



## CLOSURE REPORT

Property:

**Blanco C-14 (08/17/23)**  
Unit Letter B, S25 T27N R9W  
San Juan County, New Mexico

**New Mexico EMNRD OCD Incident ID No. NAPP2323530370**

**December 12, 2023**

Ensolum Project No. 05A1226277

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

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## 1.0 INTRODUCTION

### 1.1 Site Description & Background

<b>Operator:</b>	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
<b>Site Name:</b>	Blanco C-14 (08/17/23) (Site)
<b>NM EMNRD OCD Incident ID No.</b>	NAPP2323530370
<b>Location:</b>	36.553293° North, 107.739246° West Unit Letter B, Section 25, Township 27 North, Range 9 West San Juan County, New Mexico
<b>Property:</b>	Navajo Nation
<b>Regulatory:</b>	Navajo Nation Environmental Protection Agency (NNEPA) and New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On August 16, 2023, a third party notified Enterprise of a possible release of natural gas on the Blanco C-14 pipeline. Enterprise personnel verified a leak and subsequently isolated and locked the pipeline out of service. On August 17, 2023, Enterprise determined the release was “reportable” due to the estimated volume of impacted soil. The NM EMNRD OCD was subsequently notified. On August 30, 2023, Enterprise initiated activities to repair the pipeline and remediate potential petroleum hydrocarbon impact.

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

### 1.2 Project Objective

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

## 2.0 CLOSURE CRITERIA

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

- The NM Office of the State Engineer (OSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs were identified in the same Public Land Survey System (PLSS) section as the Site or in the adjacent PLSS sections (**Figure A**, **Appendix B**).

- Seven cathodic protection wells (CPWs) were identified in the NM EMNRD OCD imaging database in the adjacent PLSS sections. These CPWs are depicted on **Figure B (Appendix B)**. The three closest CPWs (Huerfanito Unit #79M, Huerfanito Unit #10, #178, and #151, and Huerfanito Units #172 and #56-23) are located less than 1.25 miles from the Site. Documentation for the cathodic protection well located near the Huerfanito Unit #79M well location indicates a depth to water of 185 feet bgs. This cathodic protection well is located approximately 1.07 miles southwest of the Site and is approximately 161 feet higher in elevation than the Site. Documentation for the cathodic protection well located near Huerfanito Unit #10, #178, and #151 well locations indicate depths to water of 29 and 90 feet bgs. This cathodic protection well is located approximately 1.15 miles south of the Site and is approximately 60 feet higher in elevation than the Site. Documentation for the cathodic protection well located near Huerfanito Unit #172 and #56-23 well locations indicates a depth to water of 130 feet bgs. This cathodic protection well is located approximately 1.15 miles northwest of the Site and is approximately 37 feet higher in elevation than the Site.
- The Site is located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C, Appendix B**).
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (**Figure D, Appendix B**).
- No springs, or private domestic freshwater wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site (**Figure E, Appendix B**).
- No freshwater wells or springs were identified within 1,000 feet of the Site (**Figure E, Appendix B**).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not within 300 feet of a wetland (**Figure F, Appendix B**).
- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine (**Figure G, Appendix B**).
- The Site is located within an unstable area per Paragraph (6) of Subsection U of 19.15.2.7 NMAC. The Site is located in an ephemeral wash.
- 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 Enterprise estimates the depth to water at the Site to be less than 50 feet bgs, resulting in a Tier I ranking. Applicable closure criteria for soils remaining in place at the Site include:

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

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

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

<sup>3</sup> – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

### 3.0 SOIL REMEDIATION ACTIVITIES

On August 30, 2023, Enterprise initiated activities to repair the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, Industrial Mechanical Inc (IMI), provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 85 feet long and 56 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 27 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of silty sand and sand.

Approximately 684 cubic yards (yd<sup>3</sup>) of petroleum hydrocarbon-affected soils were transported to the Envirotech, Inc., (Envirotech) landfarm in San Juan County, NM for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation was backfilled with imported fill and laboratory-confirmed overburden soil and then contoured to the surrounding topography.

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

### 4.0 SOIL SAMPLING PROGRAM

Ensolum field screened the soil samples from the excavation utilizing a calibrated Dexsil PetroFLAG<sup>®</sup> 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 27 composite soil samples (S-1 through S-27) from the excavation for laboratory analysis. In addition, eight composite soil samples (SP-1 through SP-8) were collected from segregated, apparently unaffected stockpiled overburden soils to determine if the material was suitable to use as backfill. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft<sup>2</sup>) or less sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. Hand tools or the excavator bucket were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

#### **First Sampling Event**

On September 1, 2023, sampling was performed at the Site. The NNEPA and NM EMNRD OCD were notified of the sampling event although no representatives were present during sampling activities. Composite soil samples S-1 (7') were collected from the floor of the excavation.

Composite soil samples S-2 (0' to 7'), S-3 (0' to 7'), and S-4 (0' to 7') were collected from the walls of the excavation. Composite soil samples SP-1 and SP-2 were collected from segregated stockpiled material derived from sloping and ramp building activities to verify that the material did not exhibit COC impact and that the material was suitable for use as backfill.

### **Second Sampling Event**

On October 4, 2023, sampling was again performed at the Site. The NNEPA and NM EMNRD OCD were notified of the sampling event although no representatives were present during sampling activities. Composite soil samples SP-3 through SP-6 were collected from segregated stockpiled material derived from sloping and ramp building activities to verify that the material did not exhibit COC impact and that the material was suitable for use as backfill.

### **Third Sampling Event**

On October 9, 2023, a third sampling event was performed at the Site. The NNEPA and NM EMNRD OCD were notified of the sampling event although no representatives were present during sampling activities. Composite soil samples S-5 (0' to 5'), S-6 (5' to 10'), S-7 (10' to 14'), S-8 (0' to 10'), S-9 (0' to 14'), S-10 (0' to 8'), S-11 (0' to 10'), S-12 (0' to 14'), S-13 (0' to 8'), S-14 (0' to 12'), S-15 (0' to 4'), S-16 (4' to 8'), S-17 (8' to 12'), S-18 (0' to 8'), S-19 (0' to 12'), S-20 (0' to 12'), S-21 (7' to 27'), S-23 (12' to 25'), S-24 (5' to 8'), S-25 (14' to 27'), S-26 (12' to 25'), and S-27 (7' to 27') were collected from the sloped walls of the excavation. Composite soil sample S-22 (25' to 27') was collected from the floor of the excavation.

### **Fourth Sampling Event**

On October 10, 2023, a fourth sampling event was performed at the Site. Composite soil samples SP-7 and SP-8 were collected from segregated stockpiled material derived from sloping and ramp building activities to verify that the material were suitable for use as backfill.

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

## **5.0 SOIL LABORATORY ANALYTICAL METHODS**

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

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

## **6.0 SOIL DATA EVALUATION**

Ensolum compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-27 and SP-1 through SP-8) to the applicable NM EMNRD OCD closure criteria. The laboratory analytical results are summarized in **Table 1 (Appendix F)**.

- The laboratory analytical results for the composite soil samples indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 10 mg/kg.



- The laboratory analytical results for the composite soil samples indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for composite soil samples SP-5, S-7, and S-13 indicate combined TPH GRO/DRO/MRO concentrations of 9.4 mg/kg, 12 mg/kg, and 10 mg/kg, respectively, which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for the other composite soil samples indicate combined TPH GRO/DRO/MRO concentrations are not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for the composite soil samples indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 600 mg/kg.

## 7.0 RECLAMATION

The excavation was backfilled with imported fill and laboratory-confirmed stockpiled material and then contoured to the surrounding topography.

## 8.0 FINDINGS AND RECOMMENDATION

- Thirty-five composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, total BTEX, chloride, or TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.
- Approximately 684 yd<sup>3</sup> of petroleum hydrocarbon-affected soils were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled with imported fill and laboratory-confirmed stockpiled material and then contoured to the surrounding topography.

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

## 9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

### 9.1 Standard of Care

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

### 9.2 Limitations

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

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

### **9.3 Reliance**

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



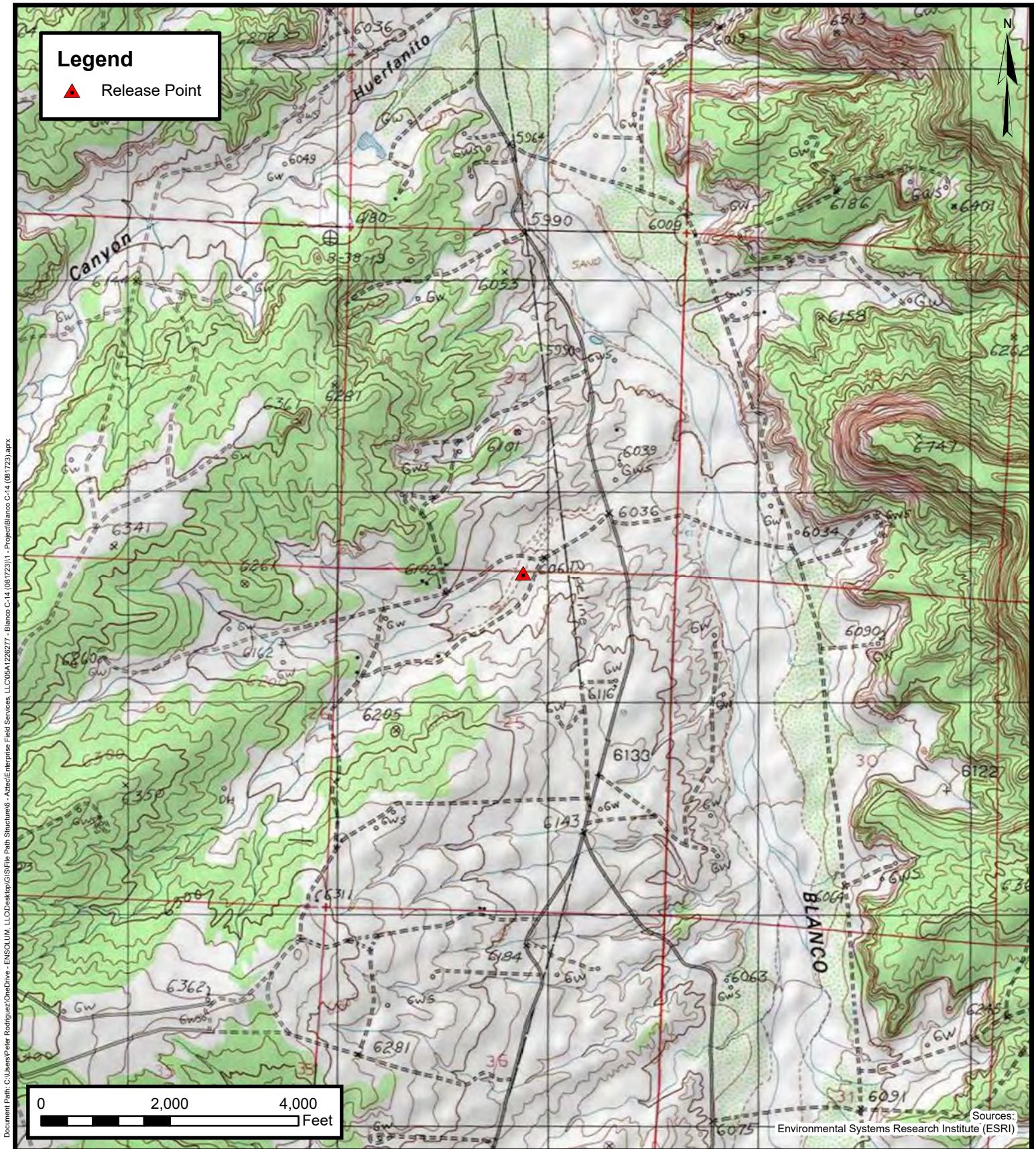


# APPENDIX A

## Figures

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## Topographic Map

Enterprise Field Services, LLC

Blanco C-14 (08/17/23)

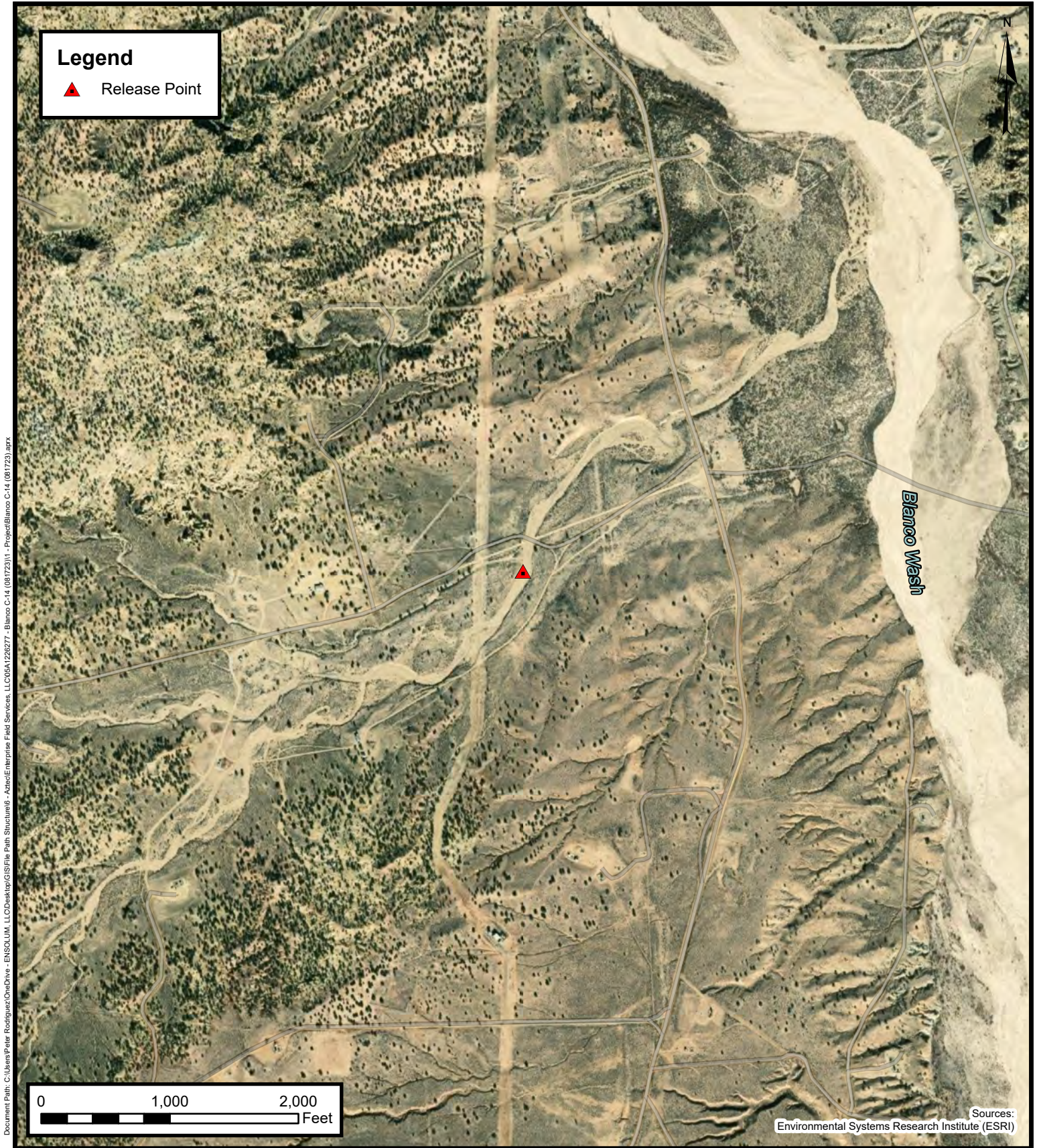
Project Number: 05A1226277

Unit Letter B, S25 T27N R9W, San Juan County, New Mexico  
36.553293, -107.739246

FIGURE

1





## Site Vicinity Map

Enterprise Field Services, LLC

Blanco C-14 (08/17/23)

Project Number: 05A1226277

Unit Letter B, S25 T27N R9W, San Juan County, New Mexico  
36.553293, -107.739246

FIGURE

2





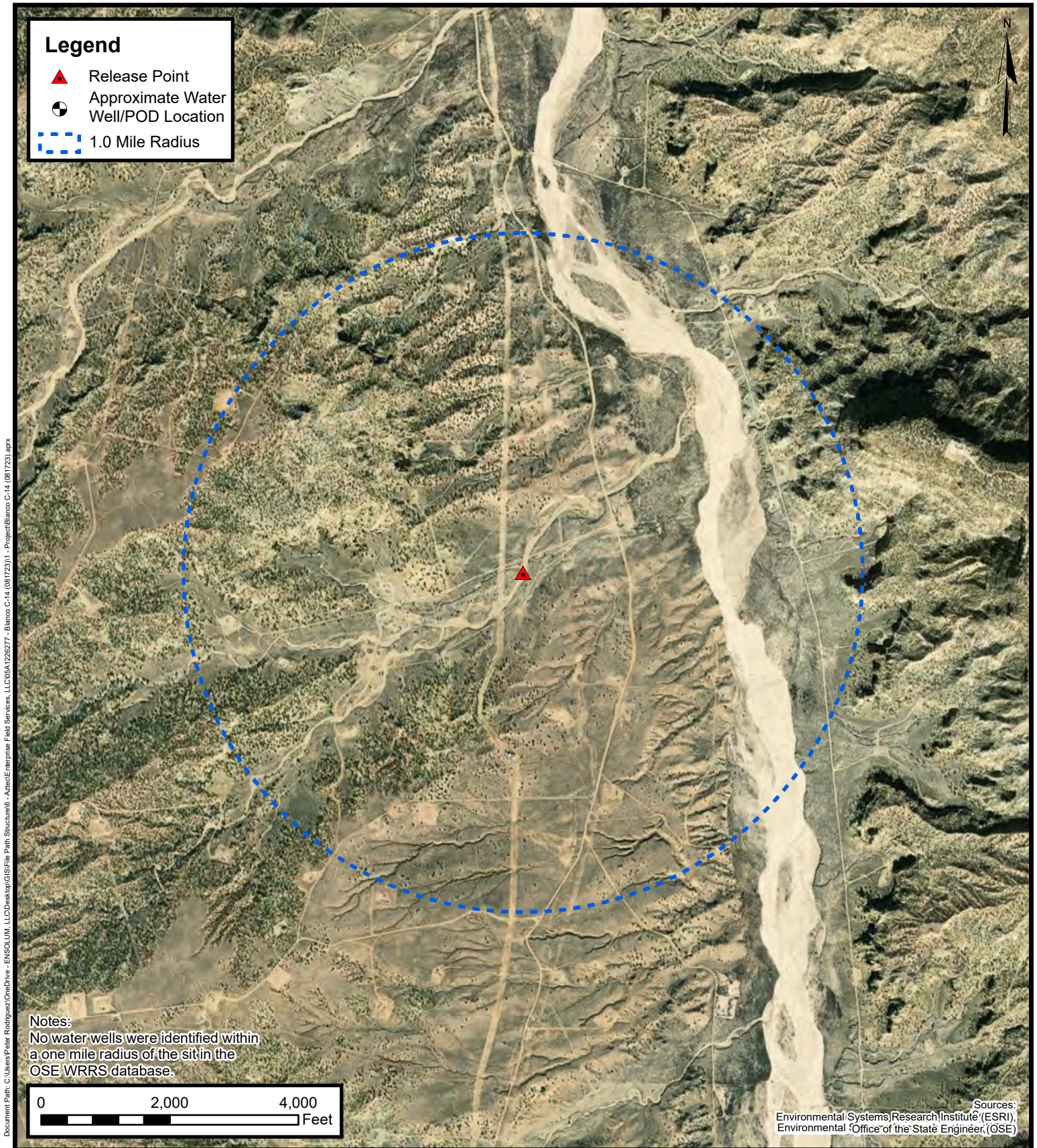


## APPENDIX B

### Siting Figures and Documentation

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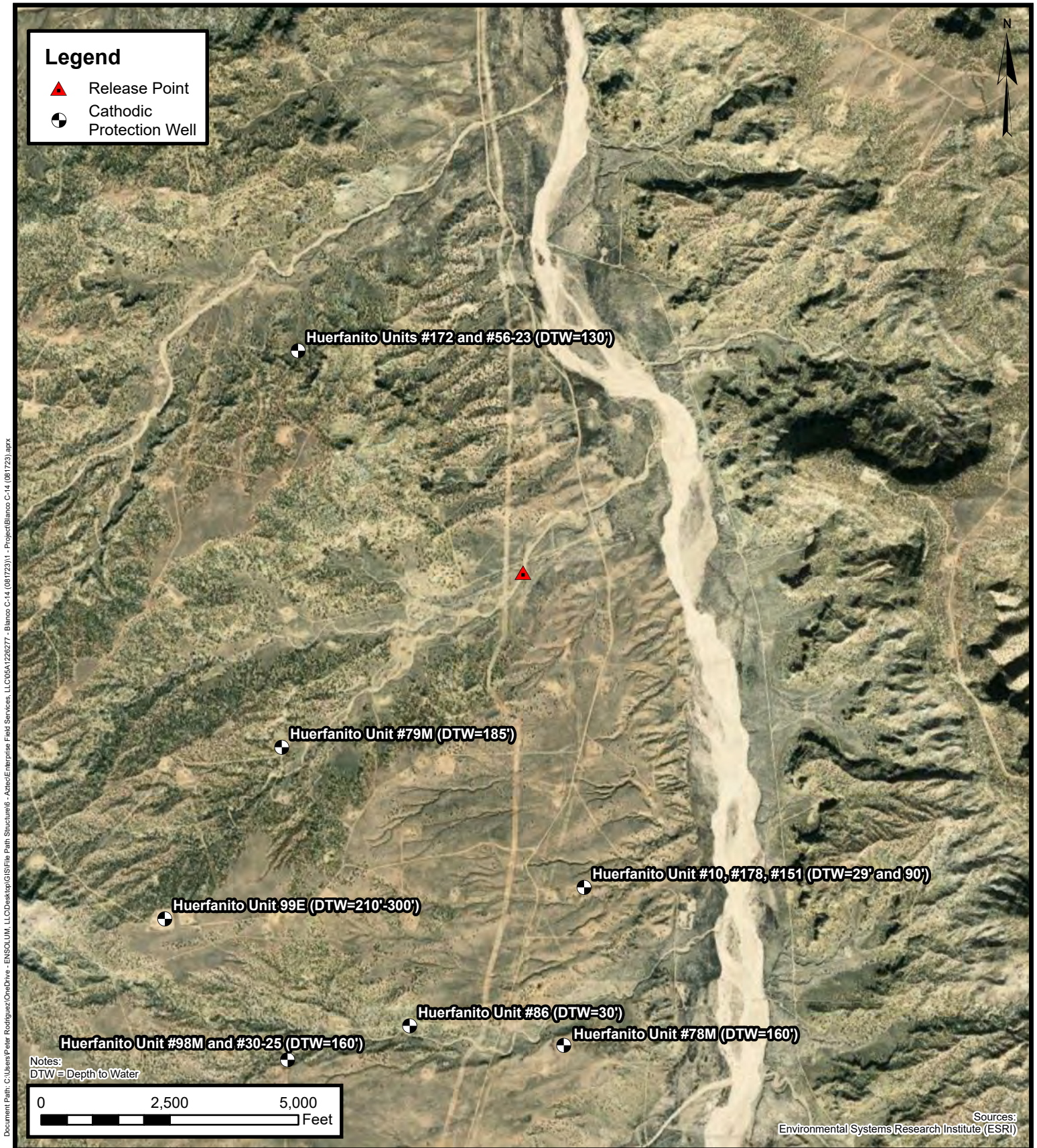


