254

12-Apr-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: ics-74186	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 74186		RunNo: 95861							
Prep Date: 4/6/2023	Analysis Date: 4/7/2023		SeqNo: 3471592		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	93.0	70	130			
Surr: BFB	2000		1000		200	37.7	212			

Sample ID: mb-74186	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 74186		RunNo: 95861							
Prep Date: 4/6/2023	Analysis Date: 4/8/2023		SeqNo: 3471593		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		88.8	37.7	212			

Sample ID: 2304254-002ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: FP-2	Batch ID: 74186		RunNo: 95861							
Prep Date: 4/6/2023	Analysis Date: 4/8/2023		SeqNo: 3471595		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.90	0	102	70	130			
Surr: BFB	2000		956.0		212	37.7	212			S

Sample ID: 2304254-002amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: FP-2	Batch ID: 74186		RunNo: 95861							
Prep Date: 4/6/2023	Analysis Date: 4/8/2023		SeqNo: 3471596		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	23.99	0	102	70	130	0.972	20	
Surr: BFB	2000		959.7		210	37.7	212	0	0	

Sample ID: ics-74179	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 74179		RunNo: 95869							
Prep Date: 4/6/2023	Analysis Date: 4/8/2023		SeqNo: 3471789		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	90.2	70	130			
Surr: BFB	1900		1000		185	37.7	212			

Sample ID: mb-74179	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 74179		RunNo: 95869							
Prep Date: 4/6/2023	Analysis Date: 4/8/2023		SeqNo: 3471791		Units: mg/Kg					
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#: 2304254

12-Apr-23

Client: ENSOLUM

Project: Trunk 11S Feb 2023

Sample ID: mb-74179	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 74179	RunNo: 95869								
Prep Date: 4/6/2023	Analysis Date: 4/8/2023	SeqNo: 3471791	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	970		1000		96.7	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#: 2304254

12-Apr-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: ics-74186	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 74186		RunNo: 95861							
Prep Date: 4/6/2023	Analysis Date: 4/8/2023		SeqNo: 3471696		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.7	80	120			
Toluene	0.85	0.050	1.000	0	84.8	80	120			
Ethylbenzene	0.83	0.050	1.000	0	83.4	80	120			
Xylenes, Total	2.5	0.10	3.000	0	82.2	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.0	70	130			

Sample ID: mb-74186	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 74186		RunNo: 95861							
Prep Date: 4/6/2023	Analysis Date: 4/8/2023		SeqNo: 3471699		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	0.88		1.000		88.1	70	130			

Sample ID: 2304254-003ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: FP-3	Batch ID: 74186		RunNo: 95861							
Prep Date: 4/6/2023	Analysis Date: 4/8/2023		SeqNo: 3471710		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9625	0	91.0	68.8	120			
Toluene	0.90	0.048	0.9625	0	93.7	73.6	124			
Ethylbenzene	0.91	0.048	0.9625	0	94.2	72.7	129			
Xylenes, Total	2.7	0.096	2.887	0	92.6	75.7	126			
Surr: 4-Bromofluorobenzene	0.86		0.9625		89.1	70	130			

Sample ID: 2304254-003amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: FP-3	Batch ID: 74186		RunNo: 95861							
Prep Date: 4/6/2023	Analysis Date: 4/8/2023		SeqNo: 3471712		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9615	0	90.9	68.8	120	0.167	20	
Toluene	0.91	0.048	0.9615	0	95.1	73.6	124	1.40	20	
Ethylbenzene	0.92	0.048	0.9615	0	95.4	72.7	129	1.13	20	
Xylenes, Total	2.7	0.096	2.885	0	94.2	75.7	126	1.64	20	
Surr: 4-Bromofluorobenzene	0.89		0.9615		92.3	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2304254

12-Apr-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: LCS-74179	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 74179		RunNo: 95869							
Prep Date: 4/6/2023	Analysis Date: 4/8/2023		SeqNo: 3473502		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.0	80	120			
Toluene	0.87	0.050	1.000	0	86.6	80	120			
Ethylbenzene	0.85	0.050	1.000	0	85.0	80	120			
Xylenes, Total	2.5	0.10	3.000	0	84.5	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		84.2	70	130			

Sample ID: mb-74179	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 74179		RunNo: 95869							
Prep Date: 4/6/2023	Analysis Date: 4/8/2023		SeqNo: 3473503		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	0.83		1.000		83.3	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of 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: 2304254 RcptNo: 1

Received By: Tracy Casarrubias 4/6/2023 6:15:00 AM

Completed By: Tracy Casarrubias 4/6/2023 6:39:11 AM

Reviewed By: [Signature]

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

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

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: Missing phone number on COC - TMC 4/6/23

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, Good, Yes, Morty, ,

Chain-of-Custody Record

Client: Ensolium, LLC
 Mailing Address: 606 S. Rio Grande Suite A
Albany, NM 87406
 Phone #: _____

email or Fax#: ksummers@ensolium.com
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: Az Compliance NELAC Other
 EDD (Type) _____

Turn-Around Time: Standard Rush 3-DAY
 Project Name: TRUNK 11S (Feb 2023)
 Project #: See notes

Project Manager: ksummers
 Sampler: R Deechilly
 On Ice: Yes No morly
 # of Coolers: 1
 Cooler Temp (including CF): 0.1 - 0.1 = 0 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
4/5/23	1030	S	FP-1	(1) 4oz Jar	COOL	2304254 001
4/5/23	1035	S	FP-2	(1) 4oz Jar	COOL	002
4/5/23	1040	S	FP-3	(1) 4oz Jar	COOL	003
4/5/23	1045	S	FP-4	(1) 4oz Jar	COOL	004
4/5/23	1050	S	FP-5	(1) 4oz Jar	COOL	005
4/5/23	1055	S	FP-6	(1) 4oz Jar	COOL	006
4/5/23	1100	S	FP-7	(1) 4oz Jar	COOL	007
4/5/23	1105	S	FP-8	(1) 4oz Jar	COOL	008
4/5/23	1110	S	FP-9	(1) 4oz Jar	COOL	009
4/5/23	1115	S	FP-10	(1) 4oz Jar	COOL	010
4/5/23	1120	S	FP-11	(1) 4oz Jar	COOL	011
4/5/23	1125	S	FP-12	(1) 4oz Jar	COOL	012

Date: 4/5/23 Time: 1625 Relinquished by: [Signature]
 Date: 4/5/23 Time: 1806 Relinquished by: [Signature]



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

Remarks: PM - Tom Long (EP200)
Pay Key - RB21200
NUN AFE - N64995



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

April 07, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Trunk 11S (Feb 2023)

OrderNo.: 2304253

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/6/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2304253**

Date Reported: **4/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-13

Project: Trunk 11S (Feb 2023)

Collection Date: 4/5/2023 12:50:00 PM

Lab ID: 2304253-001

Matrix: MEOH (SOIL)

Received Date: 4/6/2023 6:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/6/2023 11:47:43 AM	74167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/6/2023 12:09:41 PM	74160
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/6/2023 12:09:41 PM	74160
Surr: DNOP	87.5	69-147		%Rec	1	4/6/2023 12:09:41 PM	74160
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	4/6/2023 11:07:00 AM	GS95830
Surr: BFB	97.0	37.7-212		%Rec	1	4/6/2023 11:07:00 AM	GS95830
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.015		mg/Kg	1	4/6/2023 11:07:00 AM	R95830
Toluene	ND	0.031		mg/Kg	1	4/6/2023 11:07:00 AM	R95830
Ethylbenzene	ND	0.031		mg/Kg	1	4/6/2023 11:07:00 AM	R95830
Xylenes, Total	ND	0.061		mg/Kg	1	4/6/2023 11:07:00 AM	R95830
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	4/6/2023 11:07:00 AM	R95830

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 **2304253**

Date Reported: **4/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-14

Project: Trunk 11S (Feb 2023)

Collection Date: 4/5/2023 12:55:00 PM

Lab ID: 2304253-002

Matrix: MEOH (SOIL)

Received Date: 4/6/2023 6:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/6/2023 12:00:08 PM	74167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/6/2023 12:22:35 PM	74160
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/6/2023 12:22:35 PM	74160
Surr: DNOP	86.8	69-147		%Rec	1	4/6/2023 12:22:35 PM	74160
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	4/6/2023 11:29:00 AM	GS95830
Surr: BFB	96.0	37.7-212		%Rec	1	4/6/2023 11:29:00 AM	GS95830
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.019		mg/Kg	1	4/6/2023 11:29:00 AM	BS95830
Toluene	ND	0.038		mg/Kg	1	4/6/2023 11:29:00 AM	BS95830
Ethylbenzene	ND	0.038		mg/Kg	1	4/6/2023 11:29:00 AM	BS95830
Xylenes, Total	ND	0.075		mg/Kg	1	4/6/2023 11:29:00 AM	BS95830
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	4/6/2023 11:29:00 AM	BS95830

