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

State of New Mexico Energy Minerals and Natural Resources Department

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

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

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

Release Notification

| Responsible Party | | | | | | | | | | |
|--|---|-------------------------------------|--------------------------------------|---------|-------------|---|--|--|--|--|
| Responsible Party: Enterprise Field Services, LLC | | | | | OGRID: 1 | : 151618 | | | | |
| Contact Name: Thomas Long Cont | | | | | Contact Te | elephone: 505-599-2286 | | | | |
| Contact ema | Contact email:tjlong@eprod.com Incider | | | | | # (assigned by OCD): NCS1932548346 | | | | |
| Contact mailing address: 614 Reilly Ave, Farmington, NM 87401 | | | | | | | | | | |
| | Location of Release Source | | | | | | | | | |
| Latitude 36.7 | 6202 | | Longitude <u>-1</u> | .07.77 | 785 | (NAD 83 in decimal degrees to 5 decimal places) | | | | |
| Lavato GC |) #1) | 0#1 (Initial C-14 ⁻ | I had site name | as | Site Type N | latural Gas Gathering Pipeline | | | | |
| Date Release Discovered: 10/31/2019 Se | | | | | Serial Num | ber (if applicable): NA | | | | |
| Unit Letter | Section | Township | Range | | County | | | | | |
| P | 33 | 30N | 9W | | San Juan | | | | | |
| Surface Owner | | Federal Tr | Nature and | l Vol | ume of F | * | | | | |
| Crude Oil | | Volume Release | | | | Volume Recovered (bbls) | | | | |
| Produced | Water | Volume Release | d (bbls) | | | Volume Recovered (bbls) | | | | |
| | | Is the concentrate produced water > | ion of dissolved cl >10,000 mg/l? | hloride | in the | ☐ Yes ☐ No | | | | |
| Condensa Condensa | te | Volume Release | d (bbls): 5-10 bb | ls | | Volume Recovered (bbls): None | | | | |
| Natural G | as | Volume Release | d (Mcf): 2.31 MC | CF | | Volume Recovered (Mcf): None | | | | |
| Other (des | scribe) | Volume/Weight | Released (provide | units) | : | Volume/Weight Recovered (provide units) | | | | |
| not confirmed on the groun remediation N 13 feet deep | Cause of Release: On October 31, 2019, Enterprise suspected release of natural gas on the Lavato GC D#1 pipeline. The release was not confirmed until November 6, 2019. The release is located in an ephemeral wash (blue line on a USGS Topo). No fluids were observed on the ground surface. The pipeline was isolated, depressurized, locked out and tagged out. Enterprise completed the repairs and remediation November 8, 2019. The final excavation dimensions measured approximately 50 feet long by 16 feet wide by approximately 13 feet deep. Approximately 156 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. | | | | | | | | | |

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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 | ng 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 Date: 3/5/2000 Telephone: (713) 381-6684 | | | | | | | | | | |
| OCD Only | | | | | | | | | | |
| Received by: | Date: | | | | | | | | | |
| Closure approval by the OCD does not relieve the responsible pa remediate contamination that poses a threat to groundwater, surfa party of compliance with any other federal, state, or local laws an | rty of liability should their operations have failed to adequately investigate and ce water, human health, or the environment nor does not relieve the responsible nd/or regulations. | | | | | | | | | |
| Closure Approved by: | Date: 6/16/2020 | | | | | | | | | |
| Printed Name: Cory Smith | Title: Environmental Specialist | | | | | | | | | |
| | | | | | | | | | | |



CLOSURE REPORT

Property:

Lobato GC D#1 Pipeline Release SE ¼, S33 T30N R9W San Juan County, New Mexico

December 9, 2019 Ensolum Project No. 05A1226079

Prepared for:

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

Prepared by:

Ranee Deechilly Environmental Scientist

Kyle Summers, CPG Sr. Project Manager

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| 3.0 | SOIL REM | SOIL REMEDIATION ACTIVITIES | | | | | | | | | | |
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CLOSURE REPORT

Lobato GC D#1 Pipeline Release SE ¼, S33 T30N R9W San Juan County, New Mexico

Ensolum Project No. 05A1226079

1.0 INTRODUCTION

1.1 Site Description & Background

| Operator: | Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise) |
|-------------|--|
| Site Name: | Lobato GC D#1 Pipeline Release (Site) |
| Location: | 36.76202° North, 107.77785° West Southeast (SE) ¼ of Section 33, Township 30 North, Range 9 West San Juan County, New Mexico |
| Property: | Private Land |
| Regulatory: | New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) |

On October 31, 2019, a release of natural gas was identified on the Lobato GC D#1 pipeline. Enterprise verified the release and subsequently isolated and locked the pipeline out of service. On November 4, 2019, Enterprise initiated activities to facilitate the repair of the pipeline and remediate potential 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 exempt oil and gas releases, 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.

 Several points of diversion (POD) were identified within a one-half mile radius of the Site in the OSE Water Rights Reporting System (WRRS) database. Based on POD records, the nearest water well (POD SJ 02092) appears to be located approximately 260 feet northwest of the Site with a depth to water of 15 feet below grade surface (bgs).



- No cathodic-protection wells were identified within one-half mile of the Site.
- The Site is located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse. The excavation is located in the center of an unnamed ephemeral wash.
- The Site is not located within 200 feet of a lakebed, sinkhole or playa lake.
- The Site is located within 300 feet of a permanent residence, school, hospital, institution or church.
 The nearest permanent residence is located approximately 290 feet northwest of the Site excavation.
- Based on information identified in the OSE WRRS database there is a private domestic fresh water well used by less than five (5) households for domestic or stock watering purposes identified within 500 feet of the Site.
- Based on information identified in the OSE WRRS database there is a fresh water well identified within 1,000 feet of the Site as declared in the previous bullet.
- 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 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 CI 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 | | | | | | | |

3.0 SOIL REMEDIATION ACTIVITIES

On November 4, 2019, Enterprise initiated activities to facilitate the repair of the pipeline and remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities Halo Services, Inc. provided heavy equipment and labor support, while Ensolum provided environmental consulting support.



The final excavation measured approximately 50 feet long and 16 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 13 feet bgs.

The lithology encountered during the completion of remediation activities consisted primarily of unconsolidated silty sand and sand.

A total of approximately 156 cubic yards of petroleum hydrocarbon affected soils and 105 barrels (bbls) of hydro-excavation soil cuttings and water 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 excavation was backfilled with a combination of imported fill and segregated, laboratory-confirmed, stockpiled soils, and then contoured to match the surrounding grade.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the 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 calibrated Dexsil PetroFLAG® hydrocarbon analyzer system and a photoionization detector (PID) fitted with a 10.6 eV lamp to guide excavation extents.

Ensolum's soil sampling program included the collection of 18 composite soil samples (S-1 through S-18) comprised of five (5) aliquots each, from the excavation for laboratory analysis. In addition, five (5) stockpiled soil samples (SP-1 through SP-5), consisting of five (5) aliquots each, were collected from the soils that were segregated for potential reuse to determine if the material was suitable to remain on-Site. 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, although a New Mexico EMNRD OCD representative was not on Site. A New Mexico EMNRD OCD visited the Site after the sampling activities were complete.

First Sampling Event

Composite soil sample S-1 (0'-9') was collected from the east sidewall of the remediation excavation prior to further extension to the east to accommodate pipeline repairs.

Second Sampling Event

Composite soil samples S-2 (0'-9'), S-3 (0'-9'), S-4 (0'-9'), S-5 (0'-9'), S-6 (0'-9'), S-7 (0'-9'), S-8 (0'-9'), S-9 (0'-9'), and S-10 (0'-9') were collected from the sidewalls of the remediation excavation. Composite soil samples S-11 (9'), S-12 (9'), S-13 (9'), and S-14 (9') were collected from the floor of the remediation excavation. Subsequent analytical results identified data exceedances above the New Mexico EMNRD OCD closure standard for composite soil sample S-13. In response to the data exceedance, the excavation was deepened. Soils associated with composite soil sample S-13 were removed from the Site.

Third Sampling Event

Subsequent the deepening of the excavation, a third sampling event was performed. Composite soil sample S-15 (9'-13') was collected from a combination of the south sidewall and east and west short walls beneath the pipeline. Composite soil sample S-16 (9'-13') was collected from a combination of the north sidewall and east and west short walls beneath the pipeline. Composite soil samples S-17 (13') and S-18 (13') were collected from the floor of the central portion of the remediation excavation to replace composite soil sample S-13 after the affected material had been removed.

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 chainof-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 (S-1 through S-12, S-14 through S-18, SP-1, SP-2, SP-4, and SP-5) 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 S-13 and SP-3 were transported to Envirotech landfarm for disposal/remediation and are not included in the following discussion.

- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the 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 at 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 the composite soil samples indicate combined TPH GRO/DRO/MRO concentrations ranging from non-detect to 85 mg/kg (SP-4), 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 at 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 REVEGETATION

The excavation was backfilled with a combination of imported fill and segregated, laboratory-confirmed stockpiled soils, and was then contoured to match the surrounding grade.



8.0 FINDINGS AND RECOMMENDATION

On October 31, 2019, a release of natural gas was identified on the Lobato GC D#1 pipeline. Enterprise verified the release and subsequently isolated and locked the pipeline out of service. On November 4, 2019, Enterprise initiated activities to facilitate the repair of the pipeline and remediate potential 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 23 composite soil samples were collected from the walls and floor of the excavation and segregated stockpiled soils for laboratory analyses. Based on laboratory analytical results, soils remaining in place do not exhibit COC concentrations above the New Mexico EMNRD OCD closure criteria.
- A total of approximately 156 cubic yards of petroleum hydrocarbon affected soils and 105 bbls of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation. The excavation was backfilled with a combination of imported fill and segregated, laboratory-confirmed stockpiled soils, and was then contoured to surrounding grade.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the 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,

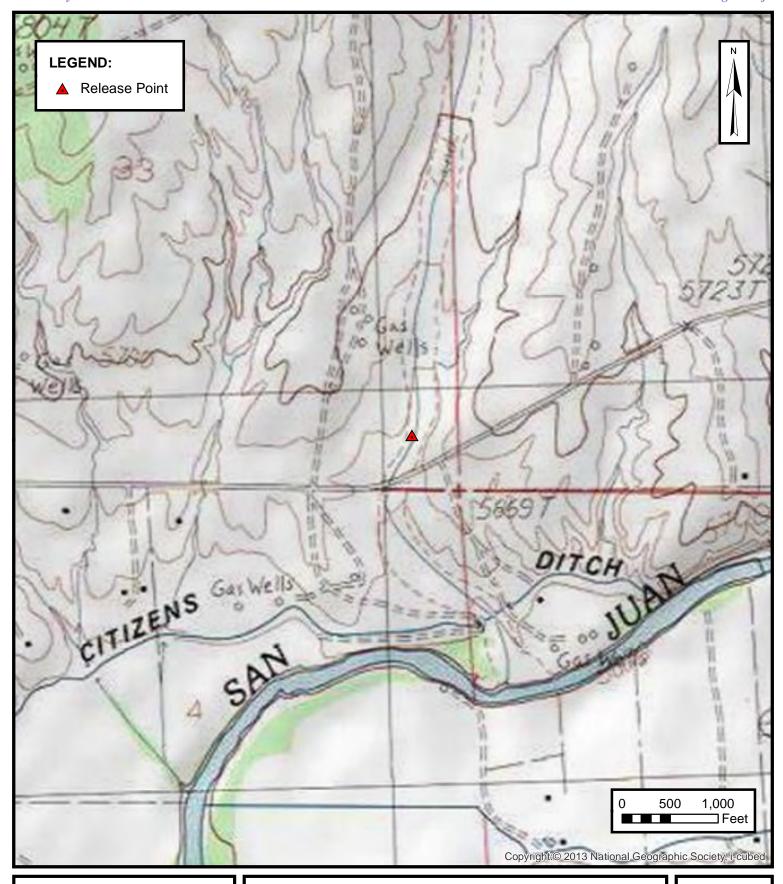


reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Closure Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