## 1.0 Mile Radius Water Well/POD Location Map

Enterprise Field Services, LLC  
Blanco C-14 (08/17/23)  
Project Number: 05A1226277  
Unit Letter B, S25 T27N R9W, San Juan County, New Mexico  
36.553293, -107.739246

FIGURE  
**A**





## Cathodic Protection Well Recorded Depth to Water

Enterprise Field Services, LLC

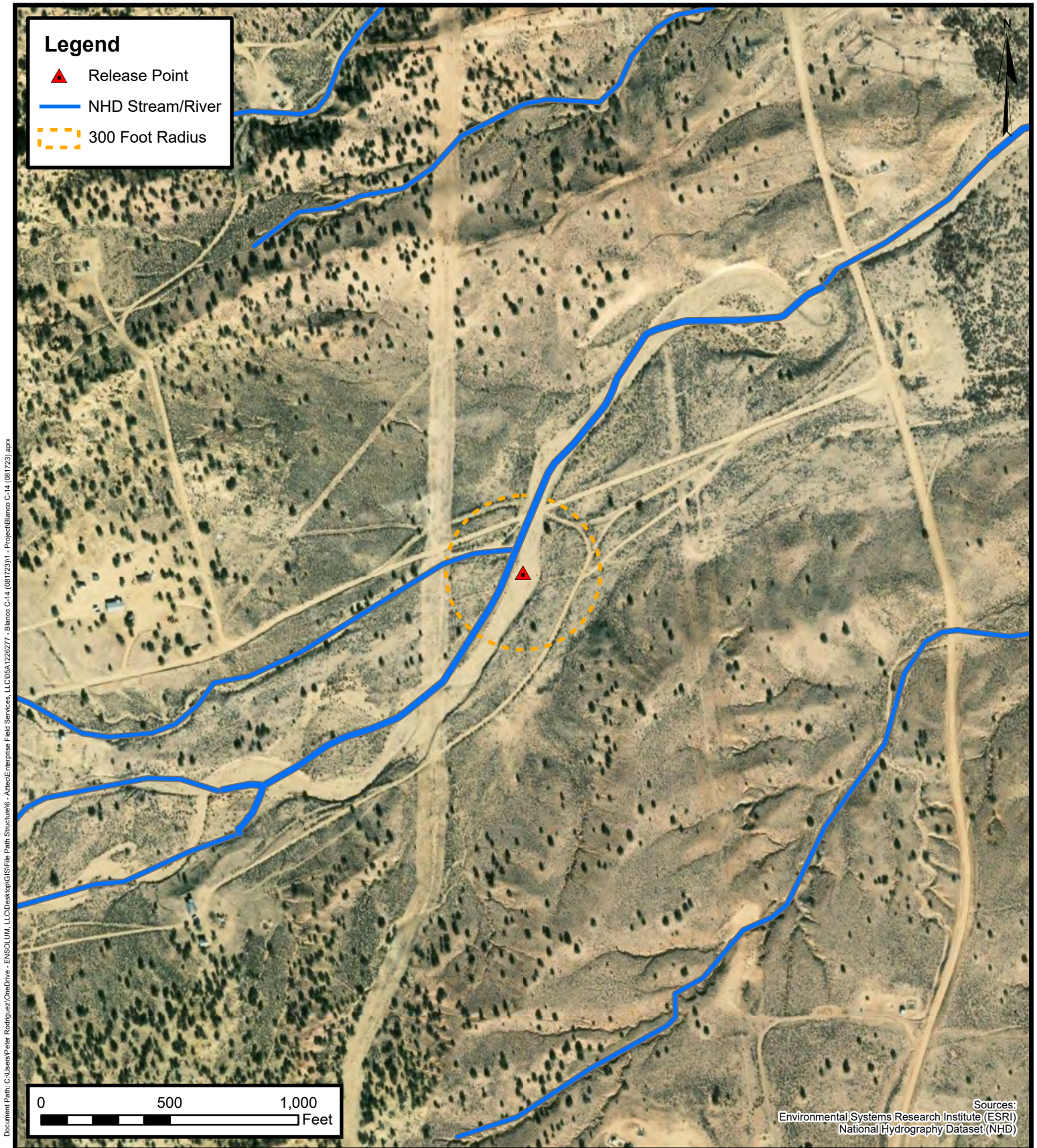
Blanco C-14 (08/17/23)

Project Number: 05A1226277

Unit Letter B, S25 T27N R9W, San Juan County, New Mexico  
36.553293, -107.739246

**FIGURE  
B**





### 300 Foot Radius Watercourse and Drainage Identification

Enterprise Field Services, LLC

Blanco C-14 (08/17/23)

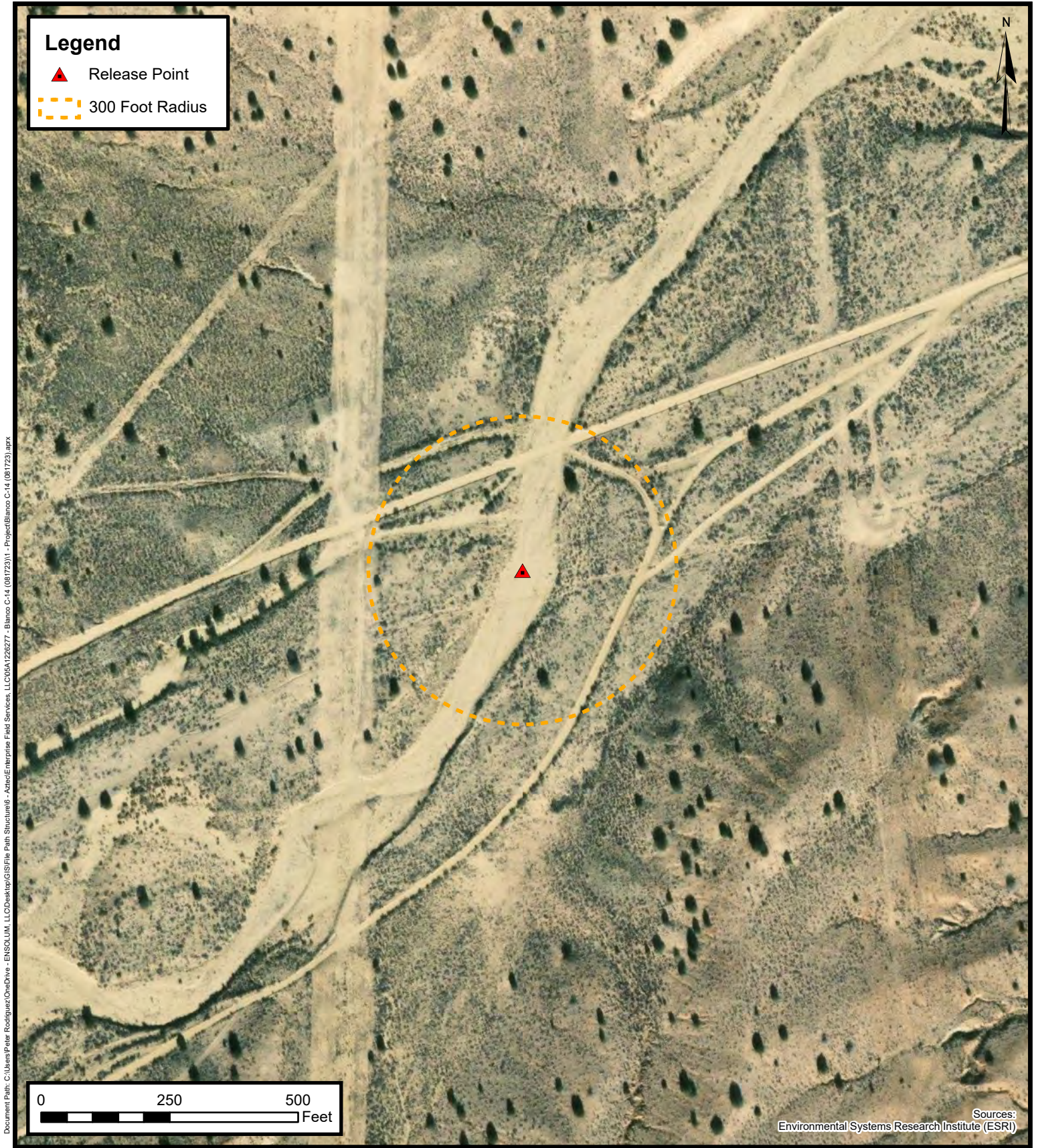
Project Number: 05A1226277

Unit Letter B, S25 T27N R9W, San Juan County, New Mexico  
36.553293, -107.739246

FIGURE

C





**300 Foot Radius Occupied  
Structure Identification**

Enterprise Field Services, LLC

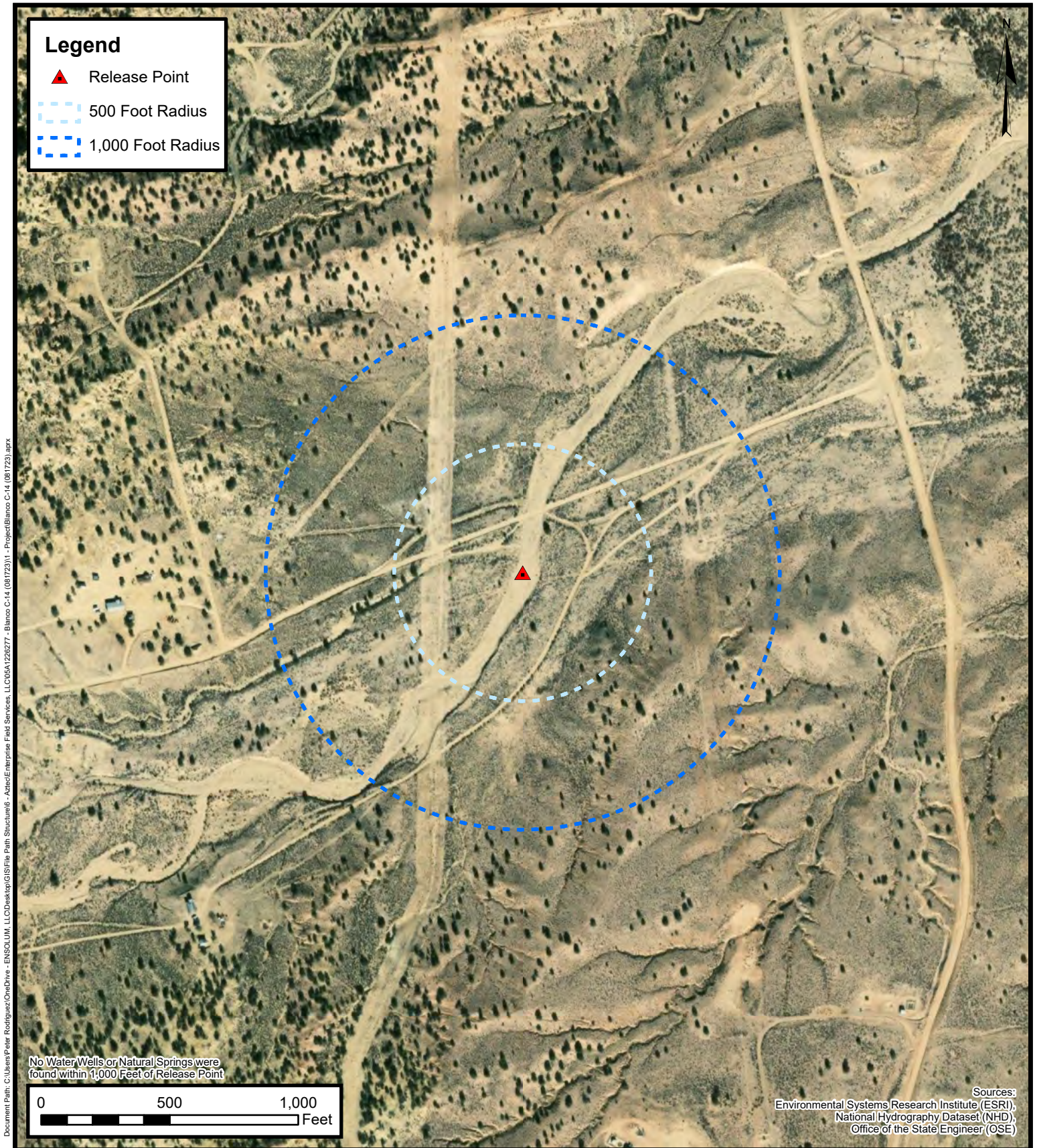
Blanco C-14 (08/17/23)

Project Number: 05A1226277

Unit Letter B, S25 T27N R9W, San Juan County, New Mexico  
36.553293, -107.739246

**FIGURE  
D**



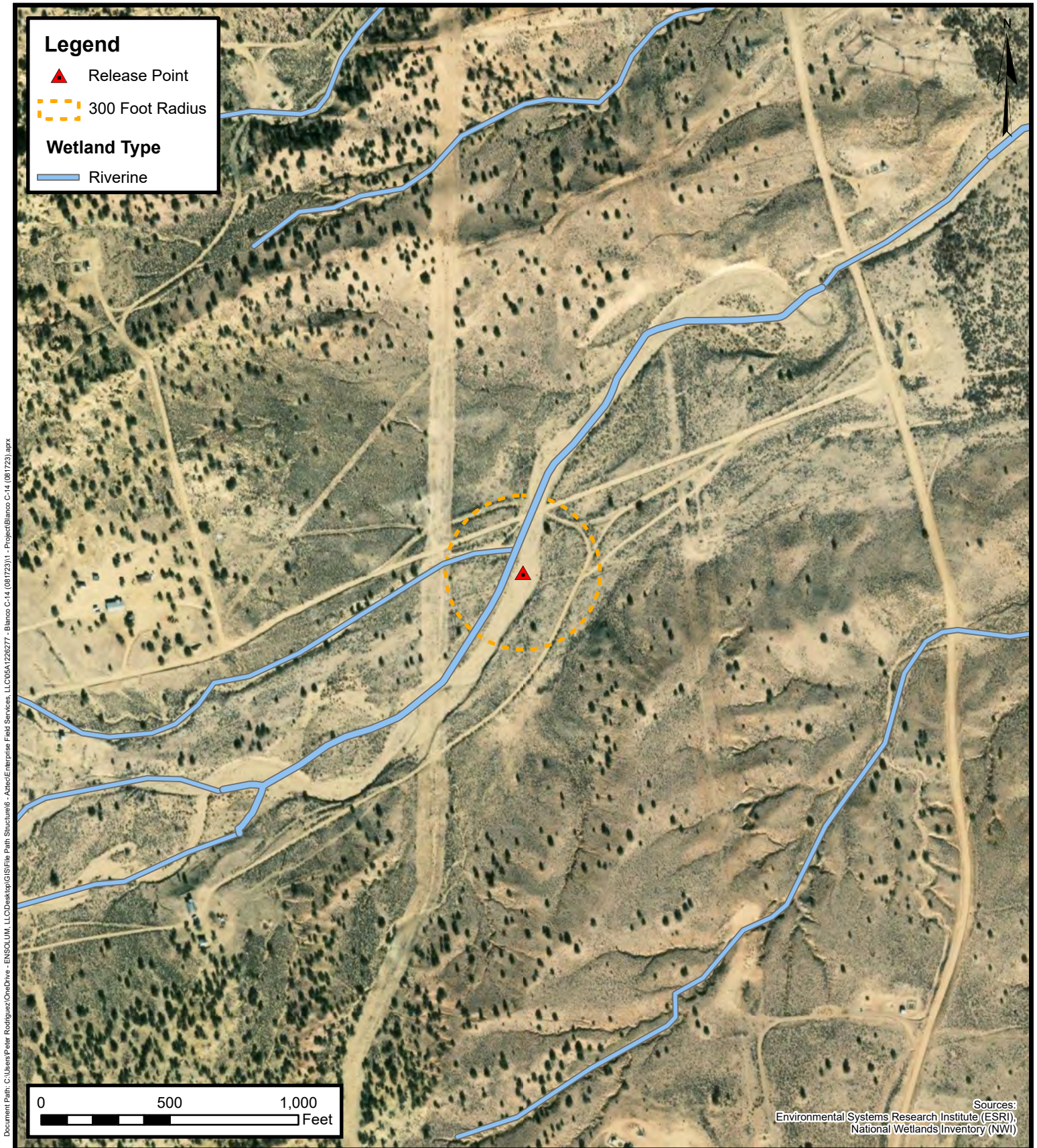


**Water Well and  
Natural Spring Location**  
Enterprise Field Services, LLC  
Blanco C-14 (08/17/23)  
Project Number: 05A1226277

Unit Letter B, S25 T27N R9W, San Juan County, New Mexico  
36.553293, -107.739246

**FIGURE  
E**





## Wetlands

Enterprise Field Services, LLC

Blanco C-14 (08/17/23)

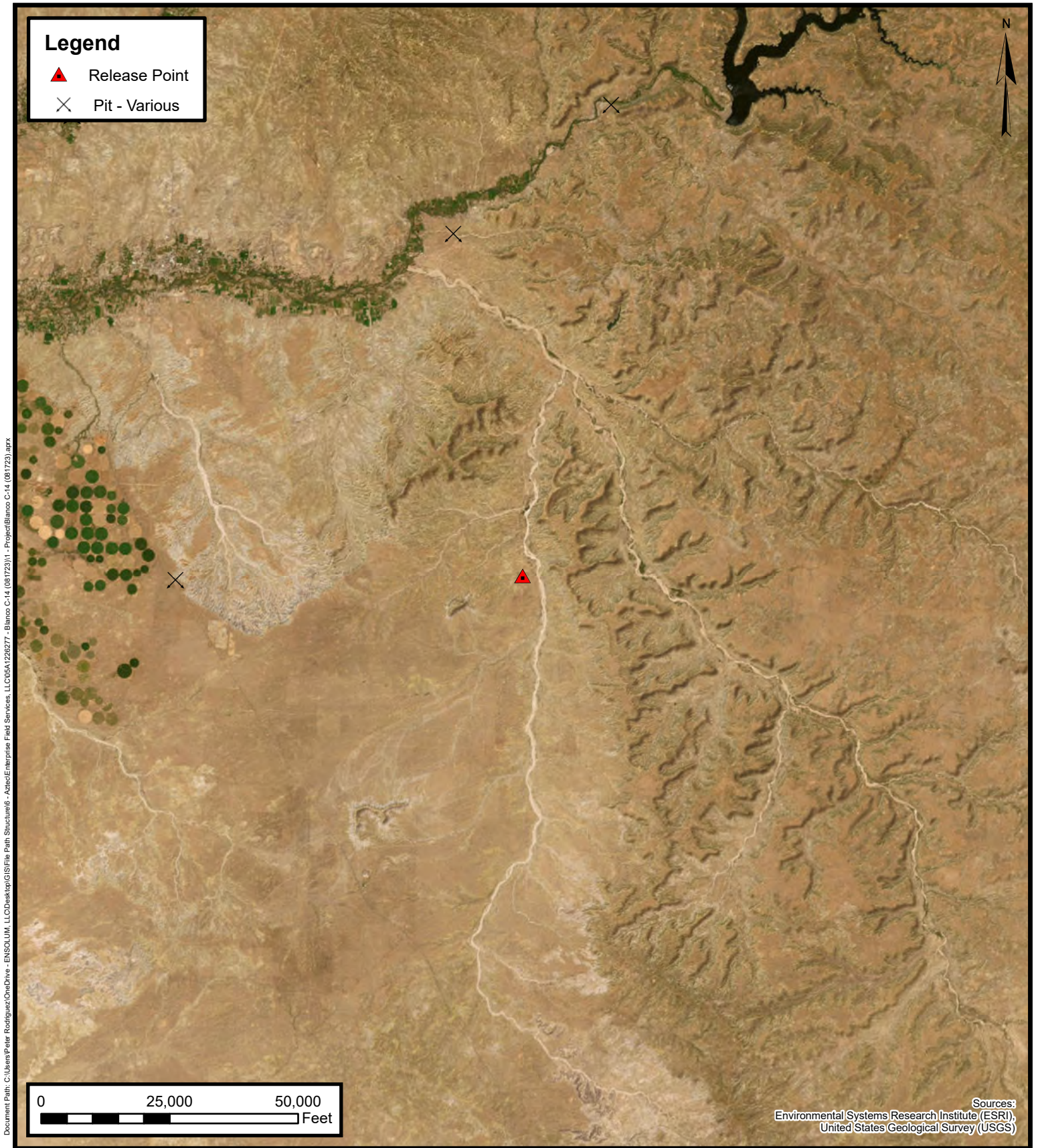
Project Number: 05A1226277

Unit Letter B, S25 T27N R9W, San Juan County, New Mexico  
36.553293, -107.739246