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 **2304253**

Date Reported: **4/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-15

Project: Trunk 11S (Feb 2023)

Collection Date: 4/5/2023 1:00:00 PM

Lab ID: 2304253-003

Matrix: MEOH (SOIL)

Received Date: 4/6/2023 6:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/6/2023 12:37:21 PM	74167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	4/6/2023 12:35:48 PM	74160
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	4/6/2023 12:35:48 PM	74160
Surr: DNOP	89.8	69-147		%Rec	1	4/6/2023 12:35:48 PM	74160
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	4/6/2023 11:50:00 AM	GS95830
Surr: BFB	91.2	37.7-212		%Rec	1	4/6/2023 11:50:00 AM	GS95830
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.019		mg/Kg	1	4/6/2023 11:50:00 AM	BS95830
Toluene	ND	0.037		mg/Kg	1	4/6/2023 11:50:00 AM	BS95830
Ethylbenzene	ND	0.037		mg/Kg	1	4/6/2023 11:50:00 AM	BS95830
Xylenes, Total	ND	0.074		mg/Kg	1	4/6/2023 11:50:00 AM	BS95830
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	4/6/2023 11:50:00 AM	BS95830

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 **2304253**

Date Reported: **4/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-16

Project: Trunk 11S (Feb 2023)

Collection Date: 4/5/2023 1:05:00 PM

Lab ID: 2304253-004

Matrix: MEOH (SOIL)

Received Date: 4/6/2023 6:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/6/2023 12:49:45 PM	74167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/6/2023 12:48:38 PM	74160
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/6/2023 12:48:38 PM	74160
Surr: DNOP	90.5	69-147		%Rec	1	4/6/2023 12:48:38 PM	74160
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	4/6/2023 12:12:00 PM	GS95830
Surr: BFB	96.4	37.7-212		%Rec	1	4/6/2023 12:12:00 PM	GS95830
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.019		mg/Kg	1	4/6/2023 12:12:00 PM	BS95830
Toluene	ND	0.037		mg/Kg	1	4/6/2023 12:12:00 PM	BS95830
Ethylbenzene	ND	0.037		mg/Kg	1	4/6/2023 12:12:00 PM	BS95830
Xylenes, Total	ND	0.075		mg/Kg	1	4/6/2023 12:12:00 PM	BS95830
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	4/6/2023 12:12:00 PM	BS95830

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#: 2304253

07-Apr-23

Client: ENSOLUM

Project: Trunk 11S (Feb 2023)

Sample ID: MB-74167	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 74167	RunNo: 95836								
Prep Date: 4/6/2023	Analysis Date: 4/6/2023	SeqNo: 3470272	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-74167	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 74167	RunNo: 95836								
Prep Date: 4/6/2023	Analysis Date: 4/6/2023	SeqNo: 3470273	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.0	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2304253

07-Apr-23

Client: ENSOLUM

Project: Trunk 11S (Feb 2023)

Sample ID: MB-74160	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 74160	RunNo: 95835								
Prep Date: 4/6/2023	Analysis Date: 4/6/2023	SeqNo: 3469229	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		86.6	69	147			

Sample ID: LCS-74160	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 74160	RunNo: 95835								
Prep Date: 4/6/2023	Analysis Date: 4/6/2023	SeqNo: 3469230	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.8	61.9	130			
Surr: DNOP	4.1		5.000		82.6	69	147			

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#: 2304253

07-Apr-23

Client: ENSOLUM
Project: Trunk 11S (Feb 2023)

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: GS95830		RunNo: 95830							
Prep Date:	Analysis Date: 4/6/2023		SeqNo: 3468990		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	84.4	70	130			
Surr: BFB	2200		1000		220	37.7	212			S

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: GS95830		RunNo: 95830							
Prep Date:	Analysis Date: 4/6/2023		SeqNo: 3468991		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	1000		1000		104	37.7	212			

Sample ID: 2304253-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: FP-13	Batch ID: GS95830		RunNo: 95830							
Prep Date:	Analysis Date: 4/6/2023		SeqNo: 3469591		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	12	3.1	15.27	0	80.3	70	130			
Surr: BFB	1200		610.9		194	37.7	212			

Sample ID: 2304253-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: FP-13	Batch ID: GS95830		RunNo: 95830							
Prep Date:	Analysis Date: 4/6/2023		SeqNo: 3469592		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	12	3.1	15.27	0	78.8	70	130	1.91	20	
Surr: BFB	1200		610.9		195	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#: 2304253

07-Apr-23

Client: ENSOLUM

Project: Trunk 11S (Feb 2023)

Sample ID: 2304253-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: FP-14	Batch ID: BS95830	RunNo: 95830								
Prep Date:	Analysis Date: 4/6/2023	SeqNo: 3470689	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.68	0.019	0.7536	0	89.8	68.8	120			
Toluene	0.69	0.038	0.7536	0.01161	90.2	73.6	124			
Ethylbenzene	0.67	0.038	0.7536	0	88.8	72.7	129			
Xylenes, Total	2.0	0.075	2.261	0	87.8	75.7	126			
Surr: 4-Bromofluorobenzene	0.65		0.7536		86.3	70	130			

Sample ID: 2304253-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: FP-14	Batch ID: BS95830	RunNo: 95830								
Prep Date:	Analysis Date: 4/6/2023	SeqNo: 3470690	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.65	0.019	0.7536	0	86.6	68.8	120	3.58	20	
Toluene	0.66	0.038	0.7536	0.01161	86.2	73.6	124	4.53	20	
Ethylbenzene	0.65	0.038	0.7536	0	85.8	72.7	129	3.44	20	
Xylenes, Total	1.9	0.075	2.261	0	84.8	75.7	126	3.52	20	
Surr: 4-Bromofluorobenzene	0.64		0.7536		84.9	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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: 2304253 RcptNo: 1

Received By: Tracy Casarrubias 4/6/2023 6:15:00 AM
Completed By: Tracy Casarrubias 4/6/2023 6:32:47 AM
Reviewed By: [Signature]

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

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

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: Missing phone number on COC- TMC 4/6/23

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, 1.9, Good, Yes, Morty, ,

Chain-of-Custody Record

Client: Ensolium, LLC
 Mailing Address: 606 S. Rio Grande Suite A
Albuquerque, NM 87410
 Phone #: _____

email or Fax#: ksummers@ensolium.com
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type) _____

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
4/5/23	1250	S	FP-13	(1) 402 Jar	COOL	2304253
4/5/23	1255	S	FP-14	(1) 402 Jar	COOL	001
4/5/23	1300	S	FP-15	(1) 402 Jar	COOL	002
4/5/23	1305	S	FP-16	(1) 402 Jar	COOL	003
						004

Date: 4/5/23 Time: 1625 Relinquished by: [Signature]
 Date: 4/5/23 Time: 1806 Relinquished by: [Signature]

Turn-Around Time: SAME DAY
 Standard Rush 100%
 Project Name: TRUNK 119 (Feb 2023)
 Project #: See notes

Project Manager: Ksummers
 Sampler: R Deechilly
 On Ice: Yes No motty
 # of Coolers: 1
 Cooler Temp (including CF): Z.0 - 0.1 = 1.9 (°C)

TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X

Received by: [Signature] Date: 4/5/23 Time: 1625
 Received by: [Signature] Date: 4/6/23 Time: 0:15

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 / TMBs (8021)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X

Remarks: PM - Tom Long (EPRAD)
Pay Key - RB21800
NON AFE - N64995



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

April 11, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Trunk 11S Feb 2023

OrderNo.: 2304336

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/7/2023 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 **2304336**

Date Reported: **4/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-17

Project: Trunk 11S Feb 2023

Collection Date: 4/6/2023 10:30:00 AM

Lab ID: 2304336-001

Matrix: MEOH (SOIL)