APPENDIX A

Figures





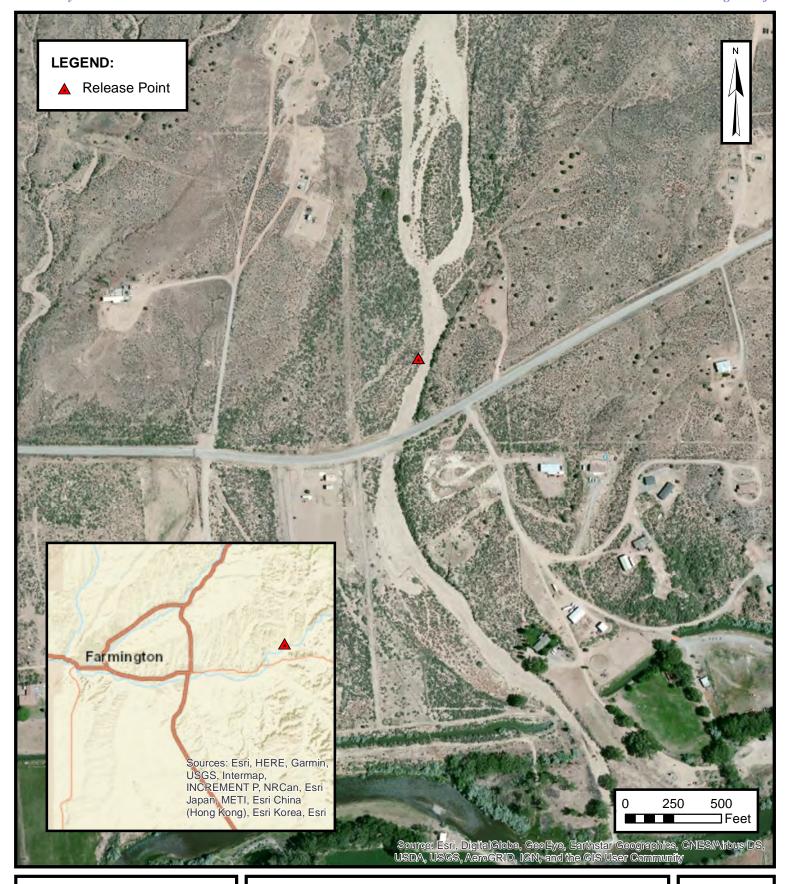
TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC LOBATO GC D#1 PIPELINE RELEASE SE ¼, S33 T30N R9W, San Juan County, New Mexico 36.76202° N, 107.77785° W

PROJECT NUMBER: 05A1226079

FIGURE

1





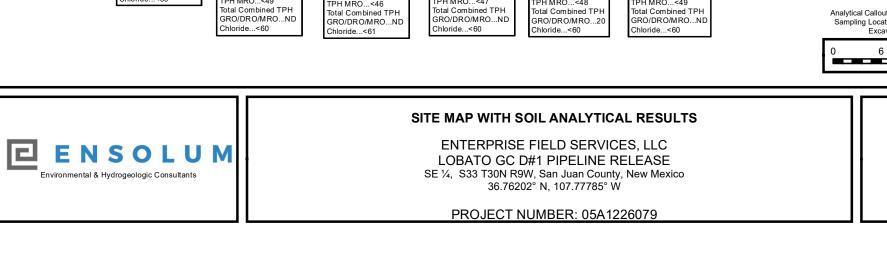
SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC LOBATO GC D#1 PIPELINE RELEASE SE ¼, S33 T30N R9W, San Juan County, New Mexico 36.76202° N, 107.77785° W

PROJECT NUMBER: 05A1226079

FIGURE

2





APPENDIX B

Executed C-138 Solid Waste Acceptance Form

District 1
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

97057-1046

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 WASTI |
|--|
|--|

| | 1 2 3 1 1 1 1 2 1 2 1 |
|---|--|
| 1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401 | |
| 2. Originating Site: Lavato GC D#1 | AFE: Pending PM: ME Eddleman Pay Key: RB21200 |
| 2. Location of Material (Street Address, City, State or ULSTR): UL P Section 33 T30N R9W; 36.76202, -107.77785 | Nov. 2019 |
| 4. Source and Description of Waste: Source: Hydrocarbon contaminated soil/sludge associated with remediation activiti Description: Hydrocarbon contaminated soil/sludge associated with remediation act Estimated Volume 50 yd bbls Known Volume (to be entered by the operator at the | ivities from a natural gas pipeline release. e end of the haul) 156/105 yd³/bbls |
| 5. GENERATOR CERTIFICATION STATEMENT OF | WASTE STATUS |
| I, Thomas Long, representative or authorized agent for Enterprise Products Oper Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the Uregulatory determination, the above described waste is: (Check the appropriate classification) | S Environmental Protection Agency's July 1988 |
| | duction operations and are not mixed with non- Meekly Per Load |
| RCRA Non-Exempt: Oil field waste which is non-hazardous that does not excee characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed has subpart D, as amended. The following documentation is attached to demonstrate the the appropriate items) | zardous waste as defined in 40 CFR, part 261. |
| ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge | Other (Provide description in Box 4) |
| GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STAT | TEMENT FOR LANDFARMS |
| I, Thomas Long 10-31-19, representative for Enterprise Products Operating auth Generator Signature the required testing/sign the Generator Waste Testing Certification. I, Contract of Environments applicable to the paint filter test and have been found to conform to the specific requirements applicable to landfarms pursuant of the representative samples are attached to demonstrate the above-described waste conference of the conference of | do hereby certify that d tested for chloride content and that the samples to Section 15 of 19.15.36 NMAC. The results |
| 5. Transporter: TBD Halo, 3D Services, Peterrera, R: OCD Permitted Surface Waste Management Facility | lay |
| 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 Waste Acceptance Status: | Landfill Other IED (Must Be Maintained As Permanent Record) Officering Control DATE: 1)/1/39 1: 505-632-0615 |
| | |



APPENDIX C

Photographic Documentation

SITE PHOTOGRAPHS

Enterprise Field Services, LLC Closure Report Lobato GC D#1 Pipeline Release Ensolum Project No. 05A1226079



Photograph 1

Photograph Description: View of in-process excavation activities.



Photograph 2

Photograph Description: View of in-process excavation.



Photograph 3

Photograph Description: View of the initial excavation.



SITE PHOTOGRAPHS

Enterprise Field Services, LLC Closure Report Lobato GC D#1 Pipeline Release Ensolum Project No. 05A1226079



Photograph 4

Photograph Description: View of the initial excavation and replaced pipeline.



Photograph 5

Photograph Description: View of the final excavation at the release area.



Photograph 6

Photograph Description: View of final excavation after initial restoration.





APPENDIX D

Table 1 – Soil Analytical Summary



TABLE 1 Lobato GC D#1 Pipeline Release SOIL ANALYTICAL SUMMARY

| Sample I.D. | Date | Sample Type | Sample Depth | Benzene | Toluene | Ethylbenzene | Xylenes | Total BTEX | TPH | ТРН | ТРН | Total Combined | Chloride |
|--|---|--------------------------|--------------|---------|---------|----------------|---------------------|------------|---------|---------|---------|----------------|----------|
| | | C- Composite G - Grab | (Feet) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | GRO | DRO | MRO | TPH | (mg/kg) |
| | | C Giub | | | | | | | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | |
| | • | Natural Resources | | 10 | NE | NE | NE | 50 | | | | 100 | 600 |
| Composite Soil Samples Removed by Excavation | | | | | | | | | | | | | |
| SP-3 | 11.06.19 | С | Stockpile | <0.086 | <0.17 | <0.17 | 0.47 | 0.47 | <17 | 870 | 210 | 1,080 | <60 |
| S-13 | 11.06.19 | С | 9 | 0.89 | 4.9 | 0.73 | 11 | 18 | 170 | 15,000 | 3,100 | 18,270 | <60 |
| | | | | | | Stockpile | Soil Sample | | | | | | |
| SP-1 | 11.06.19 | С | Stockpile | <0.017 | <0.034 | <0.034 | <0.067 | ND | <3.4 | <9.6 | <48 | ND | <60 |
| SP-2 | 11.06.19 | С | Stockpile | <0.017 | <0.035 | <0.035 | <0.069 | ND | <3.5 | <9.8 | <49 | ND | <59 |
| SP-4 | 11.06.19 | С | Stockpile | <0.017 | <0.034 | <0.034 | <0.068 | ND | <3.4 | 85 | <49 | 85 | <60 |
| SP-5 | 11.06.19 | С | Stockpile | <0.017 | <0.035 | < 0.035 | <0.069 | ND | <3.5 | 38 | <48 | 38 | <59 |
| | | | | | | Excavation Com | oosite Soil Sample: | s | | | | | |
| S-1 | 11.05.19 | С | 0 to 9 | <0.017 | <0.035 | <0.035 | <0.070 | ND | <3.5 | 10 | <49 | 10 | <60 |
| S-2 | 11.06.19 | С | 0 to 9 | <0.019 | <0.038 | <0.038 | <0.075 | ND | <3.8 | <9.7 | <49 | ND | <60 |
| S-3 | 11.06.19 | С | 0 to 9 | <0.017 | <0.033 | < 0.033 | <0.066 | ND | <3.3 | <9.7 | <48 | ND | <60 |
| S-4 | 11.06.19 | С | 0 to 9 | <0.017 | <0.034 | <0.034 | <0.067 | ND | <3.4 | <9.6 | <48 | ND | <60 |
| S-5 | 11.06.19 | С | 0 to 9 | <0.017 | <0.035 | < 0.035 | <0.069 | ND | <3.5 | <9.8 | <49 | ND | <60 |
| S-6 | 11.06.19 | С | 0 to 9 | <0.017 | <0.034 | <0.034 | <0.068 | ND | <3.4 | <9.7 | <49 | ND | <60 |
| S-7 | 11.06.19 | С | 0 to 9 | <0.017 | <0.033 | <0.033 | <0.067 | ND | <3.3 | <9.2 | <46 | ND | <60 |
| S-8 | 11.06.19 | С | 0 to 9 | <0.017 | <0.034 | <0.034 | <0.068 | ND | <3.4 | <9.1 | <46 | ND | <61 |
| S-9 | 11.06.19 | С | 0 to 9 | <0.083 | <0.17 | <0.17 | < 0.33 | ND | <17 | 20 | <48 | 20 | <60 |
| S-10 | 11.06.19 | С | 0 to 9 | <0.083 | <0.17 | <0.17 | <0.33 | ND | <17 | <9.8 | <49 | ND | <60 |
| S-11 | 11.06.19 | С | 9 | <0.017 | < 0.033 | < 0.033 | <0.067 | ND | <3.3 | <9.4 | <47 | ND | <60 |
| S-12 | 11.06.19 | С | 9 | <0.016 | <0.033 | < 0.033 | <0.065 | ND | <3.3 | <9.8 | <49 | ND | <60 |
| S-14 | 11.06.19 | С | 9 | <0.017 | <0.035 | <0.035 | <0.069 | ND | <3.5 | 25 | <47 | 25 | <60 |
| S-15 | 11.08.19 | С | 9 to 13 | <0.017 | <0.034 | <0.034 | <0.068 | ND | <3.4 | <9.5 | <47 | ND | <60 |
| S-16 | 11.08.19 | С | 9 to 13 | <0.019 | <0.038 | <0.038 | <0.076 | ND | <3.8 | <9.3 | <47 | ND | <60 |
| S-17 | 11.08.19 | С | 13 | <0.019 | <0.038 | <0.038 | <0.075 | ND | <3.8 | 11 | <49 | ND | <60 |
| S-18 | 11.08.19 | С | 13 | <0.018 | <0.037 | <0.037 | <0.073 | ND | <3.7 | <9.7 | <49 | 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