FIGURE

F





## Mines, Mills, and Quarries

Enterprise Field Services, LLC

Blanco C-14 (08/17/23)

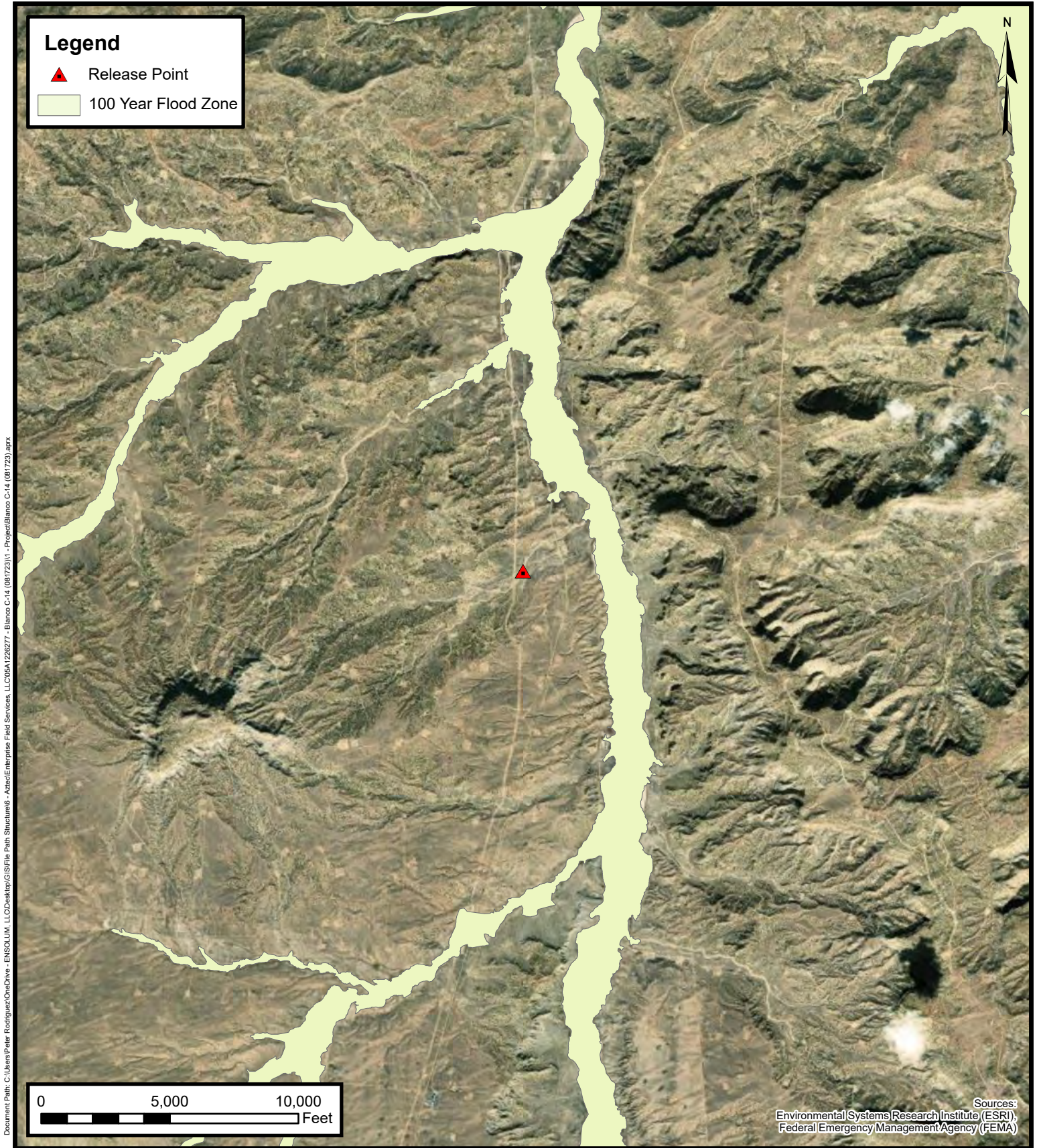
Project Number: 05A1226277

Unit Letter B, S25 T27N R9W, San Juan County, New Mexico  
36.553293, -107.739246

FIGURE

G





## 100-Year Flood Plain Map

Enterprise Field Services, LLC

Blanco C-14 (08/17/23)

Project Number: 05A1226277

Unit Letter B, S25 T27N R9W, San Juan County, New Mexico  
36.553293, -107.739246

FIGURE

H



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

---

No records found.

### PLSS Search:

**Section(s):** 25, 23, 24, 26, 35, 36    **Township:** 27N    **Range:** 09W

---

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.

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9/27/23 10:06 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER





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

---

No records found.

**PLSS Search:**

**Section(s):** 19, 30, 31

**Township:** 27N

**Range:** 08W

---

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.

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9/27/23 10:06 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

172 - 30-045-28422  
56 - 30-045-06400

3690

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICOOperator Meridian Oil Co. Location: Unit B Sec. 23 Twp 27 Rng 09

Name of Well/Wells or Pipeline Serviced \_\_\_\_\_

HUEFANITO UNITS #172 AND #56-23Elevation 6115 Completion Date 3-4-93 Total Depth 372 Land Type FCasing Strings, Sizes, Types & Depths 3/3 SET 99' OF 8" PVC CASING  
NO GAS, WATER, OR BOULDERS WERE ENCOUNTERED DURING CASINGIf Casing Strings are cemented, show amounts & types used Cemented  
- WITH 20 SACKS.If Cement or Bentonite Plugs have been placed, show depths & amounts used  
no plugsDepths & thickness of water zones with description of water: Fresh, Clear,  
Salty, Sulphur, Etc. 130' and was clear.Depths gas encountered: No gasGround bed depth with type & amount of coke breeze used: 372' with  
104 (50 lb) sacks of Asbury GraphiteDepths anodes placed: #1 is at 350 and #15 is at 160'.Depths vent pipes placed: Bottom to surfaceVent pipe perforations: Up to 150'.

Remarks: \_\_\_\_\_

RECEIVED

JAN 31 1994

OIL CON. DIV  
DIST. 3

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

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.

If Federal or Indian, add Lease Number.

## API WATER ANALYSIS REPORT FORM

Laboratory No 25-930315-11

Company MERIDIAN OIL		Sample No.		Date Sampled 3-4-93	
Field 2441 W		Legal Description		County or Parish San Juan	
State NM		Lease or Unit		Well Huerfano #172	
Depth		Formation Fertland		Water, B/D	
Type of Water (Produced, Supply, etc.)		Sampling Point Ground Bcd		Sampled By R. Smith	

## DISSOLVED SOLIDS

## CATIONS

	mg/l	me/l
Sodium, Na (calc.)	1700	76
Calcium, Ca	340	17
Magnesium, Mg	7	0.6
Barium, Ba		

## OTHER PROPERTIES

## pH

Specific Gravity, 60/60 F.

Resistivity (ohm-meters) 71 F.

Total Dissolved Solids (calc.)

## ANIONS

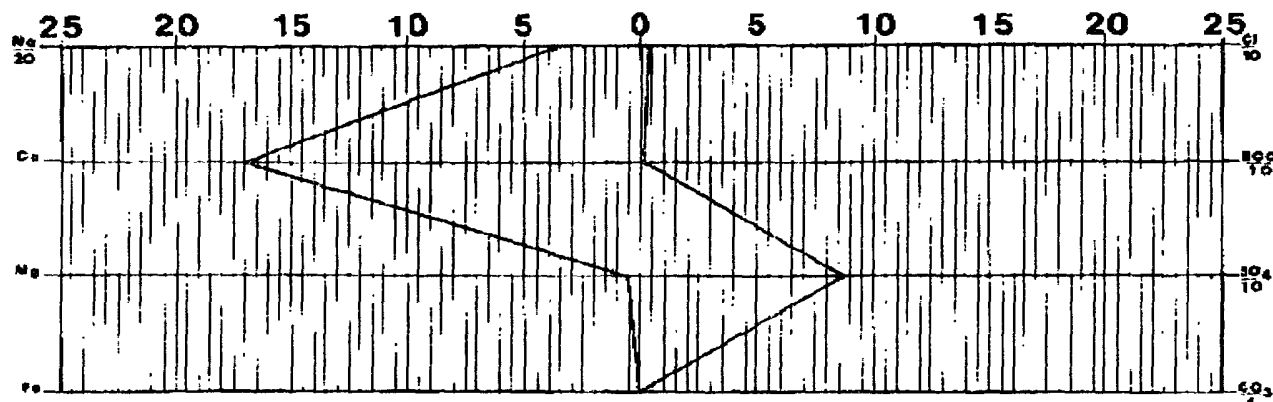
Chloride, Cl	160	4.5
Sulfate, So <sub>4</sub>	4200	87
Carbonate, CO <sub>3</sub>	-	-
Bicarbonate, HCO <sub>3</sub>	110	1.8

Iron, Fe (total)

Sulfide, as H<sub>2</sub>S

## REMARKS &amp; RECOMMENDATIONS:

ATTN: Bill Donahue



Date Received March 15th, 1993	Preserved	Date Analyzed March 18th, 1993	Analyzed By R.H.
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TECH, Inc.  
333 East Main  
Farmington  
New Mexico  
87401  
505/327-3311

MAR 21, 93 16:02 NO.001 P.06

TEL No.5053253311

BRIONES LAW FIRM

30-045-28948

3682

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICOOperator Meridian Oil Inc. Location: Unit I Sec. 26 Twp 29 Rng 07

Name of Well/Wells or Pipeline Serviced \_\_\_\_\_

Huertanito Unit #79MElevation \_\_\_\_\_ Completion Date 9/17/93 Total Depth 408' Land Type FCasing Strings, Sizes, Types & Depths 9/16 Set 58' of 8" PVC Casing.NO GAS, WATER, OR BOULDERS WERE ENCOUNTERED DURING CASING.If Casing Strings are cemented, show amounts & types used CementedWITH 16 SACKS.

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

NONEDepths & thickness of water zones with description of water: Fresh, Clear,  
Salty, Sulphur, Etc. HIT A WATER SEEP AT 102', AND A MAJOR FRESH  
WATER VEIN AT 185'. A WATER SAMPLE WAS TAKEN.Depths gas encountered: NONEGround bed depth with type & amount of coke breeze used: 408' DepthUsed 112 SACKS OF ASBURY 218R (5600#)Depths anodes placed: 380', 370', 320', 310', 300', 290', 280', 270', 260', 250', 240', 230', 197', 190', + 144'Depths vent pipes placed: SURFACE TO 408'.Vent pipe perforations: BOTTOM 300'.

Remarks: \_\_\_\_\_

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JAN 31 1994

OIL CON. DIV.]

DIST. 3

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

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.

If Federal or Indian, add Lease Number.

30-045-28946 HUERTFANITO UNIT #98-M  
30-045-06097 HUERTFANITO UNIT #30

3682

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

Operator Meridian Oil Inc. Location: Unit 0 Sec. 35 Twp 27 Rng 09

Name of Well/Wells or Pipeline Serviced \_\_\_\_\_

HUERTFANITO UNIT #98M AND HUERTFANITO UNIT #30-35

Elevation \_\_\_\_\_ Completion Date 9/21/93 Total Depth 355' Land Type F

Casing Strings, Sizes, Types & Depths 9/16 Set 59' of 8" PVC CASING.

NO GAS, WATER, OR BOULDERS WERE ENCOUNTERED DURING CASING.

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

WITH 16 SACKS.

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

NONE

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

Salty, Sulphur, Etc. HIT A SEEP AT 105' AND A FRESH WATER

VEIN AT 160'. A WATER SAMPLE WAS TAKEN.

Depths gas encountered: NONE

Ground bed depth with type & amount of coke breeze used: 355' DEPTH.

USED 93 SACKS OF ASBURY 218R (H650\*)

Depths anodes placed: 322', 310', 300', 283', 275', 265', 255', 220', 213', 203', 195', 185', 175', 165', + 155'

Depths vent pipes placed: SURFACE TO 355'

Vent pipe perforations: BOTTOM 250'

Remarks: \_\_\_\_\_

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JAN 31 1994

OIL CON. DIV./

DIST. 3

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

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

OCD CATHODIC PROTECTION DEEPWELL GROUND BED REPORT  
DATA SHEET: NORTHWESTERN NEW MEXICOOPERATOR ConocoPhillips CO  
FARMINGTON, NM 87401  
PHONE 599-3400

SUBMIT 2 COPIES TO O.C.D. AZTEC OFFICE

**LOCATION INFORMATION**

API NUMBER: 3004535257

WELL NAME OR PIPELINE SERVED: HUERFANITO UNIT 99E

LEGAL LOCATION: 35 27N 09W

INSTALLATION DATE: 10/9/2012

PPCO. RECTIFIER NO.: 10578W

ADDITIONAL WELLS:

TYPE OF LEASE:

LEASE NUMBER: SF-080117

**GROUND BED INFORMATION**

TOTAL DEPTH: 300' CASING DIAMETER: 8" TYPE OF CASING: PVC CASING DEPTH: 20' CASING CEMENTED ■

TOP ANODE DEPTH: 157'

BOTTOM ANODE DEPTH: 265'

ANODE DEPTHS: 157, 169, 181, 193, 205, 217, 229, 241, 253, 265

AMOUNT OF COKE: 50 BAGS

**WATER INFORMATION**

WATER DEPTH (1): 210' TO 300'

WATER DEPTH (2):

GAS DEPTH: —

CEMENT PLUGS: —

RCVD OCT 25 '12  
OIL CONS. DIV.  
DIST. 3**OTHER INFORMATION**

TOP OF VENT PERFORATIONS: 160'

VENT PIPE DEPTH: 300'

REMARKS:

COKE DEPTH 142'

IF ANY OF THE ABOVE INFORMATION IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED UNABANDONED WELLS ARE TO BE INCLUDED.

\*- LAND TYPE MAY BE SHOWN: F-FEDERAL, I-INDIAN, S-STATE; P-FEE  
IF FEDERAL OR INDIAN, ADD LEASE NUMBER

Wednesday, Nov

Page 1 of 1

ca

COMPANY: CONOCO  
 COMPANY REP.: JOHN TAFOYA  
 LOCATION: HUERFANITO UNIT COM / 311  
 JOB NO.: 340140335  
 FOREMAN: RON LUNA  
 DRILLER: DARREL FERRIER

DATE: 9/6/2012  
 DIA. HOLE: 7 7/8"  
 DEPTH: 300'  
 COKE TYPE: SW  
 # OF COKE: 50 BAGS  
 # OF BENTONITE: 0

CASING: SCH 40 PVC  
 DIAMETER: 8"  
 CASING DEPTH: 20'  
 # OF ANODES: 10  
 ANODE TYPE: 2284Z  
 ANODE LEAD: HWMPE #8

**corpro**

RECTIFIER MFG: \_\_\_\_\_  
 MODEL: \_\_\_\_\_  
 SERIAL #: \_\_\_\_\_  
 V-DC: \_\_\_\_\_ A-DC: \_\_\_\_\_

WELL LOG										ANODE PLACEMENT			
DEPTH FT.	DRILLERS LOG - SOIL TYPE	VOLTS	AMPS	COMMENTS / ANODE #	DEPTH FT.	DRILLERS LOG - SOIL TYPE	VOLTS	AMPS	COMMENTS / ANODE #	ANODE NO.	ANODE DEPTH	AMPS W/O COKE	AMPS W/ COKE
0	CASING	13.20		SAND	250	SHALE		4.80		1	260'	4.60	8.90
5	CASING			SAND	255	SHALE		4.70		2	248'	4.80	10.00
10	CASING			SAND	260	SHALE		4.50		3	236'	4.50	11.00
15	CASING				265	SHALE		4.40		4	224'	3.80	9.30
20	CASING				270	SHALE		4.30		5	212'	1.60	6.60
25	BROWN SANDSTONE				275	SHALE				6	200'	3.50	8.10
30	BROWN SANDSTONE				280	SHALE				7	188'	4.80	10.4
35	BROWN SANDSTONE				285	SHALE				8	176'	4.90	11.30
40	BROWN SANDSTONE				290	SHALE				9	164'	4.00	9.10
45	BROWN SANDSTONE				295	SHALE				10	152'	2.00	6.80
50	GRAY CLAY				300	SHALE			TD	11			
55	GRAY CLAY				305				VENT PIPE DEPTH	12			
60	GRAY CLAY				310					13			
65	GRAY CLAY				315					14			
70	GRAY CLAY				320					15			
75	GRAY CLAY				325					16			
80	GRAY CLAY				330					17			
85	GRAY SANDSTONE				335					18			
90	GRAY SANDSTONE	0.70			340					19			
95	GRAY SANDSTONE	1.40			345					20			
100	GRAY SANDSTONE	3.50			350					21			
105	GRAY SANDSTONE	4.10			355					22			
110	GRAY SANDSTONE	4.30			360					23			
115	GRAY SANDSTONE	4.10			365					24			
120	GRAY SANDSTONE	2.60			370					25			
125	SHALE	2.10			375								
130	SHALE	4.00			380								
135	SHALE	4.70			385								
140	SHALE	4.60			390								
145	GRAY WATER SANDSTONE	3.20			395								
150	GRAY WATER SANDSTONE	1.70			400								
155	GRAY WATER SANDSTONE	1.60			405								
160	GRAY WATER SANDSTONE	1.90			410								
165	GRAY WATER SANDSTONE	2.30			415								
170	GRAY WATER SANDSTONE	2.80			420								
175	GRAY WATER SANDSTONE	3.90			425								
180	GRAY WATER SANDSTONE	3.90			430								
185	SHALE	5.00			435								
190	SHALE	5.20			440								
195	SHALE	5.00			445								
200	SHALE	4.60			450								
205	SANDY SHALE	3.80			455								
210	SANDY SHALE	3.10			460								
215	SANDY SHALE	1.60			465								
220	SANDY SHALE	2.80			470								
225	SANDY SHALE	4.20			475								
230	SANDY SHALE	5.00			480								
235	SHALE	5.00			485								
240	SHALE	5.00			490								
245	SHALE	4.80			495								

#### GROUND BED RESISTANCE

TOTAL VOLTS: 13.20  
 TOTAL AMPS: 29.90  
 0.44 OHMS

SITE ELEVATION: 6491'  
 WATER CONDUCTIVITY:  
 ADDITIONAL COMMENTS: HIT AT 160' INJECT H2O 160' TO

COKE LEVEL: 137'  
 EXTRA CASING USED 0



**OCD CATHODIC PROTECTION DEEPWELL GROUND BED REPORT  
DATA SHEET: NORTHWESTERN NEW MEXICO**

SUBMIT 2 COPIES TO O.C.D. AZTEC OFFICE

OPERATOR: BR  
FARMINGTON, NM 87401  
PHONE: 599-3400**LOCATION INFORMATION**

API NUMBER: 3004506129

WELL NAME OR PIPELINE SERVED: HUERFANITO UNIT #86

LEGAL LOCATION: 36 027N 009W

INSTALLATION DATE:

10/1/2013

PPCO. RECTIFIER NO.: 10556W

ADDITIONAL WELLS:

TYPE OF LEASE:

LEASE NUMBER:

NOT PROVIDED

**GROUND BED INFORMATION**

TOTAL DEPTH: 300' CASING DIAMETER: 8" TYPE OF CASING: PVC CASING DEPTH: 20' CASING CEMENTED ■

TOP ANODE DEPTH: 176

BOTTOM ANODE DEPTH: 284

ANODE DEPTHS: 176, 188, 200, 212, 224, 236, 248, 260, 272, 284

AMOUNT OF COKE: 50 BAGS

**WATER INFORMATION**

WATER DEPTH (1): 30'

WATER DEPTH (2): 260'

GAS DEPTH: —

CEMENT PLUGS: —

RCVD OCT 22 '13  
OIL CONS. DIV.  
DIST. 3**OTHER INFORMATION**

TOP OF VENT PERFORATIONS: 160'

VENT PIPE DEPTH: 300'

REMARKS:

IF ANY OF THE ABOVE INFORMATION IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED UNABANDONED WELLS ARE TO BE INCLUDED.

\*- LAND TYPE MAY BE SHOWN: F-FEDERAL; I-INDIAN; S-STATE; P-FEE  
IF FEDERAL OR INDIAN, ADD LEASE NUMBER.

