

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

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

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

| | |
|----------------|--|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| | |
|--|--|
| Responsible Party: Enterprise Field Services, LLC | OGRID: 151618 |
| Contact Name: Thomas Long | Contact Telephone: 505-599-2286 |
| Contact email: tjlong@eprod.com | Incident # (assigned by OCD): NCS1912335405 |
| Contact mailing address: 614 Reilly Ave, Farmington, NM 87401 | |

Location of Release Source

Latitude **36.729277** Longitude **-107.956459** (NAD 83 in decimal degrees to 5 decimal places)

| | |
|---|---|
| Site Name Val Verde Plant | Site Type Natural Gas Processing Plant |
| Date Release Discovered: 4/18/2019 | Serial Number (if applicable): NA |

| Unit Letter | Section | Township | Range | County |
|-------------|-----------|------------|------------|-----------------|
| A | 14 | 29N | 11W | San Juan |

Surface Owner: State Federal Tribal Private (Name: **Enterprise Field Services, LLC**)

Nature and Volume of Release

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

| | | |
|--|--|--|
| <input type="checkbox"/> Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Produced Water | Volume Released (bbls) | Volume Recovered (bbls) |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls): | Volume Recovered (bbls): |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf): | Volume Recovered (Mcf): |
| <input checked="" type="checkbox"/> Other (describe) | Volume/Weight Released (provide units): 5-7 Barrels of Amine/Water Mix | Volume/Weight Recovered (provide units) None |

Cause of Release: On April 18, 2019, an operator observed that the Train 7 amine carbon bed secondary containment was full. In addition, an estimated five to seven barrels of an amine/water mix overflow the containment onto the ground. All released fluids remained on the plant property. Enterprise recovered the standing liquids as much as practicable. From April to September 2019, Enterprise completed the remediation. The final excavation measure approximately 101 feet long by 42 feet wide by 2.5 feet deep. Approximately 20 cubic yards of hydrocarbon impacted soil were excavated and transported to a New Mexico Oil Conservation Division approved land farm facility. A third party closure report is included with this "Final." C-141.

| | |
|----------------|--|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

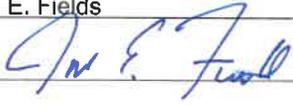
Closure

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

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

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

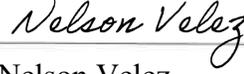
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public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

Printed Name: Jon E. Fields Title: Director, Environmental
 Signature:  Date: 11/05/2020
 email: jeffields@eprod.com Telephone: (713) 381-6684

OCD Only

Received by: _____ Date: _____

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

Closure Approved by:  Date: 05/19/2022
 Printed Name: Nelson Velez Title: Environmental Specialist – Adv



CLOSURE REPORT

Property:

**Val Verde Plant Train 7 Release (April 2019)
NE ¼, S14 T29N R11W
San Juan County, New Mexico**

December 4, 2019
Ensolum Project No. 05A1226054

Prepared for:

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

Prepared by:

A handwritten signature in blue ink, appearing to read 'Chad D'Aponti'.

Chad D'Aponti
Field Environmental Scientist

A handwritten signature in blue ink, appearing to read 'Rane Deechilly'.

Rane Deechilly
Environmental Scientist

A handwritten signature in blue ink, appearing to read 'Kyle Summers'.

Kyle Summers, CPG
Sr. Project Manager

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CLOSURE REPORT

Val Verde Plant Train 7 Release (April 2019) NE ¼, S14 T29N R11W San Juan County, New Mexico

Ensolum Project No. 05A1226054

1.0 INTRODUCTION

1.1 Site Description & Background

| | |
|--------------------|---|
| Operator: | Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise) |
| Site Name: | Val Verde Plant Train 7 Release (April 2019) (Site) |
| Location: | 36.729291° North, 107.956439° West Northeast (NE) ¼ of Section 14, Township 29 North, Range 11 West San Juan County, New Mexico |
| Property: | Private Land (Enterprise) |
| Regulatory: | New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) |

During April 2019, a release from the Val Verde Plant Train 7 carbon vessel was identified by Enterprise personnel. The resulting release was characterized by liquids within the concrete containment and discoloration at the ground surface adjacent to the containment. A flow path traveled south from the carbon vessel skid and containment. Enterprise removed the liquids from the containment and subsequently initiated activities to remediate petroleum hydrocarbon impact resulting from the release.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to oil and gas release sites, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for oil and gas release sites subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, the general site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to determine the appropriate closure criteria for the Site.

- Numerous points of diversions (POD) were identified within a one-half mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database. A nearby monitoring well network located in the Blanco Plant South Flare Pit and D Plant Area includes 11 registered groundwater monitoring wells and several unpermitted monitoring wells. Records for the 11 registered



groundwater monitoring wells do not indicate water depth, however, based on data from previous monitoring events, the nearest monitoring well (unpermitted) is located approximately 593 feet southwest of the Site with a depth to water of approximately 35 feet below grade surface (bgs). The records are not clear, but there appears to be an out-of-service industrial water well located at the facility (SJ-00007 - approximately 450 feet northeast of the release area according to the original permit submittal). No depth to water is listed for SJ-0007, but the total depth of the well is 752 feet.

- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- 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.
- No springs, or private domestic fresh-water wells used by less than five (5) households for domestic or stock watering purposes were identified within 500 feet of the Site.
- With the possible exception of the out-of-service facility well (SJ-00007), no fresh-water wells or springs were identified within 1,000 feet of the Site.
- 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 NMSA 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division’s GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- The Site is not located within an unstable area.
- The Site is not located within a 100-year floodplain.

Based on the identified siting criteria, cleanup goals for soils remaining in place at the Site include:

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

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3.0 SOIL REMEDIATION ACTIVITIES

During April 2019, Enterprise initiated activities to remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities West States Energy Contractors, Inc., provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

To remediate the impact from the release, the area was scraped utilizing heavy equipment and hand tools. The final scraped excavation measured approximately 101 feet long and 42 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 30 inches bgs.

The lithology encountered during the completion of remediation activities consisted primarily of semi-consolidated silty sand and gravel.

A total of approximately 20 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix B**. The remaining 100 cubic yards of petroleum hydrocarbon affected soils identified on the C-138 are from an adjacent on-Site release that is currently being remediated, as well as from general Site housekeeping activities from the 2019 calendar year. The excavation was backfilled with imported fill and resurfaced with gravel to provide a suitable driving surface.

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

4.0 SOIL SAMPLING PROGRAM

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

Ensolum's soil sampling program included the collection of 20 composite soil samples (FP-1 through FP-20), comprised of five (5) aliquots each, from the excavation for laboratory analysis. A clean shovel was utilized to obtain fresh aliquots from each area of the excavation. The New Mexico EMNRD OCD provided verbal approval to proceed with the sampling events. A New Mexico EMNRD OCD representative was not on-Site during the sampling activities.

First Sampling Event

On April 24, 2019, the release composite soil samples FP-1 through FP-9 (all at depths of 1" bgs) were collected from the scraped release area. Analytical results from composite soil samples FP-2, FP-4, FP-6, FP-7, FP-8, and FP-9 indicated New Mexico EMNRD OCD closure standard exceedances. In response to the data exceedances, the area was further scraped/excavated to remove petroleum hydrocarbon impact. Soils associated with composite soil samples FP-2, FP-4, FP-6, FP-7, FP-8, and FP-9 were removed by scraping/excavation.

Second Sampling Event

On June 26, 2019, after the area had been further scraped/excavated, a second sampling event was performed. Composite soil samples FP-10 through FP-16 (all at depths of 2" bgs) were collected from the scraped/excavated area to replace composite soil samples FP-2, FP-4, FP-6, FP-7, FP-8, and FP-9 which had exhibited closure standard exceedances and were removed by scraping/excavation and were ultimately transported to the landfarm for disposal/remediation. Subsequent analytical results from composite soil sample FP-11 indicated a New Mexico EMNRD OCD closure standard exceedance.

Enterprise Field Services, LLC
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Val Verde Plant Train 7 Release (April 2019)
December 4, 2019



Third Sampling Event

The area of the release represented by composite soil sample FP-11 was further scraped/excavated, and on August 7, 2019 composite soil sample FP-17 (3") was collected from the scraped/excavated area to replace composite soil sample FP-11. Soils associated with composite sample FP-11 were removed by scraping/excavation and were ultimately transported to the landfarm for disposal/remediation. Subsequent analytical results for composite soil sample FP-17 still indicated a New Mexico EMNRD OCD closure standard exceedance.

Fourth Sampling Event

The area of the release represented by composite soil sample FP-17 was further scraped/excavated (with a total depth now ranging from 9" to 24" bgs) and on August 28, 2019 composite soil sample FP-18 was collected from the floor and sidewalls of the deepened excavation to replace previous composite soil sample FP-17. Soils associated with composite sample FP-17 were removed by scraping/excavation and were ultimately transported to the landfarm for disposal/remediation. Subsequent analytical results for composite soil sample FP-18 indicated a New Mexico EMNRD OCD closure standard exceedance.

Fifth Sampling Event

The area of the release represented by composite soil sample FP-18 was further excavated (with a total depth ranging from 14" to 30" bgs) and on September 10, 2019 composite soil samples FP-19 and FP-20 were collected from the floor and sidewalls of the excavation to replace composite soil sample FP-18. Soils associated with composite sample FP-18 were removed by scraping/excavation and were ultimately transported to the landfarm for disposal/remediation.

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

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) using Environmental Protection Agency (EPA) SW-846 Method #8021, total petroleum hydrocarbon (TPH) gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube oil range organics (MRO) using EPA SW-846 Method #8015, and chlorides using EPA Method #300.0.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix E**.

6.0 DATA EVALUATION

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results associated with the composite soil samples (FP-1, FP-3, FP-5, FP-10, FP-12 through FP-16, FP-19, and FP-20) to the applicable New Mexico EMNRD OCD closure criteria. In the event that the laboratory did not quantify a result for BTEX or chloride, Ensolum compared the laboratory supplied practical quantitation limits (PQLs) or reporting limits (RLs) to the New Mexico EMNRD OCD closure criteria. Due to the high PQLs/RLs associated with the TPH MRO range when using EPA SW-846 Method #8015, Ensolum only compared the quantified results to the New Mexico EMNRD OCD closure criteria. Soils associated with composite soil samples FP-2, FP-4, FP-6, FP-7, FP-8, FP-9, FP-11, FP-17, and FP-18 were transported to Envirotech landfarm for disposal/remediation and are not included in the following discussion.

- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate benzene is not present in concentrations greater than the laboratory PQLs/RLs,



which are less than the New Mexico EMNRD OCD closure criteria of 10 milligrams per kilogram (mg/kg).

- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site, indicate total BTEX is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for composite soil samples FP-14, FP-15, and FP-16 collected from soils remaining at the Site, indicate combined TPH GRO/DRO/MRO concentrations ranging from less than the PQL/RL to 84 mg/kg (FP-14 and FP-16), which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site, indicate chloride is not present in concentrations greater than laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 600 mg/kg for chlorides.

Laboratory analytical results are summarized in **Table 1 (Appendix D)**.

7.0 RECLAMATION AND RE-VEGETATION

Enterprise backfilled the excavation with imported fill and resurfaced it with gravel to provide a suitable driving surface.

8.0 FINDINGS AND RECOMMENDATION

During April 2019, a release from the Val Verde Train 7 carbon vessel was identified by Enterprise personnel. The resulting release was characterized by liquids within the concrete containment and discoloration at the ground surface adjacent to the containment. A flow path traveled south from the carbon vessel skid and containment. Enterprise removed the liquids from the containment and subsequently initiated activities to remediate petroleum hydrocarbon impact resulting from the release.

- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- A total of 20 composite soil samples were collected from the walls and floor of the final excavation and stockpiled soils for laboratory analysis. Based on soil laboratory analytical results, soils remaining in place do not exhibit COC concentrations above the New Mexico EMNRD OCD closure criteria.
- A total of approximately 20 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation. The remaining 100 cubic yards of petroleum hydrocarbon affected soils identified on the C-138 are from an adjacent on-Site release that is currently being remediated, as well as from general Site housekeeping activities from the 2019 calendar year. The excavation was backfilled with imported fill and resurfaced with gravel to provide a suitable driving surface.

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

Enterprise Field Services, LLC
Closure Report
Val Verde Plant Train 7 Release (April 2019)
December 4, 2019



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 Additional 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 recommendations are based solely upon data available to Ensolum at the time of these services.

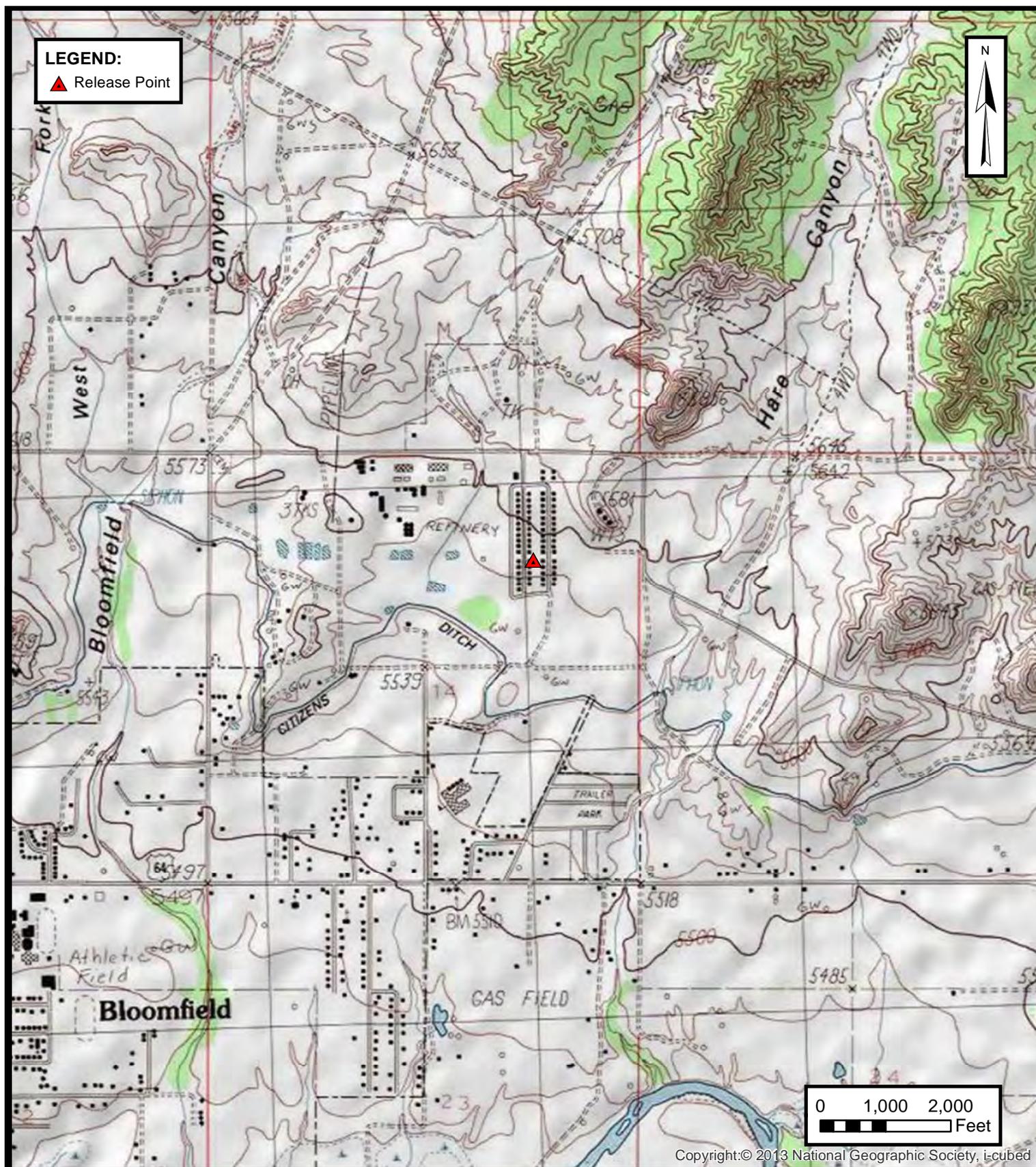
9.3 Reliance

This report has been prepared for the exclusive use of Enterprise Products Operating LLC, 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 Enterprise Products Operating LLC and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Closure Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



APPENDIX A

Figures



ENSOLUM
Environmental & Hydrogeologic Consultants

TOPOGRAPHIC MAP
 ENTERPRISE FIELD SERVICES, LLC
 VAL VERDE PLANT TRAIN 7 RELEASE
 NE ¼, S14 T29N R11W, San Juan County, New Mexico
 36.729291° N, 107.956439° W
 PROJECT NUMBER: 05A1226054

FIGURE
1

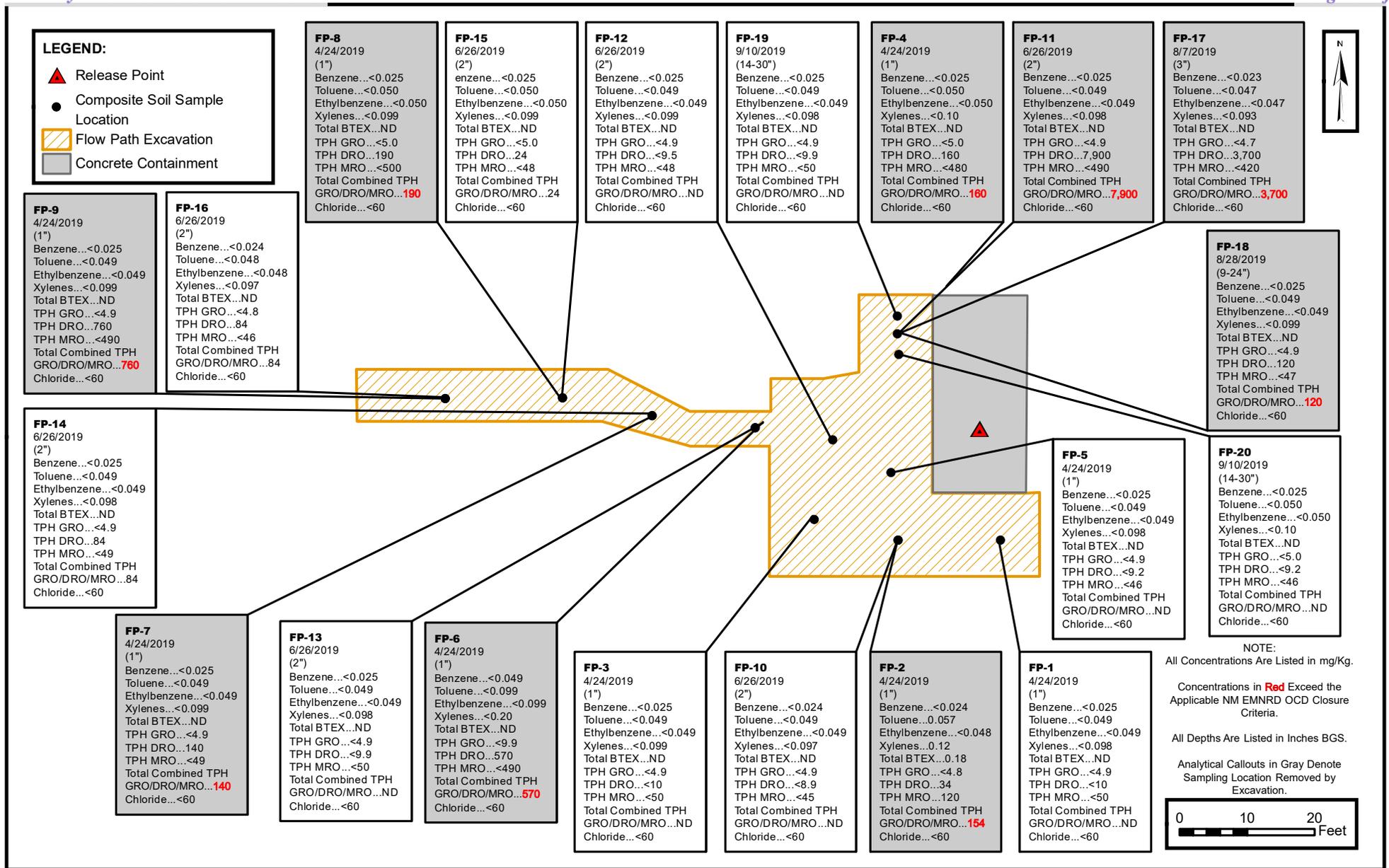


SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
VAL VERDE PLANT TRAIN 7 RELEASE
NE ¼, S14 T29N R11W, San Juan County, New Mexico
36.729291° N, 107.956439° W