Received Date: 4/7/2023 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/7/2023 10:27:04 AM	74188
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	10	9.9		mg/Kg	1	4/7/2023 10:30:07 AM	74190
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/7/2023 10:30:07 AM	74190
Surr: DNOP	95.3	69-147		%Rec	1	4/7/2023 10:30:07 AM	74190
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	4/7/2023 1:19:00 PM	GS9586
Surr: BFB	99.6	37.7-212		%Rec	5	4/7/2023 1:19:00 PM	GS9586
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.091		mg/Kg	5	4/7/2023 1:19:00 PM	BS95861
Toluene	ND	0.18		mg/Kg	5	4/7/2023 1:19:00 PM	BS95861
Ethylbenzene	ND	0.18		mg/Kg	5	4/7/2023 1:19:00 PM	BS95861
Xylenes, Total	ND	0.36		mg/Kg	5	4/7/2023 1:19:00 PM	BS95861
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	5	4/7/2023 1:19:00 PM	BS95861

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 **2304336**

Date Reported: **4/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-18

Project: Trunk 11S Feb 2023

Collection Date: 4/6/2023 10:35:00 AM

Lab ID: 2304336-002

Matrix: MEOH (SOIL)

Received Date: 4/7/2023 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/7/2023 10:39:29 AM	74188
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	11	10		mg/Kg	1	4/7/2023 10:40:30 AM	74190
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/7/2023 10:40:30 AM	74190
Surr: DNOP	94.0	69-147		%Rec	1	4/7/2023 10:40:30 AM	74190
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	4/7/2023 1:40:00 PM	GS9586
Surr: BFB	93.5	37.7-212		%Rec	1	4/7/2023 1:40:00 PM	GS9586
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.017		mg/Kg	1	4/7/2023 1:40:00 PM	BS95861
Toluene	0.048	0.033		mg/Kg	1	4/7/2023 1:40:00 PM	BS95861
Ethylbenzene	ND	0.033		mg/Kg	1	4/7/2023 1:40:00 PM	BS95861
Xylenes, Total	ND	0.066		mg/Kg	1	4/7/2023 1:40:00 PM	BS95861
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	4/7/2023 1:40:00 PM	BS95861

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 **2304336**

Date Reported: **4/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-19

Project: Trunk 11S Feb 2023

Collection Date: 4/6/2023 10:40:00 AM

Lab ID: 2304336-003

Matrix: MEOH (SOIL)

Received Date: 4/7/2023 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	61		mg/Kg	20	4/7/2023 10:51:53 AM	74188
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/7/2023 11:08:35 AM	74190
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/7/2023 11:08:35 AM	74190
Surr: DNOP	93.8	69-147		%Rec	1	4/7/2023 11:08:35 AM	74190
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	4/7/2023 2:02:00 PM	GS9586
Surr: BFB	88.8	37.7-212		%Rec	1	4/7/2023 2:02:00 PM	GS9586
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.017		mg/Kg	1	4/7/2023 2:02:00 PM	BS95861
Toluene	ND	0.034		mg/Kg	1	4/7/2023 2:02:00 PM	BS95861
Ethylbenzene	ND	0.034		mg/Kg	1	4/7/2023 2:02:00 PM	BS95861
Xylenes, Total	ND	0.067		mg/Kg	1	4/7/2023 2:02:00 PM	BS95861
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	4/7/2023 2:02:00 PM	BS95861

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#: 2304336

11-Apr-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: MB-74188	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 74188	RunNo: 95862								
Prep Date: 4/7/2023	Analysis Date: 4/7/2023	SeqNo: 3471486	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-74188	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 74188	RunNo: 95862								
Prep Date: 4/7/2023	Analysis Date: 4/7/2023	SeqNo: 3471487	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.1	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#: 2304336

11-Apr-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: 2304336-003AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: FP-19	Batch ID: 74190	RunNo: 95870								
Prep Date: 4/7/2023	Analysis Date: 4/7/2023	SeqNo: 3470919	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.1	45.54	9.443	82.8	54.2	135			
Surr: DNOP	4.7		4.554		104	69	147			

Sample ID: 2304336-003AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: FP-19	Batch ID: 74190	RunNo: 95870								
Prep Date: 4/7/2023	Analysis Date: 4/7/2023	SeqNo: 3470920	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.5	47.53	9.443	84.6	54.2	135	5.16	29.2	
Surr: DNOP	5.1		4.753		106	69	147	0	0	

Sample ID: LCS-74190	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 74190	RunNo: 95870								
Prep Date: 4/7/2023	Analysis Date: 4/7/2023	SeqNo: 3470921	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.2	61.9	130			
Surr: DNOP	4.9		5.000		98.1	69	147			

Sample ID: MB-74190	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 74190	RunNo: 95870								
Prep Date: 4/7/2023	Analysis Date: 4/7/2023	SeqNo: 3470922	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.0	69	147			

Sample ID: LCS-74176	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 74176	RunNo: 95870								
Prep Date: 4/6/2023	Analysis Date: 4/7/2023	SeqNo: 3471354	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.7		5.000		113	69	147			

Sample ID: MB-74176	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 74176	RunNo: 95870								
Prep Date: 4/6/2023	Analysis Date: 4/7/2023	SeqNo: 3471361	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#: 2304336

11-Apr-23

Client: ENSOLUM

Project: Trunk 11S Feb 2023

Sample ID: MB-74176	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 74176	RunNo: 95870								
Prep Date: 4/6/2023	Analysis Date: 4/7/2023	SeqNo: 3471361	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		92.6	69	147			

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#: 2304336

11-Apr-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: GS95861		RunNo: 95861							
Prep Date:	Analysis Date: 4/7/2023		SeqNo: 3470767		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	84.5	70	130			
Surr: BFB	2200		1000		216	37.7	212			S

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: GS95861		RunNo: 95861							
Prep Date:	Analysis Date: 4/7/2023		SeqNo: 3470769		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	1000		1000		101	37.7	212			

Sample ID: lcs-74186	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 74186		RunNo: 95861							
Prep Date: 4/6/2023	Analysis Date: 4/7/2023		SeqNo: 3471592		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		200	37.7	212			

Sample ID: mb-74186	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 74186		RunNo: 95861							
Prep Date: 4/6/2023	Analysis Date: 4/8/2023		SeqNo: 3471593		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	890		1000		88.8	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#: 2304336

11-Apr-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: BS95861	RunNo: 95861								
Prep Date:	Analysis Date: 4/7/2023	SeqNo: 3470768			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	94.2	80	120			
Toluene	0.96	0.050	1.000	0	95.9	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.3	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.3	70	130			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: BS95861	RunNo: 95861								
Prep Date:	Analysis Date: 4/7/2023	SeqNo: 3470771			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	0.97		1.000		96.7	70	130			

Sample ID: lcs-74186	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 74186	RunNo: 95861								
Prep Date: 4/6/2023	Analysis Date: 4/8/2023	SeqNo: 3471696			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.91		1.000		91.0	70	130			

Sample ID: mb-74186	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 74186	RunNo: 95861								
Prep Date: 4/6/2023	Analysis Date: 4/8/2023	SeqNo: 3471699			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		88.1	70	130			

Sample ID: 2304336-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: FP-18	Batch ID: BS95861	RunNo: 95861								
Prep Date:	Analysis Date: 4/7/2023	SeqNo: 3471964			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.0	68.8	120			
Toluene	1.0	0.050	1.000	0.04815	98.1	73.6	124			
Ethylbenzene	0.94	0.050	1.000	0	93.7	72.7	129			
Xylenes, Total	2.8	0.10	3.000	0.01215	92.8	75.7	126			

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#: 2304336

11-Apr-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: 2304336-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: FP-18	Batch ID: BS95861	RunNo: 95861								
Prep Date:	Analysis Date: 4/7/2023	SeqNo: 3471964			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.85		1.000		85.2	70	130			

Sample ID: 2304336-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: FP-18	Batch ID: BS95861	RunNo: 95861								
Prep Date:	Analysis Date: 4/7/2023	SeqNo: 3471965			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.0	68.8	120	3.20	20	
Toluene	1.0	0.050	1.000	0.04815	94.8	73.6	124	3.24	20	
Ethylbenzene	0.91	0.050	1.000	0	91.5	72.7	129	2.35	20	
Xylenes, Total	2.7	0.10	3.000	0.01215	90.6	75.7	126	2.38	20	
Surr: 4-Bromofluorobenzene	0.83		1.000		83.0	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: 2304336 RcptNo: 1

Received By: Tracy Casarrubias 4/7/2023 6:45:00 AM
Completed By: Tracy Casarrubias 4/7/2023 7:03:31 AM
Reviewed By: *CME* 4/17/23

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: *JW 4/8/23*

JR 4/7/23

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: Missing phone number on COC- TMC 4/7/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes	Yogi		



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

May 23, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Trunk 11S Feb 2023

OrderNo.: 2305683

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 13 sample(s) on 5/12/2023 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 **2305683**