Wednesday, Nov

ca

Page 1 of 1

COMPANY: ConocoPhillips  
 COMPANY REP.: JOHN TAFOYA  
 LOCATION: HUERFANITO #86  
 JOB NO.: 340140463  
 FOREMAN: RON LUNA  
 DRILLER: DARREL FERRIER

DATE: 10/1/2013  
 DIA. HOLE: 7 7/8  
 DEPTH: 300'  
 COKE TYPE: SW  
 # OF COKE: 50 BAGS  
 # OF BENTONITE: 0

CASING: SCH40 PVC  
 DIAMETER: 8"  
 CASING DEPTH: 20'  
 # OF ANODES: 10  
 ANODE TYPE: 2284Z  
 ANODE LEAD: HWMPE#8

**corrpro**

RECTIFIER MFG: \_\_\_\_\_  
 MODEL: \_\_\_\_\_  
 SERIAL #: \_\_\_\_\_

V-DC: \_\_\_\_\_ A-DC: \_\_\_\_\_

WELL LOG										ANODE PLACEMENT			
DEPTH FT.	DRILLERS LOG - SOIL TYPE	VOLTS	AMPS	COMMENTS / ANODE #	DEPTH FT.	DRILLERS LOG - SOIL TYPE	VOLTS	AMPS	COMMENTS / ANODE #	ANODE NO.	ANODE DEPTH	AMPS W/O COKE	AMPS W/ COKE
0	Brown Sand Stone			Casing	250	Grey Sand Stone & Shale		1.70		1	284	2.30	4.60
5	Brown Sand Stone			Casing	255	Grey Sand Stone & Shale		1.80		2	272	3.10	5.60
10	Brown Sand Stone			Casing	260	Grey Sand Stone & Shale		1.90	#3 - 260	3	260	1.90	4.80
15	Brown Sand Stone			Casing	265	Grey Sand Stone & Shale		2.00		4	248	1.60	4.70
20	Brown Sand Stone			Casing	270	Grey Sand Stone & Shale		2.40	#2 - 272	5	236	1.80	4.40
25	Brown Sand Stone				275	Grey Sand Stone & Shale		5.10		6	224	2.60	6.00
30	Brown Sand Stone				280	Grey Sand Stone & Shale		2.90		7	212	2.70	6.90
35	Grey Sand Stone & Shale				285	Grey Sand Stone & Shale		2.30	#1 - 284	8	200	2.90	6.20
40	Grey Sand Stone & Shale				290	Grey Sand Stone & Shale		2.10		9	188	4.30	8.40
45	Grey Sand Stone & Shale				295	Grey Sand Stone & Shale		1.70		10	176	4.60	8.70
50	Grey Sand Stone & Shale				300	Grey Sand Stone & Shale				11			
55	Grey Sand Stone & Shale				305					12			
60	Grey Sand Stone & Shale				310					13			
65	Grey Sand Stone & Shale				315					14			
70	Grey Sand Stone & Shale				320					15			
75	Grey Sand Stone & Shale				325					16			
80	Grey Sand Stone & Shale				330					17			
85	Grey Sand Stone & Shale				335					18			
90	Grey Sand Stone & Shale				340					19			
95	Grey Sand Stone & Shale				345					20			
100	Grey Sand Stone & Shale		2.40		350					21			
105	Green Sand Stone		5.60		355					22			
110	Green Sand Stone		3.90		360					23			
115	Green Sand Stone		4.00		365					24			
120	Green Sand Stone		4.20		370					25			
125	Red Shale		4.10		375					GROUND BED RESISTANCE			
130	Red Shale		3.80		380								
135	Red Shale		3.50		385					TOTAL VOLTS:		13.10	
140	Red Shale		3.70		390					TOTAL AMPS:		17.40	
145	Sticky Grey Sand Stone		3.10		395							0.75	OHMS
150	Sticky Grey Sand Stone		3.80		400					SITE ELEVATION: 6213'			
155	Sticky Grey Sand Stone		3.80		405					WATER LEVEL #1: 30'			
160	Sticky Grey Sand Stone		4.40		410					WATER LEVEL #2: 260'			
165	Sticky Grey Sand Stone		4.60		415					COKE LEVEL:			
170	Sticky Grey Sand Stone		4.80		420					EXTRA CASING USED: N/A			
175	Green Shale		4.70	#10 - 176	425					ADDITIONAL COMMENTS: 0-60' - DRY 60-300' - INJECT WATER			
180	Green Shale		4.90		430								
185	Green Shale		4.90	#9 - 188	435								
190	Green Shale		4.00		440								
195	Green Shale		3.60		445								
200	Green Shale		3.20	#8 - 200	450								
205	Grey Sticky Sand Stone		2.90		455								
210	Grey Sticky Sand Stone		2.90	#7 - 212	460								
215	Grey Sticky Sand Stone		2.90		465								
220	Grey Sticky Sand Stone		3.40		470								
225	Grey Sticky Sand Stone		2.70	#6 - 224	475								
230	Grey Sticky Sand Stone		2.30		480								
235	Grey Sticky Sand Stone		2.20	#5 - 236	485								
240	Grey Sticky Sand Stone		1.90		490								
245	Grey Sticky Sand Stone		1.60	#4 - 248	495								

1416 10- 30-045-06179  
178-  
151- 30-045-27162

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

Operator MERIDIAN OIL INC. Location: Unit A Sec. 36 Twp 27 Rng 9

Name of Well/Wells or Pipeline Serviced HUERFANITO UNIT #10, #178, #151  
cps 2159w

Elevation 6138' Completion Date 6/27/89 Total Depth 300' Land Type\* N/A

Casing, Sizes, Types & Depths 30'

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

If Cement or Bentonite Plugs have been placed, show depths & amounts used.  
N/A

Depths & thickness of water zones with description of water when possible:  
Fresh, Clear, Salty, Sulphur, Etc. 25' & 90'

Depths gas encountered: N/A

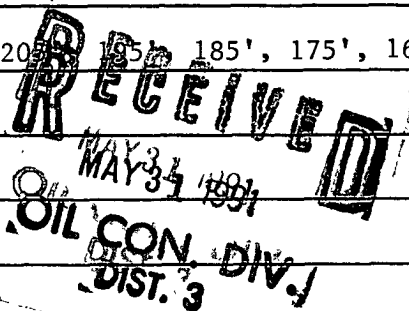
Type & amount of coke breeze used: N/A

Depths anodes placed: 245', 235', 225', 215', 205', 185', 185', 175', 165', 155'

Depths vent pipes placed: 300'

Vent pipe perforations: 200'

Remarks: gb #1



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

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

CATHODIC PROTECTION CONSTRUCTION REPORT  
DAILY LOG

COMP 7-12-87

Drilling Log (Attach Hereto) ☐

Completion Date 6-27-89

CPS #	Well Name, Line or Plant: #10-76	Work Order #	Static: 5.876	Ins. Union Check
2159	Thiefanta Unit 151	3513A		<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad
Location: A	Anode Size: 2" x 60"	Anode Type: Duriron	Size Bit: 6 3/4"	
NE-36-27-9				
Depth Drilled: 300'	Depth Logged: 303'	Drilling Rig Type	Total Lbs. Gels Used	Lost Circulation Mat'l Used
				No. Sacks Mud Used
Anode Depth				
# 1 245	# 2 235	# 3 225	# 4 215	# 5 205
# 6 195	# 7 185	# 8 175	# 9 165	# 10 155
Anode Output (Amps)				
# 1 5.5	# 2 5.9	# 3 5.7	# 4 6.4	# 5 6.1
# 6 5.8	# 7 6.8	# 8 6.8	# 9 6.8	# 10 6.5
Anode Depth				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance				
Volts 11.95	Amps 27.0	Ohms .44	No. 8 C.P. Cable Used	No. 2 C.P. Cable Used

Remarks: Drilled 300', logged 303'. Driller said  
damp at 25' + 90'. Set 30' of casing (1 hr.)  
Installed 300' of 1" PVC vent pipe, perforated  
bottom 200'

Rectifier Size: 60 V 30 A

Addn'l Depth

Depth Credit: 197' 3.75

Extra Cable: 360' .20

Ditch &amp; 1 Cable: 1,150' .70

25' Meter Pole: 1 ✓

20' Meter Pole:

10' Stub Pole:

Junction Box: 1 ✓

Surface Casing 30' 1 hr.

3,870.00 ✓

789.00 ✓

- 738.75 ✓

72.00 ✓

805.00 ✓

333.75 ✓

237.00 ✓

138.00 ✓

5506.00 ✓

275.30 ✓

5781.30

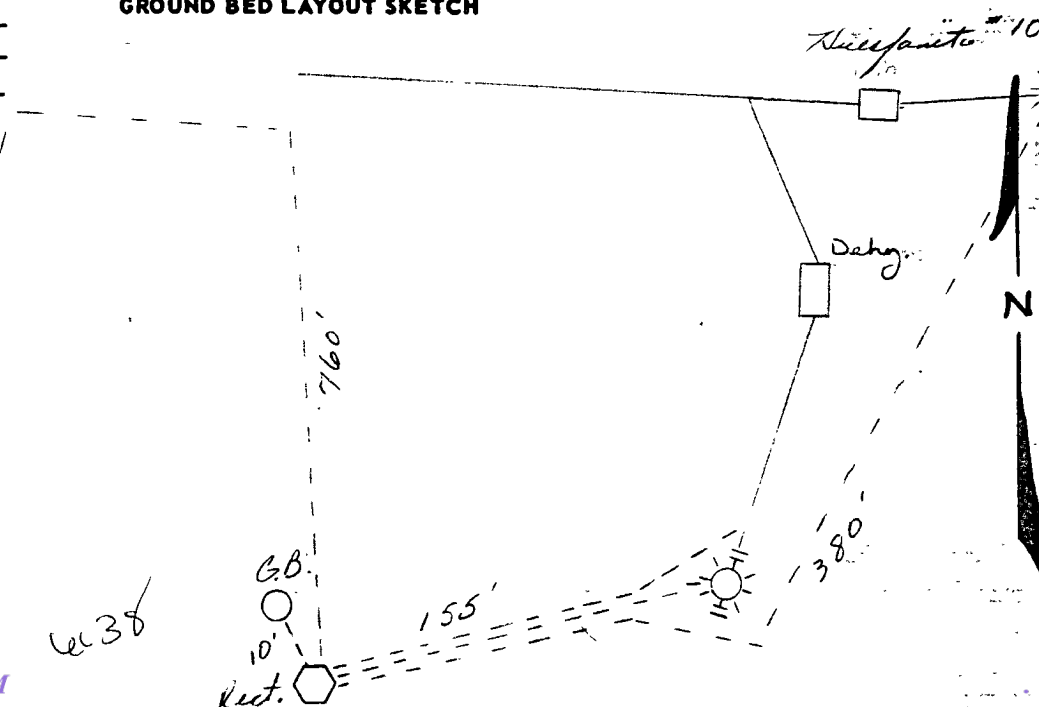
Thiefanta #78 Dk

OKQ

All Construction Completed

*John L. Ehrlich*  
(Signature)

## GROUND BED LAYOUT SKETCH



D. CIASS DRILLING CO.Drill No. 3

2159

## DRILLER'S WELL LOG

S. P. No. Huerfano #151 Date 6-27-89  
Client Meridian Oil Co. Prospect \_\_\_\_\_  
County SAN JUAN State New Mex.

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

FROM	TO	FORMATION — COLOR — HARDNESS
0	30	SAND ~
30	80	Shale
80	100	SANDSTONE ~
100	2100	Shale
2100	280	SANDSTONE
280	300	Shale

Mud \_\_\_\_\_ Bron \_\_\_\_\_ Lime \_\_\_\_\_

Rock Bit Number \_\_\_\_\_ Make \_\_\_\_\_

Remarks: Water  
DAMP @ 25' & 90'30' CASING 1 Hr.Driller Ronnie Brown

30-045-28971

3681

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICOOperator Meridian Oil Inc. Location: Unit I Sec. 36 Twp. 27 Rng. 09

Name of Well/Wells or Pipeline Serviced \_\_\_\_\_

HuetfANITO UNIT #78MElevation \_\_\_\_\_ Completion Date 9/20/93 Total Depth 489' Land Type ICasing Strings, Sizes, Types & Depths 9/15 Set 156' of 8" PVC CasingNO GAS, WATER, or Boulders were Encountered During Casing.If Casing Strings are cemented, show amounts & types used CementedWITH 33 SACKS.

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

NONE

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

Salty, Sulphur, Etc. HIT FRESH WATER AT 160'. A WATERSAMPLE WAS TAKEN.Depths gas encountered: NONEGround bed depth with type & amount of coke breeze used: 489' DepthUsed 117 SACKS OF Asbuty 218 R (5850#)Depths anodes placed: 475', 467', 428', 421', 414', 377', 337', 330', 323', 316', 309', 303', 242', 235', + 228'Depths vent pipes placed: SURFACE TO 489'Vent pipe perforations: BOTTOM 320'

Remarks: \_\_\_\_\_

RECEIVED

JAN 31 1994

OIL CON. DIV.  
DIST. 3

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

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



## APPENDIX C

### Executed C-138 Solid Waste Acceptance Form



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

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

Form C-138  
Revised 08/01/11

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

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

<b>1. Generator Name and Address:</b> Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	PayKey: AM14058 PM: ME Eddleman AFE: N67250
<b>2. Originating Site:</b> Blanco C-14	
<b>3. Location of Material (Street Address, City, State or ULSTR):</b> UL B Section 25 T27N R9W; 36.553293, -107.739246	
<b>4. Source and Description of Waste:</b> Source: Remediation activities associated with a natural gas pipeline leak. Description: Hydrocarbon/Condensate impacted soil associated natural gas pipeline release. Estimated Volume <u>50</u> yd <sup>3</sup> / bbls Known Volume (to be entered by the operator at the end of the haul) <u>684</u> yd <sup>3</sup> bbls	
<b>5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS</b>  I, Thomas Long <i>Thomas Long</i> , representative or authorized agent for Enterprise Products Operating do hereby <b>Generator Signature</b> 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)  <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non- exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load  <input type="checkbox"/> 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)  <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4)	
<b>GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS</b>  I, Thomas Long <i>Thomas Long</i> 8-28-2023, representative for Enterprise Products Operating authorizes <u>Envirotech, Inc.</u> to complete <b>Generator Signature</b> 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: Enterprise Contractors

#### OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **Envirotech Inc. Soil Remediation Facility \* Permit #: NM 01-0011**

Address of Facility: **Hilltop, NM**

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

#### Waste Acceptance Status:

☒ **APPROVED**

☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Craib

SIGNATURE: *Greg Craib*

Surface Waste Management Facility Authorized Agent

TITLE: Enviro Manager

TELEPHONE NO.:

505-632-0615

DATE: 9/1/23



## APPENDIX D

# Photographic Documentation



## SITE PHOTOGRAPHS

Closure Report  
Enterprise Field Services, LLC  
Blanco C-14 (08/17/23)  
Ensolum Project No. 05A1226277

**Photograph 1**

Photograph Description: View of the in-process excavation activities.

**Photograph 2**

Photograph Description: View of the in-process excavation activities.

**Photograph 3**

Photograph Description: View of the in-process excavation activities.





## SITE PHOTOGRAPHS

Closure Report  
Enterprise Field Services, LLC  
Blanco C-14 (08/17/23)  
Ensolum Project No. 05A1226277

**Photograph 4**

Photograph Description: View of the final excavation.

**Photograph 5**

Photograph Description: View of the final excavation.

**Photograph 6**

Photograph Description: View of the site after initial restoration.





## APPENDIX E

# Regulatory Correspondence

**From:** [Kyle Summers](#)  
**To:** [Landon Daniell](#)  
**Cc:** [Ranee Deechilly](#)  
**Subject:** FW: Blanco C-14 - UL B Section 25 T27N R9W; 36.553293, -107.739246; NMOCD Incident # nAPP2323530370  
**Date:** Wednesday, October 4, 2023 9:21:20 AM  
**Attachments:** [image003.png](#)  
[image004.png](#)  
[image005.png](#)

---



**Kyle Summers**

Principal

903-821-5603

**Ensolum, LLC**

in f 

---

**From:** nnepawq@frontiernet.net <nnepawq@frontiernet.net>  
**Sent:** Wednesday, October 4, 2023 8:40 AM  
**To:** 'Long, Thomas' <tjlong@eprod.com>  
**Cc:** 'Stone, Brian' <bmstone@eprod.com>; Kyle Summers <ksummers@ensolum.com>; 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>  
**Subject:** RE: Blanco C-14 - UL B Section 25 T27N R9W; 36.553293, -107.739246; NMOCD Incident # nAPP2323530370

[ \*\*EXTERNAL EMAIL\*\* ]

Hi Tom.

Go ahead and proceed with the sampling.

--Steve

Steve Austin  
Senior Hydrologist  
NNEPAWQ/NPDES Program  
505-368-1037

---

**From:** Long, Thomas <tjlong@eprod.com>  
**Sent:** Tuesday, October 3, 2023 1:36 PM  
**To:** [nnepawq@frontiernet.net](mailto:nnepawq@frontiernet.net)  
**Cc:** Stone, Brian <bmstone@eprod.com>; Kyle Summers <[ksummers@ensolum.com](mailto:ksummers@ensolum.com)>; 'Velez, Nelson, EMNRD' <[Nelson.Velez@state.nm.us](mailto:Nelson.Velez@state.nm.us)>  
**Subject:** FW: Blanco C-14 - UL B Section 25 T27N R9W; 36.553293, -107.739246; NMOCD Incident # nAPP2323530370

Steve,

This email is a notification and variance request. Enterprise is requesting a variance for required 48-hour notification per 19.15.29.12D (1a) NMAC. Enterprise would like to collect closure samples on Wednesday, October 4, 2023 at 10:00 a.m. at the Lateral C-14 release site. Please acknowledge this variance request. If you have any questions, please call or email.

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



---

**From:** Long, Thomas  
**Sent:** Wednesday, August 30, 2023 12:58 PM  
**To:** 'Steve Austin' <[nnepawq@frontiernet.net](mailto:nnepawq@frontiernet.net)>; Velez, Nelson, EMNRD <[Nelson.Velez@state.nm.us](mailto:Nelson.Velez@state.nm.us)>  
**Cc:** Stone, Brian <[bmstone@eprod.com](mailto:bmstone@eprod.com)>; Kyle Summers <[ksummers@ensolum.com](mailto:ksummers@ensolum.com)>  
**Subject:** FW: Blanco C-14 - UL B Section 25 T27N R9W; 36.553293, -107.739246; NMOCD Incident # nAPP2323530370

Steve/Nelson,

This email is a notification the Enterprise will be collecting soil samples for laboratory analysis at the Blanco C-14 excavation on Friday, September 1, 2023 at 9:00 a.m. Please call or email if you have 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](mailto:tjlong@eprod.com)



---

**From:** Long, Thomas



**Sent:** Thursday, August 17, 2023 10:43 AM  
**To:** 'Steve Austin' <[nnepawq@frontiernet.net](mailto:nnepawq@frontiernet.net)>; 'Velez, Nelson, EMNRD' <[Nelson.Velez@state.nm.us](mailto:Nelson.Velez@state.nm.us)>  
**Cc:** Stone, Brian <[bmstone@eprod.com](mailto:bmstone@eprod.com)>  
**Subject:** Blanco C-14 - UL B Section 25 T27N R9W; 36.553293, -107.739246

Steve/Nelson,

This email is a notification that Enterprise had a natural gas release on the Blanco C-14 pipeline today. The release is located in an ephemeral wash west of Blanco Wash. No liquids have been released to the ground surface. The pipeline is currently being isolated, depressurized, locked and tagged out. No fire nor injuries occurred. I will keep you informed as to when the repairs and remediation are scheduled. I will submit the NOR and subsequent C-141 to the NMOCD. 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](mailto:tjlong@eprod.com)



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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

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**TABLE 1**  
Blanco C-14 (08/17/23)  
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 <sup>1</sup> (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) <sup>1</sup> (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 Collected from Stockpiled Soils													
SP-1	9.01.23	C	Stockpile	<0.017	<0.035	<0.035	<0.070	ND	<3.5	<9.1	<46	ND	<60
SP-2	9.01.23	C	Stockpile	<0.015	<0.031	<0.031	<0.062	ND	<3.1	<9.8	<49	ND	<60
SP-3	10.04.23	C	Stockpile	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<9.1	<46	ND	<60
SP-4	10.04.23	C	Stockpile	<0.016	<0.031	<0.031	<0.063	ND	<3.1	<9.8	<49	ND	<60
SP-5	10.04.23	C	Stockpile	<0.016	<0.032	<0.032	<0.064	ND	<3.2	9.4	<46	9.4	<60
SP-6	10.04.23	C	Stockpile	<0.016	<0.033	<0.033	<0.065	ND	<3.3	<9.3	<47	ND	<60
SP-7	10.10.23	C	Stockpile	<0.025	<0.049	<0.049	<0.099	ND	<4.9	<9.3	<47	ND	<60
SP-8	10.10.23	C	Stockpile	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<8.5	<43	ND	<60
Excavation Composite Soil Samples													
S-1	9.01.23	C	7	<0.016	<0.032	<0.032	<0.065	ND	<3.2	<9.7	<49	ND	<60
S-2	9.01.23	C	0 to 7	<0.015	<0.031	<0.031	<0.062	ND	<3.1	<9.3	<46	ND	<60
S-3	9.01.23	C	0 to 7	<0.016	<0.032	<0.032	<0.063	ND	<3.2	<9.8	<49	ND	<60
S-4	9.01.23	C	0 to 7	<0.015	<0.031	<0.031	<0.062	ND	<3.1	<9.6	<48	ND	<60
S-5	10.09.23	C	0 to 5	<0.015	<0.030	<0.030	<0.061	ND	<3.0	<9.9	<50	ND	<60
S-6	10.09.23	C	5 to 10	<0.017	<0.033	<0.033	<0.066	ND	<3.3	<9.6	<48	ND	<59
S-7	10.09.23	C	10 to 14	<0.018	<0.036	<0.036	<0.073	ND	<3.6	12	<46	12	<60
S-8	10.09.23	C	0 to 10	<0.021	<0.041	<0.041	<0.083	ND	<4.1	<10	<50	ND	<60
S-9	10.09.23	C	0 to 14	<0.016	<0.032	<0.032	<0.064	ND	<3.2	<9.6	<48	ND	<60
S-10	10.09.23	C	0 to 8	<0.016	<0.031	<0.031	<0.062	ND	<3.1	<9.6	<48	ND	<60
S-11	10.09.23	C	0 to 10	<0.017	<0.035	<0.035	<0.069	ND	<3.5	<9.3	<46	ND	<61
S-12	10.09.23	C	0 to 14	<0.019	<0.039	<0.039	<0.077	ND	<3.9	<9.3	<47	ND	<60
S-13	10.09.23	C	0 to 8	<0.018	<0.037	<0.037	<0.073	ND	<3.7	10	<47	10	<61
S-14	10.09.23	C	0 to 12	<0.019	<0.037	<0.037	<0.074	ND	<3.7	<9.7	<49	ND	<60
S-15	10.09.23	C	0 to 4	<0.020	<0.041	<0.041	<0.081	ND	<4.1	<10	<50	ND	<60
S-16	10.09.23	C	4 to 8	<0.015	<0.031	<0.031	<0.061	ND	<3.1	<9.7	<48	ND	<60
S-17	10.09.23	C	8 to 12	<0.016	<0.032	<0.032	<0.063	ND	<3.2	<9.2	<46	ND	<60
S-18	10.09.23	C	0 to 8	<0.017	<0.033	<0.033	<0.066	ND	<3.3	<9.5	<47	ND	<60
S-19	10.09.23	C	0 to 12	<0.015	<0.031	<0.031	<0.062	ND	<3.1	<9.6	<48	ND	<60