PROJECT NUMBER: 05A1226054

FIGURE
2



SITE MAP WITH SOIL ANALYTICAL RESULTS

ENTERPRISE FIELD SERVICES, LLC
VAL VERDE PLANT TRAIN 7 RELEASE
NE ¼, S14 T29N R11W, San Juan County, New Mexico
36.729291° N, 107.956439° W

PROJECT NUMBER: 05A1226054

FIGURE 3





APPENDIX B

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 97057-1053
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised 08/01/11

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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

2. Originating Site:
Val Verde Plant

3. Location of Material (Street Address, City, State or ULSTR):
Unit B Sec 14 T 29N R 11W; 36.73073, -107.955920 Nov. 2019

4. Source and Description of Waste:
Source: Amine Spill Cleanup activities.
Description: Hydrocarbon/Amine impacted soil associated with an amine leak.
Estimated Volume 50 (yd³) bbls Known Volume (to be entered by the operator at the end of the haul) 120 (yd³) bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

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

- RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency Monthly Weekly Per Load
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

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

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long *Thomas Long* 11-19-19, representative for Enterprise Products Operating authorize Envirotech, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

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

5. Transporter: West States Energy Contractors Doug Fautz

OCD Permitted Surface Waste Management Facility

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

Address of Facility: Hill Top, NM
Method of Treatment and/or Disposal:

- Evaporation Injection Treating Plant Landfarm Landfill Other

Waste Acceptance Status:

- APPROVED DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree TITLE: Enviro Manager DATE: 11/24/19

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



APPENDIX C

Photographic Documentation



SITE PHOTOGRAPHS

Enterprise Field Services, LLC
Closure Report
Val Verde Plant Train 7 Release
Ensolum Project No. 05A1226054



Photograph 1

Photograph Description: View of the initial scraped/excavated area, facing west.



Photograph 2

Photograph Description: View of the initial scraped/excavated area, facing south.



Photograph 3

Photograph Description: View of the initial scraped/excavated area, facing north.



SITE PHOTOGRAPHS

Enterprise Field Services, LLC
Closure Report
Val Verde Plant Train 7 Release
Ensolum Project No. 05A1226054



Photograph 4

Photograph Description: View of the final scraped/excavated area and part of the carbon vessel skid/concrete containment, facing west.



Photograph 5

Photograph Description: View of the final scraped/excavated area, facing southeast.



Photograph 6

Photograph Description: View of the final scraped/excavated area, facing north.



SITE PHOTOGRAPHS

Enterprise Field Services, LLC
Closure Report
Val Verde Plant Train 7 Release
Ensolum Project No. 05A1226054



Photograph 7

Photograph Description: View of the final scraped/excavated area, facing northwest.



Photograph 8

Photograph Description: View of the final scraped/excavated area, facing northeast.





APPENDIX D

Table 1 – Soil Analytical Summary



TABLE 1
Val Verde Plant Train 7 Release
SOIL ANALYTICAL SUMMARY

| Sample I.D. | Date | Sample Type C - Composite G - Grab | Sample Depth (inches) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH MRO (mg/kg) | Total Combined TPH (mg/kg) | Chloride (mg/kg) |
|---|---------|--|--------------------------|--------------------|--------------------|-------------------------|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------------|---------------------|
| New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria | | | | 10 | NE | NE | NE | 50 | | | | 100 | 600 |
| Soil Samples Removed by Excavation | | | | | | | | | | | | | |
| FP-2 | 4.24.19 | C | 1 | <0.024 | 0.057 | <0.048 | 0.12 | 0.18 | <4.8 | 34 | 120 | 154 | <60 |
| FP-4 | 4.24.19 | C | 1 | <0.025 | <0.050 | <0.050 | <0.10 | ND | <5.0 | 160 | <480 | 160 | <60 |
| FP-6 | 4.24.19 | C | 1 | <0.049 | <0.099 | <0.099 | <0.20 | ND | <9.9 | 570 | <490 | 570 | <60 |
| FP-7 | 4.24.19 | C | 1 | <0.025 | <0.049 | <0.049 | <0.099 | ND | <4.9 | 140 | <49 | 140 | <60 |
| FP-8 | 4.24.19 | C | 1 | <0.025 | <0.050 | <0.050 | <0.099 | ND | <5.0 | 190 | <500 | 190 | <60 |
| FP-9 | 4.24.19 | C | 1 | <0.025 | <0.049 | <0.049 | <0.099 | ND | <4.9 | 760 | <490 | 760 | <60 |
| FP-11 | 6.26.19 | C | 2 | <0.025 | <0.049 | <0.049 | <0.098 | ND | <4.9 | 7,900 | <490 | 7,900 | <60 |
| FP-17 | 8.07.19 | C | 3 | <0.023 | <0.047 | <0.047 | <0.093 | ND | <4.7 | 3,700 | <420 | 3,700 | <60 |
| FP-18 | 8.28.19 | C | 9 to 24 | <0.025 | <0.049 | <0.049 | <0.099 | ND | <4.9 | 120 | <47 | 120 | <60 |
| Composite Soil Samples | | | | | | | | | | | | | |
| FP-1 | 4.24.19 | C | 1 | <0.025 | <0.049 | <0.049 | <0.098 | ND | <4.9 | <10 | <50 | ND | <60 |
| FP-3 | 4.24.19 | C | 1 | <0.025 | <0.049 | <0.049 | <0.099 | ND | <4.9 | <10 | <50 | ND | <60 |
| FP-5 | 4.24.19 | C | 1 | <0.025 | <0.049 | <0.049 | <0.098 | ND | <4.9 | <9.2 | <46 | ND | <60 |
| FP-10 | 6.26.19 | C | 2 | <0.024 | <0.049 | <0.049 | <0.097 | ND | <4.9 | <8.9 | <45 | ND | <60 |
| FP-12 | 6.26.19 | C | 2 | <0.025 | <0.049 | <0.049 | <0.099 | ND | <4.9 | <9.5 | <48 | ND | <60 |
| FP-13 | 6.26.19 | C | 2 | <0.025 | <0.049 | <0.049 | <0.098 | ND | <4.9 | <9.9 | <50 | ND | <60 |
| FP-14 | 6.26.19 | C | 2 | <0.025 | <0.049 | <0.049 | <0.098 | ND | <4.9 | 84 | <49 | 84 | <60 |
| FP-15 | 6.26.19 | C | 2 | <0.025 | <0.050 | <0.050 | <0.099 | ND | <5.0 | 24 | <48 | 24 | <60 |
| FP-16 | 6.26.19 | C | 2 | <0.024 | <0.048 | <0.048 | <0.097 | ND | <4.8 | 84 | <46 | 84 | <60 |
| FP-19 | 9.10.19 | C | 14 to 30 | <0.025 | <0.049 | <0.049 | <0.098 | ND | <4.9 | <9.9 | <50 | ND | <60 |
| FP-20 | 9.10.19 | C | 14 to 30 | <0.025 | <0.050 | <0.050 | <0.10 | ND | <5.0 | <9.2 | <46 | ND | <60 |

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

ND = Not Detected above the Practical Quantitation Limits or Reporting Limits

NA = Not Analyzed

NE = Not established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics



APPENDIX E

Laboratory Data Sheets & Chain of Custody Documentation



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

May 01, 2019

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

RE: Val Verde Train 7

OrderNo.: 1904C04

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 9 sample(s) on 4/25/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **1904C04**

Date Reported: **5/1/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-1

Project: Val Verde Train 7

Collection Date: 4/24/2019 9:00:00 AM

Lab ID: 1904C04-001

Matrix: SOIL

Received Date: 4/25/2019 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: smb |
| Chloride | ND | 60 | | mg/Kg | 20 | 4/28/2019 3:17:53 PM | 44582 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 4/30/2019 12:09:40 PM | 44544 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 4/30/2019 12:09:40 PM | 44544 |
| Surr: DNOP | 114 | 70-130 | | %Rec | 1 | 4/30/2019 12:09:40 PM | 44544 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 4/26/2019 4:43:27 PM | 44536 |
| Surr: BFB | 88.4 | 73.8-119 | | %Rec | 1 | 4/26/2019 4:43:27 PM | 44536 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/26/2019 4:43:27 PM | 44536 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 4/26/2019 4:43:27 PM | 44536 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 4/26/2019 4:43:27 PM | 44536 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 4/26/2019 4:43:27 PM | 44536 |
| Surr: 4-Bromofluorobenzene | 86.7 | 80-120 | | %Rec | 1 | 4/26/2019 4:43:27 PM | 44536 |

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

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Limit |
| | S % Recovery outside of range due to dilution or matrix | |

Analytical Report

Lab Order **1904C04**

Date Reported: **5/1/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-2

Project: Val Verde Train 7

Collection Date: 4/24/2019 9:05:00 AM

Lab ID: 1904C04-002

Matrix: SOIL

Received Date: 4/25/2019 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: smb |
| Chloride | ND | 60 | | mg/Kg | 20 | 4/28/2019 3:30:17 PM | 44582 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 34 | 9.5 | | mg/Kg | 1 | 4/30/2019 12:34:00 PM | 44544 |
| Motor Oil Range Organics (MRO) | 120 | 48 | | mg/Kg | 1 | 4/30/2019 12:34:00 PM | 44544 |
| Surr: DNOP | 130 | 70-130 | | %Rec | 1 | 4/30/2019 12:34:00 PM | 44544 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 4/26/2019 5:53:31 PM | 44536 |
| Surr: BFB | 88.1 | 73.8-119 | | %Rec | 1 | 4/26/2019 5:53:31 PM | 44536 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 4/26/2019 5:53:31 PM | 44536 |
| Toluene | 0.057 | 0.048 | | mg/Kg | 1 | 4/26/2019 5:53:31 PM | 44536 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 4/26/2019 5:53:31 PM | 44536 |
| Xylenes, Total | 0.12 | 0.096 | | mg/Kg | 1 | 4/26/2019 5:53:31 PM | 44536 |
| Surr: 4-Bromofluorobenzene | 86.3 | 80-120 | | %Rec | 1 | 4/26/2019 5:53:31 PM | 44536 |