November 11, 2019

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

FAX

RE: Lobato GC D1 OrderNo.: 1911239

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/7/2019 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,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1911239

Date Reported: 11/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SP-1

 Project:
 Lobato GC D1
 Collection Date: 11/6/2019 12:00:00 PM

 Lab ID:
 1911239-001
 Matrix: MEOH (SOIL)
 Received Date: 11/7/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : CJS |
| Chloride | ND | 60 | mg/Kg | 20 | 11/7/2019 11:20:27 AM | 48646 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | CLP |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 11/7/2019 10:57:14 AM | 48642 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 11/7/2019 10:57:14 AM | 48642 |
| Surr: DNOP | 92.9 | 70-130 | %Rec | 1 | 11/7/2019 10:57:14 AM | 48642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 3.4 | mg/Kg | 1 | 11/7/2019 10:03:30 AM | G64315 |
| Surr: BFB | 96.0 | 77.4-118 | %Rec | 1 | 11/7/2019 10:03:30 AM | G64315 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.017 | mg/Kg | 1 | 11/7/2019 10:03:30 AM | B64315 |
| Toluene | ND | 0.034 | mg/Kg | 1 | 11/7/2019 10:03:30 AM | B64315 |
| Ethylbenzene | ND | 0.034 | mg/Kg | 1 | 11/7/2019 10:03:30 AM | B64315 |
| Xylenes, Total | ND | 0.067 | mg/Kg | 1 | 11/7/2019 10:03:30 AM | B64315 |
| Surr: 4-Bromofluorobenzene | 94.8 | 80-120 | %Rec | 1 | 11/7/2019 10:03:30 AM | B64315 |

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 10

Surr: 4-Bromofluorobenzene

Analytical Report

Lab Order **1911239**Date Reported: **11/11/2019**

11/7/2019 10:26:25 AM B64315

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SP-2

 Project:
 Lobato GC D1
 Collection Date: 11/6/2019 12:05:00 PM

 Lab ID:
 1911239-002
 Matrix: MEOH (SOIL)
 Received Date: 11/7/2019 8:00:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: CJS Chloride ND 59 mg/Kg 11/7/2019 11:32:51 AM 48646 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 9.8 mg/Kg 11/7/2019 11:20:51 AM 48642 Motor Oil Range Organics (MRO) ND 11/7/2019 11:20:51 AM 48642 49 mg/Kg 1 Surr: DNOP 93.2 11/7/2019 11:20:51 AM 48642 70-130 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 11/7/2019 10:26:25 AM G64315 Gasoline Range Organics (GRO) ND 3.5 mg/Kg Surr: BFB 96.0 %Rec 11/7/2019 10:26:25 AM G64315 77.4-118 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 11/7/2019 10:26:25 AM B64315 Benzene 0.017 mg/Kg Toluene ND 0.035 mg/Kg 11/7/2019 10:26:25 AM B64315 Ethylbenzene ND 0.035 mg/Kg 11/7/2019 10:26:25 AM B64315 Xylenes, Total ND 0.069 mg/Kg 11/7/2019 10:26:25 AM B64315

93.1

80-120

%Rec

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

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 Quanitative Limit

- 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

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Analytical Report Lab Order 1911239

Date Reported: 11/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SP-3

Project: Lobato GC D1 Collection Date: 11/6/2019 12:10:00 PM

Lab ID: 1911239-003 **Matrix:** MEOH (SOIL) **Received Date:** 11/7/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | CJS |
| Chloride | ND | 60 | mg/Kg | 20 | 11/7/2019 11:45:15 AM | 48646 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | : CLP |
| Diesel Range Organics (DRO) | 870 | 19 | mg/Kg | 2 | 11/7/2019 12:10:12 PM | 48642 |
| Motor Oil Range Organics (MRO) | 210 | 96 | mg/Kg | 2 | 11/7/2019 12:10:12 PM | 48642 |
| Surr: DNOP | 98.2 | 70-130 | %Rec | 2 | 11/7/2019 12:10:12 PM | 48642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 17 | mg/Kg | 5 | 11/7/2019 10:49:14 AM | G64315 |
| Surr: BFB | 105 | 77.4-118 | %Rec | 5 | 11/7/2019 10:49:14 AM | G64315 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.086 | mg/Kg | 5 | 11/7/2019 10:49:14 AM | B64315 |
| Toluene | ND | 0.17 | mg/Kg | 5 | 11/7/2019 10:49:14 AM | B64315 |
| Ethylbenzene | ND | 0.17 | mg/Kg | 5 | 11/7/2019 10:49:14 AM | B64315 |
| Xylenes, Total | 0.47 | 0.34 | mg/Kg | 5 | 11/7/2019 10:49:14 AM | B64315 |
| Surr: 4-Bromofluorobenzene | 95.7 | 80-120 | %Rec | 5 | 11/7/2019 10:49:14 AM | B64315 |

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

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 Quanitative Limit

- 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

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CLIENT: ENSOLUM

Analytical Report Lab Order 1911239

Date Reported: 11/11/2019

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SP-4

Project: Lobato GC D1 Collection Date: 11/6/2019 12:15:00 PM

Lab ID: 1911239-004 **Matrix:** MEOH (SOIL) **Received Date:** 11/7/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | CJS |
| Chloride | ND | 60 | mg/Kg | 20 | 11/7/2019 11:57:39 AM | 48646 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | 85 | 9.9 | mg/Kg | 1 | 11/7/2019 12:58:10 PM | 48642 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 11/7/2019 12:58:10 PM | 48642 |
| Surr: DNOP | 103 | 70-130 | %Rec | 1 | 11/7/2019 12:58:10 PM | 48642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | NSB |
| Gasoline Range Organics (GRO) | ND | 3.4 | mg/Kg | 1 | 11/7/2019 11:12:00 AM | G64315 |
| Surr: BFB | 95.8 | 77.4-118 | %Rec | 1 | 11/7/2019 11:12:00 AM | G64315 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | NSB |
| Benzene | ND | 0.017 | mg/Kg | 1 | 11/7/2019 11:12:00 AM | B64315 |
| Toluene | ND | 0.034 | mg/Kg | 1 | 11/7/2019 11:12:00 AM | B64315 |
| Ethylbenzene | ND | 0.034 | mg/Kg | 1 | 11/7/2019 11:12:00 AM | B64315 |
| Xylenes, Total | ND | 0.068 | mg/Kg | 1 | 11/7/2019 11:12:00 AM | B64315 |
| Surr: 4-Bromofluorobenzene | 90.4 | 80-120 | %Rec | 1 | 11/7/2019 11:12:00 AM | B64315 |

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

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 Quanitative 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

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Analytical ReportLab Order **1911239**

Date Reported: 11/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SP-5

 Project:
 Lobato GC D1
 Collection Date: 11/6/2019 12:20:00 PM

 Lab ID:
 1911239-005
 Matrix: MEOH (SOIL)
 Received Date: 11/7/2019 8:00:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: CJS Chloride ND 59 mg/Kg 11/7/2019 12:10:04 PM 48646 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) 38 9.6 mg/Kg 11/7/2019 11:44:32 AM 48642 Motor Oil Range Organics (MRO) ND 11/7/2019 11:44:32 AM 48642 48 mg/Kg 1 Surr: DNOP 93.4 11/7/2019 11:44:32 AM 48642 70-130 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 11/7/2019 11:34:45 AM G64315 Gasoline Range Organics (GRO) ND 3.5 mg/Kg Surr: BFB 98.8 %Rec 11/7/2019 11:34:45 AM G64315 77.4-118 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 11/7/2019 11:34:45 AM B64315 Benzene 0.017 mg/Kg Toluene ND 0.035 mg/Kg 11/7/2019 11:34:45 AM B64315 Ethylbenzene ND 0.035 mg/Kg 11/7/2019 11:34:45 AM B64315 Xylenes, Total ND 0.069 mg/Kg 11/7/2019 11:34:45 AM B64315 Surr: 4-Bromofluorobenzene 11/7/2019 11:34:45 AM B64315 94.8 80-120 %Rec

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

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 Quanitative Limit

- 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1911239**

11-Nov-19

Client: ENSOLUM
Project: Lobato GC D1

Sample ID: MB-48646 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 48646 RunNo: 64309

Prep Date: 11/7/2019 Analysis Date: 11/7/2019 SeqNo: 2201762 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-48646 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 48646 RunNo: 64309

Prep Date: 11/7/2019 Analysis Date: 11/7/2019 SeqNo: 2201763 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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1911239** *11-Nov-19*

Client: ENSOLUM
Project: Lobato GC D1

| Sample ID: LCS-48642 | SampType: LCS | | | Tes | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | |
|-----------------------------|---------------|-----------------|-----------|-------------|---|-----------|-------------|------------|------------|------|
| Client ID: LCSS | Batch | ID: 48 6 | 642 | F | RunNo: 6 | 4298 | | | | |
| Prep Date: 11/7/2019 | Analysis D | ate: 11 | /7/2019 | S | SeqNo: 2 | 200418 | Units: mg/k | (g | | |
| 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 | 4.2 | | 5.000 | | 83.5 | 70 | 130 | | | |
| Sample ID: MB-48642 | SampT | уре: МЕ | BLK | Tes | tCode: El | PA Method | 8015M/D: Di | esel Range | e Organics | · |

| Client ID: PBS | Batch | n ID: 48 | 642 | F | RunNo: 6 | 4298 | | | | |
|--------------------------------|------------|----------|-----------|-------------|----------|----------|-------------|------|----------|------|
| Prep Date: 11/7/2019 | Analysis D | oate: 11 | 1/7/2019 | 8 | SeqNo: 2 | 200419 | Units: mg/K | (g | | |
| 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 | | 94.6 | 70 | 130 | | | |

| Sample ID: LCS-48590 | SampType: LCS | TestCode: EPA Method | 8015M/D: Diesel Rang | e Organics |
|----------------------|--------------------------|-----------------------------|----------------------|---------------|
| Client ID: LCSS | Batch ID: 48590 | RunNo: 64266 | | |
| Prep Date: 11/5/2019 | Analysis Date: 11/6/2019 | SeqNo: 2200931 | Units: %Rec | |
| Analyte | Result PQL SPK value | e SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Surr: DNOP | 4.8 5.000 | 96.1 70 | 130 | |

| Sample ID: MB-48590 | SampType: MBLK | TestCode: EPA Method | 8015M/D: Diesel Range Organics |
|----------------------|--------------------------|---------------------------|--------------------------------|
| Client ID: PBS | Batch ID: 48590 | RunNo: 64266 | |
| Prep Date: 11/5/2019 | Analysis Date: 11/6/2019 | SeqNo: 2200932 | Units: %Rec |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qual |
| Surr: DNOP | 10 10.00 | 102 70 | 130 |

| Sample ID: MB-48631 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics |
|----------------------|--------------------------|--|
| Client ID: PBS | Batch ID: 48631 | RunNo: 64298 |
| Prep Date: 11/6/2019 | Analysis Date: 11/7/2019 | SeqNo: 2201887 Units: %Rec |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| 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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1911239**

11-Nov-19

Client: ENSOLUM
Project: Lobato GC D1

Sample ID: RB SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: G64315 RunNo: 64315

Prep Date: Analysis Date: 11/7/2019 SeqNo: 2201267 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Gasoline Range Organics (GRO) ND 5.0