**TABLE 1**  
Blanco C-14 (08/17/23)  
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 <sup>1</sup> (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) <sup>1</sup> (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
S-20	10.09.23	C	0 to 12	<0.014	<0.029	<0.029	<0.057	ND	<2.9	<9.8	<49	ND	<60
S-21	10.09.23	C	7 to 27	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<9.9	<49	ND	<60
S-22	10.09.23	C	25 to 27	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<9.6	<48	ND	<60
S-23	10.09.23	C	12 to 25	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.8	<49	ND	<60
S-24	10.09.23	C	5 to 8	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<9.4	<47	ND	<60
S-25	10.09.23	C	14 to 27	<0.023	<0.047	<0.047	<0.093	ND	<4.7	<9.4	<47	ND	<60
S-26	10.09.23	C	12 to 25	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<9.5	<47	ND	<61
S-27	10.09.23	C	7 to 27	<0.025	<0.050	<0.050	<0.099	ND	<5.0	<9.9	<50	ND	<60

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

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

NE = Not established

mg/kg = milligrams per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics



## APPENDIX G

### Laboratory Data Sheets & Chain of Custody Documentation

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

September 12, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Blanco C 14

OrderNo.: 2309078

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 9/2/2023 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](http://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 2309078

Date Reported: 9/12/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: SP-1

Project: Blanco C 14

Collection Date: 9/1/2023 9:30:00 AM

Lab ID: 2309078-001

Matrix: MEOH (SOIL)

Received Date: 9/2/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SNS</b>
Chloride	ND	60		mg/Kg	20	9/5/2023 1:16:42 PM	77295
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>PRD</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	9/5/2023 11:23:00 AM	77281
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/5/2023 11:23:00 AM	77281
Surr: DNOP	92.6	69-147		%Rec	1	9/5/2023 11:23:00 AM	77281
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	9/5/2023 10:43:00 AM	G99443
Surr: BFB	105	15-244		%Rec	1	9/5/2023 10:43:00 AM	G99443
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>KMN</b>
Benzene	ND	0.017		mg/Kg	1	9/5/2023 10:43:00 AM	R99443
Toluene	ND	0.035		mg/Kg	1	9/5/2023 10:43:00 AM	R99443
Ethylbenzene	ND	0.035		mg/Kg	1	9/5/2023 10:43:00 AM	R99443
Xylenes, Total	ND	0.070		mg/Kg	1	9/5/2023 10:43:00 AM	R99443
Surr: 4-Bromofluorobenzene	92.9	39.1-146		%Rec	1	9/5/2023 10:43:00 AM	R99443

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

Page 1 of 10



## Analytical Report

Lab Order 2309078

Date Reported: 9/12/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: SP-2

Project: Blanco C 14

Collection Date: 9/1/2023 9:35:00 AM

Lab ID: 2309078-002

Matrix: MEOH (SOIL)

Received Date: 9/2/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SNS</b>
Chloride	ND	60		mg/Kg	20	9/5/2023 1:29:06 PM	77295
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>PRD</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/5/2023 11:33:35 AM	77281
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/5/2023 11:33:35 AM	77281
Surr: DNOP	99.7	69-147		%Rec	1	9/5/2023 11:33:35 AM	77281
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	9/5/2023 11:05:00 AM	G99443
Surr: BFB	101	15-244		%Rec	1	9/5/2023 11:05:00 AM	G99443
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>KMN</b>
Benzene	ND	0.015		mg/Kg	1	9/5/2023 11:05:00 AM	R99443
Toluene	ND	0.031		mg/Kg	1	9/5/2023 11:05:00 AM	R99443
Ethylbenzene	ND	0.031		mg/Kg	1	9/5/2023 11:05:00 AM	R99443
Xylenes, Total	ND	0.062		mg/Kg	1	9/5/2023 11:05:00 AM	R99443
Surr: 4-Bromofluorobenzene	93.7	39.1-146		%Rec	1	9/5/2023 11:05:00 AM	R99443

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

Page 2 of 10

## Analytical Report

Lab Order 2309078

Date Reported: 9/12/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-1

Project: Blanco C 14

Collection Date: 9/1/2023 9:40:00 AM

Lab ID: 2309078-003

Matrix: MEOH (SOIL)

Received Date: 9/2/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SNS</b>
Chloride	ND	60		mg/Kg	20	9/5/2023 1:41:31 PM	77295
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>PRD</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/5/2023 11:44:12 AM	77281
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/5/2023 11:44:12 AM	77281
Surr: DNOP	96.4	69-147		%Rec	1	9/5/2023 11:44:12 AM	77281
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	9/5/2023 11:27:00 AM	G99443
Surr: BFB	99.3	15-244		%Rec	1	9/5/2023 11:27:00 AM	G99443
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>KMN</b>
Benzene	ND	0.016		mg/Kg	1	9/5/2023 11:27:00 AM	R99443
Toluene	ND	0.032		mg/Kg	1	9/5/2023 11:27:00 AM	R99443
Ethylbenzene	ND	0.032		mg/Kg	1	9/5/2023 11:27:00 AM	R99443
Xylenes, Total	ND	0.065		mg/Kg	1	9/5/2023 11:27:00 AM	R99443
Surr: 4-Bromofluorobenzene	89.5	39.1-146		%Rec	1	9/5/2023 11:27:00 AM	R99443

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

Page 3 of 10

## Analytical Report

Lab Order 2309078

Date Reported: 9/12/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-2

Project: Blanco C 14

Collection Date: 9/1/2023 9:45:00 AM

Lab ID: 2309078-004

Matrix: MEOH (SOIL)

Received Date: 9/2/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SNS</b>
Chloride	ND	60		mg/Kg	20	9/5/2023 1:53:55 PM	77295
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>PRD</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/5/2023 11:54:51 AM	77281
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/5/2023 11:54:51 AM	77281
Surr: DNOP	89.2	69-147		%Rec	1	9/5/2023 11:54:51 AM	77281
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	9/5/2023 11:49:00 AM	G99443
Surr: BFB	106	15-244		%Rec	1	9/5/2023 11:49:00 AM	G99443
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>KMN</b>
Benzene	ND	0.015		mg/Kg	1	9/5/2023 11:49:00 AM	R99443
Toluene	ND	0.031		mg/Kg	1	9/5/2023 11:49:00 AM	R99443
Ethylbenzene	ND	0.031		mg/Kg	1	9/5/2023 11:49:00 AM	R99443
Xylenes, Total	ND	0.062		mg/Kg	1	9/5/2023 11:49:00 AM	R99443
Surr: 4-Bromofluorobenzene	90.5	39.1-146		%Rec	1	9/5/2023 11:49:00 AM	R99443

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

Page 4 of 10

## Analytical Report

Lab Order 2309078

Date Reported: 9/12/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-3

Project: Blanco C 14

Collection Date: 9/1/2023 9:50:00 AM

Lab ID: 2309078-005

Matrix: MEOH (SOIL)

Received Date: 9/2/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SNS</b>
Chloride	ND	60		mg/Kg	20	9/5/2023 2:06:19 PM	77295
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>PRD</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/5/2023 12:05:32 PM	77281
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/5/2023 12:05:32 PM	77281
Surr: DNOP	87.3	69-147		%Rec	1	9/5/2023 12:05:32 PM	77281
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	9/5/2023 12:10:00 PM	G99443
Surr: BFB	97.4	15-244		%Rec	1	9/5/2023 12:10:00 PM	G99443
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>KMN</b>
Benzene	ND	0.016		mg/Kg	1	9/5/2023 12:10:00 PM	R99443
Toluene	ND	0.032		mg/Kg	1	9/5/2023 12:10:00 PM	R99443
Ethylbenzene	ND	0.032		mg/Kg	1	9/5/2023 12:10:00 PM	R99443
Xylenes, Total	ND	0.063		mg/Kg	1	9/5/2023 12:10:00 PM	R99443
Surr: 4-Bromofluorobenzene	88.3	39.1-146		%Rec	1	9/5/2023 12:10:00 PM	R99443

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

Page 5 of 10



## Analytical Report

Lab Order 2309078

Date Reported: 9/12/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-4

Project: Blanco C 14

Collection Date: 9/1/2023 10:00:00 AM

Lab ID: 2309078-006

Matrix: MEOH (SOIL)

Received Date: 9/2/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SNS</b>
Chloride	ND	60		mg/Kg	20	9/5/2023 2:18:43 PM	77295
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>PRD</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/5/2023 12:16:15 PM	77281
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/5/2023 12:16:15 PM	77281
Surr: DNOP	89.9	69-147		%Rec	1	9/5/2023 12:16:15 PM	77281
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	9/5/2023 12:32:00 PM	G99443
Surr: BFB	100	15-244		%Rec	1	9/5/2023 12:32:00 PM	G99443
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>KMN</b>
Benzene	ND	0.015		mg/Kg	1	9/5/2023 12:32:00 PM	R99443
Toluene	ND	0.031		mg/Kg	1	9/5/2023 12:32:00 PM	R99443
Ethylbenzene	ND	0.031		mg/Kg	1	9/5/2023 12:32:00 PM	R99443
Xylenes, Total	ND	0.062		mg/Kg	1	9/5/2023 12:32:00 PM	R99443
Surr: 4-Bromofluorobenzene	90.3	39.1-146		%Rec	1	9/5/2023 12:32:00 PM	R99443

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2309078  
12-Sep-23

Client: ENSOLUM  
Project: Blanco C 14

Sample ID: MB-77295	SampType: MBLK			TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 77295			RunNo: 99450						
Prep Date: 9/5/2023	Analysis Date: 9/5/2023			SeqNo: 3631539			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-77295	SampType: LCS			TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 77295			RunNo: 99450						
Prep Date: 9/5/2023	Analysis Date: 9/5/2023			SeqNo: 3631540			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#: 2309078

12-Sep-23

**Client:** ENSOLUM**Project:** Blanco C 14

Sample ID: <b>2309078-006AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>S-4</b>	Batch ID: <b>77281</b>	RunNo: <b>99448</b>								
Prep Date: <b>9/5/2023</b>	Analysis Date: <b>9/5/2023</b>	SeqNo: <b>3630274</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.5	47.35	0	107	54.2	135			
Surr: DNOP	4.3		4.735		89.9	69	147			

Sample ID: <b>2309078-006AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>S-4</b>	Batch ID: <b>77281</b>	RunNo: <b>99448</b>								
Prep Date: <b>9/5/2023</b>	Analysis Date: <b>9/5/2023</b>	SeqNo: <b>3630275</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.3	46.30	0	105	54.2	135	3.52	29.2	
Surr: DNOP	4.1		4.630		88.9	69	147	0	0	

Sample ID: <b>LCS-77281</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>77281</b>	RunNo: <b>99448</b>								
Prep Date: <b>9/5/2023</b>	Analysis Date: <b>9/5/2023</b>	SeqNo: <b>3630277</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	101	61.9	130			
Surr: DNOP	4.1		5.000		82.7	69	147			

Sample ID: <b>MB-77281</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>77281</b>	RunNo: <b>99448</b>								
Prep Date: <b>9/5/2023</b>	Analysis Date: <b>9/5/2023</b>	SeqNo: <b>3630279</b> Units: <b>mg/Kg</b>								
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	8.8		10.00		88.3	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#: 2309078

12-Sep-23

**Client:** ENSOLUM**Project:** Blanco C 14

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>G99443</b>		RunNo: <b>99443</b>							
Prep Date:	Analysis Date: <b>9/5/2023</b>		SeqNo: <b>3630078</b>		Units: <b>mg/Kg</b>					
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	2300		1000		226	15	244			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>G99443</b>		RunNo: <b>99443</b>							
Prep Date:	Analysis Date: <b>9/5/2023</b>		SeqNo: <b>3630079</b>		Units: <b>mg/Kg</b>					
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		103	15	244			

Sample ID: <b>2309078-001ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>SP-1</b>	Batch ID: <b>G99443</b>		RunNo: <b>99443</b>							
Prep Date:	Analysis Date: <b>9/5/2023</b>		SeqNo: <b>3630086</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.5	17.47	0	96.9	70	130			
Surr: BFB	1500		698.8		208	15	244			

Sample ID: <b>2309078-001amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>SP-1</b>	Batch ID: <b>G99443</b>		RunNo: <b>99443</b>							
Prep Date:	Analysis Date: <b>9/5/2023</b>		SeqNo: <b>3630927</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	3.5	17.47	0	84.6	70	130	13.5	20	
Surr: BFB	1400		698.8		203	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#: 2309078

12-Sep-23

**Client:** ENSOLUM**Project:** Blanco C 14

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>R99443</b>		RunNo: <b>99443</b>							
Prep Date:	Analysis Date: <b>9/5/2023</b>		SeqNo: <b>3630087</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.3	70	130			
Toluene	0.94	0.050	1.000	0	94.3	70	130			
Ethylbenzene	0.96	0.050	1.000	0	96.0	70	130			
Xylenes, Total	2.9	0.10	3.000	0	96.0	70	130			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.1	39.1	146			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>R99443</b>		RunNo: <b>99443</b>							
Prep Date:	Analysis Date: <b>9/5/2023</b>		SeqNo: <b>3630088</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.1	39.1	146			

Sample ID: <b>2309078-002ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>SP-2</b>	Batch ID: <b>R99443</b>		RunNo: <b>99443</b>							
Prep Date:	Analysis Date: <b>9/5/2023</b>		SeqNo: <b>3630968</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.55	0.015	0.6180	0	89.0	70	130			
Toluene	0.55	0.031	0.6180	0	89.8	70	130			
Ethylbenzene	0.57	0.031	0.6180	0	91.7	70	130			
Xylenes, Total	1.7	0.062	1.854	0	91.6	70	130			
Surr: 4-Bromofluorobenzene	0.55		0.6180		88.9	39.1	146			

Sample ID: <b>2309078-002amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>SP-2</b>	Batch ID: <b>R99443</b>		RunNo: <b>99443</b>							
Prep Date:	Analysis Date: <b>9/5/2023</b>		SeqNo: <b>3630969</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.55	0.015	0.6180	0	88.4	70	130	0.640	20	
Toluene	0.55	0.031	0.6180	0	89.7	70	130	0.120	20	
Ethylbenzene	0.56	0.031	0.6180	0	90.5	70	130	1.35	20	
Xylenes, Total	1.7	0.062	1.854	0	90.4	70	130	1.37	20	
Surr: 4-Bromofluorobenzene	0.54		0.6180		88.1	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: 2309078

RcptNo: 1

Received By: Tracy Casarrubias 9/2/2023 7:15:00 AM

Completed By: Tracy Casarrubias 9/2/2023 8:10:02 AM

Reviewed By: *TMC 9/5-123*

## 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: TMC 9/2/23*

## 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 9/2/23

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		

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande, Suite A

Phone #:

email or Fax#: ksimomers@cncdm.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC      ☐ Other

☐ EDD (Type) \_\_\_\_\_

Turn-Around Time: \_\_\_\_\_

☐ Standard ☒ Rush 100% Day

Project Name:

Project #:

SEE NOTES

Project Manager:

1

K. Summers

Sampler: L. Daniels

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF):  $2.4 - 0 = 2.4$  ( $^{\circ}\text{C}$ )

Container Type and #	Preservative Type	HEAL No. 7309078
-------------------------	----------------------	---------------------

1402jam	Cool	001
---------	------	-----

1	1	002

				003
				004

			005
--	--	--	-----

↓	1	006

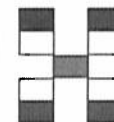



Received by:	Via:	Date Time

Requested by: W. H. A. Via: 9/1/23 Date: 1304 Time:

Received by: Via: *caum* Date Time  
*[Signature]* *6-7:15*

contracted to other accredited laboratories. This serves as notice of the



## HALL ENVIRONMENTAL ANALYSIS LABORATORY


[www.hallenvironmental.com](http://www.hallenvironmental.com)


4901 Hawkins NE - Albuquerque, NM 87109


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

## Analysis Request

[illegible]

Date:	Time:	Relinquished by:
9/1/23	1304	

Date: 9/10	Time: 1710	Relinquished by: 
---------------	---------------	---------------------------------------------------------------------------------------------------------

Received by:	Via:	Date	Time
		9/11/23	1304

Received by: Via: *caumr* Date 9/2/23 Time 7:15

Remarks:	PM Tom Long Pay key: RB21200 Non AFE#	(Sund Day
----------	---------------------------------------------	--------------



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

October 16, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Blanco C 14

OrderNo.: 2310231

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 10/5/2023 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](http://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 2310231

Date Reported: 10/16/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: SP-3

Project: Blanco C 14

Collection Date: 10/4/2023 2:50:00 PM

Lab ID: 2310231-001

Matrix: MEOH (SOIL)

Received Date: 10/5/2023 6:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: KCB
Chloride	ND	60		mg/Kg	20	10/5/2023 12:53:52 PM	77972
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	10/5/2023 11:49:15 AM	77971
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/5/2023 11:49:15 AM	77971
Surr: DNOP	92.8	69-147		%Rec	1	10/5/2023 11:49:15 AM	77971
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	10/5/2023 1:29:47 PM	GS10023
Surr: BFB	90.9	15-244		%Rec	1	10/5/2023 1:29:47 PM	GS10023
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: JJP
Benzene	ND	0.018		mg/Kg	1	10/5/2023 1:29:47 PM	BS10023
Toluene	ND	0.036		mg/Kg	1	10/5/2023 1:29:47 PM	BS10023
Ethylbenzene	ND	0.036		mg/Kg	1	10/5/2023 1:29:47 PM	BS10023
Xylenes, Total	ND	0.072		mg/Kg	1	10/5/2023 1:29:47 PM	BS10023
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	10/5/2023 1:29:47 PM	BS10023

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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 2310231

Date Reported: 10/16/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: SP-4

Project: Blanco C 14

Collection Date: 10/4/2023 2:55:00 PM

Lab ID: 2310231-002

Matrix: MEOH (SOIL)

Received Date: 10/5/2023 6:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: KCB
Chloride	ND	60		mg/Kg	20	10/5/2023 1:06:13 PM	77972
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/5/2023 11:59:57 AM	77971
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/5/2023 11:59:57 AM	77971
Surr: DNOP	90.5	69-147		%Rec	1	10/5/2023 11:59:57 AM	77971
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	10/5/2023 1:53:05 PM	GS10023
Surr: BFB	90.5	15-244		%Rec	1	10/5/2023 1:53:05 PM	GS10023
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: JJP
Benzene	ND	0.016		mg/Kg	1	10/5/2023 1:53:05 PM	BS10023
Toluene	ND	0.031		mg/Kg	1	10/5/2023 1:53:05 PM	BS10023
Ethylbenzene	ND	0.031		mg/Kg	1	10/5/2023 1:53:05 PM	BS10023
Xylenes, Total	ND	0.063		mg/Kg	1	10/5/2023 1:53:05 PM	BS10023
Surr: 4-Bromofluorobenzene	98.9	39.1-146		%Rec	1	10/5/2023 1:53:05 PM	BS10023

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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 2310231

Date Reported: 10/16/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: SP-5

Project: Blanco C 14

Collection Date: 10/4/2023 3:00:00 PM

Lab ID: 2310231-003

Matrix: MEOH (SOIL)

Received Date: 10/5/2023 6:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>KCB</b>
Chloride	ND	60		mg/Kg	20	10/5/2023 1:18:34 PM	77972
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>PRD</b>
Diesel Range Organics (DRO)	9.4	9.2		mg/Kg	1	10/5/2023 12:10:41 PM	77971
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/5/2023 12:10:41 PM	77971
Surr: DNOP	91.2	69-147		%Rec	1	10/5/2023 12:10:41 PM	77971
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	10/5/2023 2:34:00 PM	GS10024
Surr: BFB	98.9	15-244		%Rec	1	10/5/2023 2:34:00 PM	GS10024
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>KMN</b>
Benzene	ND	0.016		mg/Kg	1	10/5/2023 2:34:00 PM	BS10024
Toluene	ND	0.032		mg/Kg	1	10/5/2023 2:34:00 PM	BS10024
Ethylbenzene	ND	0.032		mg/Kg	1	10/5/2023 2:34:00 PM	BS10024
Xylenes, Total	ND	0.064		mg/Kg	1	10/5/2023 2:34:00 PM	BS10024
Surr: 4-Bromofluorobenzene	89.5	39.1-146		%Rec	1	10/5/2023 2:34:00 PM	BS10024

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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 2310231

Date Reported: 10/16/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: SP-6

Project: Blanco C 14

Collection Date: 10/4/2023 3:05:00 PM

Lab ID: 2310231-004

Matrix: MEOH (SOIL)