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

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Limit |
| | S % Recovery outside of range due to dilution or matrix | |

Analytical Report

Lab Order **1904C04**

Date Reported: 5/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-3

Project: Val Verde Train 7

Collection Date: 4/24/2019 9:10:00 AM

Lab ID: 1904C04-003

Matrix: SOIL

Received Date: 4/25/2019 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: smb |
| Chloride | ND | 60 | | mg/Kg | 20 | 4/28/2019 3:42:41 PM | 44582 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 4/26/2019 7:20:03 PM | 44544 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 4/26/2019 7:20:03 PM | 44544 |
| Surr: DNOP | 121 | 70-130 | | %Rec | 1 | 4/26/2019 7:20:03 PM | 44544 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 4/26/2019 7:03:58 PM | 44536 |
| Surr: BFB | 87.4 | 73.8-119 | | %Rec | 1 | 4/26/2019 7:03:58 PM | 44536 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/26/2019 7:03:58 PM | 44536 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 4/26/2019 7:03:58 PM | 44536 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 4/26/2019 7:03:58 PM | 44536 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 4/26/2019 7:03:58 PM | 44536 |
| Surr: 4-Bromofluorobenzene | 85.9 | 80-120 | | %Rec | 1 | 4/26/2019 7:03:58 PM | 44536 |

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

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Limit |
| | S % Recovery outside of range due to dilution or matrix | |

Analytical Report

Lab Order **1904C04**

Date Reported: 5/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-4

Project: Val Verde Train 7

Collection Date: 4/24/2019 9:15:00 AM

Lab ID: 1904C04-004

Matrix: SOIL

Received Date: 4/25/2019 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: smb |
| Chloride | ND | 60 | | mg/Kg | 20 | 4/28/2019 3:55:05 PM | 44582 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 160 | 96 | | mg/Kg | 10 | 4/26/2019 4:04:35 PM | 44544 |
| Motor Oil Range Organics (MRO) | ND | 480 | | mg/Kg | 10 | 4/26/2019 4:04:35 PM | 44544 |
| Surr: DNOP | 0 | 70-130 | S | %Rec | 10 | 4/26/2019 4:04:35 PM | 44544 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 4/26/2019 7:27:13 PM | 44536 |
| Surr: BFB | 94.9 | 73.8-119 | | %Rec | 1 | 4/26/2019 7:27:13 PM | 44536 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/26/2019 7:27:13 PM | 44536 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 4/26/2019 7:27:13 PM | 44536 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 4/26/2019 7:27:13 PM | 44536 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 4/26/2019 7:27:13 PM | 44536 |
| Surr: 4-Bromofluorobenzene | 95.4 | 80-120 | | %Rec | 1 | 4/26/2019 7:27:13 PM | 44536 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Analytical Report

Lab Order **1904C04**

Date Reported: **5/1/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-5

Project: Val Verde Train 7

Collection Date: 4/24/2019 9:20:00 AM

Lab ID: 1904C04-005

Matrix: SOIL

Received Date: 4/25/2019 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: smb |
| Chloride | ND | 60 | | mg/Kg | 20 | 4/28/2019 4:32:19 PM | 44582 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 9.2 | | mg/Kg | 1 | 4/30/2019 1:22:42 PM | 44544 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 4/30/2019 1:22:42 PM | 44544 |
| Surr: DNOP | 110 | 70-130 | | %Rec | 1 | 4/30/2019 1:22:42 PM | 44544 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 4/26/2019 7:50:32 PM | 44536 |
| Surr: BFB | 90.4 | 73.8-119 | | %Rec | 1 | 4/26/2019 7:50:32 PM | 44536 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/26/2019 7:50:32 PM | 44536 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 4/26/2019 7:50:32 PM | 44536 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 4/26/2019 7:50:32 PM | 44536 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 4/26/2019 7:50:32 PM | 44536 |
| Surr: 4-Bromofluorobenzene | 89.5 | 80-120 | | %Rec | 1 | 4/26/2019 7:50:32 PM | 44536 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Analytical Report

Lab Order **1904C04**

Date Reported: **5/1/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-6

Project: Val Verde Train 7

Collection Date: 4/24/2019 9:25:00 AM

Lab ID: 1904C04-006

Matrix: SOIL

Received Date: 4/25/2019 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: smb |
| Chloride | ND | 60 | | mg/Kg | 20 | 4/28/2019 5:09:33 PM | 44582 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 570 | 98 | | mg/Kg | 10 | 4/26/2019 4:53:15 PM | 44544 |
| Motor Oil Range Organics (MRO) | ND | 490 | | mg/Kg | 10 | 4/26/2019 4:53:15 PM | 44544 |
| Surr: DNOP | 0 | 70-130 | S | %Rec | 10 | 4/26/2019 4:53:15 PM | 44544 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 9.9 | D | mg/Kg | 2 | 4/26/2019 8:13:52 PM | 44536 |
| Surr: BFB | 102 | 73.8-119 | D | %Rec | 2 | 4/26/2019 8:13:52 PM | 44536 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.049 | D | mg/Kg | 2 | 4/26/2019 8:13:52 PM | 44536 |
| Toluene | ND | 0.099 | D | mg/Kg | 2 | 4/26/2019 8:13:52 PM | 44536 |
| Ethylbenzene | ND | 0.099 | D | mg/Kg | 2 | 4/26/2019 8:13:52 PM | 44536 |
| Xylenes, Total | ND | 0.20 | D | mg/Kg | 2 | 4/26/2019 8:13:52 PM | 44536 |
| Surr: 4-Bromofluorobenzene | 90.7 | 80-120 | D | %Rec | 2 | 4/26/2019 8:13:52 PM | 44536 |

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

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Limit |
| | S % Recovery outside of range due to dilution or matrix | |

Analytical Report

Lab Order **1904C04**

Date Reported: **5/1/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-7

Project: Val Verde Train 7

Collection Date: 4/24/2019 9:30:00 AM

Lab ID: 1904C04-007

Matrix: SOIL

Received Date: 4/25/2019 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: smb |
| Chloride | ND | 60 | | mg/Kg | 20 | 4/28/2019 5:21:57 PM | 44582 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 140 | 9.7 | | mg/Kg | 1 | 4/29/2019 10:14:35 AM | 44544 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 4/29/2019 10:14:35 AM | 44544 |
| Surr: DNOP | 103 | 70-130 | | %Rec | 1 | 4/29/2019 10:14:35 AM | 44544 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 4/26/2019 8:37:15 PM | 44536 |
| Surr: BFB | 88.2 | 73.8-119 | | %Rec | 1 | 4/26/2019 8:37:15 PM | 44536 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/26/2019 8:37:15 PM | 44536 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 4/26/2019 8:37:15 PM | 44536 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 4/26/2019 8:37:15 PM | 44536 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 4/26/2019 8:37:15 PM | 44536 |
| Surr: 4-Bromofluorobenzene | 87.8 | 80-120 | | %Rec | 1 | 4/26/2019 8:37:15 PM | 44536 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Analytical Report

Lab Order **1904C04**

Date Reported: 5/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-8

Project: Val Verde Train 7

Collection Date: 4/24/2019 9:35:00 AM

Lab ID: 1904C04-008

Matrix: SOIL

Received Date: 4/25/2019 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: smb |
| Chloride | ND | 60 | | mg/Kg | 20 | 4/28/2019 5:34:21 PM | 44582 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 190 | 99 | | mg/Kg | 10 | 4/26/2019 5:41:58 PM | 44544 |
| Motor Oil Range Organics (MRO) | ND | 500 | | mg/Kg | 10 | 4/26/2019 5:41:58 PM | 44544 |
| Surr: DNOP | 0 | 70-130 | S | %Rec | 10 | 4/26/2019 5:41:58 PM | 44544 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 4/26/2019 9:23:59 PM | 44536 |
| Surr: BFB | 89.9 | 73.8-119 | | %Rec | 1 | 4/26/2019 9:23:59 PM | 44536 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/26/2019 9:23:59 PM | 44536 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 4/26/2019 9:23:59 PM | 44536 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 4/26/2019 9:23:59 PM | 44536 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 4/26/2019 9:23:59 PM | 44536 |
| Surr: 4-Bromofluorobenzene | 88.8 | 80-120 | | %Rec | 1 | 4/26/2019 9:23:59 PM | 44536 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Analytical Report

Lab Order **1904C04**

Date Reported: **5/1/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-9

Project: Val Verde Train 7

Collection Date: 4/24/2019 9:40:00 AM

Lab ID: 1904C04-009

Matrix: SOIL

Received Date: 4/25/2019 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: smb |
| Chloride | ND | 60 | | mg/Kg | 20 | 4/28/2019 5:46:46 PM | 44582 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 760 | 99 | | mg/Kg | 10 | 4/26/2019 6:06:23 PM | 44544 |
| Motor Oil Range Organics (MRO) | ND | 490 | | mg/Kg | 10 | 4/26/2019 6:06:23 PM | 44544 |
| Surr: DNOP | | - | | %Rec | 10 | 4/26/2019 6:06:23 PM | 44544 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 4/26/2019 9:47:22 PM | 44536 |
| Surr: BFB | 87.7 | 73.8-119 | | %Rec | 1 | 4/26/2019 9:47:22 PM | 44536 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 4/26/2019 9:47:22 PM | 44536 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 4/26/2019 9:47:22 PM | 44536 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 4/26/2019 9:47:22 PM | 44536 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 4/26/2019 9:47:22 PM | 44536 |
| Surr: 4-Bromofluorobenzene | 86.6 | 80-120 | | %Rec | 1 | 4/26/2019 9:47:22 PM | 44536 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904C04