 Surr: BFB
 940
 1000
 94.3
 77.4
 118

Sample ID: 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G64315 RunNo: 64315

Prep Date: Analysis Date: 11/7/2019 SeqNo: 2201268 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 22
 5.0
 25.00
 0
 88.3
 80
 120

 Surr: BFB
 1100
 1000
 112
 77.4
 118

Sample ID: MB-48621 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **48621** RunNo: **64315**

Prep Date: 11/6/2019 Analysis Date: 11/7/2019 SeqNo: 2201272 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 960 1000 95.7 77.4 118

Sample ID: LCS-48621 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 48621 RunNo: 64315

Prep Date: 11/6/2019 Analysis Date: 11/7/2019 SeqNo: 2201273 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 1100 1000 107 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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1911239

11-Nov-19

Client: ENSOLUM Project: Lobato GC D1

Sample ID: RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: **B64315** RunNo: 64315

Prep Date: Analysis Date: 11/7/2019 SeqNo: 2201299 Units: mq/Kq

PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte LowLimit HighLimit Qual Benzene ND 0.025

Toluene ND 0.050 0.050 Ethylbenzene ND Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.94 1.000 94.3 80 120

Sample ID: 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: **B64315** RunNo: 64315

Prep Date: Analysis Date: 11/7/2019 SeqNo: 2201300 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 95.0 0.95 0.025 0 80 120 Benzene Toluene 0.90 0.050 1.000 0 89.6 80 120 0 89.4 80 Ethylbenzene 0.89 0.050 1.000 120 0 89.5 Xylenes, Total 2.7 0.10 3.000 80 120 Surr: 4-Bromofluorobenzene 0.98 1.000 98.4 80 120

Sample ID: 1911239-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: SP-1 Batch ID: **B64315** RunNo: 64315

Prep Date: Analysis Date: 11/7/2019 SeqNo: 2201302 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 94.2 76 0.64 0.017 0.6707 0.006975 123 Benzene Toluene 0.62 0.034 0.005922 92.0 80.3 127 0.6707 131 90.4 80.2 Ethylbenzene 0.61 0.034 0.6707 0.007344 Xylenes, Total 1.9 0.067 2.012 0.02190 91.1 78 133 Surr: 4-Bromofluorobenzene 0.6707 96.2 80 0.64 120

TestCode: EPA Method 8021B: Volatiles Sample ID: 1911239-001AMSD SampType: MSD

Batch ID: **B64315** Client ID: SP-1 RunNo: 64315

| Prep Date: | Analysis D | Analysis Date: 11/7/2019 | | | SeqNo: 2201303 Units: mg/Kg | | | (g | | |
|----------------------------|------------|--------------------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.63 | 0.017 | 0.6707 | 0.006975 | 92.4 | 76 | 123 | 1.98 | 20 | |
| Toluene | 0.60 | 0.034 | 0.6707 | 0.005922 | 88.0 | 80.3 | 127 | 4.41 | 20 | |
| Ethylbenzene | 0.59 | 0.034 | 0.6707 | 0.007344 | 86.9 | 80.2 | 131 | 3.91 | 20 | |
| Xylenes, Total | 1.8 | 0.067 | 2.012 | 0.02190 | 87.3 | 78 | 133 | 4.26 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.63 | | 0.6707 | | 94.5 | 80 | 120 | 0 | 0 | |

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1911239**

11-Nov-19

Client: ENSOLUM
Project: Lobato GC D1

Sample ID: MB-48621 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: **48621** RunNo: **64315**

Prep Date: 11/6/2019 Analysis Date: 11/7/2019 SeqNo: 2201304 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 0.95 1.000 95.4 80 120

Sample ID: LCS-48621 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 48621 RunNo: 64315

Prep Date: 11/6/2019 Analysis Date: 11/7/2019 SeqNo: 2201305 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 0.98 1.000 98.4 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 Quanitative 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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

| Client Name: | ENSOLUM AZTEC | Work Order Num | ber: 1911239 | | RcptNo: | 1 |
|--------------------|---|-----------------------|---------------------|------------|-----------------------------------|-------------------|
| Received By: | Daniel Marquez | 11/7/2019 8:00:00 | AM | Sign | | |
| Completed By: | Leah Baca | 11/7/2019 8:22:50 | AM | 1 B. | | |
| Reviewed By: | Lh | 11/7/19 | | Look) sale | 1 | |
| Chain of Cus | stody | | | | | |
| 1. Is Chain of C | Custody complete? | | Yes 🗸 | No 🗌 | Not Present | |
| 2. How was the | e sample delivered? | | Courier | | | |
| Log In | mpt made to cool the sampl | 0 | v | . | 🗆 | |
| o. vvas an aller | npt made to cool the sampl | es? | Yes 🗸 | No 🗌 | NA 🗌 | |
| 4. Were all sam | ples received at a temperat | ure of >0° C to 6.0°C | Yes 🗹 | No 🗌 | NA 🗆 | |
| 5. Sample(s) in | proper container(s)? | | Yes 🗸 | No 🗌 | | |
| | nple volume for indicated te | | Yes 🗸 | No 🗌 | | |
| 7. Are samples (| (except VOA and ONG) pro | perly preserved? | Yes 🗸 | No 🗌 | | |
| 8. Was preserva | ative added to bottles? | | Yes | No 🗸 | NA 🗆 | |
| 9. VOA vials hav | ve zero headspace? | | Yes | No 🗌 | No VOA Vials 🗹 | |
| 0. Were any sar | mple containers received br | oken? | Yes | No 🗸 | # of preserved bottles checked | / |
| | ork match bottle labels? ancies on chain of custody) | | Yes 🗸 | No 🗆 | for pH: | >12 unless noted) |
| 2. Are matrices | correctly identified on Chain | of Custody? | Yes 🗸 | No 🗌 | Adjusted? | |
| 3. Is it clear wha | t analyses were requested? | <u>,</u> | Yes 🗸 | No 🗌 | | |
| | ing times able to be met? ustomer for authorization.) | | Yes 🗸 | No 🗆 | Checked by: | NHIM |
| pecial Handl | ling (if applicable) | | | | | |
| 15. Was client no | otified of all discrepancies w | ith this order? | Yes | No 🗌 | NA 🗸 | |
| Person | Notified: | Date | | | | |
| By Who | om: | Via: | eMail F | hone Fax | In Person | |
| Regard | ling: | | | | | |
| Client II | nstructions: | | | | | |

17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|---|
| 1 | 4.3 | Good | Yes | | | |
| 2 | 4.0 | Good | Yes | 1 | | *************************************** |

| ceived by OCD: 3/11/2020 | 12:34:17 PM | | Page 35 of |
|--|---|---|---|
| ENVIRONMENTAL YSIS LABORATOR environmental.com Albuquerque, NM 87109 Fax 505-345-4107 nalysis Request | sopulu) | | Time Remarks: PM-Tom Long (EPROD) Time SXMC OXY PAY Key- RB21200 COO COO |
| HALL ENVIRONN NALYSIS LABO Www.hallenvironmental.com ins NE - Albuquerque, NM 87 15-3975 Fax 505-345-4107 Analysis Request | Total Coliform (Present/Absent) | * * * * * * | Long Long No. 4 |
| FIRO S LAE mental.co erque, NI 505-345- | (AOV-im92) 0728 | | RBA |
| HALL ENVJ ANALYSIS www.hallenvironmekins NE - Albuquer 845-3975 Fax 50 | (AOV) 09S8 | | Tom 24 - R |
| LYSIC LYSIC LYSIC allenviron - Albuqu Fax Analysis | CI' E' BL' NO3' NO5' PO4, SO4 | | 45-1- |
| | RCRA 8 Metals | | No Z |
| HALL ANAL www.hall Hawkins NE - 505-345-3975 | PAHs by 8310 or 82705IMS | | |
| T A awki 5-34 | EDB (Method 504.1) | | - 5/ |
| | 8081 Pesticides/8082 PCB's | | smarks: |
| 4901 Tel. | TPH:8015D(GRO / DRO / MRO) | A | Remarks: |
| | BTEX / MTBE / TMB's (8021) | X | Rem |
| 70 | NO 1-01-43°C 0./=4.0°C HEAL NO. | 700- | Time Time |
| 8h 160% | 0 No 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | Date Wills |
| 1 S S R | Preservative Type | [8] | Via: Via: |
| Standard The: Standard The Project Name: Lobato Check | Sampler: Proceeding In No. 100 Ice: Prosectivi ILy On Ice: Preservative Cooler Temp _(including cF) : 47.7.0.0 Container Preservative IV Preser | 1 × 402 Dar 1 × 402 Dar 1 × 402 Dar 1 × 402 Dar 1 × 402 Dar | Received by: |
| Chain-of-Custody Record Client: Ense lum, Lic Mailing Address: Lose, S & o Carande Suit A Prone #: | Level 4 (Full Validation) Az Compliance Other Matrix Sample Name | 5p-2 5p-3 5p-4 5p-4 5p-5 | Time: Relinquished by: Wia: Was |
| Hain-of-Custo | | | Relinquished by: Relinquished by: |
| Chain-Chainent: Ense le failing Address: Aztec INM | email or Fax#: QA/QC Package: Standard Accreditation: DELAC EDD (Type) | 9 1200 × 9 1210 × 9 1220 × 9 1220 | |
| Client: Mailing A | QA/QC Pac QA/QC Pac C Standar Accreditatio C DELAC C EDD (T) | | Date: |



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

November 08, 2019

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

FAX

RE: Lobato GC D1 OrderNo.: 1911238

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 14 sample(s) on 11/7/2019 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,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-1

Project: Lobato GC D1 Collection Date: 11/5/2019 4:30:00 PM

Lab ID: 1911238-001 **Matrix:** MEOH (SOIL) **Received Date:** 11/7/2019 8:00:00 AM

| Analyses | Result | RL Q | ual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|-----------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA |
| Chloride | ND | 60 | mg/Kg | 20 | 11/7/2019 10:43:20 AM | 48645 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | 10 | 9.7 | mg/Kg | 1 | 11/7/2019 10:12:09 AM | 48642 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 11/7/2019 10:12:09 AM | 48642 |
| Surr: DNOP | 103 | 70-130 | %Rec | 1 | 11/7/2019 10:12:09 AM | 48642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | NSB |
| Gasoline Range Organics (GRO) | ND | 3.5 | mg/Kg | 1 | 11/7/2019 9:20:38 AM | 48635 |
| Surr: BFB | 89.2 | 77.4-118 | %Rec | 1 | 11/7/2019 9:20:38 AM | 48635 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | NSB |
| Benzene | ND | 0.017 | mg/Kg | 1 | 11/7/2019 9:20:38 AM | 48635 |
| Toluene | ND | 0.035 | mg/Kg | 1 | 11/7/2019 9:20:38 AM | 48635 |
| Ethylbenzene | ND | 0.035 | mg/Kg | 1 | 11/7/2019 9:20:38 AM | 48635 |
| Xylenes, Total | ND | 0.070 | mg/Kg | 1 | 11/7/2019 9:20:38 AM | 48635 |
| Surr: 4-Bromofluorobenzene | 94.1 | 80-120 | %Rec | 1 | 11/7/2019 9:20:38 AM | 48635 |

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

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 Quanitative Limit

- 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

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Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 1911238

Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-2

 Project:
 Lobato GC D1
 Collection Date: 11/6/2019 1:00:00 PM

 Lab ID:
 1911238-002
 Matrix: MEOH (SOIL)
 Received Date: 11/7/2019 8:00:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 60 mg/Kg 11/7/2019 10:55:45 AM 48645 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.7 mg/Kg 11/7/2019 10:06:50 AM 48642 Motor Oil Range Organics (MRO) ND 11/7/2019 10:06:50 AM 48642 49 mg/Kg 1 Surr: DNOP 142 70-130 %Rec 11/7/2019 10:06:50 AM 48642 S **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 11/7/2019 9:43:54 AM 48635 3.8 mg/Kg Surr: BFB 87.9 %Rec 11/7/2019 9:43:54 AM 48635 77.4-118 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 11/7/2019 9:43:54 AM Benzene 0.019 mg/Kg 48635 Toluene ND 0.038 mg/Kg 11/7/2019 9:43:54 AM 48635

ND

ND

94.7

0.038

0.075

80-120

mg/Kg

mg/Kg

%Rec

1

11/7/2019 9:43:54 AM

11/7/2019 9:43:54 AM

11/7/2019 9:43:54 AM

48635

48635

48635

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

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 Quanitative 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

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Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-3

 Project:
 Lobato GC D1
 Collection Date: 11/6/2019 1:05:00 PM

 Lab ID:
 1911238-003
 Matrix: MEOH (SOIL)
 Received Date: 11/7/2019 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst | MRA |
| Chloride | ND | 60 | | mg/Kg | 20 | 11/7/2019 11:08:09 AM | 48645 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 11/7/2019 10:15:46 AM | 48642 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 11/7/2019 10:15:46 AM | 48642 |
| Surr: DNOP | 135 | 70-130 | S | %Rec | 1 | 11/7/2019 10:15:46 AM | 48642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst | NSB |
| Gasoline Range Organics (GRO) | ND | 3.3 | | mg/Kg | 1 | 11/7/2019 10:07:19 AM | 48635 |
| Surr: BFB | 85.6 | 77.4-118 | | %Rec | 1 | 11/7/2019 10:07:19 AM | 48635 |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst | NSB |
| Benzene | ND | 0.017 | | mg/Kg | 1 | 11/7/2019 10:07:19 AM | 48635 |
| Toluene | ND | 0.033 | | mg/Kg | 1 | 11/7/2019 10:07:19 AM | 48635 |
| Ethylbenzene | ND | 0.033 | | mg/Kg | 1 | 11/7/2019 10:07:19 AM | 48635 |
| Xylenes, Total | ND | 0.066 | | mg/Kg | 1 | 11/7/2019 10:07:19 AM | 48635 |
| Surr: 4-Bromofluorobenzene | 90.6 | 80-120 | | %Rec | 1 | 11/7/2019 10:07:19 AM | 48635 |

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

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 Quanitative 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

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Analytical Report

Lab Order **1911238**Date Reported: **11/8/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-4

 Project:
 Lobato GC D1
 Collection Date: 11/6/2019 1:10:00 PM

 Lab ID:
 1911238-004
 Matrix: MEOH (SOIL)
 Received Date: 11/7/2019 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst | MRA |
| Chloride | ND | 60 | | mg/Kg | 20 | 11/7/2019 11:20:34 AM | 48645 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 11/7/2019 10:24:44 AM | 48642 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 11/7/2019 10:24:44 AM | 48642 |
| Surr: DNOP | 136 | 70-130 | S | %Rec | 1 | 11/7/2019 10:24:44 AM | 48642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst | NSB |
| Gasoline Range Organics (GRO) | ND | 3.4 | | mg/Kg | 1 | 11/7/2019 10:30:52 AM | 48635 |
| Surr: BFB | 87.4 | 77.4-118 | | %Rec | 1 | 11/7/2019 10:30:52 AM | 48635 |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst | : NSB |
| Benzene | ND | 0.017 | | mg/Kg | 1 | 11/7/2019 10:30:52 AM | 48635 |
| Toluene | ND | 0.034 | | mg/Kg | 1 | 11/7/2019 10:30:52 AM | 48635 |
| Ethylbenzene | ND | 0.034 | | mg/Kg | 1 | 11/7/2019 10:30:52 AM | 48635 |
| Xylenes, Total | ND | 0.067 | | mg/Kg | 1 | 11/7/2019 10:30:52 AM | 48635 |
| Surr: 4-Bromofluorobenzene | 94.2 | 80-120 | | %Rec | 1 | 11/7/2019 10:30:52 AM | 48635 |

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

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 Quanitative Limit

- 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

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Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-5

 Project:
 Lobato GC D1
 Collection Date: 11/6/2019 1:15:00 PM

 Lab ID:
 1911238-005
 Matrix: MEOH (SOIL)
 Received Date: 11/7/2019 8:00:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses Analyst: MRA **EPA METHOD 300.0: ANIONS** Chloride ND 60 mg/Kg 11/7/2019 11:32:59 AM 48645 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.8 mg/Kg 11/7/2019 10:33:44 AM 48642 Motor Oil Range Organics (MRO) ND 11/7/2019 10:33:44 AM 48642 49 mg/Kg 1 Surr: DNOP 133 70-130 %Rec 11/7/2019 10:33:44 AM 48642 S **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 11/7/2019 10:54:23 AM 48635 Gasoline Range Organics (GRO) ND 3.5 mg/Kg Surr: BFB 90.7 %Rec 11/7/2019 10:54:23 AM 48635 77.4-118 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 11/7/2019 10:54:23 AM 48635 Benzene 0.017 mg/Kg Toluene ND 0.035 mg/Kg 11/7/2019 10:54:23 AM 48635 Ethylbenzene ND 0.035 mg/Kg 11/7/2019 10:54:23 AM 48635 Xylenes, Total ND 0.069 mg/Kg 11/7/2019 10:54:23 AM 48635 Surr: 4-Bromofluorobenzene 11/7/2019 10:54:23 AM 48635 95.4 80-120 %Rec

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

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 Quanitative Limit

- 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

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Analytical Report

Lab Order **1911238**Date Reported: **11/8/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-6

 Project:
 Lobato GC D1
 Collection Date: 11/6/2019 1:20:00 PM

 Lab ID:
 1911238-006
 Matrix: MEOH (SOIL)
 Received Date: 11/7/2019 8:00:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses Analyst: MRA **EPA METHOD 300.0: ANIONS** Chloride ND 60 mg/Kg 11/7/2019 11:45:24 AM 48645 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.7 mg/Kg 11/7/2019 10:42:46 AM 48642 ND 11/7/2019 10:42:46 AM 48642 Motor Oil Range Organics (MRO) 49 mg/Kg 1 Surr: DNOP 133 70-130 %Rec 11/7/2019 10:42:46 AM 48642 S **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 11/7/2019 11:17:49 AM 48635 Gasoline Range Organics (GRO) ND 3.4 mg/Kg Surr: BFB 88.0 %Rec 11/7/2019 11:17:49 AM 48635 77.4-118 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 0.017 11/7/2019 11:17:49 AM 48635 Benzene mg/Kg Toluene ND 0.034 mg/Kg 11/7/2019 11:17:49 AM 48635 Ethylbenzene ND 0.034 mg/Kg 11/7/2019 11:17:49 AM 48635 Xylenes, Total ND 0.068 mg/Kg 11/7/2019 11:17:49 AM 48635 Surr: 4-Bromofluorobenzene 11/7/2019 11:17:49 AM 48635 93.5 80-120 %Rec

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

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 Quanitative Limit

- 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

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Analytical Report

Lab Order **1911238**Date Reported: **11/8/2019**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-7

Project: Lobato GC D1 Collection Date: 11/6/2019 1:25:00 PM

Lab ID: 1911238-007 **Matrix:** MEOH (SOIL) **Received Date:** 11/7/2019 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst | MRA |
| Chloride | ND | 60 | | mg/Kg | 20 | 11/7/2019 11:57:48 AM | 48645 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 9.2 | | mg/Kg | 1 | 11/7/2019 10:51:50 AM | 48642 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 11/7/2019 10:51:50 AM | 48642 |
| Surr: DNOP | 130 | 70-130 | S | %Rec | 1 | 11/7/2019 10:51:50 AM | 48642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst | NSB |
| Gasoline Range Organics (GRO) | ND | 3.3 | | mg/Kg | 1 | 11/7/2019 11:41:14 AM | 48635 |
| Surr: BFB | 88.6 | 77.4-118 | | %Rec | 1 | 11/7/2019 11:41:14 AM | 48635 |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst | NSB |
| Benzene | ND | 0.017 | | mg/Kg | 1 | 11/7/2019 11:41:14 AM | 48635 |
| Toluene | ND | 0.033 | | mg/Kg | 1 | 11/7/2019 11:41:14 AM | 48635 |
| Ethylbenzene | ND | 0.033 | | mg/Kg | 1 | 11/7/2019 11:41:14 AM | 48635 |
| Xylenes, Total | ND | 0.067 | | mg/Kg | 1 | 11/7/2019 11:41:14 AM | 48635 |
| Surr: 4-Bromofluorobenzene | 95.2 | 80-120 | | %Rec | 1 | 11/7/2019 11:41:14 AM | 48635 |

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

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 Quanitative Limit

- 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

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Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-8

 Project:
 Lobato GC D1
 Collection Date: 11/6/2019 1:30:00 PM

 Lab ID:
 1911238-008
 Matrix: MEOH (SOIL)
 Received Date: 11/7/2019 8:00:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 61 mg/Kg 11/7/2019 12:10:13 PM 48645 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM mg/Kg Diesel Range Organics (DRO) ND 9.1 11/7/2019 11:00:55 AM 48642 ND 11/7/2019 11:00:55 AM 48642 Motor Oil Range Organics (MRO) 46 mg/Kg 1 Surr: DNOP 132 70-130 %Rec 11/7/2019 11:00:55 AM 48642 S **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 11/7/2019 12:04:36 PM 48635 Gasoline Range Organics (GRO) ND 3.4 mg/Kg Surr: BFB 86.5 %Rec 11/7/2019 12:04:36 PM 48635 77.4-118 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 0.017 11/7/2019 12:04:36 PM 48635 Benzene mg/Kg Toluene ND 0.034 mg/Kg 11/7/2019 12:04:36 PM 48635 Ethylbenzene ND 0.034 mg/Kg 11/7/2019 12:04:36 PM 48635 Xylenes, Total ND 0.068 mg/Kg 11/7/2019 12:04:36 PM 48635 Surr: 4-Bromofluorobenzene 11/7/2019 12:04:36 PM 48635 92.4 80-120 %Rec

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

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 Quanitative Limit

- 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

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Analytical Report

Lab Order **1911238**Date Reported: **11/8/2019**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-9

Project: Lobato GC D1 Collection Date: 11/6/2019 1:35:00 PM

Lab ID: 1911238-009 **Matrix:** MEOH (SOIL) **Received Date:** 11/7/2019 8:00:00 AM

| Analyses | Result | RL (| Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA |
| Chloride | ND | 60 | mg/Kg | 20 | 11/7/2019 12:47:26 PM | 48645 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | 20 | 9.7 | mg/Kg | 1 | 11/7/2019 11:09:59 AM | 48642 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 11/7/2019 11:09:59 AM | 48642 |
| Surr: DNOP | 128 | 70-130 | %Rec | 1 | 11/7/2019 11:09:59 AM | 48642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | NSB |
| Gasoline Range Organics (GRO) | ND | 17 | mg/Kg | 5 | 11/7/2019 12:51:15 PM | 48635 |
| Surr: BFB | 91.9 | 77.4-118 | %Rec | 5 | 11/7/2019 12:51:15 PM | 48635 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | NSB |
| Benzene | ND | 0.083 | mg/Kg | 5 | 11/7/2019 12:51:15 PM | 48635 |
| Toluene | ND | 0.17 | mg/Kg | 5 | 11/7/2019 12:51:15 PM | 48635 |
| Ethylbenzene | ND | 0.17 | mg/Kg | 5 | 11/7/2019 12:51:15 PM | 48635 |
| Xylenes, Total | ND | 0.33 | mg/Kg | 5 | 11/7/2019 12:51:15 PM | 48635 |
| Surr: 4-Bromofluorobenzene | 97.5 | 80-120 | %Rec | 5 | 11/7/2019 12:51:15 PM | 48635 |