Received Date: 10/5/2023 6:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>KCB</b>
Chloride	ND	60		mg/Kg	20	10/5/2023 1:30:54 PM	77972
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>PRD</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/5/2023 12:21:23 PM	77971
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/5/2023 12:21:23 PM	77971
Surr: DNOP	93.3	69-147		%Rec	1	10/5/2023 12:21:23 PM	77971
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	10/5/2023 3:17:00 PM	GS10024
Surr: BFB	104	15-244		%Rec	1	10/5/2023 3:17:00 PM	GS10024
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>KMN</b>
Benzene	ND	0.016		mg/Kg	1	10/5/2023 3:17:00 PM	BS10024
Toluene	ND	0.033		mg/Kg	1	10/5/2023 3:17:00 PM	BS10024
Ethylbenzene	ND	0.033		mg/Kg	1	10/5/2023 3:17:00 PM	BS10024
Xylenes, Total	ND	0.065		mg/Kg	1	10/5/2023 3:17:00 PM	BS10024
Surr: 4-Bromofluorobenzene	92.0	39.1-146		%Rec	1	10/5/2023 3:17:00 PM	BS10024

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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#: 2310231  
16-Oct-23

Client: ENSOLUM  
Project: Blanco C 14

Sample ID: MB-77972	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 77972	RunNo: 100266								
Prep Date: 10/5/2023	Analysis Date: 10/5/2023	SeqNo: 3671505	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-77972	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 77972	RunNo: 100266								
Prep Date: 10/5/2023	Analysis Date: 10/5/2023	SeqNo: 3671506	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.3	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#: 2310231

16-Oct-23

Client: ENSOLUM

Project: Blanco C 14

Sample ID: <b>LCS-77971</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>77971</b>		RunNo: <b>100239</b>							
Prep Date: <b>10/5/2023</b>	Analysis Date: <b>10/5/2023</b>		SeqNo: <b>3670281</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.4	61.9	130			
Surr: DNOP	4.2		5.000		84.4	69	147			

Sample ID: <b>MB-77971</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>77971</b>		RunNo: <b>100239</b>							
Prep Date: <b>10/5/2023</b>	Analysis Date: <b>10/5/2023</b>		SeqNo: <b>3670282</b>		Units: <b>mg/Kg</b>					
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	9.0		10.00		90.1	69	147			

### 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#: 2310231

16-Oct-23

**Client:** ENSOLUM**Project:** Blanco C 14

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>GS100234</b>			RunNo: <b>100234</b>						
Prep Date:	Analysis Date: <b>10/5/2023</b>			SeqNo: <b>3669759</b>			Units: <b>mg/Kg</b>			
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		196	15	244			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>GS100234</b>			RunNo: <b>100234</b>						
Prep Date:	Analysis Date: <b>10/5/2023</b>			SeqNo: <b>3669760</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		90.8	15	244			

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>GS100246</b>			RunNo: <b>100246</b>						
Prep Date:	Analysis Date: <b>10/5/2023</b>			SeqNo: <b>3670164</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	70	130			
Surr: BFB	2300		1000		228	15	244			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>GS100246</b>			RunNo: <b>100246</b>						
Prep Date:	Analysis Date: <b>10/5/2023</b>			SeqNo: <b>3670165</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	15	244			

Sample ID: <b>2310231-001ams</b>	SampType: <b>MS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>SP-3</b>	Batch ID: <b>GS100234</b>			RunNo: <b>100234</b>						
Prep Date:	Analysis Date: <b>10/5/2023</b>			SeqNo: <b>3671016</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.6	17.92	0	95.9	70	130			
Surr: BFB	1400		716.8		193	15	244			

Sample ID: <b>2310231-001amsd</b>	SampType: <b>MSD</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>SP-3</b>	Batch ID: <b>GS100234</b>			RunNo: <b>100234</b>						
Prep Date:	Analysis Date: <b>10/5/2023</b>			SeqNo: <b>3671017</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**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#: 2310231  
16-Oct-23

Client: ENSOLUM  
Project: Blanco C 14

Sample ID: 2310231-001amsd		SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: SP-3		Batch ID: GS100234			RunNo: 100234					
Prep Date:		Analysis Date: 10/5/2023			SeqNo: 3671017		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.6	17.92	0	96.0	70	130	0.0417	20	
Surr: BFB	1400		716.8		201	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#: 2310231

16-Oct-23

**Client:** ENSOLUM**Project:** Blanco C 14

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>BS100234</b>			RunNo: <b>100234</b>						
Prep Date:	Analysis Date: <b>10/5/2023</b>			SeqNo: <b>3669762</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	70	130			
Toluene	1.0	0.050	1.000	0	104	70	130			
Ethylbenzene	1.0	0.050	1.000	0	105	70	130			
Xylenes, Total	3.2	0.10	3.000	0	105	70	130			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	39.1	146			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>BS100234</b>			RunNo: <b>100234</b>						
Prep Date:	Analysis Date: <b>10/5/2023</b>			SeqNo: <b>3669763</b>		Units: <b>mg/Kg</b>				
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		98.3	39.1	146			

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>BS100246</b>			RunNo: <b>100246</b>						
Prep Date:	Analysis Date: <b>10/5/2023</b>			SeqNo: <b>3670143</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.7	70	130			
Toluene	0.86	0.050	1.000	0	86.0	70	130			
Ethylbenzene	0.88	0.050	1.000	0	88.1	70	130			
Xylenes, Total	2.7	0.10	3.000	0	88.6	70	130			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	39.1	146			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>BS100246</b>			RunNo: <b>100246</b>						
Prep Date:	Analysis Date: <b>10/5/2023</b>			SeqNo: <b>3670144</b>		Units: <b>mg/Kg</b>				
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	0.95		1.000		95.2	39.1	146			

**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#: 2310231

16-Oct-23

**Client:** ENSOLUM**Project:** Blanco C 14

Sample ID: <b>2310231-002ams</b>	SampType: <b>MS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>SP-4</b>	Batch ID: <b>BS100234</b>			RunNo: <b>100234</b>						
Prep Date:	Analysis Date: <b>10/5/2023</b>			SeqNo: <b>3671049</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.62	0.016	0.6293	0	99.1	70	130			
Toluene	0.64	0.031	0.6293	0	101	70	130			
Ethylbenzene	0.64	0.031	0.6293	0	102	70	130			
Xylenes, Total	1.9	0.063	1.888	0	102	70	130			
Surr: 4-Bromofluorobenzene	0.65		0.6293		103	39.1	146			

Sample ID: <b>2310231-002amsd</b>	SampType: <b>MSD</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>SP-4</b>	Batch ID: <b>BS100234</b>			RunNo: <b>100234</b>						
Prep Date:	Analysis Date: <b>10/5/2023</b>			SeqNo: <b>3671050</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.61	0.016	0.6293	0	97.4	70	130	1.72	20	
Toluene	0.62	0.031	0.6293	0	98.3	70	130	2.94	20	
Ethylbenzene	0.63	0.031	0.6293	0	101	70	130	0.880	20	
Xylenes, Total	1.9	0.063	1.888	0	101	70	130	0.243	20	
Surr: 4-Bromofluorobenzene	0.64		0.6293		102	39.1	146	0	0	

**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.		



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: 2310231

RcptNo: 1

Received By: Tracy Casarrubias 10/5/2023 6:35:00 AM

Completed By: Tracy Casarrubias 10/5/2023 7:14:18 AM

Reviewed By: SCM 10/5/23

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: gmc 10/5/23

### 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 10/5/23

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	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](http://www.hallenvironmental.com)

October 18, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Blanco C 14

OrderNo.: 2310508

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 16 sample(s) on 10/11/2023 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](http://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 2310508

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-5

Project: Blanco C 14

Collection Date: 10/9/2023 12:00:00 PM

Lab ID: 2310508-001

Matrix: MEOH (SOIL)

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>KCB</b>
Chloride	ND	60		mg/Kg	20	10/11/2023 12:18:36 PM	78081
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/11/2023 10:22:57 AM	78076
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/11/2023 10:22:57 AM	78076
Surr: DNOP	95.8	69-147		%Rec	1	10/11/2023 10:22:57 AM	78076
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	10/11/2023 10:50:00 AM	GS10038
Surr: BFB	98.7	15-244		%Rec	1	10/11/2023 10:50:00 AM	GS10038
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>KMN</b>
Benzene	ND	0.015		mg/Kg	1	10/11/2023 10:50:00 AM	BS10038
Toluene	ND	0.030		mg/Kg	1	10/11/2023 10:50:00 AM	BS10038
Ethylbenzene	ND	0.030		mg/Kg	1	10/11/2023 10:50:00 AM	BS10038
Xylenes, Total	ND	0.061		mg/Kg	1	10/11/2023 10:50:00 AM	BS10038
Surr: 4-Bromofluorobenzene	86.1	39.1-146		%Rec	1	10/11/2023 10:50:00 AM	BS10038

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310508

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-6

Project: Blanco C 14

Collection Date: 10/9/2023 12:10:00 PM

Lab ID: 2310508-002

Matrix: MEOH (SOIL)

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>KCB</b>
Chloride	ND	59		mg/Kg	20	10/11/2023 12:31:00 PM	78081
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/11/2023 10:33:32 AM	78076
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/11/2023 10:33:32 AM	78076
Surr: DNOP	96.8	69-147		%Rec	1	10/11/2023 10:33:32 AM	78076
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	10/11/2023 11:12:00 AM	GS10038
Surr: BFB	96.4	15-244		%Rec	1	10/11/2023 11:12:00 AM	GS10038
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>KMN</b>
Benzene	ND	0.017		mg/Kg	1	10/11/2023 11:12:00 AM	BS10038
Toluene	ND	0.033		mg/Kg	1	10/11/2023 11:12:00 AM	BS10038
Ethylbenzene	ND	0.033		mg/Kg	1	10/11/2023 11:12:00 AM	BS10038
Xylenes, Total	ND	0.066		mg/Kg	1	10/11/2023 11:12:00 AM	BS10038
Surr: 4-Bromofluorobenzene	86.6	39.1-146		%Rec	1	10/11/2023 11:12:00 AM	BS10038

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310508

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-7

Project: Blanco C 14

Collection Date: 10/9/2023 12:20:00 PM

Lab ID: 2310508-003

Matrix: MEOH (SOIL)

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>KCB</b>
Chloride	ND	60		mg/Kg	20	10/11/2023 12:43:25 PM	78081
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	12	9.1		mg/Kg	1	10/11/2023 10:44:10 AM	78076
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/11/2023 10:44:10 AM	78076
Surr: DNOP	101	69-147		%Rec	1	10/11/2023 10:44:10 AM	78076
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	10/11/2023 11:33:00 AM	GS10038
Surr: BFB	104	15-244		%Rec	1	10/11/2023 11:33:00 AM	GS10038
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>KMN</b>
Benzene	ND	0.018		mg/Kg	1	10/11/2023 11:33:00 AM	BS10038
Toluene	ND	0.036		mg/Kg	1	10/11/2023 11:33:00 AM	BS10038
Ethylbenzene	ND	0.036		mg/Kg	1	10/11/2023 11:33:00 AM	BS10038
Xylenes, Total	ND	0.073		mg/Kg	1	10/11/2023 11:33:00 AM	BS10038
Surr: 4-Bromofluorobenzene	85.3	39.1-146		%Rec	1	10/11/2023 11:33:00 AM	BS10038

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310508

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-8

Project: Blanco C 14

Collection Date: 10/9/2023 12:30:00 PM

Lab ID: 2310508-004

Matrix: MEOH (SOIL)

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>KCB</b>
Chloride	ND	60		mg/Kg	20	10/11/2023 12:55:50 PM	78081
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/11/2023 10:54:49 AM	78076
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/11/2023 10:54:49 AM	78076
Surr: DNOP	97.8	69-147		%Rec	1	10/11/2023 10:54:49 AM	78076
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	10/11/2023 11:55:00 AM	GS10038
Surr: BFB	95.0	15-244		%Rec	1	10/11/2023 11:55:00 AM	GS10038
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>KMN</b>
Benzene	ND	0.021		mg/Kg	1	10/11/2023 11:55:00 AM	BS10038
Toluene	ND	0.041		mg/Kg	1	10/11/2023 11:55:00 AM	BS10038
Ethylbenzene	ND	0.041		mg/Kg	1	10/11/2023 11:55:00 AM	BS10038
Xylenes, Total	ND	0.083		mg/Kg	1	10/11/2023 11:55:00 AM	BS10038
Surr: 4-Bromofluorobenzene	84.7	39.1-146		%Rec	1	10/11/2023 11:55:00 AM	BS10038

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310508

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-9

Project: Blanco C 14

Collection Date: 10/9/2023 12:40:00 PM

Lab ID: 2310508-005

Matrix: MEOH (SOIL)

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>KCB</b>
Chloride	ND	60		mg/Kg	20	10/11/2023 1:08:14 PM	78081
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/11/2023 11:05:28 AM	78076
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/11/2023 11:05:28 AM	78076
Surr: DNOP	99.8	69-147		%Rec	1	10/11/2023 11:05:28 AM	78076
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	10/11/2023 12:17:00 PM	GS10038
Surr: BFB	96.0	15-244		%Rec	1	10/11/2023 12:17:00 PM	GS10038
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>KMN</b>
Benzene	ND	0.016		mg/Kg	1	10/11/2023 12:17:00 PM	BS10038
Toluene	ND	0.032		mg/Kg	1	10/11/2023 12:17:00 PM	BS10038
Ethylbenzene	ND	0.032		mg/Kg	1	10/11/2023 12:17:00 PM	BS10038
Xylenes, Total	ND	0.064		mg/Kg	1	10/11/2023 12:17:00 PM	BS10038
Surr: 4-Bromofluorobenzene	83.9	39.1-146		%Rec	1	10/11/2023 12:17:00 PM	BS10038

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310508

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-10

Project: Blanco C 14

Collection Date: 10/9/2023 12:50:00 PM

Lab ID: 2310508-006

Matrix: MEOH (SOIL)

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>KCB</b>
Chloride	ND	60		mg/Kg	20	10/11/2023 1:20:39 PM	78081
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/11/2023 11:16:10 AM	78076
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/11/2023 11:16:10 AM	78076
Surr: DNOP	98.0	69-147		%Rec	1	10/11/2023 11:16:10 AM	78076
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>KMN</b>
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	10/11/2023 12:39:00 PM	GS10038
Surr: BFB	101	15-244		%Rec	1	10/11/2023 12:39:00 PM	GS10038
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>KMN</b>
Benzene	ND	0.016		mg/Kg	1	10/11/2023 12:39:00 PM	BS10038
Toluene	ND	0.031		mg/Kg	1	10/11/2023 12:39:00 PM	BS10038
Ethylbenzene	ND	0.031		mg/Kg	1	10/11/2023 12:39:00 PM	BS10038
Xylenes, Total	ND	0.062		mg/Kg	1	10/11/2023 12:39:00 PM	BS10038
Surr: 4-Bromofluorobenzene	86.6	39.1-146		%Rec	1	10/11/2023 12:39:00 PM	BS10038

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310508

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-11

Project: Blanco C 14

Collection Date: 10/9/2023 1:00:00 PM

Lab ID: 2310508-007

Matrix: MEOH (SOIL)

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>KCB</b>
Chloride	ND	61		mg/Kg	20	10/11/2023 1:57:53 PM	78081
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/11/2023 11:26:51 AM	78076
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/11/2023 11:26:51 AM	78076
Surr: DNOP	96.7	69-147		%Rec	1	10/11/2023 11:26:51 AM	78076
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	10/11/2023 11:21:26 AM	GS10037
Surr: BFB	93.3	15-244		%Rec	1	10/11/2023 11:21:26 AM	GS10037
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>JJP</b>
Benzene	ND	0.017		mg/Kg	1	10/11/2023 11:21:26 AM	BS10037
Toluene	ND	0.035		mg/Kg	1	10/11/2023 11:21:26 AM	BS10037
Ethylbenzene	ND	0.035		mg/Kg	1	10/11/2023 11:21:26 AM	BS10037
Xylenes, Total	ND	0.069		mg/Kg	1	10/11/2023 11:21:26 AM	BS10037
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	10/11/2023 11:21:26 AM	BS10037

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310508

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-12

Project: Blanco C 14

Collection Date: 10/9/2023 1:10:00 PM

Lab ID: 2310508-008

Matrix: MEOH (SOIL)

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>KCB</b>
Chloride	ND	60		mg/Kg	20	10/11/2023 2:10:18 PM	78081
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/11/2023 11:48:16 AM	78076
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/11/2023 11:48:16 AM	78076
Surr: DNOP	99.3	69-147		%Rec	1	10/11/2023 11:48:16 AM	78076
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	10/11/2023 11:45:11 AM	GS10037
Surr: BFB	93.9	15-244		%Rec	1	10/11/2023 11:45:11 AM	GS10037
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>JJP</b>
Benzene	ND	0.019		mg/Kg	1	10/11/2023 11:45:11 AM	BS10037
Toluene	ND	0.039		mg/Kg	1	10/11/2023 11:45:11 AM	BS10037
Ethylbenzene	ND	0.039		mg/Kg	1	10/11/2023 11:45:11 AM	BS10037
Xylenes, Total	ND	0.077		mg/Kg	1	10/11/2023 11:45:11 AM	BS10037
Surr: 4-Bromofluorobenzene	99.4	39.1-146		%Rec	1	10/11/2023 11:45:11 AM	BS10037

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310508

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-13

Project: Blanco C 14

Collection Date: 10/9/2023 1:20:00 PM

Lab ID: 2310508-009

Matrix: MEOH (SOIL)

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	61		mg/Kg	20	10/11/2023 1:19:35 PM	78085
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	10	9.4		mg/Kg	1	10/11/2023 11:58:59 AM	78076
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/11/2023 11:58:59 AM	78076
Surr: DNOP	98.7	69-147		%Rec	1	10/11/2023 11:58:59 AM	78076
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	10/11/2023 12:08:38 PM	GS10037
Surr: BFB	91.9	15-244		%Rec	1	10/11/2023 12:08:38 PM	GS10037
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: JJP
Benzene	ND	0.018		mg/Kg	1	10/11/2023 12:08:38 PM	BS10037
Toluene	ND	0.037		mg/Kg	1	10/11/2023 12:08:38 PM	BS10037
Ethylbenzene	ND	0.037		mg/Kg	1	10/11/2023 12:08:38 PM	BS10037
Xylenes, Total	ND	0.073		mg/Kg	1	10/11/2023 12:08:38 PM	BS10037
Surr: 4-Bromofluorobenzene	98.4	39.1-146		%Rec	1	10/11/2023 12:08:38 PM	BS10037

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310508

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-14

Project: Blanco C 14

Collection Date: 10/9/2023 1:30:00 PM

Lab ID: 2310508-010

Matrix: MEOH (SOIL)

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/11/2023 1:31:56 PM	78085
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/11/2023 12:09:43 PM	78076
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/11/2023 12:09:43 PM	78076
Surr: DNOP	103	69-147		%Rec	1	10/11/2023 12:09:43 PM	78076
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	10/11/2023 12:32:03 PM	GS10037
Surr: BFB	95.8	15-244		%Rec	1	10/11/2023 12:32:03 PM	GS10037
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: JJP
Benzene	ND	0.019		mg/Kg	1	10/11/2023 12:32:03 PM	BS10037
Toluene	ND	0.037		mg/Kg	1	10/11/2023 12:32:03 PM	BS10037
Ethylbenzene	ND	0.037		mg/Kg	1	10/11/2023 12:32:03 PM	BS10037
Xylenes, Total	ND	0.074		mg/Kg	1	10/11/2023 12:32:03 PM	BS10037
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	10/11/2023 12:32:03 PM	BS10037

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310508

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-15

Project: Blanco C 14

Collection Date: 10/9/2023 1:40:00 PM

Lab ID: 2310508-011

Matrix: MEOH (SOIL)

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/11/2023 1:44:17 PM	78085
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/11/2023 12:20:29 PM	78076
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/11/2023 12:20:29 PM	78076
Surr: DNOP	108	69-147		%Rec	1	10/11/2023 12:20:29 PM	78076
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	10/11/2023 12:55:34 PM	GS10037
Surr: BFB	94.5	15-244		%Rec	1	10/11/2023 12:55:34 PM	GS10037
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: JJP
Benzene	ND	0.020		mg/Kg	1	10/11/2023 12:55:34 PM	BS10037
Toluene	ND	0.041		mg/Kg	1	10/11/2023 12:55:34 PM	BS10037
Ethylbenzene	ND	0.041		mg/Kg	1	10/11/2023 12:55:34 PM	BS10037
Xylenes, Total	ND	0.081		mg/Kg	1	10/11/2023 12:55:34 PM	BS10037
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	10/11/2023 12:55:34 PM	BS10037

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310508

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-16

Project: Blanco C 14

Collection Date: 10/9/2023 1:50:00 PM

Lab ID: 2310508-012

Matrix: MEOH (SOIL)

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/11/2023 1:56:38 PM	78085
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/11/2023 1:21:37 PM	78076
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/11/2023 1:21:37 PM	78076
Surr: DNOP	98.8	69-147		%Rec	1	10/11/2023 1:21:37 PM	78076
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	10/11/2023 1:18:59 PM	GS10037
Surr: BFB	94.6	15-244		%Rec	1	10/11/2023 1:18:59 PM	GS10037
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: JJP
Benzene	ND	0.015		mg/Kg	1	10/11/2023 1:18:59 PM	BS10037
Toluene	ND	0.031		mg/Kg	1	10/11/2023 1:18:59 PM	BS10037
Ethylbenzene	ND	0.031		mg/Kg	1	10/11/2023 1:18:59 PM	BS10037
Xylenes, Total	ND	0.061		mg/Kg	1	10/11/2023 1:18:59 PM	BS10037
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	10/11/2023 1:18:59 PM	BS10037

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310508

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-17

Project: Blanco C 14

Collection Date: 10/9/2023 2:00:00 PM

Lab ID: 2310508-013

Matrix: MEOH (SOIL)