01-May-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: MB-44582 | SampType: MBLK | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 44582 | RunNo: 59494 | | | | | | | | |
| Prep Date: 4/28/2019 | Analysis Date: 4/28/2019 | SeqNo: 2004472 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-44582 | SampType: LCS | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 44582 | RunNo: 59494 | | | | | | | | |
| Prep Date: 4/28/2019 | Analysis Date: 4/28/2019 | SeqNo: 2004473 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.5 | 90 | 110 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904C04

01-May-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: LCS-44544 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 44544 | RunNo: 59449 | | | | | | | | |
| Prep Date: 4/25/2019 | Analysis Date: 4/26/2019 | SeqNo: 2002781 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 52 | 10 | 50.00 | 0 | 104 | 63.9 | 124 | | | |
| Surr: DNOP | 4.8 | | 5.000 | | 96.9 | 70 | 130 | | | |

| Sample ID: MB-44544 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 44544 | RunNo: 59449 | | | | | | | | |
| Prep Date: 4/25/2019 | Analysis Date: 4/26/2019 | SeqNo: 2002782 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 14 | | 10.00 | | 144 | 70 | 130 | | | S |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904C04

01-May-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: MB-44536 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 44536 | RunNo: 59464 | | | | | | | | |
| Prep Date: 4/25/2019 | Analysis Date: 4/26/2019 | SeqNo: 2003356 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 870 | | 1000 | | 86.9 | 73.8 | 119 | | | |

| Sample ID: LCS-44536 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 44536 | RunNo: 59464 | | | | | | | | |
| Prep Date: 4/25/2019 | Analysis Date: 4/26/2019 | SeqNo: 2003357 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24 | 5.0 | 25.00 | 0 | 95.1 | 80.1 | 123 | | | |
| Surr: BFB | 1000 | | 1000 | | 103 | 73.8 | 119 | | | |

| Sample ID: 1904C04-001AMS | SampType: MS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|----------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: FP-1 | Batch ID: 44536 | RunNo: 59464 | | | | | | | | |
| Prep Date: 4/25/2019 | Analysis Date: 4/26/2019 | SeqNo: 2003359 | Units: mg/Kg | | | | | | | |
| 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 | 69.1 | 142 | | | |
| Surr: BFB | 950 | | 987.2 | | 96.2 | 73.8 | 119 | | | |

| Sample ID: 1904C04-001AMSD | SampType: MSD | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-----------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: FP-1 | Batch ID: 44536 | RunNo: 59464 | | | | | | | | |
| Prep Date: 4/25/2019 | Analysis Date: 4/26/2019 | SeqNo: 2003360 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 25 | 4.9 | 24.53 | 0 | 101 | 69.1 | 142 | 0.868 | 20 | |
| Surr: BFB | 1000 | | 981.4 | | 101 | 73.8 | 119 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904C04

01-May-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: MB-44536 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 44536 | RunNo: 59464 | | | | | | | | |
| Prep Date: 4/25/2019 | Analysis Date: 4/26/2019 | SeqNo: 2003389 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.86 | | 1.000 | | 86.2 | 80 | 120 | | | |

| Sample ID: LCS-44536 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 44536 | RunNo: 59464 | | | | | | | | |
| Prep Date: 4/25/2019 | Analysis Date: 4/26/2019 | SeqNo: 2003390 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.98 | 0.025 | 1.000 | 0 | 98.3 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 100 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 99.6 | 80 | 120 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 99.8 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.89 | | 1.000 | | 89.2 | 80 | 120 | | | |

| Sample ID: 1904C04-002AMS | SampType: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: FP-2 | Batch ID: 44536 | RunNo: 59464 | | | | | | | | |
| Prep Date: 4/25/2019 | Analysis Date: 4/26/2019 | SeqNo: 2003393 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.96 | 0.025 | 0.9901 | 0.01925 | 95.2 | 63.9 | 127 | | | |
| Toluene | 1.0 | 0.050 | 0.9901 | 0.05669 | 97.4 | 69.9 | 131 | | | |
| Ethylbenzene | 0.98 | 0.050 | 0.9901 | 0.01319 | 97.2 | 71 | 132 | | | |
| Xylenes, Total | 3.0 | 0.099 | 2.970 | 0.1218 | 96.0 | 71.8 | 131 | | | |
| Surr: 4-Bromofluorobenzene | 0.87 | | 0.9901 | | 88.3 | 80 | 120 | | | |

| Sample ID: 1904C04-002AMSD | SampType: MSD | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: FP-2 | Batch ID: 44536 | RunNo: 59464 | | | | | | | | |
| Prep Date: 4/25/2019 | Analysis Date: 4/26/2019 | SeqNo: 2003394 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.98 | 0.025 | 0.9901 | 0.01925 | 96.8 | 63.9 | 127 | 1.59 | 20 | |
| Toluene | 1.1 | 0.050 | 0.9901 | 0.05669 | 101 | 69.9 | 131 | 3.06 | 20 | |
| Ethylbenzene | 0.99 | 0.050 | 0.9901 | 0.01319 | 98.2 | 71 | 132 | 1.06 | 20 | |
| Xylenes, Total | 3.0 | 0.099 | 2.970 | 0.1218 | 96.8 | 71.8 | 131 | 0.746 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.89 | | 0.9901 | | 89.8 | 80 | 120 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975 FAX: 505-345-1107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: ENSOLUM AZTEC Work Order Number: 1904C04 RcptNo: 1

Received By: Anne Thorne 4/25/2019 8:10:00 AM *Anne Thorne*
 Completed By: Anne Thorne 4/25/2019 9:08:10 AM *Anne Thorne*
 Reviewed By: ENM 4/25/19
Labeled by DAD 4/25/19

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. VOA vials have zero headspace? Yes No No VOA Vials
 10. Were any sample containers received broken? Yes No
 11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 12. Are matrices correctly identified on Chain of Custody? Yes No
 13. Is it clear what analyses were requested? Yes No
 14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: DAD 4/25/19

Special Handling (if applicable)

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

| | | | |
|----------------------|-------|-------|---|
| Person Notified: | _____ | Date: | _____ |
| By Whom: | _____ | Via: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | _____ | | |
| Client Instructions: | _____ | | |

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 1.0 | Good | Yes | | | |



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

July 09, 2019

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Val Verde Train 7

OrderNo.: 1906E90

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 6/27/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **1906E90**

Date Reported: **7/9/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-10

Project: Val Verde Train 7

Collection Date: 6/26/2019 9:30:00 AM

Lab ID: 1906E90-001

Matrix: SOIL

Received Date: 6/27/2019 8:25:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: smb |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/1/2019 8:02:35 PM | 45938 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 8.9 | | mg/Kg | 1 | 7/5/2019 12:45:59 PM | 45908 |
| Motor Oil Range Organics (MRO) | ND | 45 | | mg/Kg | 1 | 7/5/2019 12:45:59 PM | 45908 |
| Surr: DNOP | 70.4 | 70-130 | | %Rec | 1 | 7/5/2019 12:45:59 PM | 45908 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/1/2019 4:34:14 PM | 45910 |
| Surr: BFB | 100 | 73.8-119 | | %Rec | 1 | 7/1/2019 4:34:14 PM | 45910 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/1/2019 4:34:14 PM | 45910 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/1/2019 4:34:14 PM | 45910 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/1/2019 4:34:14 PM | 45910 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 7/1/2019 4:34:14 PM | 45910 |
| Surr: 4-Bromofluorobenzene | 93.8 | 80-120 | | %Rec | 1 | 7/1/2019 4:34:14 PM | 45910 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Analytical Report

Lab Order **1906E90**

Date Reported: **7/9/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-11

Project: Val Verde Train 7

Collection Date: 6/26/2019 9:35:00 AM

Lab ID: 1906E90-002

Matrix: SOIL

Received Date: 6/27/2019 8:25:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: smb |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/1/2019 8:48:07 PM | 45943 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 7900 | 98 | | mg/Kg | 10 | 7/1/2019 12:38:15 PM | 45917 |
| Motor Oil Range Organics (MRO) | ND | 490 | | mg/Kg | 10 | 7/1/2019 12:38:15 PM | 45917 |
| Surr: DNOP | 0 | 70-130 | S | %Rec | 10 | 7/1/2019 12:38:15 PM | 45917 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/1/2019 9:50:46 PM | 45910 |
| Surr: BFB | 94.4 | 73.8-119 | | %Rec | 1 | 7/1/2019 9:50:46 PM | 45910 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/1/2019 9:50:46 PM | 45910 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/1/2019 9:50:46 PM | 45910 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/1/2019 9:50:46 PM | 45910 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/1/2019 9:50:46 PM | 45910 |
| Surr: 4-Bromofluorobenzene | 83.5 | 80-120 | | %Rec | 1 | 7/1/2019 9:50:46 PM | 45910 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Analytical Report

Lab Order **1906E90**

Date Reported: **7/9/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-12

Project: Val Verde Train 7

Collection Date: 6/26/2019 9:40:00 AM

Lab ID: 1906E90-003

Matrix: SOIL

Received Date: 6/27/2019 8:25:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: smb |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/1/2019 9:00:31 PM | 45943 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 7/3/2019 2:34:44 PM | 45917 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/3/2019 2:34:44 PM | 45917 |
| Surr: DNOP | 90.4 | 70-130 | | %Rec | 1 | 7/3/2019 2:34:44 PM | 45917 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/1/2019 4:56:54 PM | 45910 |
| Surr: BFB | 99.1 | 73.8-119 | | %Rec | 1 | 7/1/2019 4:56:54 PM | 45910 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/1/2019 4:56:54 PM | 45910 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/1/2019 4:56:54 PM | 45910 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/1/2019 4:56:54 PM | 45910 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/1/2019 4:56:54 PM | 45910 |
| Surr: 4-Bromofluorobenzene | 90.7 | 80-120 | | %Rec | 1 | 7/1/2019 4:56:54 PM | 45910 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Analytical Report