Date Reported: **5/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-2a

Project: Trunk 11S Feb 2023

Collection Date: 5/11/2023 9:00:00 AM

Lab ID: 2305683-001

Matrix: SOIL

Received Date: 5/12/2023 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	5/16/2023 7:28:13 PM	74993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	920	46		mg/Kg	5	5/17/2023 3:35:24 PM	74978
Motor Oil Range Organics (MRO)	340	230		mg/Kg	5	5/17/2023 3:35:24 PM	74978
Surr: DNOP	110	69-147		%Rec	5	5/17/2023 3:35:24 PM	74978
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/15/2023 3:18:30 PM	74925
Surr: BFB	103	15-244		%Rec	1	5/15/2023 3:18:30 PM	74925
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	5/15/2023 3:18:30 PM	74925
Toluene	ND	0.049		mg/Kg	1	5/15/2023 3:18:30 PM	74925
Ethylbenzene	ND	0.049		mg/Kg	1	5/15/2023 3:18:30 PM	74925
Xylenes, Total	ND	0.099		mg/Kg	1	5/15/2023 3:18:30 PM	74925
Surr: 4-Bromofluorobenzene	85.4	39.1-146		%Rec	1	5/15/2023 3:18:30 PM	74925

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 **2305683**

Date Reported: **5/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-3a

Project: Trunk 11S Feb 2023

Collection Date: 5/11/2023 9:05:00 AM

Lab ID: 2305683-002

Matrix: SOIL

Received Date: 5/12/2023 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	5/16/2023 7:40:37 PM	74993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	2100	87		mg/Kg	10	5/17/2023 12:41:56 PM	74978
Motor Oil Range Organics (MRO)	1900	430		mg/Kg	10	5/17/2023 12:41:56 PM	74978
Surr: DNOP	0	69-147	S	%Rec	10	5/17/2023 12:41:56 PM	74978
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/15/2023 3:41:52 PM	74925
Surr: BFB	68.4	15-244		%Rec	1	5/15/2023 3:41:52 PM	74925
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	5/15/2023 3:41:52 PM	74925
Toluene	ND	0.050		mg/Kg	1	5/15/2023 3:41:52 PM	74925
Ethylbenzene	ND	0.050		mg/Kg	1	5/15/2023 3:41:52 PM	74925
Xylenes, Total	ND	0.10		mg/Kg	1	5/15/2023 3:41:52 PM	74925
Surr: 4-Bromofluorobenzene	80.9	39.1-146		%Rec	1	5/15/2023 3:41:52 PM	74925

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 **2305683**

Date Reported: **5/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-4a

Project: Trunk 11S Feb 2023

Collection Date: 5/11/2023 9:10:00 AM

Lab ID: 2305683-003

Matrix: SOIL

Received Date: 5/12/2023 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	5/16/2023 7:53:01 PM	74993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	2900	88		mg/Kg	10	5/17/2023 1:03:18 PM	74978
Motor Oil Range Organics (MRO)	1500	440		mg/Kg	10	5/17/2023 1:03:18 PM	74978
Surr: DNOP	0	69-147	S	%Rec	10	5/17/2023 1:03:18 PM	74978
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	8.4	4.6		mg/Kg	1	5/15/2023 4:28:41 PM	74925
Surr: BFB	213	15-244		%Rec	1	5/15/2023 4:28:41 PM	74925
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	5/15/2023 4:28:41 PM	74925
Toluene	ND	0.046		mg/Kg	1	5/15/2023 4:28:41 PM	74925
Ethylbenzene	ND	0.046		mg/Kg	1	5/15/2023 4:28:41 PM	74925
Xylenes, Total	0.24	0.092		mg/Kg	1	5/15/2023 4:28:41 PM	74925
Surr: 4-Bromofluorobenzene	87.8	39.1-146		%Rec	1	5/15/2023 4:28:41 PM	74925

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 **2305683**

Date Reported: **5/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-5a

Project: Trunk 11S Feb 2023

Collection Date: 5/11/2023 9:15:00 AM

Lab ID: 2305683-004

Matrix: SOIL

Received Date: 5/12/2023 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	5/16/2023 8:05:26 PM	74993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	270	9.6		mg/Kg	1	5/17/2023 11:55:55 AM	74978
Motor Oil Range Organics (MRO)	130	48		mg/Kg	1	5/17/2023 11:55:55 AM	74978
Surr: DNOP	109	69-147		%Rec	1	5/17/2023 11:55:55 AM	74978
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/15/2023 4:52:05 PM	74925
Surr: BFB	94.3	15-244		%Rec	1	5/15/2023 4:52:05 PM	74925
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	5/15/2023 4:52:05 PM	74925
Toluene	ND	0.048		mg/Kg	1	5/15/2023 4:52:05 PM	74925
Ethylbenzene	ND	0.048		mg/Kg	1	5/15/2023 4:52:05 PM	74925
Xylenes, Total	ND	0.096		mg/Kg	1	5/15/2023 4:52:05 PM	74925
Surr: 4-Bromofluorobenzene	86.2	39.1-146		%Rec	1	5/15/2023 4:52:05 PM	74925

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 **2305683**

Date Reported: **5/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-6a

Project: Trunk 11S Feb 2023

Collection Date: 5/11/2023 9:20:00 AM

Lab ID: 2305683-005

Matrix: SOIL

Received Date: 5/12/2023 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	5/16/2023 8:17:51 PM	74993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	85	9.4		mg/Kg	1	5/17/2023 3:59:01 PM	74978
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/17/2023 3:59:01 PM	74978
Surr: DNOP	102	69-147		%Rec	1	5/17/2023 3:59:01 PM	74978
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/15/2023 5:15:30 PM	74925
Surr: BFB	80.4	15-244		%Rec	1	5/15/2023 5:15:30 PM	74925
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	5/15/2023 5:15:30 PM	74925
Toluene	ND	0.049		mg/Kg	1	5/15/2023 5:15:30 PM	74925
Ethylbenzene	ND	0.049		mg/Kg	1	5/15/2023 5:15:30 PM	74925
Xylenes, Total	ND	0.098		mg/Kg	1	5/15/2023 5:15:30 PM	74925
Surr: 4-Bromofluorobenzene	83.3	39.1-146		%Rec	1	5/15/2023 5:15:30 PM	74925

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 **2305683**

Date Reported: **5/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-7a

Project: Trunk 11S Feb 2023

Collection Date: 5/11/2023 9:25:00 AM

Lab ID: 2305683-006

Matrix: SOIL

Received Date: 5/12/2023 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	5/16/2023 8:30:15 PM	74993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	13	9.6		mg/Kg	1	5/17/2023 11:08:44 AM	74978
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/17/2023 11:08:44 AM	74978
Surr: DNOP	92.9	69-147		%Rec	1	5/17/2023 11:08:44 AM	74978
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/15/2023 5:38:57 PM	74925
Surr: BFB	78.5	15-244		%Rec	1	5/15/2023 5:38:57 PM	74925
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	5/15/2023 5:38:57 PM	74925
Toluene	ND	0.048		mg/Kg	1	5/15/2023 5:38:57 PM	74925
Ethylbenzene	ND	0.048		mg/Kg	1	5/15/2023 5:38:57 PM	74925
Xylenes, Total	ND	0.096		mg/Kg	1	5/15/2023 5:38:57 PM	74925
Surr: 4-Bromofluorobenzene	83.0	39.1-146		%Rec	1	5/15/2023 5:38:57 PM	74925

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 **2305683**

Date Reported: **5/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-9a

Project: Trunk 11S Feb 2023

Collection Date: 5/11/2023 9:30:00 AM

Lab ID: 2305683-007

Matrix: SOIL

Received Date: 5/12/2023 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	5/16/2023 9:07:28 PM	74993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	640	19		mg/Kg	2	5/17/2023 1:33:28 PM	74978
Motor Oil Range Organics (MRO)	360	97		mg/Kg	2	5/17/2023 1:33:28 PM	74978
Surr: DNOP	120	69-147		%Rec	2	5/17/2023 1:33:28 PM	74978
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/15/2023 6:02:19 PM	74925
Surr: BFB	72.6	15-244		%Rec	1	5/15/2023 6:02:19 PM	74925
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	5/15/2023 6:02:19 PM	74925
Toluene	ND	0.046		mg/Kg	1	5/15/2023 6:02:19 PM	74925
Ethylbenzene	ND	0.046		mg/Kg	1	5/15/2023 6:02:19 PM	74925
Xylenes, Total	ND	0.093		mg/Kg	1	5/15/2023 6:02:19 PM	74925
Surr: 4-Bromofluorobenzene	82.3	39.1-146		%Rec	1	5/15/2023 6:02:19 PM	74925