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/11/2023 2:09:00 PM	78085
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	10/11/2023 1:32:26 PM	78076
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/11/2023 1:32:26 PM	78076
Surr: DNOP	99.7	69-147		%Rec	1	10/11/2023 1:32:26 PM	78076
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	10/11/2023 1:42:28 PM	GS10037
Surr: BFB	94.6	15-244		%Rec	1	10/11/2023 1:42:28 PM	GS10037
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: JJP
Benzene	ND	0.016		mg/Kg	1	10/11/2023 1:42:28 PM	BS10037
Toluene	ND	0.032		mg/Kg	1	10/11/2023 1:42:28 PM	BS10037
Ethylbenzene	ND	0.032		mg/Kg	1	10/11/2023 1:42:28 PM	BS10037
Xylenes, Total	ND	0.063		mg/Kg	1	10/11/2023 1:42:28 PM	BS10037
Surr: 4-Bromofluorobenzene	100	39.1-146		%Rec	1	10/11/2023 1:42:28 PM	BS10037

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310508

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-18

Project: Blanco C 14

Collection Date: 10/9/2023 2:10:00 PM

Lab ID: 2310508-014

Matrix: MEOH (SOIL)

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/11/2023 2:21:20 PM	78085
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/11/2023 1:43:16 PM	78076
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/11/2023 1:43:16 PM	78076
Surr: DNOP	99.7	69-147		%Rec	1	10/11/2023 1:43:16 PM	78076
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	10/11/2023 2:05:50 PM	GS10037
Surr: BFB	95.2	15-244		%Rec	1	10/11/2023 2:05:50 PM	GS10037
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: JJP
Benzene	ND	0.017		mg/Kg	1	10/11/2023 2:05:50 PM	BS10037
Toluene	ND	0.033		mg/Kg	1	10/11/2023 2:05:50 PM	BS10037
Ethylbenzene	ND	0.033		mg/Kg	1	10/11/2023 2:05:50 PM	BS10037
Xylenes, Total	ND	0.066		mg/Kg	1	10/11/2023 2:05:50 PM	BS10037
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	10/11/2023 2:05:50 PM	BS10037

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310508

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-19

Project: Blanco C 14

Collection Date: 10/9/2023 2:20:00 PM

Lab ID: 2310508-015

Matrix: MEOH (SOIL)

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/11/2023 2:33:41 PM	78085
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/11/2023 1:54:06 PM	78076
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/11/2023 1:54:06 PM	78076
Surr: DNOP	108	69-147		%Rec	1	10/11/2023 1:54:06 PM	78076
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	10/11/2023 2:29:28 PM	GS10037
Surr: BFB	94.7	15-244		%Rec	1	10/11/2023 2:29:28 PM	GS10037
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: JJP
Benzene	ND	0.015		mg/Kg	1	10/11/2023 2:29:28 PM	BS10037
Toluene	ND	0.031		mg/Kg	1	10/11/2023 2:29:28 PM	BS10037
Ethylbenzene	ND	0.031		mg/Kg	1	10/11/2023 2:29:28 PM	BS10037
Xylenes, Total	ND	0.062		mg/Kg	1	10/11/2023 2:29:28 PM	BS10037
Surr: 4-Bromofluorobenzene	99.6	39.1-146		%Rec	1	10/11/2023 2:29:28 PM	BS10037

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310508

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-20

Project: Blanco C 14

Collection Date: 10/9/2023 2:30:00 PM

Lab ID: 2310508-016

Matrix: MEOH (SOIL)

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/11/2023 2:46:02 PM	78085
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/11/2023 2:04:56 PM	78076
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/11/2023 2:04:56 PM	78076
Surr: DNOP	111	69-147		%Rec	1	10/11/2023 2:04:56 PM	78076
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: JJP
Gasoline Range Organics (GRO)	ND	2.9		mg/Kg	1	10/11/2023 2:52:54 PM	GS10037
Surr: BFB	96.4	15-244		%Rec	1	10/11/2023 2:52:54 PM	GS10037
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: JJP
Benzene	ND	0.014		mg/Kg	1	10/11/2023 2:52:54 PM	BS10037
Toluene	ND	0.029		mg/Kg	1	10/11/2023 2:52:54 PM	BS10037
Ethylbenzene	ND	0.029		mg/Kg	1	10/11/2023 2:52:54 PM	BS10037
Xylenes, Total	ND	0.057		mg/Kg	1	10/11/2023 2:52:54 PM	BS10037
Surr: 4-Bromofluorobenzene	103	39.1-146		%Rec	1	10/11/2023 2:52:54 PM	BS10037

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2310508

18-Oct-23

Client: ENSOLUM

Project: Blanco C 14

Sample ID: <b>MB-78081</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>78081</b>	RunNo: <b>100387</b>								
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/11/2023</b>	SeqNo: <b>3677814</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-78081</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>78081</b>	RunNo: <b>100387</b>								
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/11/2023</b>	SeqNo: <b>3677815</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.4	90	110			

Sample ID: <b>MB-78085</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>78085</b>	RunNo: <b>100387</b>								
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/11/2023</b>	SeqNo: <b>3677816</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-78085</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>78085</b>	RunNo: <b>100387</b>								
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/11/2023</b>	SeqNo: <b>3677817</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.6	90	110			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank  
E Above Quantitation Range/Estimated Value  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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

WO#: 2310508

18-Oct-23

**Client:** ENSOLUM**Project:** Blanco C 14

Sample ID: <b>LCS-78076</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>78076</b>	RunNo: <b>100384</b>								
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/11/2023</b>	SeqNo: <b>3676916</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.3	61.9	130			
Surr: DNOP	4.5		5.000		90.1	69	147			

Sample ID: <b>MB-78076</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>78076</b>	RunNo: <b>100384</b>								
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/11/2023</b>	SeqNo: <b>3676917</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.4	69	147			

Sample ID: <b>2310508-016AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>S-20</b>	Batch ID: <b>78076</b>	RunNo: <b>100384</b>								
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/11/2023</b>	SeqNo: <b>3676918</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.9	49.50	0	94.1	54.2	135			
Surr: DNOP	4.7		4.950		94.1	69	147			

Sample ID: <b>2310508-016AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>S-20</b>	Batch ID: <b>78076</b>	RunNo: <b>100384</b>								
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/11/2023</b>	SeqNo: <b>3676919</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.4	46.95	0	93.5	54.2	135	5.97	29.2	
Surr: DNOP	4.6		4.695		98.1	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#: 2310508

18-Oct-23

**Client:** ENSOLUM**Project:** Blanco C 14

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>GS100376</b>			RunNo: <b>100376</b>						
Prep Date:	Analysis Date: <b>10/11/2023</b>			SeqNo: <b>3676558</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	70	130			
Surr: BFB	2000		1000		204	15	244			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>GS100376</b>			RunNo: <b>100376</b>						
Prep Date:	Analysis Date: <b>10/11/2023</b>			SeqNo: <b>3676559</b>			Units: <b>mg/Kg</b>			
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		96.6	15	244			

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>BS100380</b>			RunNo: <b>100380</b>						
Prep Date:	Analysis Date: <b>10/11/2023</b>			SeqNo: <b>3676653</b>			Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2200		1000		218	15	244			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>GS100380</b>			RunNo: <b>100380</b>						
Prep Date:	Analysis Date: <b>10/11/2023</b>			SeqNo: <b>3676654</b>			Units: <b>mg/Kg</b>			
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		103	15	244			

Sample ID: <b>2310508-001ams</b>	SampType: <b>MS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>S-5</b>	Batch ID: <b>GS100380</b>			RunNo: <b>100380</b>						
Prep Date:	Analysis Date: <b>10/11/2023</b>			SeqNo: <b>3676661</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.0	15.24	0	104	70	130			
Surr: BFB	1300		609.8		218	15	244			

Sample ID: <b>2310508-001amsd</b>	SampType: <b>MSD</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>S-5</b>	Batch ID: <b>GS100380</b>			RunNo: <b>100380</b>						
Prep Date:	Analysis Date: <b>10/11/2023</b>			SeqNo: <b>3676662</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	3.0	15.24	0	97.2	70	130	6.38	20	

**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

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

WO#: 2310508

18-Oct-23

**Client:** ENSOLUM**Project:** Blanco C 14

Sample ID: <b>2310508-001amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>S-5</b>	Batch ID: <b>GS100380</b>		RunNo: <b>100380</b>							
Prep Date:	Analysis Date: <b>10/11/2023</b>		SeqNo: <b>3676662</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1300		609.8		206	15	244	0	0	

Sample ID: <b>2310508-007ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>S-11</b>	Batch ID: <b>GS100376</b>		RunNo: <b>100376</b>							
Prep Date:	Analysis Date: <b>10/11/2023</b>		SeqNo: <b>3677507</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	3.5	17.36	0	106	70	130			
Surr: BFB	1400		694.4		204	15	244			

Sample ID: <b>2310508-007amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>S-11</b>	Batch ID: <b>GS100376</b>		RunNo: <b>100376</b>							
Prep Date:	Analysis Date: <b>10/11/2023</b>		SeqNo: <b>3677508</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.5	17.36	0	99.2	70	130	6.63	20	
Surr: BFB	1400		694.4		204	15	244	0	0	

Sample ID: <b>lcs-78039</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>78039</b>		RunNo: <b>100380</b>							
Prep Date: <b>10/9/2023</b>	Analysis Date: <b>10/11/2023</b>		SeqNo: <b>3677741</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2200		1000		215	15	244			

Sample ID: <b>mb-78039</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>78039</b>		RunNo: <b>100380</b>							
Prep Date: <b>10/9/2023</b>	Analysis Date: <b>10/11/2023</b>		SeqNo: <b>3677742</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		96.8	15	244			

**Qualifiers:**

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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#: 2310508

18-Oct-23

**Client:** ENSOLUM**Project:** Blanco C 14

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>BS100376</b>			RunNo: <b>100376</b>						
Prep Date:	Analysis Date: <b>10/11/2023</b>			SeqNo: <b>3676561</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	105	70	130			
Toluene	1.0	0.050	1.000	0	105	70	130			
Ethylbenzene	1.0	0.050	1.000	0	104	70	130			
Xylenes, Total	3.1	0.10	3.000	0	103	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	39.1	146			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>BS100376</b>			RunNo: <b>100376</b>						
Prep Date:	Analysis Date: <b>10/11/2023</b>			SeqNo: <b>3676562</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	39.1	146			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>BS100380</b>			RunNo: <b>100380</b>						
Prep Date:	Analysis Date: <b>10/11/2023</b>			SeqNo: <b>3676664</b>			Units: <b>mg/Kg</b>			
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	0.89		1.000		88.8	39.1	146			

Sample ID: <b>2310508-008ams</b>	SampType: <b>MS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>S-12</b>	Batch ID: <b>BS100376</b>			RunNo: <b>100376</b>						
Prep Date:	Analysis Date: <b>10/11/2023</b>			SeqNo: <b>3677636</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.73	0.019	0.7728	0	94.0	70	130			
Toluene	0.74	0.039	0.7728	0	96.1	70	130			
Ethylbenzene	0.75	0.039	0.7728	0	96.8	70	130			
Xylenes, Total	2.2	0.077	2.318	0	96.4	70	130			
Surr: 4-Bromofluorobenzene	0.76		0.7728		98.0	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

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

WO#: 2310508

18-Oct-23

**Client:** ENSOLUM**Project:** Blanco C 14

Sample ID: <b>2310508-008amsd</b>	SampType: <b>MSD</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>S-12</b>	Batch ID: <b>BS100376</b>			RunNo: <b>100376</b>						
Prep Date:	Analysis Date: <b>10/11/2023</b>			SeqNo: <b>3677637</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.75	0.019	0.7728	0	96.9	70	130	3.07	20	
Toluene	0.76	0.039	0.7728	0	98.5	70	130	2.45	20	
Ethylbenzene	0.77	0.039	0.7728	0	99.6	70	130	2.90	20	
Xylenes, Total	2.3	0.077	2.318	0	99.4	70	130	3.04	20	
Surr: 4-Bromofluorobenzene	0.78		0.7728		101	39.1	146	0	0	

Sample ID: <b>2310508-002ams</b>	SampType: <b>MS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>S-6</b>	Batch ID: <b>BS100380</b>			RunNo: <b>100380</b>						
Prep Date:	Analysis Date: <b>10/11/2023</b>			SeqNo: <b>3677701</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.025	1.000	0	78.9	70	130			
Toluene	0.81	0.050	1.000	0	80.6	70	130			
Ethylbenzene	0.82	0.050	1.000	0	82.2	70	130			
Xylenes, Total	2.4	0.10	3.000	0	81.6	70	130			
Surr: 4-Bromofluorobenzene	0.83		1.000		83.3	39.1	146			

Sample ID: <b>2310508-002amsd</b>	SampType: <b>MSD</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>S-6</b>	Batch ID: <b>BS100380</b>			RunNo: <b>100380</b>						
Prep Date:	Analysis Date: <b>10/11/2023</b>			SeqNo: <b>3677703</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.025	1.000	0	79.3	70	130	0.477	20	
Toluene	0.82	0.050	1.000	0	81.9	70	130	1.57	20	
Ethylbenzene	0.83	0.050	1.000	0	83.4	70	130	1.44	20	
Xylenes, Total	2.5	0.10	3.000	0	82.4	70	130	0.884	20	
Surr: 4-Bromofluorobenzene	0.84		1.000		83.6	39.1	146	0	0	

Sample ID: <b>lcs-78039</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>78039</b>			RunNo: <b>100380</b>						
Prep Date: <b>10/9/2023</b>	Analysis Date: <b>10/11/2023</b>			SeqNo: <b>3677705</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.86		1.000		86.3	39.1	146			

Sample ID: <b>mb-78039</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>78039</b>			RunNo: <b>100380</b>						
Prep Date: <b>10/9/2023</b>	Analysis Date: <b>10/11/2023</b>			SeqNo: <b>3677706</b>		Units: <b>%Rec</b>				
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

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QC SUMMARY REPORT  
Hall Environmental Analysis Laboratory, Inc.

WO#: 2310508  
18-Oct-23

Client: ENSOLUM  
Project: Blanco C 14

Sample ID: <b>mb-78039</b>		SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>		Batch ID: <b>78039</b>			RunNo: <b>100380</b>					
Prep Date: <b>10/9/2023</b>		Analysis Date: <b>10/11/2023</b>			SeqNo: <b>3677706</b>		Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.86		1.000		85.8	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: 2310508

RcptNo: 1

Received By: Tracy Casarrubias 10/11/2023 6:40:00 AM

Completed By: Tracy Casarrubias 10/11/2023 7:06:31 AM

Reviewed By: SUM 10/11/23

### 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:   
Adjusted?   
Checked by: YU 10/11/23

### 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 10/11/23

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.8	Good	Yes	Yogi		

## Chain-of-Custody Record

Client: Ensolun, LLC

Mailing Address: 6006 S. No. Grande, Suite 100  
Astoria, NM 87410

Phone #:

email or Fax#: ksummers@ensolun.com

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

Accreditation: ☐ Az Compliance  
☐ NELAC ☐ Other \_\_\_\_\_

☐ EDD (Type) \_\_\_\_\_

Turn-Around Time:

☐ Standard☒ Rush 100%

Same Day

Project Name:

Blanco C-14

Project #:

SEE NOTES

Project Manager:

K. Summers

Sampler:

L. Daniels

On Ice:

☒ Yes☐ Noyes

# of Coolers:

1Cooler Temp (including CF): 48.0 = 4.8 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
<u>10/9/23</u>	<u>12:00</u>	<u>S</u>	<u>S-5</u>	<u>1 Yojan Cool</u>		<u>001</u>
	<u>12:10</u>	<u>S</u>	<u>S-6</u>			<u>002</u>
	<u>12:20</u>	<u>S</u>	<u>S-7</u>			<u>003</u>
	<u>12:30</u>	<u>S</u>	<u>S-8</u>			<u>004</u>
	<u>12:40</u>	<u>S</u>	<u>S-9</u>			<u>005</u>
	<u>12:50</u>	<u>S</u>	<u>S-10</u>			<u>006</u>
	<u>13:00</u>	<u>S</u>	<u>S-11</u>			<u>007</u>
	<u>13:10</u>	<u>S</u>	<u>S-12</u>			<u>008</u>
	<u>13:20</u>	<u>S</u>	<u>S-13</u>			<u>009</u>
	<u>13:30</u>	<u>S</u>	<u>S-14</u>			<u>010</u>
	<u>13:40</u>	<u>S</u>	<u>S-15</u>			<u>011</u>
	<u>13:50</u>	<u>S</u>	<u>S-16</u>			<u>012</u>

Received by:

Via: Courier

Date

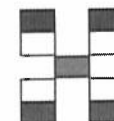
Time

Received by:

Via:

Date

Time



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	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													

Remarks:

PM Tom Long CO  
Psykey: RBZK000 21200  
Non AFE# N67250

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







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

October 18, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Blanco C 14

OrderNo.: 2310510

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 10/11/2023 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](http://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 2310510

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-21

Project: Blanco C 14

Collection Date: 10/9/2023 2:40:00 PM

Lab ID: 2310510-001

Matrix: SOIL

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>RBC</b>
Chloride	ND	60		mg/Kg	20	10/12/2023 3:01:49 PM	78118
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/11/2023 11:00:08 PM	78094
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/11/2023 11:00:08 PM	78094
Surr: DNOP	103	69-147		%Rec	1	10/11/2023 11:00:08 PM	78094
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/12/2023 11:34:21 AM	78084
Surr: BFB	95.8	15-244		%Rec	1	10/12/2023 11:34:21 AM	78084
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>JJP</b>
Benzene	ND	0.025		mg/Kg	1	10/12/2023 11:34:21 AM	78084
Toluene	ND	0.049		mg/Kg	1	10/12/2023 11:34:21 AM	78084
Ethylbenzene	ND	0.049		mg/Kg	1	10/12/2023 11:34:21 AM	78084
Xylenes, Total	ND	0.098		mg/Kg	1	10/12/2023 11:34:21 AM	78084
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	10/12/2023 11:34:21 AM	78084

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310510

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-22

Project: Blanco C 14

Collection Date: 10/9/2023 2:50:00 PM

Lab ID: 2310510-002

Matrix: SOIL

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>RBC</b>
Chloride	ND	60		mg/Kg	20	10/12/2023 3:14:10 PM	78118
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/11/2023 11:11:01 PM	78094
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/11/2023 11:11:01 PM	78094
Surr: DNOP	99.2	69-147		%Rec	1	10/11/2023 11:11:01 PM	78094
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/12/2023 11:57:43 AM	78084
Surr: BFB	98.4	15-244		%Rec	1	10/12/2023 11:57:43 AM	78084
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>JJP</b>
Benzene	ND	0.024		mg/Kg	1	10/12/2023 11:57:43 AM	78084
Toluene	ND	0.047		mg/Kg	1	10/12/2023 11:57:43 AM	78084
Ethylbenzene	ND	0.047		mg/Kg	1	10/12/2023 11:57:43 AM	78084
Xylenes, Total	ND	0.095		mg/Kg	1	10/12/2023 11:57:43 AM	78084
Surr: 4-Bromofluorobenzene	105	39.1-146		%Rec	1	10/12/2023 11:57:43 AM	78084

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310510

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-23

Project: Blanco C 14

Collection Date: 10/9/2023 3:00:00 PM

Lab ID: 2310510-003

Matrix: SOIL

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>RBC</b>
Chloride	ND	60		mg/Kg	20	10/12/2023 3:26:31 PM	78118
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/11/2023 11:21:56 PM	78094
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/11/2023 11:21:56 PM	78094
Surr: DNOP	97.6	69-147		%Rec	1	10/11/2023 11:21:56 PM	78094
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/12/2023 12:21:03 PM	78084
Surr: BFB	95.4	15-244		%Rec	1	10/12/2023 12:21:03 PM	78084
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>JJP</b>
Benzene	ND	0.024		mg/Kg	1	10/12/2023 12:21:03 PM	78084
Toluene	ND	0.048		mg/Kg	1	10/12/2023 12:21:03 PM	78084
Ethylbenzene	ND	0.048		mg/Kg	1	10/12/2023 12:21:03 PM	78084
Xylenes, Total	ND	0.096		mg/Kg	1	10/12/2023 12:21:03 PM	78084
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	10/12/2023 12:21:03 PM	78084

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310510

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-24

Project: Blanco C 14

Collection Date: 10/9/2023 3:10:00 PM

Lab ID: 2310510-004

Matrix: SOIL

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>RBC</b>
Chloride	ND	60		mg/Kg	20	10/12/2023 3:38:52 PM	78118
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/11/2023 11:32:51 PM	78094
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/11/2023 11:32:51 PM	78094
Surr: DNOP	99.3	69-147		%Rec	1	10/11/2023 11:32:51 PM	78094
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/12/2023 12:44:25 PM	78084
Surr: BFB	98.3	15-244		%Rec	1	10/12/2023 12:44:25 PM	78084
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>JJP</b>
Benzene	ND	0.024		mg/Kg	1	10/12/2023 12:44:25 PM	78084
Toluene	ND	0.047		mg/Kg	1	10/12/2023 12:44:25 PM	78084
Ethylbenzene	ND	0.047		mg/Kg	1	10/12/2023 12:44:25 PM	78084
Xylenes, Total	ND	0.095		mg/Kg	1	10/12/2023 12:44:25 PM	78084
Surr: 4-Bromofluorobenzene	104	39.1-146		%Rec	1	10/12/2023 12:44:25 PM	78084

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310510

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-25

Project: Blanco C 14

Collection Date: 10/9/2023 3:20:00 PM

Lab ID: 2310510-005

Matrix: SOIL

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>RBC</b>
Chloride	ND	60		mg/Kg	20	10/12/2023 3:51:13 PM	78118
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/11/2023 11:43:45 PM	78094
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/11/2023 11:43:45 PM	78094
Surr: DNOP	104	69-147		%Rec	1	10/11/2023 11:43:45 PM	78094
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/12/2023 1:07:55 PM	78084
Surr: BFB	97.2	15-244		%Rec	1	10/12/2023 1:07:55 PM	78084
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>JJP</b>
Benzene	ND	0.023		mg/Kg	1	10/12/2023 1:07:55 PM	78084
Toluene	ND	0.047		mg/Kg	1	10/12/2023 1:07:55 PM	78084
Ethylbenzene	ND	0.047		mg/Kg	1	10/12/2023 1:07:55 PM	78084
Xylenes, Total	ND	0.093		mg/Kg	1	10/12/2023 1:07:55 PM	78084
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	10/12/2023 1:07:55 PM	78084