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

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 Quanitative 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

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Analytical Report

Lab Order 1911238 Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-10

Collection Date: 11/6/2019 1:40:00 PM **Project:** Lobato GC D1

1911238-010 Lab ID: Matrix: MEOH (SOIL) Received Date: 11/7/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: | MRA |
| Chloride | ND | 60 | mg/Kg | 20 | 11/7/2019 12:59:51 PM | 48645 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | BRM |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 11/7/2019 11:19:05 AM | 48642 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 11/7/2019 11:19:05 AM | 48642 |
| Surr: DNOP | 127 | 70-130 | %Rec | 1 | 11/7/2019 11:19:05 AM | 48642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | NSB |
| Gasoline Range Organics (GRO) | ND | 17 | mg/Kg | 5 | 11/7/2019 12:27:56 PM | 48635 |
| Surr: BFB | 102 | 77.4-118 | %Rec | 5 | 11/7/2019 12:27:56 PM | 48635 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | NSB |
| Benzene | ND | 0.083 | mg/Kg | 5 | 11/7/2019 12:27:56 PM | 48635 |
| Toluene | ND | 0.17 | mg/Kg | 5 | 11/7/2019 12:27:56 PM | 48635 |
| Ethylbenzene | ND | 0.17 | mg/Kg | 5 | 11/7/2019 12:27:56 PM | 48635 |
| Xylenes, Total | ND | 0.33 | mg/Kg | 5 | 11/7/2019 12:27:56 PM | 48635 |
| Surr: 4-Bromofluorobenzene | 110 | 80-120 | %Rec | 5 | 11/7/2019 12:27:56 PM | 48635 |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Analytical Report

Lab Order **1911238**Date Reported: **11/8/2019**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-11

Project: Lobato GC D1 Collection Date: 11/6/2019 1:45:00 PM

Lab ID: 1911238-011 **Matrix:** MEOH (SOIL) **Received Date:** 11/7/2019 8:00:00 AM

| Analyses | Result | RL Q | ual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|-----------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : MRA |
| Chloride | ND | 60 | mg/Kg | 20 | 11/7/2019 1:12:15 PM | 48645 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst | CLP |
| Diesel Range Organics (DRO) | ND | 9.4 | mg/Kg | 1 | 11/7/2019 9:46:29 AM | 48642 |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 11/7/2019 9:46:29 AM | 48642 |
| Surr: DNOP | 89.7 | 70-130 | %Rec | 1 | 11/7/2019 9:46:29 AM | 48642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 3.3 | mg/Kg | 1 | 11/7/2019 1:38:04 PM | 48635 |
| Surr: BFB | 87.7 | 77.4-118 | %Rec | 1 | 11/7/2019 1:38:04 PM | 48635 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.017 | mg/Kg | 1 | 11/7/2019 1:38:04 PM | 48635 |
| Toluene | ND | 0.033 | mg/Kg | 1 | 11/7/2019 1:38:04 PM | 48635 |
| Ethylbenzene | ND | 0.033 | mg/Kg | 1 | 11/7/2019 1:38:04 PM | 48635 |
| Xylenes, Total | ND | 0.067 | mg/Kg | 1 | 11/7/2019 1:38:04 PM | 48635 |
| Surr: 4-Bromofluorobenzene | 94.0 | 80-120 | %Rec | 1 | 11/7/2019 1:38:04 PM | 48635 |

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

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 Quanitative 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

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Analytical Report

Lab Order 1911238

Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-12

Collection Date: 11/6/2019 1:50:00 PM **Project:** Lobato GC D1

1911238-012 Lab ID: Matrix: MEOH (SOIL) Received Date: 11/7/2019 8:00:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | : CJS |
| Chloride | ND | 60 | mg/Kg | 20 | 11/7/2019 10:43:13 AM | 48646 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | : CLP |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 11/7/2019 10:09:56 AM | 48642 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 11/7/2019 10:09:56 AM | 48642 |
| Surr: DNOP | 91.0 | 70-130 | %Rec | 1 | 11/7/2019 10:09:56 AM | 48642 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | : NSB |
| Gasoline Range Organics (GRO) | ND | 3.3 | mg/Kg | 1 | 11/7/2019 2:01:41 PM | 48635 |
| Surr: BFB | 87.0 | 77.4-118 | %Rec | 1 | 11/7/2019 2:01:41 PM | 48635 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | : NSB |
| Benzene | ND | 0.016 | mg/Kg | 1 | 11/7/2019 2:01:41 PM | 48635 |
| Toluene | ND | 0.033 | mg/Kg | 1 | 11/7/2019 2:01:41 PM | 48635 |
| Ethylbenzene | ND | 0.033 | mg/Kg | 1 | 11/7/2019 2:01:41 PM | 48635 |
| Xylenes, Total | ND | 0.065 | mg/Kg | 1 | 11/7/2019 2:01:41 PM | 48635 |
| Surr: 4-Bromofluorobenzene | 94.0 | 80-120 | %Rec | 1 | 11/7/2019 2:01:41 PM | 48635 |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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1911238-013

Lab ID:

Analytical Report Lab Order 1911238

Received Date: 11/7/2019 8:00:00 AM

Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-13

Project: Lobato GC D1 Collection Date: 11/6/2019 1:55:00 PM Matrix: MEOH (SOIL)

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: CJS Chloride ND 60 mg/Kg 20 11/7/2019 10:55:38 AM 48646 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) 15000 470 mg/Kg 11/7/2019 10:34:04 AM 48642 Motor Oil Range Organics (MRO) 3100 2400 11/7/2019 10:34:04 AM 48642 mg/Kg Surr: DNOP 70-130 11/7/2019 10:34:04 AM 48642 0 S %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 11/7/2019 9:17:53 AM Gasoline Range Organics (GRO) 170 G64315 3.3 mg/Kg 1 Surr: BFB 1070 77.4-118 S %Rec 11/7/2019 9:17:53 AM G64315 **EPA METHOD 8021B: VOLATILES** Analyst: NSB 0.017 11/7/2019 9:17:53 AM B64315 Benzene 0.89 mg/Kg Toluene 4.9 0.33 mg/Kg 11/7/2019 2:37:43 PM B64315 Ethylbenzene 0.73 0.033 mg/Kg 11/7/2019 9:17:53 AM B64315 Xylenes, Total 0.66 mg/Kg 11/7/2019 2:37:43 PM B64315 11 Surr: 4-Bromofluorobenzene 80-120 B64315 99.2 %Rec 11/7/2019 2:37:43 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Date Reported: 11/8/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-14

 Project:
 Lobato GC D1
 Collection Date: 11/6/2019 2:00:00 PM

 Lab ID:
 1911238-014
 Matrix: MEOH (SOIL)
 Received Date: 11/7/2019 8:00:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: CJS Chloride ND 60 mg/Kg 11/7/2019 11:08:02 AM 48646 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) 25 9.5 mg/Kg 11/7/2019 10:33:33 AM 48642 Motor Oil Range Organics (MRO) ND 11/7/2019 10:33:33 AM 48642 47 mg/Kg 1 Surr: DNOP 93.1 11/7/2019 10:33:33 AM 48642 70-130 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 11/7/2019 3:23:22 PM Gasoline Range Organics (GRO) ND G64315 3.5 mg/Kg Surr: BFB 95.4 %Rec 11/7/2019 3:23:22 PM G64315 77.4-118 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 11/7/2019 3:23:22 PM B64315 Benzene 0.017 mg/Kg Toluene ND 0.035 mg/Kg 11/7/2019 3:23:22 PM B64315 Ethylbenzene ND 0.035 mg/Kg 1 11/7/2019 3:23:22 PM B64315 Xylenes, Total ND 0.069 mg/Kg 11/7/2019 3:23:22 PM B64315 Surr: 4-Bromofluorobenzene B64315 94.6 80-120 %Rec 11/7/2019 3:23:22 PM

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

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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1911238**

08-Nov-19

Client: ENSOLUM
Project: Lobato GC D1

Sample ID: MB-48645 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 48645 RunNo: 64310

Prep Date: 11/7/2019 Analysis Date: 11/7/2019 SeqNo: 2201663 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-48645 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 48645 RunNo: 64310

Prep Date: 11/7/2019 Analysis Date: 11/7/2019 SeqNo: 2201664 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.9 90 110

Sample ID: MB-48646 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 48646 RunNo: 64309

Prep Date: 11/7/2019 Analysis Date: 11/7/2019 SeqNo: 2201762 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-48646 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 48646 RunNo: 64309

Prep Date: 11/7/2019 Analysis Date: 11/7/2019 SeqNo: 2201763 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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1911238**

08-Nov-19

Client: ENSOLUM
Project: Lobato GC D1

Sample ID: LCS-48589 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 48589 RunNo: 64266

Prep Date: 11/5/2019 Analysis Date: 11/6/2019 SegNo: 2199440 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 5.2 5.000 104 70 130

Sample ID: MB-48589 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 48589 RunNo: 64266

Prep Date: 11/5/2019 Analysis Date: 11/6/2019 SeqNo: 2199442 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 11 10.00 114 70 130

Sample ID: 1911238-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **\$-1** Batch ID: **48642** RunNo: **64266**

Prep Date: 11/7/2019 Analysis Date: 11/8/2019 SeqNo: 2201370 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) 54 9.2 46.04 15.43 84.0 57 142 Surr: DNOP 4.6 4.604 98.9 70 130

Sample ID: 1911238-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: S-1 Batch ID: 48642 RunNo: 64266

Prep Date: 11/7/2019 Analysis Date: 11/8/2019 SeqNo: 2201371 Units: mq/Kq

%RPD **RPDLimit** Result PQL SPK value SPK Ref Val %REC HighLimit Analyte LowLimit Qual Diesel Range Organics (DRO) 52 9.5 47.44 15.43 76.2 57 142 4.79 20

Surr: DNOP 4.6 4.744 97.1 70 130 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1911238**

08-Nov-19

Client: ENSOLUM
Project: Lobato GC D1

Sample ID: RB SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: G64315 RunNo: 64315

Prep Date: Analysis Date: 11/7/2019 SeqNo: 2201267 Units: mq/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 940 1000 94.3 77.4 118

Sample ID: 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G64315 RunNo: 64315

Prep Date: Analysis Date: 11/7/2019 SeqNo: 2201268 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 88.3 80 120

Surr: BFB 1100 1000 112 77.4 118

Sample ID: 1911238-014AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **S-14** Batch ID: **G64315** RunNo: **64315**

Prep Date: Analysis Date: 11/7/2019 SeqNo: 2201270 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 16 3.5 17.31 0 93.5 69.1 142 Surr: BFB 760 692.5 77.4 110 118

Sample ID: 1911238-014AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: S-14 Batch ID: G64315 RunNo: 64315

Prep Date: Analysis Date: 11/7/2019 SeqNo: 2201271 Units: mq/Kq

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual Gasoline Range Organics (GRO) 15 3.5 17.31 87.2 142 6.95 20 69.1 Surr: BFB 740 692.5 107 77.4 118 0

Sample ID: MB-48621 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 48621 RunNo: 64315

Prep Date: 11/6/2019 Analysis Date: 11/7/2019 SeqNo: 2201272 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 960 1000 95.7 77.4 118

Sample ID: LCS-48621 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 48621 RunNo: 64315

Prep Date: 11/6/2019 Analysis Date: 11/7/2019 SeqNo: 2201273 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 1100 1000 107 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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1911238**