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 **2305683**

Date Reported: **5/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-10a

Project: Trunk 11S Feb 2023

Collection Date: 5/11/2023 9:35:00 AM

Lab ID: 2305683-008

Matrix: SOIL

Received Date: 5/12/2023 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	5/16/2023 9:19:53 PM	74993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	2700	96		mg/Kg	10	5/17/2023 1:24:29 PM	74978
Motor Oil Range Organics (MRO)	1500	480		mg/Kg	10	5/17/2023 1:24:29 PM	74978
Surr: DNOP	0	69-147	S	%Rec	10	5/17/2023 1:24:29 PM	74978
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/15/2023 6:25:41 PM	74925
Surr: BFB	77.0	15-244		%Rec	1	5/15/2023 6:25:41 PM	74925
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	5/15/2023 6:25:41 PM	74925
Toluene	ND	0.047		mg/Kg	1	5/15/2023 6:25:41 PM	74925
Ethylbenzene	ND	0.047		mg/Kg	1	5/15/2023 6:25:41 PM	74925
Xylenes, Total	ND	0.093		mg/Kg	1	5/15/2023 6:25:41 PM	74925
Surr: 4-Bromofluorobenzene	82.0	39.1-146		%Rec	1	5/15/2023 6:25:41 PM	74925

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 **2305683**

Date Reported: **5/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-11a

Project: Trunk 11S Feb 2023

Collection Date: 5/11/2023 9:40:00 AM

Lab ID: 2305683-009

Matrix: SOIL

Received Date: 5/12/2023 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	5/16/2023 9:32:17 PM	74993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	2700	86		mg/Kg	10	5/17/2023 1:45:42 PM	74978
Motor Oil Range Organics (MRO)	1300	430		mg/Kg	10	5/17/2023 1:45:42 PM	74978
Surr: DNOP	0	69-147	S	%Rec	10	5/17/2023 1:45:42 PM	74978
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/16/2023 3:32:30 PM	74925
Surr: BFB	142	15-244		%Rec	1	5/16/2023 3:32:30 PM	74925
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	5/16/2023 3:32:30 PM	74925
Toluene	ND	0.046		mg/Kg	1	5/16/2023 3:32:30 PM	74925
Ethylbenzene	ND	0.046		mg/Kg	1	5/16/2023 3:32:30 PM	74925
Xylenes, Total	ND	0.093		mg/Kg	1	5/16/2023 3:32:30 PM	74925
Surr: 4-Bromofluorobenzene	83.0	39.1-146		%Rec	1	5/16/2023 3:32:30 PM	74925

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 **2305683**

Date Reported: **5/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-12a

Project: Trunk 11S Feb 2023

Collection Date: 5/11/2023 9:45:00 AM

Lab ID: 2305683-010

Matrix: SOIL

Received Date: 5/12/2023 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	5/16/2023 9:44:41 PM	74993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	2400	99		mg/Kg	10	5/17/2023 2:06:57 PM	74978
Motor Oil Range Organics (MRO)	1200	490		mg/Kg	10	5/17/2023 2:06:57 PM	74978
Surr: DNOP	0	69-147	S	%Rec	10	5/17/2023 2:06:57 PM	74978
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/15/2023 7:12:19 PM	74925
Surr: BFB	93.0	15-244		%Rec	1	5/15/2023 7:12:19 PM	74925
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	5/15/2023 7:12:19 PM	74925
Toluene	ND	0.050		mg/Kg	1	5/15/2023 7:12:19 PM	74925
Ethylbenzene	ND	0.050		mg/Kg	1	5/15/2023 7:12:19 PM	74925
Xylenes, Total	ND	0.10		mg/Kg	1	5/15/2023 7:12:19 PM	74925
Surr: 4-Bromofluorobenzene	85.6	39.1-146		%Rec	1	5/15/2023 7:12:19 PM	74925

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 **2305683**

Date Reported: **5/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-20

Project: Trunk 11S Feb 2023

Collection Date: 5/11/2023 10:00:00 AM

Lab ID: 2305683-011

Matrix: SOIL

Received Date: 5/12/2023 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	5/16/2023 9:57:06 PM	74993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	20000	490		mg/Kg	50	5/18/2023 10:39:23 AM	74978
Motor Oil Range Organics (MRO)	6600	2500		mg/Kg	50	5/18/2023 10:39:23 AM	74978
Surr: DNOP	0	69-147	S	%Rec	50	5/18/2023 10:39:23 AM	74978
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	650	49		mg/Kg	10	5/16/2023 3:56:05 PM	74925
Surr: BFB	763	15-244	S	%Rec	10	5/16/2023 3:56:05 PM	74925
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.25		mg/Kg	10	5/16/2023 3:56:05 PM	74925
Toluene	2.0	0.49		mg/Kg	10	5/16/2023 3:56:05 PM	74925
Ethylbenzene	1.4	0.49		mg/Kg	10	5/16/2023 3:56:05 PM	74925
Xylenes, Total	15	0.99		mg/Kg	10	5/16/2023 3:56:05 PM	74925
Surr: 4-Bromofluorobenzene	93.4	39.1-146		%Rec	10	5/16/2023 3:56:05 PM	74925

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 **2305683**

Date Reported: **5/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-21

Project: Trunk 11S Feb 2023

Collection Date: 5/11/2023 10:05:00 AM

Lab ID: 2305683-012

Matrix: SOIL

Received Date: 5/12/2023 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	5/16/2023 10:09:30 PM	74993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	150	9.1		mg/Kg	1	5/17/2023 11:32:18 AM	74978
Motor Oil Range Organics (MRO)	59	46		mg/Kg	1	5/17/2023 11:32:18 AM	74978
Surr: DNOP	79.6	69-147		%Rec	1	5/17/2023 11:32:18 AM	74978
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/15/2023 7:59:00 PM	74925
Surr: BFB	102	15-244		%Rec	1	5/15/2023 7:59:00 PM	74925
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	5/15/2023 7:59:00 PM	74925
Toluene	ND	0.047		mg/Kg	1	5/15/2023 7:59:00 PM	74925
Ethylbenzene	ND	0.047		mg/Kg	1	5/15/2023 7:59:00 PM	74925
Xylenes, Total	ND	0.093		mg/Kg	1	5/15/2023 7:59:00 PM	74925
Surr: 4-Bromofluorobenzene	83.5	39.1-146		%Rec	1	5/15/2023 7:59:00 PM	74925

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 **2305683**

Date Reported: **5/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-22

Project: Trunk 11S Feb 2023

Collection Date: 5/11/2023 10:10:00 AM

Lab ID: 2305683-013

Matrix: SOIL

Received Date: 5/12/2023 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	5/16/2023 10:21:55 PM	74993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	12	10		mg/Kg	1	5/17/2023 12:33:46 AM	74977
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/17/2023 12:33:46 AM	74977
Surr: DNOP	81.8	69-147		%Rec	1	5/17/2023 12:33:46 AM	74977
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/16/2023 12:15:51 AM	74930
Surr: BFB	70.0	15-244		%Rec	1	5/16/2023 12:15:51 AM	74930
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	5/16/2023 12:15:51 AM	74930
Toluene	ND	0.049		mg/Kg	1	5/16/2023 12:15:51 AM	74930
Ethylbenzene	ND	0.049		mg/Kg	1	5/16/2023 12:15:51 AM	74930
Xylenes, Total	ND	0.098		mg/Kg	1	5/16/2023 12:15:51 AM	74930
Surr: 4-Bromofluorobenzene	81.3	39.1-146		%Rec	1	5/16/2023 12:15:51 AM	74930

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#: 2305683

23-May-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: MB-74993	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 74993	RunNo: 96806								
Prep Date: 5/16/2023	Analysis Date: 5/16/2023	SeqNo: 3511194	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-74993	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 74993	RunNo: 96806								
Prep Date: 5/16/2023	Analysis Date: 5/16/2023	SeqNo: 3511195	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.2	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2305683

23-May-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: MB-74969	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 74969	RunNo: 96783								
Prep Date: 5/15/2023	Analysis Date: 5/16/2023	SeqNo: 3510134	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.5		10.00		94.9	69	147			

Sample ID: LCS-74977	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 74977	RunNo: 96783								
Prep Date: 5/16/2023	Analysis Date: 5/16/2023	SeqNo: 3510137	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.2	61.9	130			
Surr: DNOP	4.6		5.000		91.8	69	147			

Sample ID: MB-74977	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 74977	RunNo: 96783								
Prep Date: 5/16/2023	Analysis Date: 5/16/2023	SeqNo: 3510138	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		93.9	69	147			