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310510

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-26

Project: Blanco C 14

Collection Date: 10/9/2023 3:30:00 PM

Lab ID: 2310510-006

Matrix: SOIL

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>RBC</b>
Chloride	ND	61		mg/Kg	20	10/12/2023 4:03:33 PM	78118
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/11/2023 11:54:42 PM	78094
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/11/2023 11:54:42 PM	78094
Surr: DNOP	99.6	69-147		%Rec	1	10/11/2023 11:54:42 PM	78094
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/12/2023 1:31:36 PM	78084
Surr: BFB	94.4	15-244		%Rec	1	10/12/2023 1:31:36 PM	78084
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>JJP</b>
Benzene	ND	0.025		mg/Kg	1	10/12/2023 1:31:36 PM	78084
Toluene	ND	0.050		mg/Kg	1	10/12/2023 1:31:36 PM	78084
Ethylbenzene	ND	0.050		mg/Kg	1	10/12/2023 1:31:36 PM	78084
Xylenes, Total	ND	0.10		mg/Kg	1	10/12/2023 1:31:36 PM	78084
Surr: 4-Bromofluorobenzene	99.8	39.1-146		%Rec	1	10/12/2023 1:31:36 PM	78084

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310510

Date Reported: 10/18/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-27

Project: Blanco C 14

Collection Date: 10/9/2023 3:40:00 PM

Lab ID: 2310510-007

Matrix: SOIL

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>RBC</b>
Chloride	ND	60		mg/Kg	20	10/12/2023 4:15:52 PM	78118
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/12/2023 12:05:39 AM	78094
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/12/2023 12:05:39 AM	78094
Surr: DNOP	96.3	69-147		%Rec	1	10/12/2023 12:05:39 AM	78094
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>JJP</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/12/2023 1:55:22 PM	78084
Surr: BFB	93.5	15-244		%Rec	1	10/12/2023 1:55:22 PM	78084
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>JJP</b>
Benzene	ND	0.025		mg/Kg	1	10/12/2023 1:55:22 PM	78084
Toluene	ND	0.050		mg/Kg	1	10/12/2023 1:55:22 PM	78084
Ethylbenzene	ND	0.050		mg/Kg	1	10/12/2023 1:55:22 PM	78084
Xylenes, Total	ND	0.099		mg/Kg	1	10/12/2023 1:55:22 PM	78084
Surr: 4-Bromofluorobenzene	102	39.1-146		%Rec	1	10/12/2023 1:55:22 PM	78084

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310510  
18-Oct-23

Client: ENSOLUM  
Project: Blanco C 14

Sample ID: MB-78118	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 78118	RunNo: 100419
Prep Date: 10/12/2023	Analysis Date: 10/12/2023	SeqNo: 3679538 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-78118	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 78118	RunNo: 100419
Prep Date: 10/12/2023	Analysis Date: 10/12/2023	SeqNo: 3679539 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 91.6 90 110

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

WO#: 2310510

18-Oct-23

**Client:** ENSOLUM**Project:** Blanco C 14

Sample ID: <b>2310510-007AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>S-27</b>	Batch ID: <b>78094</b>	RunNo: <b>100384</b>								
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/12/2023</b>	SeqNo: <b>3677532</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.2	46.08	0	95.2	54.2	135			
Surr: DNOP	4.6		4.608		99.7	69	147			

Sample ID: <b>2310510-007AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>S-27</b>	Batch ID: <b>78094</b>	RunNo: <b>100384</b>								
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/12/2023</b>	SeqNo: <b>3677533</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.3	46.69	0	94.0	54.2	135	0.0268	29.2	
Surr: DNOP	4.5		4.669		95.4	69	147	0	0	

Sample ID: <b>LCS-78094</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>78094</b>	RunNo: <b>100384</b>								
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/11/2023</b>	SeqNo: <b>3677536</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.1	61.9	130			
Surr: DNOP	4.8		5.000		95.3	69	147			

Sample ID: <b>MB-78094</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>78094</b>	RunNo: <b>100384</b>								
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/11/2023</b>	SeqNo: <b>3677562</b> Units: <b>mg/Kg</b>								
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	9.5		10.00		95.3	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

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

WO#: 2310510

18-Oct-23

**Client:** ENSOLUM**Project:** Blanco C 14

Sample ID: <b>lcs-78084</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>78084</b>		RunNo: <b>100410</b>							
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/12/2023</b>		SeqNo: <b>3678103</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	70	130			
Surr: BFB	2000		1000		204	15	244			

Sample ID: <b>mb-78084</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>78084</b>		RunNo: <b>100410</b>							
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/12/2023</b>		SeqNo: <b>3678104</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		98.4	15	244			

Sample ID: <b>lcs-78087</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>78087</b>		RunNo: <b>100410</b>							
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/12/2023</b>		SeqNo: <b>3679121</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		199	15	244			

Sample ID: <b>mb-78087</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>78087</b>		RunNo: <b>100410</b>							
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/12/2023</b>		SeqNo: <b>3679122</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		94.3	15	244			

Sample ID: <b>2310510-001AMS</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>S-21</b>	Batch ID: <b>78084</b>		RunNo: <b>100410</b>							
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/12/2023</b>		SeqNo: <b>3679532</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.44	0	101	70	130			
Surr: BFB	2000		977.5		203	15	244			

Sample ID: <b>2310510-001AMSD</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>S-21</b>	Batch ID: <b>78084</b>		RunNo: <b>100410</b>							
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/12/2023</b>		SeqNo: <b>3679533</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.68	0	101	70	130	1.14	20	
Surr: BFB	2000		987.2		200	15	244	0	0	

**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#: 2310510

18-Oct-23

**Client:** ENSOLUM**Project:** Blanco C 14

Sample ID: <b>LCS-78084</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>78084</b>			RunNo: <b>100410</b>						
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/12/2023</b>			SeqNo: <b>3678108</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.5	70	130			
Toluene	0.96	0.050	1.000	0	96.0	70	130			
Ethylbenzene	0.98	0.050	1.000	0	97.5	70	130			
Xylenes, Total	3.0	0.10	3.000	0	98.8	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	39.1	146			

Sample ID: <b>mb-78084</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>78084</b>			RunNo: <b>100410</b>						
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/12/2023</b>			SeqNo: <b>3678109</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	39.1	146			

Sample ID: <b>LCS-78087</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>78087</b>			RunNo: <b>100410</b>						
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/12/2023</b>			SeqNo: <b>3679144</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Sample ID: <b>mb-78087</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>78087</b>			RunNo: <b>100410</b>						
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/12/2023</b>			SeqNo: <b>3679145</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		100	39.1	146			

Sample ID: <b>2310510-002AMS</b>	SampType: <b>MS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>S-22</b>	Batch ID: <b>78084</b>			RunNo: <b>100410</b>						
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/12/2023</b>			SeqNo: <b>3679534</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.023	0.9398	0	99.7	70	130			
Toluene	0.95	0.047	0.9398	0	102	70	130			
Ethylbenzene	0.97	0.047	0.9398	0	103	70	130			
Xylenes, Total	2.9	0.094	2.820	0	103	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

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## QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2310510

18-Oct-23

Client: ENSOLUM

Project: Blanco C 14

Sample ID: 2310510-002AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: S-22	Batch ID: 78084	RunNo: 100410								
Prep Date: 10/11/2023	Analysis Date: 10/12/2023	SeqNo: 3679534 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		0.9398		105	39.1	146			

Sample ID: 2310510-002AMSD		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID: S-22		Batch ID: 78084		RunNo: 100410						
Prep Date: 10/11/2023		Analysis Date: 10/12/2023		SeqNo: 3679535		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.023	0.9381	0	103	70	130	2.57	20	
Toluene	0.97	0.047	0.9381	0	103	70	130	1.63	20	
Ethylbenzene	0.97	0.047	0.9381	0	104	70	130	0.636	20	
Xylenes, Total	3.0	0.094	2.814	0	105	70	130	1.12	20	
Surr: 4-Bromofluorobenzene	0.99		0.9381		106	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

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

## Sample Log-In Check List

Client Name: ENSOLUM

Work Order Number: 2310510

RcptNo: 1

Received By: Tracy Casarrubias 10/11/2023 6:40:00 AM

Completed By: Tracy Casarrubias 10/11/2023 7:45:01 AM

Reviewed By: 741011/23

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: SCM 10/11/23

### 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 10/11/23

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.8	Good	Yes	Yogi		

## Chain-of-Custody Record

**Client:**

Ensolum, LLC

**Mailing Address:**

606 → Rio Grande, Suite A

Astec, NM 87410

Phone #:

email or Fax#: ksunners@ansolun.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC      ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 10/12/23

Project Name:
---------------

Blanco C-14

Project #:

SEE NOTES

**Project Manager:**

K Summers

Sampler: L. Daniel II

On Ice: ☒ Yes ☐ No

# of Coolers:

Cooler Temp (including CF): 4.8 - 4.8 (°C)

[illegible]

Date:	Time:
10/10/23	10:00

Relinquished by:

10

Received by:

Via: Courier

Date	Time
------	------

Remarks:

PM Tom Long  
Pry key RBZ1200  
Nay AFET# N67250

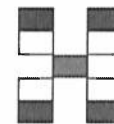
Date:	Time:
-------	-------

Relinquished by:

Received by:

Via:

Date	Time
------	------



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request



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

October 27, 2023

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Blanco C 14

OrderNo.: 2310516

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/11/2023 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](http://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 2310516

Date Reported: 10/27/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: SP-7

Project: Blanco C 14

Collection Date: 10/10/2023 12:25:00 PM

Lab ID: 2310516-001

Matrix: SOIL

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JTT
Chloride	ND	60		mg/Kg	20	10/13/2023 9:54:32 PM	78144
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/13/2023 8:18:01 PM	78136
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/13/2023 8:18:01 PM	78136
Surr: DNOP	93.0	69-147		%Rec	1	10/13/2023 8:18:01 PM	78136
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/13/2023 11:19:00 AM	78095
Surr: BFB	95.0	15-244		%Rec	1	10/13/2023 11:19:00 AM	78095
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	10/13/2023 11:19:00 AM	78095
Toluene	ND	0.049		mg/Kg	1	10/13/2023 11:19:00 AM	78095
Ethylbenzene	ND	0.049		mg/Kg	1	10/13/2023 11:19:00 AM	78095
Xylenes, Total	ND	0.099		mg/Kg	1	10/13/2023 11:19:00 AM	78095
Surr: 4-Bromofluorobenzene	86.7	39.1-146		%Rec	1	10/13/2023 11:19:00 AM	78095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

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## Analytical Report

Lab Order 2310516

Date Reported: 10/27/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: SP-8

Project: Blanco C 14

Collection Date: 10/10/2023 12:30:00 PM

Lab ID: 2310516-002

Matrix: SOIL

Received Date: 10/11/2023 6:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JTT
Chloride	ND	60		mg/Kg	20	10/13/2023 10:06:53 PM	78144
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: PRD
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	10/13/2023 8:42:18 PM	78136
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	10/13/2023 8:42:18 PM	78136
Surr: DNOP	93.2	69-147		%Rec	1	10/13/2023 8:42:18 PM	78136
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/13/2023 12:24:00 PM	78095
Surr: BFB	98.8	15-244		%Rec	1	10/13/2023 12:24:00 PM	78095
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	10/13/2023 12:24:00 PM	78095
Toluene	ND	0.049		mg/Kg	1	10/13/2023 12:24:00 PM	78095
Ethylbenzene	ND	0.049		mg/Kg	1	10/13/2023 12:24:00 PM	78095
Xylenes, Total	ND	0.098		mg/Kg	1	10/13/2023 12:24:00 PM	78095
Surr: 4-Bromofluorobenzene	87.4	39.1-146		%Rec	1	10/13/2023 12:24:00 PM	78095

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	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.		

Page 2 of 6

QC SUMMARY REPORT  
Hall Environmental Analysis Laboratory, Inc.

WO#: 2310516  
27-Oct-23

Client: ENSOLUM  
Project: Blanco C 14

Sample ID: MB-78144	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 78144	RunNo: 100450
Prep Date: 10/13/2023	Analysis Date: 10/13/2023	SeqNo: 3680464 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-78144	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 78144	RunNo: 100450
Prep Date: 10/13/2023	Analysis Date: 10/13/2023	SeqNo: 3680465 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 92.4 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#: 2310516

27-Oct-23

**Client:** ENSOLUM**Project:** Blanco C 14

Sample ID: <b>MB-78136</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>78136</b>	RunNo: <b>100447</b>								
Prep Date: <b>10/12/2023</b>	Analysis Date: <b>10/13/2023</b>	SeqNo: <b>3680055</b> Units: <b>mg/Kg</b>								
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	9.0		10.00		89.7	69	147			

Sample ID: <b>LCS-78136</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>78136</b>	RunNo: <b>100447</b>								
Prep Date: <b>10/12/2023</b>	Analysis Date: <b>10/13/2023</b>	SeqNo: <b>3680058</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	105	61.9	130			
Surr: DNOP	4.5		5.000		89.1	69	147			

Sample ID: <b>2310516-002AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>SP-8</b>	Batch ID: <b>78136</b>	RunNo: <b>100447</b>								
Prep Date: <b>10/12/2023</b>	Analysis Date: <b>10/13/2023</b>	SeqNo: <b>3681298</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.8	49.02	0	101	54.2	135			
Surr: DNOP	4.3		4.902		87.9	69	147			

Sample ID: <b>2310516-002AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>SP-8</b>	Batch ID: <b>78136</b>	RunNo: <b>100447</b>								
Prep Date: <b>10/12/2023</b>	Analysis Date: <b>10/13/2023</b>	SeqNo: <b>3681299</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.0	44.96	0	102	54.2	135	7.78	29.2	
Surr: DNOP	3.9		4.496		87.7	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#: 2310516

27-Oct-23

**Client:** ENSOLUM**Project:** Blanco C 14

Sample ID: <b>ics-78095</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>78095</b>		RunNo: <b>100466</b>							
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/13/2023</b>		SeqNo: <b>3681046</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.8	70	130			
Surr: BFB	2100		1000		211	15	244			

Sample ID: <b>mb-78095</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>78095</b>		RunNo: <b>100466</b>							
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/13/2023</b>		SeqNo: <b>3681047</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.3	15	244			

Sample ID: <b>2310516-001ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>SP-7</b>	Batch ID: <b>78095</b>		RunNo: <b>100466</b>							
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/13/2023</b>		SeqNo: <b>3681050</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	24.78	0	93.7	70	130			
Surr: BFB	2100		991.1		213	15	244			

Sample ID: <b>2310516-001amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>SP-7</b>	Batch ID: <b>78095</b>		RunNo: <b>100466</b>							
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/13/2023</b>		SeqNo: <b>3681051</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	24.78	0	101	70	130	7.36	20	
Surr: BFB	2100		991.1		215	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#: 2310516

27-Oct-23

**Client:** ENSOLUM**Project:** Blanco C 14

Sample ID: <b>LCS-78095</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>78095</b>		RunNo: <b>100466</b>							
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/13/2023</b>		SeqNo: <b>3680965</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.0	70	130			
Toluene	0.87	0.050	1.000	0	87.4	70	130			
Ethylbenzene	0.90	0.050	1.000	0	89.6	70	130			
Xylenes, Total	2.7	0.10	3.000	0	89.8	70	130			
Surr: 4-Bromofluorobenzene	0.91		1.000		90.6	39.1	146			

Sample ID: <b>mb-78095</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>78095</b>		RunNo: <b>100466</b>							
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/13/2023</b>		SeqNo: <b>3680967</b>		Units: <b>mg/Kg</b>					
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	0.86		1.000		86.5	39.1	146			

Sample ID: <b>2310516-002ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>SP-8</b>	Batch ID: <b>78095</b>		RunNo: <b>100466</b>							
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/13/2023</b>		SeqNo: <b>3680972</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	0.9862	0	84.8	70	130			
Toluene	0.85	0.049	0.9862	0	86.7	70	130			
Ethylbenzene	0.88	0.049	0.9862	0	89.7	70	130			
Xylenes, Total	2.6	0.099	2.959	0	89.5	70	130			
Surr: 4-Bromofluorobenzene	0.85		0.9862		86.3	39.1	146			

Sample ID: <b>2310516-002amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>SP-8</b>	Batch ID: <b>78095</b>		RunNo: <b>100466</b>							
Prep Date: <b>10/11/2023</b>	Analysis Date: <b>10/13/2023</b>		SeqNo: <b>3680973</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	0.9833	0	84.3	70	130	0.838	20	
Toluene	0.84	0.049	0.9833	0	85.8	70	130	1.35	20	
Ethylbenzene	0.87	0.049	0.9833	0	88.8	70	130	1.36	20	
Xylenes, Total	2.6	0.098	2.950	0	88.9	70	130	0.972	20	
Surr: 4-Bromofluorobenzene	0.85		0.9833		86.6	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.

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J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 6 of 6



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

## Sample Log-In Check List

Client Name: ENSOLUM

Work Order Number: 2310516

RcptNo: 1

Received By: Tracy Casarrubias 10/11/2023 6:40:00 AM

Completed By: Tracy Casarrubias 10/11/2023 8:29:09 AM

Reviewed By: *[Signature]* 10-11-23

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: *sem 10/11/23*

### 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 and times of collection are missing on COC- TMC 10/11/23

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.9	Good	Yes	Yogi		

## Chain-of-Custody Record

Client: Ensolum, LLC

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

Phone #: \_\_\_\_\_  
email or Fax#: kgmurphy5@consolid.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC      ☐ Other \_\_\_\_\_☐ EDD (Type) \_\_\_\_\_

**Turn-Around Time:**

☒ Standard ☐ Rush

Project Name:

Blanco C-14

Project #: SEE NOTES

Project Manager:

K. Summers

Sampler: L. Daniell

On Ice: ☒ Yes ☐ No

# of Coolers:

Cooler Temp (including CF):  $4.9 - 0 = 4.9$  ( $^{\circ}\text{C}$ )Container  
Type and #Preservative  
Type


HEAL No.  
2310516

Date	Time	Matrix	Sample Name
------	------	--------	-------------

10/2/23	12:25	S	SP-7
---------	-------	---	------

10/10/23	12:30	S	Sf-8
----------	-------	---	------

Time 10/11/23

Date: 10/10/23	Time: 13:53	Relinquished by: 
-------------------	----------------	---------------------------------------------------------------------------------------------------------

Date:	Time:	Relinquished by:
-------	-------	------------------

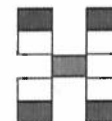
Received by: Via: *Carrier* Date 10/11/23 Time 6:40

Received by:	Via:	Date	Time
--------------	------	------	------

Remarks:

3-Day  
TOT

PM Tom Long  
Pay Key = RBZ1200  
Non AFE# N67250



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

[illegible]

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

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS  
  
Action 293570

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 293570
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2323530370
Incident Name	NAPP2323530370 BLANCO C-14 @ 0
Incident Type	Natural Gas Release
Incident Status	Reclamation Report Received

Location of Release Source

Please answer all the questions in this group.

Site Name	BLANCO C-14
Date Release Discovered	08/17/2023
Surface Owner	Navajo

Incident Details

Please answer all the questions in this group.

Incident Type	Natural Gas Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	Yes
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Cause: Corrosion   Pipeline (Any)   Condensate   Released: 5 BBL   Recovered: 0 BBL   Lost: 5 BBL.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.



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

QUESTIONS, Page 2

Action 293570

**QUESTIONS (continued)**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:
	241602
	Action Number:
	293570
Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

**QUESTIONS**

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (b) may with reasonable probability reach a watercourse.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 12/12/2023
----------------------------------------------------	-------------------------------------------------------------------------------------------------------------

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

QUESTIONS, Page 3

Action 293570

**QUESTIONS (continued)**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:
	241602
	Action Number:
	293570
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 200 and 300 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 200 and 300 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 100 and 200 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	61
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	12
GRO+DRO	(EPA SW-846 Method 8015M)	64.1
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	09/06/2023
On what date will (or did) the final sampling or liner inspection occur	10/10/2023
On what date will (or was) the remediation complete(d)	10/10/2023
What is the estimated surface area (in square feet) that will be reclaimed	4760
What is the estimated volume (in cubic yards) that will be reclaimed	684
What is the estimated surface area (in square feet) that will be remediated	4760
What is the estimated volume (in cubic yards) that will be remediated	684

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

**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

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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

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

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Action 293570

**QUESTIONS (continued)**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:	241602
	Action Number:	293570
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS****Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	Envirotech Land Farm
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 12/12/2023
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

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Action 293570

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 293570
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Action 293570

**QUESTIONS (continued)**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:
	241602
	Action Number:
	293570
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	293576
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/06/2023
What was the (estimated) number of samples that were to be gathered	12
What was the sampling surface area in square feet	200

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	4760
What was the total volume (cubic yards) remediated	684
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	4760
What was the total volume (in cubic yards) reclaimed	684
Summarize any additional remediation activities not included by answers (above)	None.

*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 (in .pdf format) 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.*

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.

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 12/12/2023
----------------------------------------------------	-------------------------------------------------------------------------------------------------------------



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**QUESTIONS (continued)**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:	241602
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	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Reclamation Report</b>	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	4760
What was the total volume of replacement material (in cubic yards) for this site	684
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	06/01/2024
Summarize any additional reclamation activities not included by answers (above)	None
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 12/12/2023

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**Santa Fe, NM 87505**

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Action 293570

**QUESTIONS (continued)**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 293570
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Revegetation Report</b>	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS  
  
Action 293570

CONDITIONS

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	Action Number: 293570
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	12/28/2023