Lab Order **1906E90**

Date Reported: **7/9/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-13

Project: Val Verde Train 7

Collection Date: 6/26/2019 9:45:00 AM

Lab ID: 1906E90-004

Matrix: SOIL

Received Date: 6/27/2019 8:25:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: smb |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/1/2019 9:37:46 PM | 45943 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 7/2/2019 3:50:00 AM | 45917 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/2/2019 3:50:00 AM | 45917 |
| Surr: DNOP | 80.7 | 70-130 | | %Rec | 1 | 7/2/2019 3:50:00 AM | 45917 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/1/2019 5:19:34 PM | 45910 |
| Surr: BFB | 99.8 | 73.8-119 | | %Rec | 1 | 7/1/2019 5:19:34 PM | 45910 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/1/2019 5:19:34 PM | 45910 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/1/2019 5:19:34 PM | 45910 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/1/2019 5:19:34 PM | 45910 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/1/2019 5:19:34 PM | 45910 |
| Surr: 4-Bromofluorobenzene | 94.3 | 80-120 | | %Rec | 1 | 7/1/2019 5:19:34 PM | 45910 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Analytical Report

Lab Order 1906E90

Date Reported: 7/9/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-14

Project: Val Verde Train 7

Collection Date: 6/26/2019 9:50:00 AM

Lab ID: 1906E90-005

Matrix: SOIL

Received Date: 6/27/2019 8:25:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|---------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: smb |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/1/2019 9:50:10 PM | 45943 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 84 | 9.7 | | mg/Kg | 1 | 7/2/2019 4:14:37 AM | 45917 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/2/2019 4:14:37 AM | 45917 |
| Surr: DNOP | 77.5 | 70-130 | | %Rec | 1 | 7/2/2019 4:14:37 AM | 45917 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/1/2019 5:42:13 PM | 45910 |
| Surr: BFB | 101 | 73.8-119 | | %Rec | 1 | 7/1/2019 5:42:13 PM | 45910 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/1/2019 5:42:13 PM | 45910 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/1/2019 5:42:13 PM | 45910 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/1/2019 5:42:13 PM | 45910 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/1/2019 5:42:13 PM | 45910 |
| Surr: 4-Bromofluorobenzene | 94.6 | 80-120 | | %Rec | 1 | 7/1/2019 5:42:13 PM | 45910 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Analytical Report

Lab Order **1906E90**

Date Reported: **7/9/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-15

Project: Val Verde Train 7

Collection Date: 6/26/2019 9:55:00 AM

Lab ID: 1906E90-006

Matrix: SOIL

Received Date: 6/27/2019 8:25:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: smb |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/1/2019 10:02:35 PM | 45943 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 24 | 9.6 | | mg/Kg | 1 | 7/2/2019 4:39:09 AM | 45917 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/2/2019 4:39:09 AM | 45917 |
| Surr: DNOP | 84.6 | 70-130 | | %Rec | 1 | 7/2/2019 4:39:09 AM | 45917 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/1/2019 10:13:42 PM | 45910 |
| Surr: BFB | 98.5 | 73.8-119 | | %Rec | 1 | 7/1/2019 10:13:42 PM | 45910 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/1/2019 10:13:42 PM | 45910 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/1/2019 10:13:42 PM | 45910 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/1/2019 10:13:42 PM | 45910 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/1/2019 10:13:42 PM | 45910 |
| Surr: 4-Bromofluorobenzene | 89.2 | 80-120 | | %Rec | 1 | 7/1/2019 10:13:42 PM | 45910 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Analytical Report

Lab Order **1906E90**

Date Reported: 7/9/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-16

Project: Val Verde Train 7

Collection Date: 6/26/2019 10:00:00 AM

Lab ID: 1906E90-007

Matrix: SOIL

Received Date: 6/27/2019 8:25:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: smb |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/1/2019 10:15:00 PM | 45943 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 84 | 9.2 | | mg/Kg | 1 | 7/2/2019 5:03:41 AM | 45917 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 7/2/2019 5:03:41 AM | 45917 |
| Surr: DNOP | 97.2 | 70-130 | | %Rec | 1 | 7/2/2019 5:03:41 AM | 45917 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/1/2019 10:36:27 PM | 45910 |
| Surr: BFB | 106 | 73.8-119 | | %Rec | 1 | 7/1/2019 10:36:27 PM | 45910 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/1/2019 10:36:27 PM | 45910 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/1/2019 10:36:27 PM | 45910 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/1/2019 10:36:27 PM | 45910 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 7/1/2019 10:36:27 PM | 45910 |
| Surr: 4-Bromofluorobenzene | 97.2 | 80-120 | | %Rec | 1 | 7/1/2019 10:36:27 PM | 45910 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1906E90

09-Jul-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: MB-45943 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|----------------------------|--------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 45943 | RunNo: 61068 | | | | | | | | |
| Prep Date: 7/1/2019 | Analysis Date: 7/1/2019 | SeqNo: 2068978 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-45943 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|--------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 45943 | RunNo: 61068 | | | | | | | | |
| Prep Date: 7/1/2019 | Analysis Date: 7/1/2019 | SeqNo: 2068979 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 94.1 | 90 | 110 | | | |

| Sample ID: MB-45938 | SampType: MBLK | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|----------------------------|--------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 45938 | RunNo: 61084 | | | | | | | | |
| Prep Date: 7/1/2019 | Analysis Date: 7/1/2019 | SeqNo: 2069059 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-45938 | SampType: LCS | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|--------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 45938 | RunNo: 61084 | | | | | | | | |
| Prep Date: 7/1/2019 | Analysis Date: 7/1/2019 | SeqNo: 2069060 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 95.6 | 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 range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1906E90

09-Jul-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: MB-45908 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 45908 | RunNo: 61050 | | | | | | | | |
| Prep Date: 6/28/2019 | Analysis Date: 6/29/2019 | SeqNo: 2067249 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.6 | | 10.00 | | 95.9 | 70 | 130 | | | |

| Sample ID: LCS-45908 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 45908 | RunNo: 61050 | | | | | | | | |
| Prep Date: 6/28/2019 | Analysis Date: 6/29/2019 | SeqNo: 2067252 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 46 | 10 | 50.00 | 0 | 91.0 | 63.9 | 124 | | | |
| Surr: DNOP | 4.3 | | 5.000 | | 85.5 | 70 | 130 | | | |

| Sample ID: LCS-45917 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 45917 | RunNo: 61059 | | | | | | | | |
| Prep Date: 6/29/2019 | Analysis Date: 7/1/2019 | SeqNo: 2068167 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 50 | 10 | 50.00 | 0 | 99.1 | 63.9 | 124 | | | |
| Surr: DNOP | 4.7 | | 5.000 | | 94.3 | 70 | 130 | | | |

| Sample ID: MB-45917 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 45917 | RunNo: 61059 | | | | | | | | |
| Prep Date: 6/29/2019 | Analysis Date: 7/1/2019 | SeqNo: 2068168 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.5 | | 10.00 | | 95.0 | 70 | 130 | | | |

| Sample ID: MB-45975 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|----------------------------|--------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 45975 | RunNo: 61135 | | | | | | | | |
| Prep Date: 7/2/2019 | Analysis Date: 7/3/2019 | SeqNo: 2072210 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 8.5 | | 10.00 | | 84.8 | 70 | 130 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1906E90

09-Jul-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: LCS-45975 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|--------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 45975 | RunNo: 61135 | | | | | | | | |
| Prep Date: 7/2/2019 | Analysis Date: 7/3/2019 | SeqNo: 2072212 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.2 | | 5.000 | | 84.7 | 70 | 130 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1906E90

09-Jul-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: MB-45910 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|--------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 45910 | RunNo: 61078 | | | | | | | | |
| Prep Date: 6/28/2019 | Analysis Date: 7/1/2019 | SeqNo: 2068536 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 950 | | 1000 | | 95.5 | 73.8 | 119 | | | |

| Sample ID: LCS-45910 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|--------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 45910 | RunNo: 61078 | | | | | | | | |
| Prep Date: 6/28/2019 | Analysis Date: 7/1/2019 | SeqNo: 2068537 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24 | 5.0 | 25.00 | 0 | 95.5 | 80.1 | 123 | | | |
| Surr: BFB | 1100 | | 1000 | | 110 | 73.8 | 119 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1906E90

09-Jul-19

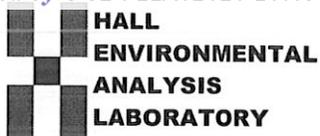
Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: MB-45910 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 45910 | RunNo: 61078 | | | | | | | | |
| Prep Date: 6/28/2019 | Analysis Date: 7/1/2019 | SeqNo: 2068566 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.92 | | 1.000 | | 91.5 | 80 | 120 | | | |

| Sample ID: LCS-45910 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 45910 | RunNo: 61078 | | | | | | | | |
| Prep Date: 6/28/2019 | Analysis Date: 7/1/2019 | SeqNo: 2068567 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.025 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 101 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 101 | 80 | 120 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 97.9 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 106 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: ENSOLUM AZTEC Work Order Number: 1906E90 RcptNo: 1

Received By: Thom Maybee 6/27/2019 8:25:00 AM

Completed By: Leah Baca 6/27/2019 9:37:09 AM

Reviewed By: DAD 6/27/19

Leah Baca

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: 10
6/27/19
Adjusted?
Checked by:

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 4 rows of data.