Sample ID: 2305683-013AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: FP-22	Batch ID: 74977	RunNo: 96783								
Prep Date: 5/16/2023	Analysis Date: 5/17/2023	SeqNo: 3510903	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.9	49.60	12.37	76.8	54.2	135			
Surr: DNOP	4.9		4.960		98.3	69	147			

Sample ID: 2305683-013AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: FP-22	Batch ID: 74977	RunNo: 96783								
Prep Date: 5/16/2023	Analysis Date: 5/17/2023	SeqNo: 3510904	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.7	48.54	12.37	79.9	54.2	135	1.32	29.2	
Surr: DNOP	4.7		4.854		96.6	69	147	0	0	

Sample ID: LCS-74969	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 74969	RunNo: 96783								
Prep Date: 5/15/2023	Analysis Date: 5/16/2023	SeqNo: 3510973	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#: 2305683

23-May-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: LCS-74969	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 74969		RunNo: 96783							
Prep Date: 5/15/2023	Analysis Date: 5/16/2023		SeqNo: 3510973		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.3	69	147			

Sample ID: LCS-74978	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 74978		RunNo: 96825							
Prep Date: 5/16/2023	Analysis Date: 5/17/2023		SeqNo: 3511918		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.2	61.9	130			
Surr: DNOP	5.0		5.000		101	69	147			

Sample ID: MB-74978	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 74978		RunNo: 96825							
Prep Date: 5/16/2023	Analysis Date: 5/17/2023		SeqNo: 3511921		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		120	69	147			

Sample ID: LCS-75011	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 75011		RunNo: 96864							
Prep Date: 5/17/2023	Analysis Date: 5/18/2023		SeqNo: 3513540		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.6	69	147			

Sample ID: LCS-75017	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 75017		RunNo: 96864							
Prep Date: 5/17/2023	Analysis Date: 5/18/2023		SeqNo: 3513541		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		84.3	69	147			

Sample ID: MB-75011	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 75011		RunNo: 96864							
Prep Date: 5/17/2023	Analysis Date: 5/18/2023		SeqNo: 3513544		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		92.9	69	147			

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#: 2305683

23-May-23

Client: ENSOLUM

Project: Trunk 11S Feb 2023

Sample ID: MB-75017	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 75017	RunNo: 96864								
Prep Date: 5/17/2023	Analysis Date: 5/18/2023	SeqNo: 3513545	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		93.3	69	147			

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#: 2305683

23-May-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: ics-74925	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 74925		RunNo: 96762							
Prep Date: 5/12/2023	Analysis Date: 5/15/2023		SeqNo: 3508640		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	93.7	70	130			
Surr: BFB	4900		1000		492	15	244			S

Sample ID: mb-74925	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 74925		RunNo: 96762							
Prep Date: 5/12/2023	Analysis Date: 5/15/2023		SeqNo: 3508641		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	740		1000		74.4	15	244			

Sample ID: ics-74930	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 74930		RunNo: 96762							
Prep Date: 5/12/2023	Analysis Date: 5/15/2023		SeqNo: 3509509		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.4	70	130			
Surr: BFB	4800		1000		483	15	244			S

Sample ID: mb-74930	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 74930		RunNo: 96762							
Prep Date: 5/12/2023	Analysis Date: 5/15/2023		SeqNo: 3509510		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	810		1000		81.0	15	244			

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#: 2305683

23-May-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: LCS-74925	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 74925	RunNo: 96762								
Prep Date: 5/12/2023	Analysis Date: 5/15/2023	SeqNo: 3508649	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	83.0	70	130			
Toluene	0.85	0.050	1.000	0	84.6	70	130			
Ethylbenzene	0.85	0.050	1.000	0	84.9	70	130			
Xylenes, Total	2.6	0.10	3.000	0	85.3	70	130			
Surr: 4-Bromofluorobenzene	0.85		1.000		84.6	39.1	146			

Sample ID: mb-74925	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 74925	RunNo: 96762								
Prep Date: 5/12/2023	Analysis Date: 5/15/2023	SeqNo: 3508650	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	0.83		1.000		82.6	39.1	146			

Sample ID: LCS-74930	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 74930	RunNo: 96762								
Prep Date: 5/12/2023	Analysis Date: 5/15/2023	SeqNo: 3509516	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	1.000	0	80.2	70	130			
Toluene	0.82	0.050	1.000	0	82.4	70	130			
Ethylbenzene	0.82	0.050	1.000	0	82.2	70	130			
Xylenes, Total	2.5	0.10	3.000	0	82.7	70	130			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.1	39.1	146			

Sample ID: mb-74930	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 74930	RunNo: 96762								
Prep Date: 5/12/2023	Analysis Date: 5/15/2023	SeqNo: 3509517	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	0.84		1.000		83.9	39.1	146			

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: 2305683 RcptNo: 1

Received By: Juan Rojas 5/12/2023 7:30:00 AM
Completed By: Cheyenne Cason 5/12/2023 8:32:29 AM
Reviewed By: [Signature] 5/12/23

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: [Signature] 5/12/23

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, 0.9, Good, Yes, Morty, [], []

Chain-of-Custody Record

Client: Ensolument LLC
 Mailing Address: 6060 S. Rio Grande, Suite A
Artes, NM 87410
 Phone #: _____
 email or Fax#: KSUMMERS@ensolument.com
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: Az Compliance Other
 NELAC Other
 EDD (Type) _____

Turn-Around Time: 3-DAY
 Standard Rush
 Project Name: Trunk 11S (Feb 2023)
 Project #: see notes

Project Manager: KSUMMERS
 Sampler: R Seechilly
 On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CF): 10.8 (at 10.0°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
5/11/23	900	S	FP-2a	(1) 4oz Jar Cool		2305683
5/11/23	905	S	FP-3a	(1) 4oz Jar Cool		002
5/11/23	910	S	FP-4a	(1) 4oz Jar Cool		003
5/11/23	915	S	FP-5a	(1) 4oz Jar Cool		004
5/11/23	920	S	FP-6a	(1) 4oz Jar Cool		005
5/11/23	925	S	FP-7a	(1) 4oz Jar Cool		006
5/11/23	930	S	FP-9a	(1) 4oz Jar Cool		007
5/11/23	935	S	FP-10a	(1) 4oz Jar Cool		008
5/11/23	940	S	FP-11a	(1) 4oz Jar Cool		009
5/11/23	945	S	FP-12a	(1) 4oz Jar Cool		010
5/11/23	1000	S	FP-20	(1) 4oz Jar Cool		011
5/11/23	1005	S	FP-21	(1) 4oz Jar Cool		012

Relinquished by: [Signature] Date: 5/11/23 1438
 Relinquished by: [Signature] Date: 5/11/23 1804
 Received by: [Signature] Date: 5/11/23 1438
 Received by: [Signature] Date: 5/12/23 7:30



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 / TMS (8021)	X
TPH:8015D(GRO / DRO / MRO)	X
8081 Pesticides/8082 PCBs	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	Chloride

Remarks: PRU-TAM LANG (EPR00)
PAY KEY - EB21200
NONAFE - N64995

Chain-of-Custody Record

Client: Ensolium LLC
 Mailing Address: 6065 Rio Grande Suite A
Albuquerque, NM 87110
 Phone #: _____
 email or Fax#: KSUMMERS@ensolium.com
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: Az Compliance NELAC Other
 EDD (Type) _____

Turn-Around Time: 3-DAY
 Standard Rush
 Project Name: THINK IIS (Feb 2023)
 Project #: See notes

Project Manager: Ksummers
 Sampler: R Deeshilly
 On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CF): 10.9 to 1 = 0.9 (°C)

Container Type and #: (1) 46250
 Preservative Type: COOL
 HEAL No.: 2305683
00013

Relinquished by: [Signature] Date: 5/11/23 Time: 1438
 Relinquished by: [Signature] Date: 5/11/23 Time: 1804



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 / TMBs (8021)	X
TPH:8015D(GRO / DRO / MRO)	X
8081 Pesticides/8082 PCBs	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	Chloride

Remarks: PM-Tom Long (EPROD)
Pay Key - RB21200
NON AFE - N64995



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

June 07, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Trunk 11S Feb 2023

OrderNo.: 2306116

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 6/3/2023 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 **2306116**

Date Reported: **6/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: LF-1

Project: Trunk 11S Feb 2023

Collection Date: 6/2/2023 8:45:00 AM

Lab ID: 2306116-001

Matrix: MEOH (SOIL)