08-Nov-19

Client: ENSOLUM
Project: Lobato GC D1

Sample ID: MB-48635 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 48635 RunNo: 64314

Prep Date: 11/6/2019 Analysis Date: 11/7/2019 SeqNo: 2201319 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 900 1000 90.4 77.4 118

Sample ID: LCS-48635 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 48635 RunNo: 64314

Prep Date: 11/6/2019 Analysis Date: 11/7/2019 SeqNo: 2201320 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 21
 5.0
 25.00
 0
 85.0
 80
 120

 Surr: BFB
 1000
 1000
 101
 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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1911238

120

80

94.3

%RPD

RPDLimit

08-Nov-19

Qual

| Client: | ENSOLUM | | | | | | | | |
|----------------|--------------|-------|-----|-----------|------------|----------|-----------|--------------|---------|
| Project: | Lobato GC D1 | | | | | | | | |
| Sample ID: RB | Samp | Туре: | МВ | LK | Te | estCode: | EPA Metho | od 8021B: Vo | latiles |
| Client ID: PBS | Bato | h ID: | B64 | 4315 | | RunNo: | 64315 | | |
| Prep Date: | Analysis I | Date: | 11 | /7/2019 | | SeqNo: | 2201299 | Units: m | g/Kg |
| Analyte | Result | PG | QL. | SPK value | SPK Ref Va | al %RE | C LowLim | it HighLimi | t %F |
| Benzene | ND | 0.0 | 25 | | | | | | |
| Toluene | ND | 0.0 | 50 | | | | | | |
| Ethylbenzene | ND | 0.0 | 50 | | | | | | |

ND

0.94

0.10

1.000

Sample ID: 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: **B64315** RunNo: 64315 Prep Date: Analysis Date: 11/7/2019 SeqNo: 2201300 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 0.95 0.025 n 95.0 80 120 Benzene Toluene 0.90 0.050 1.000 0 89.6 80 120 0 89.4 80 Ethylbenzene 0.89 0.050 1.000 120 0 89.5 Xylenes, Total 2.7 0.10 3.000 80 120 Surr: 4-Bromofluorobenzene 0.98 1.000 98.4 80 120

Sample ID: MB-48621 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 48621 RunNo: 64315 Prep Date: 11/6/2019 Analysis Date: 11/7/2019 SeqNo: 2201304 Units: %Rec Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.95 1.000 95.4 Surr: 4-Bromofluorobenzene 80 120

Sample ID: LCS-48621 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 48621 RunNo: 64315 Prep Date: 11/6/2019 Analysis Date: 11/7/2019 SeqNo: 2201305 Units: %Rec SPK value SPK Ref Val PQL %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Surr: 4-Bromofluorobenzene 1.000 98.4 0.98 80 120

Sample ID: MB-48635 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 48635 RunNo: 64314 Analysis Date: 11/7/2019 Prep Date: 11/6/2019 SeqNo: 2201336 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 0.025

Benzene Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

1.0

WO#: **1911238**

08-Nov-19

Client: ENSOLUM
Project: Lobato GC D1

Surr: 4-Bromofluorobenzene

Sample ID: MB-48635 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 48635 RunNo: 64314

Prep Date: 11/6/2019 Analysis Date: 11/7/2019 SeqNo: 2201336 Units: mg/Kg

1.000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: 4-Bromofluorobenzene 0.96 1.000 95.8 80 120

Sample ID: LCS-48635 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 48635 RunNo: 64314 SeqNo: 2201337 Prep Date: 11/6/2019 Analysis Date: 11/7/2019 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual 1.000 Benzene 0.94 0.025 0 93.9 80 120 Toluene 0.98 0.050 1.000 0 98.0 80 120 Ethylbenzene 0.99 0.050 1.000 0 98.6 80 120 Xylenes, Total 3.0 0.10 3.000 0 99.6 80 120

103

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 Quanitative 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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

| Clie | ent Name: | ENSOLUM | AZTEC | Work Order No | ımber: | 1911 | 238 | | | RcptNo | o: 1 | |
|--|-----------------------------|---------------------------------|--------------|--------------------------|--------|--------|---------------------------|---|---------------------|----------------------------|-----------------|---------|
| Rec | ceived By: | Daniel Ma | rquez | 11/7/2019 8:00:0 | 00 AM | | | C) y | ÿ). | | | |
| Con | mpleted By: | Leah Baca | 1 | 11/7/2019 8:14:1 | MA 8 | | | / 1 | Pace | 5 | | |
| Rev | riewed By: | LB | | 11/2/17 | | | | Luw | Jan | | | |
| <u>Cha</u> | ain of Cus | stody | | | | | | | | | | |
| 1. Is | s Chain of C | ustody compl | ete? | | | Yes | ✓ | No | | Not Present | | |
| | | sample deliv | ered? | | | Cour | ier | | | | | |
| No. of Contract of | <i>g In</i> Vas an atten | npt made to c | ool the san | nples? | | Yes | ~ | No | | NA 🗆 | | |
| 4. W | Vere all sam | ples received | at a tempe | rature of >0° C to 6.0°C | | Yes | V | No | | NA 🗆 | | |
| 5. s | Sample(s) in | proper contai | ner(s)? | | | Yes | ✓ | No | | | | |
| 6. s | ufficient sam | nple volume fo | or indicated | test(s)? | | Yes | V | No | | | | |
| 7. A | re samples (| (except VOA | and ONG) | properly preserved? | | Yes | ~ | No | | | | |
| 8. W | Vas preserva | ative added to | bottles? | | | Yes | | No | V | NA 🗆 | | |
| 9. v | OA vials hav | e zero heads | pace? | | | Yes | | No | | No VOA Vials | | |
| 10. V | Vere any sar | mple containe | rs received | I broken? | | Yes | | No | V | # of preserved | | |
| | | ork match bot ancies on cha | | dy) | | Yes | V | No | | bottles checked for pH: | or >12 unless r | noted) |
| 12. A | re matrices | correctly iden | tified on Ch | ain of Custody? | | Yes | ✓ | No | | Adjusted? | | |
| 13. ls | it clear wha | it analyses we | ere request | ed? | | Yes | ~ | No | | | T. 10 1 | 117/10 |
| | | ing times able ustomer for a | | | | Yes | ~ | No | | Checked by: | CNM | (() (/) |
| Spec | cial Handl | ling (if app | licable) | | | | | | | | | |
| | | | | s with this order? | | Yes | | No | | NA 🗹 | | |
| | Person | Notified: | | Da | ate | | Water Committee Committee | NO. 41.141.00 (10.100 | and a second second | | | |
| | By Who | om: | | Vi | a: [|] eMa | ail 🔲 | Phone [| Fax | In Person | | |
| | Regard | ling: | | | | | | | | | | |
| | Client I | nstructions: | | | | | | | | | | |
| 16. | Additional re | marks: | | | | | | | | | | |
| 17. (| Cooler Info | rmation | | | | | | | | | | |
| | Cooler No | | Conditio | n Seal Intact Seal No | S | eal Da | ate | Signed | Ву | | | |
| | 1 | 4.3 | Good | Yes | | | | | | | | |
| | 2 | 4.0 | Good | Yes | | | | | | * | | |

| Client: Fose lum: 12 c | Cilaini-Oi-Custody Record | Standard | Ruch | 2001 | | 10 | abas * | HALL | | 2 | | | ENVIRONMENT | ATA | |
|------------------------------|---|-----------------------------|-----------------------|--|---------------------------------|------------------|---------|--------------------------|-------------------|-----------------|--|---------------|--|--------|--------------|
| | | Project Name: | X | | | | 4 | Z | A | YSIS | | ğ | ABORATOR | 0 | > |
| Mailing Address: (උරාර | Mailing Address: 600 S. 210 Grandle Suite A | 1000 to | 6C D7 | 4 | | 4901 | Hawk | www.n 4901 Hawkins NE | 1 8 | Vironi | www.nailenvironmental.com ns NE - Albuquerque, NM 8 | L.com | environmental.com Albuquerque, NM 87109 | | D. 3/ |
| Atel, NM ST | SAULO | Project #: 5 | ee notes | | | Tel. | 05-3 | 505-345-3975 | | Fax | 505-345-4107 | 45-41 | 07 | | 11/2 |
| Phone #: | | | | | | | | | Ana | 5 V 100 COLOR 1 | Request | est | | | |
| email or Fax#: KSUMMeKS | necs @ ensolum com | Project Manager: | Jer: Ksumme | mess | | (0 | | | 0 | | | (11 | | | 2 |
| QA/QC Package: ☐ Standard | ☐ Level 4 (Full Validation) | | | | | | | SWIS | S . O d | | | ıəsdA\t | - 1-2 | | 34:17 P |
| Accreditation: | ☐ Az Compliance | Sampler: A | PS Deachil | 7 | | | |)YS8 1 | NO ₂ . | | | | | | 171 |
| EDD (Type)_ | | olers: | 7 4 | 3. 2h-1.0-h | | | | | - | | | | 767 | | |
| | | Cooler Temp(including CF):4 | Jing CF): 4.1 | -31=40°C | | | | | | | | | 500 | | |
| Date Time Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. | Nata | 08:H9T 9 1808 | EDB (N | d sHA9 | RCRA 8 | v) 09Z8 | S) 07S8 | Total C | CM | | |
| 11/6/19 1630 S | 5-1 | 1x Hoz Jan | (00) | 100- | X | ~ | | | 2 | | | × | | | |
| 11/6/19 1360 5 | S-2 | 1x 402 Jac | (00) | 700- | × | | | | | | | X | | | |
| 11/6/19 1305 5 | 5-3 | 1x402 Dar | Cool | -(02 | × | | 1 | | 14 | | 11 | × | 2 2 | | |
| 11/6/19/1310 5 | b-S | 1x462 745 | (00) | 700 m | × | > | | | | | | X | | | |
| 11 w/9 1315 S | 5-5 | 1×402 Sur | (00) | -005 | X | | | | | | | X | 9-18-o | | |
| 11/6/19 1320 S | 5-6 | 1x 402 Jar | (00) | 7000 | $\stackrel{\wedge}{\times}$ | ~ | | | | | | × | | | |
| 11/6/19 1325 5 | 5-7 | 1x423ar | (00) | -007 | × | | | | | | | \times | | | |
| 1330 | 8-8 | 1x402Jan | Coal | 200- | $\stackrel{\times}{\checkmark}$ | | | | | | | \times | | | |
| 11/1/19/1335 5 | 5-9 | 1 x 462 500 | Cool | 000- | \times | | | | | | | \rightarrow | | | |
| 1346 | 5-10 | 1x Yar Jar | (000) | 010- | X | V | | | | | | X | | | |
| 11/6/19/1345 5 | S-11 | 1x402 Jur | cool | 110- | \times | | ė | | | | | \times | 4.9 | | |
| 19 1350 | 5-12 | 1 x 402 341 | cool | | X | | 3 7 | | | | | × | 44 | | |
| Well9 1636 From | No Med Dy. | Received by: | Nia: | Date Time 1/4/15 1/630 | Remarks: | emarks: | 7× | UQ | Pay 1 | Key - 1 | (1) | Long | (EPROD | (00 | 1 |
| Date: Time: Relinquished by: | Jante. | Received by: | Via: | Date Time | × 1 | | 1 | 2 | Non API | 17 | 7 | 7 | 062 hnv | | Page 58 |
| If necessary samples su | Hal | ontracted to other acc | redited laboratories. | This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. | possibilit | y. Any s | ub-cont | acted da | ita will b | e clearly | notated | on the | analytical re | sport. | <i>OJ 71</i> |

| Received by OCD: 3/11/2020 | 12:34:17 PM | | Page 59 of 71 |
|---|---|---|--|
| HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com Hawkins NE - Albuquerque, NM 87109 505-345-3975 Fax 505-345-4107 Analysis Request | PAHs by 8310 or 8270SIMS SCRA 8 Metals CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ S270 (Semi-VOA) Total Coliform (Present/Absent) CANA کے کے | H | Time Remarks: PM-Tom Long (EPRID) 1630 Time SANE DAY Non AFE-N44290 800 as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. |
| HALL ANAI Www.hz 4901 Hawkins NE Tel. 505-345-3975 | TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's | F × × F F F F F F F F F F F F F F F F F | Remarks: SANG DAY possibility. Any sub-cont |
| Turn-Around Time: Standard ORush (866) Project Name: Lobato GC D1 Project #: See nettes | Project Manager: \$\$\(\vert m\) \\ Sampler: \\ \text{Sampler:} \\ \text{Sampler:} \\ \text{Sampler:} \\ \text{Sampler:} \\ \text{Sampler:} \\ \text{Sampler:} \\ Arching Lething Lething CF): \$\vert \cdot \c | (co) -0113 : -0111 : -0111 | a: Date a: Date ted laboratories. This serves |
| Chain-of-Custody Record t: Encelum, Lec ig Address: Love 5, Ric Game Suite 4 Lec, NM 87410 e.#. | #: KSummes a ensulum, compes: Level 4 (Full Validation) | | Time: Relinquished by: No. 1909 10,50 M. C. C. O. M. M. C. C. O. M. C. C. O. M. M. C. C. O. M. C. C. O. M. M. C. C. O. M. C. |
| Chain-of-C Client: Encelum Mailing Address: Cole Asker NM & Phone #: | email or Fax#: QA/QC Package: Standard Accreditation: NELAC Date Time | 2 2 | Date: Time: |