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 6065 Rio Grande, Suite A
Aztec, NM 87102

Phone #:

email or Fax#: ksummers@ensolum.com

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

Accreditation: Az Compliance
 NELAC Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush

Project Name:
Val Verde Train 7

Project #: see notes

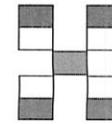
Project Manager: ksummers

Sampler: R Deechilly

On Ice: Yes No

of Coolers: 4 $24 \times 0.2 = 2.6 / 0.4 + 0.2 = 0.6$

Cooler Temp (including CF): 0.6 + 0.2 = 0.8 / 5.5 + 0.25 = 5.7



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. | BTEX / MTBE / TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) | PAHs by 8310 or 8270SIMS | RCRA 8 Metals | Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) | Chlorides |
|----------------|------|--------|-------------|----------------------|-------------------|----------|----------------------------|----------------------------|----------------------------|--------------------|--------------------------|---------------|--|------------|-----------------|---------------------------------|-----------|
| 6/26/19 | 930 | S | FP-10 | 1 4oz Jar | cool | -001 | X | X | | | | | | | | | X |
| 6/26/19 | 935 | S | FP-11 | 1 4oz Jar | cool | -002 | X | X | | | | | | | | | X |
| 6/26/19 | 940 | S | FP-12 | 1 4oz Jar | cool | -003 | X | X | | | | | | | | | X |
| 6/26/19 | 945 | S | FP-13 | 1 4oz Jar | cool | -004 | X | X | | | | | | | | | X |
| 6/26/19 | 950 | S | FP-14 | 1 4oz Jar | cool | -005 | X | X | | | | | | | | | X |
| 6/26/19 | 955 | S | FP-15 | 1 4oz Jar | cool | -006 | X | X | | | | | | | | | X |
| 6/26/19 | 1000 | S | FP-16 | 1 4oz Jar | cool | -007 | X | X | | | | | | | | | X |
| NTS | | | | | | | | | | | | | | | | | |

| | | | | | | |
|----------------------|-------------------|-------------------------------------|---------------------------------|---------------------|----------------------|---------------------------|
| Date: <u>6/26/19</u> | Time: <u>1332</u> | Relinquished by: <u>[Signature]</u> | Received by: <u>[Signature]</u> | Via: _____ | Date: <u>6/26/19</u> | Time: <u>1332</u> |
| Date: <u>4/24/19</u> | Time: <u>1840</u> | Relinquished by: <u>[Signature]</u> | Received by: <u>[Signature]</u> | Via: <u>Courier</u> | Date: _____ | Time: <u>6-27-19 8:25</u> |

Remarks: PM-Tom Long (EPR&D)
Pay Key- TC 25719

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 noted 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

August 14, 2019

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Val Verde Train 7

OrderNo.: 1908424

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/8/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **1908424**

Date Reported: **8/14/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-17

Project: Val Verde Train 7

Collection Date: 8/7/2019 9:30:00 AM

Lab ID: 1908424-001

Matrix: SOIL

Received Date: 8/8/2019 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | ND | 60 | | mg/Kg | 20 | 8/13/2019 4:43:22 PM | 46757 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 3700 | 85 | | mg/Kg | 10 | 8/13/2019 7:51:02 PM | 46728 |
| Motor Oil Range Organics (MRO) | ND | 420 | | mg/Kg | 10 | 8/13/2019 7:51:02 PM | 46728 |
| Surr: DNOP | 0 | 70-130 | S | %Rec | 10 | 8/13/2019 7:51:02 PM | 46728 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 8/10/2019 11:14:11 AM | 46708 |
| Surr: BFB | 99.5 | 77.4-118 | | %Rec | 1 | 8/10/2019 11:14:11 AM | 46708 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 8/10/2019 11:14:11 AM | 46708 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 8/10/2019 11:14:11 AM | 46708 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 8/10/2019 11:14:11 AM | 46708 |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 8/10/2019 11:14:11 AM | 46708 |
| Surr: 4-Bromofluorobenzene | 95.1 | 80-120 | | %Rec | 1 | 8/10/2019 11:14:11 AM | 46708 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908424

14-Aug-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: MB-46757 | SampType: MBLK | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 46757 | RunNo: 62096 | | | | | | | | |
| Prep Date: 8/13/2019 | Analysis Date: 8/13/2019 | SeqNo: 2108091 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-46757 | SampType: LCS | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 46757 | RunNo: 62096 | | | | | | | | |
| Prep Date: 8/13/2019 | Analysis Date: 8/13/2019 | SeqNo: 2108092 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 15 | 1.5 | 15.00 | 0 | 97.0 | 90 | 110 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908424

14-Aug-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: LCS-46750 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 46750 | RunNo: 62090 | | | | | | | | |
| Prep Date: 8/13/2019 | Analysis Date: 8/13/2019 | SeqNo: 2107006 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.9 | | 5.000 | | 97.3 | 70 | 130 | | | |

| Sample ID: MB-46750 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 46750 | RunNo: 62090 | | | | | | | | |
| Prep Date: 8/13/2019 | Analysis Date: 8/13/2019 | SeqNo: 2107007 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 10 | | 10.00 | | 104 | 70 | 130 | | | |

| Sample ID: LCS-46728 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 46728 | RunNo: 62090 | | | | | | | | |
| Prep Date: 8/12/2019 | Analysis Date: 8/13/2019 | SeqNo: 2108302 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 50 | 10 | 50.00 | 0 | 99.8 | 63.9 | 124 | | | |
| Surr: DNOP | 4.3 | | 5.000 | | 85.1 | 70 | 130 | | | |

| Sample ID: MB-46728 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 46728 | RunNo: 62090 | | | | | | | | |
| Prep Date: 8/12/2019 | Analysis Date: 8/13/2019 | SeqNo: 2108305 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.7 | | 10.00 | | 97.2 | 70 | 130 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908424

14-Aug-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: MB-46708 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 46708 | RunNo: 62045 | | | | | | | | |
| Prep Date: 8/9/2019 | Analysis Date: 8/10/2019 | SeqNo: 2105176 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 990 | | 1000 | | 99.2 | 77.4 | 118 | | | |

| Sample ID: LCS-46708 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 46708 | RunNo: 62045 | | | | | | | | |
| Prep Date: 8/9/2019 | Analysis Date: 8/10/2019 | SeqNo: 2105177 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24 | 5.0 | 25.00 | 0 | 95.4 | 80 | 120 | | | |
| Surr: BFB | 1200 | | 1000 | | 116 | 77.4 | 118 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908424

14-Aug-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: MB-46708 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 46708 | RunNo: 62045 | | | | | | | | |
| Prep Date: 8/9/2019 | Analysis Date: 8/10/2019 | SeqNo: 2105203 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.97 | | 1.000 | | 97.2 | 80 | 120 | | | |

| Sample ID: LCS-46708 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 46708 | RunNo: 62045 | | | | | | | | |
| Prep Date: 8/9/2019 | Analysis Date: 8/10/2019 | SeqNo: 2105204 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.97 | 0.025 | 1.000 | 0 | 96.6 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 101 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 104 | 80 | 120 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 104 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 106 | 80 | 120 | | | |

| Sample ID: 1908424-001AMS | SampType: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: FP-17 | Batch ID: 46708 | RunNo: 62045 | | | | | | | | |
| Prep Date: 8/9/2019 | Analysis Date: 8/10/2019 | SeqNo: 2105207 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.89 | 0.023 | 0.9174 | 0 | 96.7 | 63.9 | 127 | | | |
| Toluene | 0.96 | 0.046 | 0.9174 | 0 | 104 | 69.9 | 131 | | | |
| Ethylbenzene | 1.0 | 0.046 | 0.9174 | 0 | 109 | 71 | 132 | | | |
| Xylenes, Total | 3.0 | 0.092 | 2.752 | 0 | 110 | 71.8 | 131 | | | |
| Surr: 4-Bromofluorobenzene | 0.88 | | 0.9174 | | 96.1 | 80 | 120 | | | |

| Sample ID: 1908424-001AMSD | SampType: MSD | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: FP-17 | Batch ID: 46708 | RunNo: 62045 | | | | | | | | |
| Prep Date: 8/9/2019 | Analysis Date: 8/10/2019 | SeqNo: 2105208 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.95 | 0.024 | 0.9615 | 0 | 98.7 | 63.9 | 127 | 6.69 | 20 | |
| Toluene | 1.0 | 0.048 | 0.9615 | 0 | 106 | 69.9 | 131 | 6.45 | 20 | |
| Ethylbenzene | 1.1 | 0.048 | 0.9615 | 0 | 111 | 71 | 132 | 5.94 | 20 | |
| Xylenes, Total | 3.2 | 0.096 | 2.885 | 0 | 111 | 71.8 | 131 | 5.66 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.94 | | 0.9615 | | 97.6 | 80 | 120 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: ENSOLUM AZTEC

Work Order Number: 1908424

RcptNo: 1

Received By: Daniel M.

8/8/2019 8:00:00 AM

Completed By: Erin Melendrez

8/8/2019 9:11:36 AM

Reviewed By: LB

8/9/19

Handwritten signature

Chain of Custody

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

Log In

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

of preserved bottles checked for pH:
Adjusted?
Checked by: YG 8/9/19

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 2 rows of data.



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

September 05, 2019

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Val Verde Train 7

OrderNo.: 1908H37

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/29/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **1908H37**

Date Reported: **9/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-18

Project: Val Verde Train 7

Collection Date: 8/28/2019 9:35:00 AM

Lab ID: 1908H37-001

Matrix: SOIL

Received Date: 8/29/2019 8:15:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: CAS |
| Chloride | ND | 60 | | mg/Kg | 20 | 9/3/2019 12:16:04 PM | 47221 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 120 | 9.3 | | mg/Kg | 1 | 9/3/2019 8:47:32 PM | 47187 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 9/3/2019 8:47:32 PM | 47187 |
| Surr: DNOP | 108 | 70-130 | | %Rec | 1 | 9/3/2019 8:47:32 PM | 47187 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 8/30/2019 1:13:53 PM | 47173 |
| Surr: BFB | 94.0 | 77.4-118 | | %Rec | 1 | 8/30/2019 1:13:53 PM | 47173 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 8/30/2019 1:13:53 PM | 47173 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 8/30/2019 1:13:53 PM | 47173 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 8/30/2019 1:13:53 PM | 47173 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 8/30/2019 1:13:53 PM | 47173 |
| Surr: 4-Bromofluorobenzene | 94.1 | 80-120 | | %Rec | 1 | 8/30/2019 1:13:53 PM | 47173 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908H37

05-Sep-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: MB-47221 | SampType: MBLK | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|----------------------------|--------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 47221 | RunNo: 62605 | | | | | | | | |
| Prep Date: 9/3/2019 | Analysis Date: 9/3/2019 | SeqNo: 2131826 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-47221 | SampType: LCS | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|--------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 47221 | RunNo: 62605 | | | | | | | | |
| Prep Date: 9/3/2019 | Analysis Date: 9/3/2019 | SeqNo: 2131827 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.2 | 90 | 110 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908H37