Received Date: 6/3/2023 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	59		mg/Kg	20	6/5/2023 10:38:32 AM	75342
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	14	9.2		mg/Kg	1	6/5/2023 9:25:38 AM	75331
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/5/2023 9:25:38 AM	75331
Surr: DNOP	96.8	69-147		%Rec	1	6/5/2023 9:25:38 AM	75331
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/5/2023 10:50:00 AM	R97206
Surr: BFB	85.5	15-244		%Rec	1	6/5/2023 10:50:00 AM	R97206
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	6/5/2023 10:50:00 AM	R97206
Toluene	ND	0.050		mg/Kg	1	6/5/2023 10:50:00 AM	R97206
Ethylbenzene	ND	0.050		mg/Kg	1	6/5/2023 10:50:00 AM	R97206
Xylenes, Total	ND	0.10		mg/Kg	1	6/5/2023 10:50:00 AM	R97206
Surr: 4-Bromofluorobenzene	83.7	39.1-146		%Rec	1	6/5/2023 10:50:00 AM	R97206

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 **2306116**

Date Reported: **6/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: LF-2

Project: Trunk 11S Feb 2023

Collection Date: 6/2/2023 8:50:00 AM

Lab ID: 2306116-002

Matrix: MEOH (SOIL)

Received Date: 6/3/2023 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	6/5/2023 10:50:57 AM	75342
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/5/2023 9:36:14 AM	75331
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/5/2023 9:36:14 AM	75331
Surr: DNOP	92.4	69-147		%Rec	1	6/5/2023 9:36:14 AM	75331
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/5/2023 11:12:00 AM	R97206
Surr: BFB	92.5	15-244		%Rec	1	6/5/2023 11:12:00 AM	R97206
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	6/5/2023 11:12:00 AM	R97206
Toluene	ND	0.050		mg/Kg	1	6/5/2023 11:12:00 AM	R97206
Ethylbenzene	ND	0.050		mg/Kg	1	6/5/2023 11:12:00 AM	R97206
Xylenes, Total	ND	0.10		mg/Kg	1	6/5/2023 11:12:00 AM	R97206
Surr: 4-Bromofluorobenzene	83.6	39.1-146		%Rec	1	6/5/2023 11:12:00 AM	R97206

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 **2306116**

Date Reported: **6/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: LF-3

Project: Trunk 11S Feb 2023

Collection Date: 6/2/2023 8:55:00 AM

Lab ID: 2306116-003

Matrix: MEOH (SOIL)

Received Date: 6/3/2023 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	6/5/2023 11:03:22 AM	75342
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	65	9.8		mg/Kg	1	6/5/2023 9:46:50 AM	75331
Motor Oil Range Organics (MRO)	49	49		mg/Kg	1	6/5/2023 9:46:50 AM	75331
Surr: DNOP	92.7	69-147		%Rec	1	6/5/2023 9:46:50 AM	75331
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/5/2023 11:34:00 AM	R97206
Surr: BFB	87.5	15-244		%Rec	1	6/5/2023 11:34:00 AM	R97206
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	6/5/2023 11:34:00 AM	R97206
Toluene	ND	0.050		mg/Kg	1	6/5/2023 11:34:00 AM	R97206
Ethylbenzene	ND	0.050		mg/Kg	1	6/5/2023 11:34:00 AM	R97206
Xylenes, Total	ND	0.10		mg/Kg	1	6/5/2023 11:34:00 AM	R97206
Surr: 4-Bromofluorobenzene	83.2	39.1-146		%Rec	1	6/5/2023 11:34:00 AM	R97206

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 **2306116**

Date Reported: **6/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: LF-4

Project: Trunk 11S Feb 2023

Collection Date: 6/2/2023 9:00:00 AM

Lab ID: 2306116-004

Matrix: MEOH (SOIL)

Received Date: 6/3/2023 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	6/5/2023 11:15:47 AM	75342
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	20	9.5		mg/Kg	1	6/5/2023 9:57:31 AM	75331
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/5/2023 9:57:31 AM	75331
Surr: DNOP	98.3	69-147		%Rec	1	6/5/2023 9:57:31 AM	75331
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/5/2023 11:56:00 AM	R97206
Surr: BFB	87.0	15-244		%Rec	1	6/5/2023 11:56:00 AM	R97206
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	6/5/2023 11:56:00 AM	R97206
Toluene	ND	0.050		mg/Kg	1	6/5/2023 11:56:00 AM	R97206
Ethylbenzene	ND	0.050		mg/Kg	1	6/5/2023 11:56:00 AM	R97206
Xylenes, Total	ND	0.10		mg/Kg	1	6/5/2023 11:56:00 AM	R97206
Surr: 4-Bromofluorobenzene	83.4	39.1-146		%Rec	1	6/5/2023 11:56:00 AM	R97206

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#: 2306116

07-Jun-23

Client: ENSOLUM

Project: Trunk 11S Feb 2023

Sample ID: MB-75342	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 75342	RunNo: 97209								
Prep Date: 6/5/2023	Analysis Date: 6/5/2023	SeqNo: 3531126	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-75342	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 75342	RunNo: 97209								
Prep Date: 6/5/2023	Analysis Date: 6/5/2023	SeqNo: 3531127	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.9	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#: 2306116

07-Jun-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: LCS-75331	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 75331	RunNo: 97202								
Prep Date: 6/5/2023	Analysis Date: 6/5/2023	SeqNo: 3530096	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.8	61.9	130			
Surr: DNOP	4.5		5.000		90.3	69	147			

Sample ID: MB-75331	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 75331	RunNo: 97202								
Prep Date: 6/5/2023	Analysis Date: 6/5/2023	SeqNo: 3530097	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.2	69	147			

Sample ID: 2306116-004AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LF-4	Batch ID: 75331	RunNo: 97202								
Prep Date: 6/5/2023	Analysis Date: 6/5/2023	SeqNo: 3530839	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.9	49.41	19.60	67.8	54.2	135			
Surr: DNOP	5.1		4.941		104	69	147			

Sample ID: 2306116-004AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LF-4	Batch ID: 75331	RunNo: 97202								
Prep Date: 6/5/2023	Analysis Date: 6/5/2023	SeqNo: 3530840	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.5	47.53	19.60	61.8	54.2	135	8.10	29.2	
Surr: DNOP	4.8		4.753		101	69	147	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#: 2306116

07-Jun-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: R97206	RunNo: 97206								
Prep Date:	Analysis Date: 6/5/2023	SeqNo: 3530280	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	90.3	70	130			
Surr: BFB	2100		1000		209	15	244			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: R97206	RunNo: 97206								
Prep Date:	Analysis Date: 6/5/2023	SeqNo: 3530281	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	950		1000		95.2	15	244			

Sample ID: 2306116-001AMS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LF-1	Batch ID: R97206	RunNo: 97206								
Prep Date:	Analysis Date: 6/5/2023	SeqNo: 3530392	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	101	70	130			
Surr: BFB	2000		1000		202	15	244			

Sample ID: 2306116-001AMSD	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LF-1	Batch ID: R97206	RunNo: 97206								
Prep Date:	Analysis Date: 6/5/2023	SeqNo: 3530393	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	94.0	70	130	6.86	0	
Surr: BFB	2000		1000		196	15	244	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#: 2306116

07-Jun-23

Client: ENSOLUM
Project: Trunk 11S Feb 2023

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: R97206	RunNo: 97206								
Prep Date:	Analysis Date: 6/5/2023	SeqNo: 3530284	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.0	70	130			
Toluene	0.88	0.050	1.000	0	88.2	70	130			
Ethylbenzene	0.89	0.050	1.000	0	88.6	70	130			
Xylenes, Total	2.7	0.10	3.000	0	88.6	70	130			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.8	39.1	146			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: R97206	RunNo: 97206								
Prep Date:	Analysis Date: 6/5/2023	SeqNo: 3530285	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		92.3	39.1	146			

Sample ID: 2306116-002AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LF-2	Batch ID: R97206	RunNo: 97206								
Prep Date:	Analysis Date: 6/5/2023	SeqNo: 3531052	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	86.8	70	130			
Toluene	0.87	0.050	1.000	0	87.1	70	130			
Ethylbenzene	0.85	0.050	1.000	0	85.4	70	130			
Xylenes, Total	2.5	0.10	3.000	0	84.5	70	130			
Surr: 4-Bromofluorobenzene	0.83		1.000		82.7	39.1	146			

Sample ID: 2306116-002AMSD	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LF-2	Batch ID: R97206	RunNo: 97206								
Prep Date:	Analysis Date: 6/5/2023	SeqNo: 3531053	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	81.4	70	130	6.34	0	
Toluene	0.82	0.050	1.000	0	82.2	70	130	5.82	0	
Ethylbenzene	0.81	0.050	1.000	0	81.3	70	130	4.94	0	
Xylenes, Total	2.4	0.10	3.000	0	80.7	70	130	4.51	0	
Surr: 4-Bromofluorobenzene	0.83		1.000		83.0	39.1	146	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: 2306116 RcptNo: 1

Received By: Cheyenne Cason 6/3/2023 8:15:00 AM *CC*
Completed By: Cheyenne Cason 6/3/2023 8:26:23 AM *CC*
Reviewed By: *Jn 6/5/23*

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: _____
(≤2 or >12 unless noted)
Adjusted? _____
Checked by: *CMC 6/3/23*

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:
No Client Phone number on COC - CMC 6/3/23

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Ensolum, LLC
 Mailing Address: 606 S. Rio Grande Suite A
Albany, NM 87410
 Phone #: _____

email or Fax#: ksummers@ensolum.com
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: AZ Compliance
 NELAC Other
 EDD (Type) _____

Turn-Around Time: SAME DAY
 Standard Rush 10/8/6
 Project Name: Trunk 11S (Feb 2023)
 Project #: See notes

Project Manager: ksummers
 Sampler: R Deechilly
 On Ice: Yes No Yagi
 # of Coolers: 1
 Cooler Temp (including CF): 5.6-0.1-5.5 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
6/2/23	845	S	LF-1	1) 4oz Jar	COOL	2306116
6/2/23	850	S	LF-2	1) 4oz Jar	COOL	001
6/2/23	855	S	LF-3	1) 4oz Jar	COOL	002
6/2/23	900	S	LF-4	1) 4oz Jar	COOL	003
						004

Date: 6/2/23 Time: 1424 Relinquished by: [Signature]
 Date: 6/2/23 Time: 1804 Relinquished by: [Signature]
 Received by: Unt was Date: 6/2/23 Time: 1424
 Received by: Cmc corner Date: 6/3/23 Time: 0845

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 / TMS (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCBs	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
X	X								X Chloride
X	X								X
X	X								X
X	X								X

Remarks: SAME DAY
PM-Tom Long (EPR00)
POY 104- RB2100
NON AFE- N64995



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

July 06, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Trunk 11 S Feb 2023

OrderNo.: 2306C30

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/23/2023 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 **2306C30**

Date Reported: **7/6/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-23

Project: Trunk 11 S Feb 2023

Collection Date: 6/22/2023 11:15:00 AM

Lab ID: 2306C30-001

Matrix: SOIL

Received Date: 6/23/2023 6:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: SNS
Chloride	ND	60		mg/Kg	20	6/28/2023 1:47:39 PM	75886
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	200	9.1		mg/Kg	1	6/27/2023 2:34:17 PM	75820
Motor Oil Range Organics (MRO)	54	46		mg/Kg	1	6/27/2023 2:34:17 PM	75820
Surr: DNOP	98.9	69-147		%Rec	1	6/27/2023 2:34:17 PM	75820
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/26/2023 9:40:00 PM	75813
Surr: BFB	95.3	15-244		%Rec	1	6/26/2023 9:40:00 PM	75813
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	6/26/2023 9:40:00 PM	75813
Toluene	ND	0.048		mg/Kg	1	6/26/2023 9:40:00 PM	75813
Ethylbenzene	ND	0.048		mg/Kg	1	6/26/2023 9:40:00 PM	75813
Xylenes, Total	ND	0.096		mg/Kg	1	6/26/2023 9:40:00 PM	75813
Surr: 4-Bromofluorobenzene	94.0	39.1-146		%Rec	1	6/26/2023 9:40:00 PM	75813

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#: 2306C30

06-Jul-23

Client: ENSOLUM
Project: Trunk 11 S Feb 2023

Sample ID: MB-75886	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 75886	RunNo: 97784								
Prep Date: 6/28/2023	Analysis Date: 6/28/2023	SeqNo: 3557546	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-75886	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 75886	RunNo: 97784								
Prep Date: 6/28/2023	Analysis Date: 6/28/2023	SeqNo: 3557547	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of 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#: 2306C30

06-Jul-23

Client: ENSOLUM
Project: Trunk 11 S Feb 2023

Sample ID: LCS-75820	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 75820		RunNo: 97733							
Prep Date: 6/26/2023	Analysis Date: 6/27/2023		SeqNo: 3554371		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.2	61.9	130			
Surr: DNOP	6.1		5.000		123	69	147			

Sample ID: MB-75820	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 75820		RunNo: 97733							
Prep Date: 6/26/2023	Analysis Date: 6/27/2023		SeqNo: 3554372		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		99.7	69	147			

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#: 2306C30

06-Jul-23

Client: ENSOLUM
Project: Trunk 11 S Feb 2023

Sample ID: ics-75813	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 75813	RunNo: 97706								
Prep Date: 6/23/2023	Analysis Date: 6/26/2023	SeqNo: 3554056	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	86.3	70	130			
Surr: BFB	2100		1000		208	15	244			

Sample ID: mb-75813	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 75813	RunNo: 97706								
Prep Date: 6/23/2023	Analysis Date: 6/26/2023	SeqNo: 3554057	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.0	15	244			

Sample ID: ics-75811	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 75811	RunNo: 97706								
Prep Date: 6/23/2023	Analysis Date: 6/26/2023	SeqNo: 3554080	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2100		1000		207	15	244			

Sample ID: mb-75811	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 75811	RunNo: 97706								
Prep Date: 6/23/2023	Analysis Date: 6/26/2023	SeqNo: 3554081	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	960		1000		95.9	15	244			

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#: 2306C30

06-Jul-23

Client: ENSOLUM
Project: Trunk 11 S Feb 2023

Sample ID: ics-75813	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 75813		RunNo: 97706							
Prep Date: 6/23/2023	Analysis Date: 6/26/2023		SeqNo: 3554101		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.4	70	130			
Toluene	0.98	0.050	1.000	0	98.1	70	130			
Ethylbenzene	1.0	0.050	1.000	0	99.7	70	130			
Xylenes, Total	3.0	0.10	3.000	0	99.7	70	130			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.5	39.1	146			

Sample ID: mb-75813	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 75813		RunNo: 97706							
Prep Date: 6/23/2023	Analysis Date: 6/26/2023		SeqNo: 3554102		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		93.3	39.1	146			

Sample ID: ics-75811	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 75811		RunNo: 97706							
Prep Date: 6/23/2023	Analysis Date: 6/26/2023		SeqNo: 3554125		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.93		1.000		93.0	39.1	146			

Sample ID: mb-75811	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 75811		RunNo: 97706							
Prep Date: 6/23/2023	Analysis Date: 6/26/2023		SeqNo: 3554126		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.93		1.000		92.9	39.1	146			

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
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- 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: 2306C30

RcptNo: 1

Received By: Tracy Casarrubias 6/23/2023 6:45:00 AM

Completed By: Tracy Casarrubias 6/23/2023 7:13:17 AM

Reviewed By: *[Signature]* 6/23/23

Chain of Custody

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

Log In

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

of preserved bottles checked for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *ju 6/23/23*

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: Phone number is missing on COC- TMC 6/23/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.9	Good	Yes	Yogi		

Chain-of-Custody Record

Turn-Around Time: Standard Rush
 Project Name: Trunk 11S (Feb 2023)
 Project #: see notes



Project Manager: K Summers
 Sampler: RDeechilly
 On Ice: Yes No 4091
 # of Coolers: 1
 Cooler Temp (including CF): 5.0-0.1=4.9 (°C)

Project Manager: K Summers
 QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: Az Compliance NELAC Other
 EDD (Type)

Container Type and # (1) 4oz Jar Preservative Type cool HEAL No. 2306030
 Date 4/23/23 Time 11:15 Matrix S Sample Name FP-23
 Date: 4/23/23 Time: 15:45 Relinquished by: [Signature]
 Date: 6/123/23 Time: 6:45 Relinquished by: [Signature]

Analysis Request	
BTEX / MTBE / TMS (8021)	X
TPH:8015D(GRO / DRO / MRO)	X
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	<u>Chloride</u>

Received by: Via: ~~carry~~ Date 6/123/23 Time 6:45
 Received by: [Signature] Date 6/123/23 Time 6:45

Remarks: PM - Tom Long (EPR00)
PW Key - RB21200
NON AFE - N64995

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 272822

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 272822
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	Incident occurred on tribal land. App ID 272822 accepted for record.	2/5/2024