05-Sep-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: LCS-47187 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 47187 | RunNo: 62625 | | | | | | | | |
| Prep Date: 8/30/2019 | Analysis Date: 9/3/2019 | SeqNo: 2131974 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 52 | 10 | 50.00 | 0 | 104 | 63.9 | 124 | | | |
| Surr: DNOP | 4.8 | | 5.000 | | 95.3 | 70 | 130 | | | |

| Sample ID: MB-47187 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 47187 | RunNo: 62625 | | | | | | | | |
| Prep Date: 8/30/2019 | Analysis Date: 9/3/2019 | SeqNo: 2131975 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 12 | | 10.00 | | 116 | 70 | 130 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908H37

05-Sep-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: MB-47173 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 47173 | RunNo: 62566 | | | | | | | | |
| Prep Date: 8/29/2019 | Analysis Date: 8/30/2019 | SeqNo: 2129020 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 910 | | 1000 | | 90.9 | 77.4 | 118 | | | |

| Sample ID: LCS-47173 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 47173 | RunNo: 62566 | | | | | | | | |
| Prep Date: 8/29/2019 | Analysis Date: 8/30/2019 | SeqNo: 2129021 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 5.0 | 25.00 | 0 | 86.0 | 80 | 120 | | | |
| Surr: BFB | 1000 | | 1000 | | 100 | 77.4 | 118 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908H37

05-Sep-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: MB-47173 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 47173 | RunNo: 62566 | | | | | | | | |
| Prep Date: 8/29/2019 | Analysis Date: 8/30/2019 | SeqNo: 2129059 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.92 | | 1.000 | | 92.0 | 80 | 120 | | | |

| Sample ID: LCS-47173 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 47173 | RunNo: 62566 | | | | | | | | |
| Prep Date: 8/29/2019 | Analysis Date: 8/30/2019 | SeqNo: 2129060 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.025 | 1.000 | 0 | 100 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 103 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 104 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.95 | | 1.000 | | 95.3 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: ENSOLUM AZTEC Work Order Number: 1908H37 RcptNo: 1

Received By: Desiree Dominguez

8/29/19 8:15am TC 9/2/19
8/29/2019 12:40:00 PM

Completed By: Yazmine Garduno

8/29/2019 9:16:04 AM

Reviewed By: JC 8/29/19

Chain of Custody

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

2. How was the sample delivered? Courier

Log In

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

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

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

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

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

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

9. VOA vials have zero headspace? Yes [] No [] No VOA Vials [checked]

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

11. Does paperwork match bottle labels? Yes [checked] No []

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

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

14. Were all holding times able to be met? Yes [checked] No []

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: DAD 8/29/19

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 3.0, Good, [], [], []



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

September 20, 2019

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Val Verde Train 7

OrderNo.: 1909535

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/11/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **1909535**

Date Reported: **9/20/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-19

Project: Val Verde Train 7

Collection Date: 9/10/2019 1:20:00 PM

Lab ID: 1909535-001

Matrix: SOIL

Received Date: 9/11/2019 9:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 60 | | mg/Kg | 20 | 9/18/2019 9:57:24 AM | 47536 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 9/13/2019 4:14:34 PM | 47446 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 9/13/2019 4:14:34 PM | 47446 |
| Surr: DNOP | 96.3 | 70-130 | | %Rec | 1 | 9/13/2019 4:14:34 PM | 47446 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 9/12/2019 10:41:27 PM | 47421 |
| Surr: BFB | 108 | 77.4-118 | | %Rec | 1 | 9/12/2019 10:41:27 PM | 47421 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 9/12/2019 10:41:27 PM | 47421 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 9/12/2019 10:41:27 PM | 47421 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 9/12/2019 10:41:27 PM | 47421 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 9/12/2019 10:41:27 PM | 47421 |
| Surr: 4-Bromofluorobenzene | 97.4 | 80-120 | | %Rec | 1 | 9/12/2019 10:41:27 PM | 47421 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

Analytical Report

Lab Order **1909535**

Date Reported: **9/20/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: FP-20

Project: Val Verde Train 7

Collection Date: 9/10/2019 1:25:00 PM

Lab ID: 1909535-002

Matrix: SOIL

Received Date: 9/11/2019 9:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | ND | 60 | | mg/Kg | 20 | 9/18/2019 12:26:19 PM | 47536 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | ND | 9.2 | | mg/Kg | 1 | 9/18/2019 11:58:52 AM | 47528 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 9/18/2019 11:58:52 AM | 47528 |
| Surr: DNOP | 96.4 | 70-130 | | %Rec | 1 | 9/18/2019 11:58:52 AM | 47528 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 9/12/2019 11:04:26 PM | 47421 |
| Surr: BFB | 103 | 77.4-118 | | %Rec | 1 | 9/12/2019 11:04:26 PM | 47421 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 9/12/2019 11:04:26 PM | 47421 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 9/12/2019 11:04:26 PM | 47421 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 9/12/2019 11:04:26 PM | 47421 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 9/12/2019 11:04:26 PM | 47421 |
| Surr: 4-Bromofluorobenzene | 92.5 | 80-120 | | %Rec | 1 | 9/12/2019 11:04:26 PM | 47421 |

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

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Limit |
| | S | % Recovery outside of range due to dilution or matrix | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1909535

20-Sep-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: MB-47536 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 47536 | RunNo: 63022 | | | | | | | | |
| Prep Date: 9/17/2019 | Analysis Date: 9/18/2019 | SeqNo: 2149060 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-47536 | SampType: ics | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 47536 | RunNo: 63022 | | | | | | | | |
| Prep Date: 9/17/2019 | Analysis Date: 9/18/2019 | SeqNo: 2149061 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 15 | 1.5 | 15.00 | 0 | 97.1 | 90 | 110 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1909535

20-Sep-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: LCS-47446 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 47446 | RunNo: 62893 | | | | | | | | |
| Prep Date: 9/12/2019 | Analysis Date: 9/13/2019 | SeqNo: 2143741 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 58 | 10 | 50.00 | 0 | 117 | 63.9 | 124 | | | |
| Surr: DNOP | 5.6 | | 5.000 | | 112 | 70 | 130 | | | |

| Sample ID: MB-47446 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 47446 | RunNo: 62893 | | | | | | | | |
| Prep Date: 9/12/2019 | Analysis Date: 9/13/2019 | SeqNo: 2143742 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 12 | | 10.00 | | 118 | 70 | 130 | | | |

| Sample ID: MB-47528 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 47528 | RunNo: 63012 | | | | | | | | |
| Prep Date: 9/17/2019 | Analysis Date: 9/18/2019 | SeqNo: 2148617 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 12 | | 10.00 | | 115 | 70 | 130 | | | |

| Sample ID: LCS-47528 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 47528 | RunNo: 63007 | | | | | | | | |
| Prep Date: 9/17/2019 | Analysis Date: 9/18/2019 | SeqNo: 2148618 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 63 | 10 | 50.00 | 0 | 127 | 63.9 | 124 | | | S |
| Surr: DNOP | 6.7 | | 5.000 | | 133 | 70 | 130 | | | S |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1909535

20-Sep-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: MB-47421 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 47421 | RunNo: 62879 | | | | | | | | |
| Prep Date: 9/11/2019 | Analysis Date: 9/12/2019 | SeqNo: 2142846 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 960 | | 1000 | | 96.4 | 77.4 | 118 | | | |

| Sample ID: LCS-47421 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 47421 | RunNo: 62879 | | | | | | | | |
| Prep Date: 9/11/2019 | Analysis Date: 9/12/2019 | SeqNo: 2142847 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24 | 5.0 | 25.00 | 0 | 94.3 | 80 | 120 | | | |
| Surr: BFB | 1200 | | 1000 | | 118 | 77.4 | 118 | | | S |

| Sample ID: MB-47445 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-----------------------------|---------------------------------|---|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 47445 | RunNo: 62922 | | | | | | | | |
| Prep Date: 9/12/2019 | Analysis Date: 9/13/2019 | SeqNo: 2144336 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 950 | | 1000 | | 95.3 | 77.4 | 118 | | | |

| Sample ID: LCS-47445 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
|-----------------------------|---------------------------------|---|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 47445 | RunNo: 62922 | | | | | | | | |
| Prep Date: 9/12/2019 | Analysis Date: 9/13/2019 | SeqNo: 2144337 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 1100 | | 1000 | | 112 | 77.4 | 118 | | | |

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1909535

20-Sep-19

Client: ENSOLUM
Project: Val Verde Train 7

| Sample ID: MB-47421 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 47421 | RunNo: 62879 | | | | | | | | |
| Prep Date: 9/11/2019 | Analysis Date: 9/12/2019 | SeqNo: 2142874 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.86 | | 1.000 | | 86.0 | 80 | 120 | | | |

| Sample ID: LCS-47421 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 47421 | RunNo: 62879 | | | | | | | | |
| Prep Date: 9/11/2019 | Analysis Date: 9/12/2019 | SeqNo: 2142875 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.95 | 0.025 | 1.000 | 0 | 95.2 | 80 | 120 | | | |
| Toluene | 0.99 | 0.050 | 1.000 | 0 | 99.2 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 101 | 80 | 120 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 98.0 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.93 | | 1.000 | | 93.4 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: ENSOLUM AZTEC

Work Order Number: 1909535

RcptNo: 1

Received By: Leah Baca

9/11/2019 9:50:00 AM

Leah Baca

Completed By: Anne Thorne

9/11/2019 10:35:15 AM

Anne Thorne

Reviewed By: [Signature]

9/11/19

Chain of Custody

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

2. How was the sample delivered? Courier

Log In

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

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

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

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

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

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

9. VOA vials have zero headspace? Yes [] No [] No VOA Vials [checked]

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

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

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

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

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

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: AT 09/11/19

Special Handling (if applicable)

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

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

16. Additional remarks: custody seals intact on sal jaw AT 09/11/19

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 5.7, Good, Yes, [], [], []

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 11083

CONDITIONS

| | |
|---|---|
| Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210 | OGRID: 241602 |
| | Action Number: 11083 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| nvelez | None | 5/19/2022 |