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

November 12, 2019

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Lobato GC D1 OrderNo.: 1911390

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 11/9/2019 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,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 11/12/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-15

 Project:
 Lobato GC D1
 Collection Date: 11/8/2019 12:30:00 PM

 Lab ID:
 1911390-001
 Matrix: MEOH (SOIL)
 Received Date: 11/9/2019 9:20:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed Batch |
|---------------------------------------|--------|----------|------------|----|-------------------------------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: MRA |
| Chloride | ND | 60 | mg/Kg | 20 | 11/11/2019 12:43:40 PM 48707 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | ANICS | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 11/11/2019 12:32:16 PM 48703 |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 11/11/2019 12:32:16 PM 48703 |
| Surr: DNOP | 92.1 | 70-130 | %Rec | 1 | 11/11/2019 12:32:16 PM 48703 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.4 | mg/Kg | 1 | 11/11/2019 10:19:59 AM G64387 |
| Surr: BFB | 97.3 | 77.4-118 | %Rec | 1 | 11/11/2019 10:19:59 AM G64387 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: NSB |
| Benzene | ND | 0.017 | mg/Kg | 1 | 11/11/2019 10:19:59 AM B64387 |
| Toluene | ND | 0.034 | mg/Kg | 1 | 11/11/2019 10:19:59 AM B64387 |
| Ethylbenzene | ND | 0.034 | mg/Kg | 1 | 11/11/2019 10:19:59 AM B64387 |
| Xylenes, Total | ND | 0.068 | mg/Kg | 1 | 11/11/2019 10:19:59 AM B64387 |
| Surr: 4-Bromofluorobenzene | 94.5 | 80-120 | %Rec | 1 | 11/11/2019 10:19:59 AM B64387 |

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 9

Date Reported: 11/12/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-16

 Project:
 Lobato GC D1
 Collection Date: 11/8/2019 12:35:00 PM

 Lab ID:
 1911390-002
 Matrix: MEOH (SOIL)
 Received Date: 11/9/2019 9:20:00 AM

Result **RL Qual Units DF** Date Analyzed Analyses Batch **EPA METHOD 300.0: ANIONS** Analyst: MRA 11/11/2019 12:56:00 PM 48707 Chloride ND 60 mg/Kg **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.3 mg/Kg 11/11/2019 12:47:52 PM 48703 ND Motor Oil Range Organics (MRO) 47 mg/Kg 1 11/11/2019 12:47:52 PM 48703 Surr: DNOP 83.0 70-130 %Rec 11/11/2019 12:47:52 PM 48703 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 11/11/2019 10:43:05 AM G64387 3.8 mg/Kg 1 Surr: BFB 101 11/11/2019 10:43:05 AM G64387 77.4-118 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 11/11/2019 10:43:05 AM B64387 Benzene 0.019 mg/Kg 1 Toluene ND 0.038 mg/Kg 11/11/2019 10:43:05 AM B64387 Ethylbenzene ND 0.038 mg/Kg 11/11/2019 10:43:05 AM B64387 1 11/11/2019 10:43:05 AM B64387 Xylenes, Total ND 0.076 mg/Kg 1 Surr: 4-Bromofluorobenzene 100 80-120 %Rec 11/11/2019 10:43:05 AM B64387

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 9

Date Reported: 11/12/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: S-17

 Project:
 Lobato GC D1
 Collection Date: 11/8/2019 12:40:00 PM

 Lab ID:
 1911390-003
 Matrix: MEOH (SOIL)
 Received Date: 11/9/2019 9:20:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed Batch |
|--------------------------------------|--------|----------|------------|----|-------------------------------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: MRA |
| Chloride | ND | 60 | mg/Kg | 20 | 11/11/2019 1:08:21 PM 48707 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: BRM |
| Diesel Range Organics (DRO) | 11 | 9.9 | mg/Kg | 1 | 11/11/2019 12:29:14 PM 48703 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 11/11/2019 12:29:14 PM 48703 |
| Surr: DNOP | 77.0 | 70-130 | %Rec | 1 | 11/11/2019 12:29:14 PM 48703 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.8 | mg/Kg | 1 | 11/11/2019 11:06:12 AM G64387 |
| Surr: BFB | 100 | 77.4-118 | %Rec | 1 | 11/11/2019 11:06:12 AM G64387 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: NSB |
| Benzene | ND | 0.019 | mg/Kg | 1 | 11/11/2019 11:06:12 AM B64387 |
| Toluene | ND | 0.038 | mg/Kg | 1 | 11/11/2019 11:06:12 AM B64387 |
| Ethylbenzene | ND | 0.038 | mg/Kg | 1 | 11/11/2019 11:06:12 AM B64387 |
| Xylenes, Total | ND | 0.075 | mg/Kg | 1 | 11/11/2019 11:06:12 AM B64387 |
| Surr: 4-Bromofluorobenzene | 97.3 | 80-120 | %Rec | 1 | 11/11/2019 11:06:12 AM B64387 |

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

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 Quanitative 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

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Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 1911390

Date Reported: 11/12/2019

11/11/2019 11:52:06 AM B64387

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-18

 Project:
 Lobato GC D1
 Collection Date: 11/8/2019 12:45:00 PM

 Lab ID:
 1911390-004
 Matrix: MEOH (SOIL)
 Received Date: 11/9/2019 9:20:00 AM

Result **RL Qual Units DF** Date Analyzed Analyses Batch **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 60 mg/Kg 11/11/2019 1:20:42 PM 48707 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.7 mg/Kg 11/11/2019 12:38:33 PM 48703 ND Motor Oil Range Organics (MRO) 49 mg/Kg 1 11/11/2019 12:38:33 PM 48703 Surr: DNOP 87.1 70-130 %Rec 11/11/2019 12:38:33 PM 48703 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 11/11/2019 12:37:42 PM G64387 3.7 mg/Kg 1 Surr: BFB 11/11/2019 12:37:42 PM G64387 97.5 77.4-118 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 11/11/2019 11:52:06 AM B64387 Benzene 0.018 mg/Kg 1 Toluene ND 0.037 mg/Kg 11/11/2019 11:52:06 AM B64387 Ethylbenzene ND 0.037 mg/Kg 11/11/2019 11:52:06 AM B64387 1 11/11/2019 11:52:06 AM B64387 Xylenes, Total ND 0.073 mg/Kg 1

91.1

80-120

%Rec

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1911390**

13-Nov-19

Client: ENSOLUM
Project: Lobato GC D1

Sample ID: MB-48707 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 48707 RunNo: 64384

Prep Date: 11/11/2019 Analysis Date: 11/11/2019 SeqNo: 2205115 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-48707 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 48707 RunNo: 64384

Prep Date: 11/11/2019 Analysis Date: 11/11/2019 SeqNo: 2205116 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.3 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1911390

13-Nov-19

Client: ENSOLUM Project: Lobato GC D1

Sample ID: LCS-48677 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 48677 RunNo: 64373

Prep Date: 11/8/2019 Analysis Date: 11/11/2019 SeqNo: 2203564 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 5.000 96.4 70 4.8 130

Sample ID: MB-48703 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 48703 RunNo: 64373

Prep Date: 11/11/2019 Analysis Date: 11/11/2019 SeqNo: 2203753 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit Analyte Result **PQL** HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 8.4 10.00 84 1 70 130

TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID: LCS-48703 SampType: LCS

Client ID: LCSS Batch ID: 48703 RunNo: 64373

Prep Date: 11/11/2019 Analysis Date: 11/11/2019 SeqNo: 2203800 Units: mg/Kg

LowLimit %RPD Analyte Result **PQL** SPK value SPK Ref Val %REC HighLimit **RPDLimit** Qual Diesel Range Organics (DRO) 44 50.00 87.5 63.9 124 Surr: DNOP 4.1 5.000 82.0 70 130

Sample ID: MB-48677 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 48677 RunNo: 64380

11/8/2019 Analysis Date: 11/11/2019 SeqNo: 2203857 Units: %Rec Prep Date:

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 10.00 70

Surr: DNOP 12 116 130

Sample ID: 1911390-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: S-15 Batch ID: 48703 RunNo: 64380

Prep Date: 11/11/2019 Analysis Date: 11/11/2019 SeqNo: 2203865 Units: mg/Kg

%REC LowLimit %RPD **RPDLimit** Analyte PQL SPK value SPK Ref Val HighLimit Qual Result Diesel Range Organics (DRO) 2.539 49 9.8 49.02 95.2 57 142 10.5 20 Surr: DNOP 4.902 83.8 70 4.1 130

Sample ID: 1911390-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: S-15 Batch ID: 48703 RunNo: 64373

Prep Date: 11/11/2019 Analysis Date: 11/11/2019 SeqNo: 2203879 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Diesel Range Organics (DRO) 46.90 2.539 89.0 57 44 9.4 142

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: 1911390

13-Nov-19

Client: ENSOLUM Project: Lobato GC D1

Sample ID: 1911390-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: S-15 Batch ID: 48703 RunNo: 64373

SeqNo: 2203879 Prep Date: 11/11/2019 Analysis Date: 11/11/2019 Units: mg/Kg

Analyte SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit**

Surr: DNOP

4.2

4.690

88.9

70

130

Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 7 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1911390** *13-Nov-19*

Client: ENSOLUM
Project: Lobato GC D1

Sample ID: RB SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: G64387 RunNo: 64387

Prep Date: Analysis Date: 11/11/2019 SeqNo: 2204104 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 101 77.4 118

Sample ID: 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G64387 RunNo: 64387

Prep Date: Analysis Date: 11/11/2019 SeqNo: 2204105 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 23
 5.0
 25.00
 0
 90.8
 80
 120

 Surr: BFB
 1100
 1000
 114
 77.4
 118

Sample ID: 1911390-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: S-15 Batch ID: G64387 RunNo: 64387

Prep Date: Analysis Date: 11/11/2019 SeqNo: 2204106 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) 15 3.4 16.92 0 91.4 69.1 142

Surr: BFB 740 676.6 110 77.4 118

Sample ID: 1911390-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: S-15 Batch ID: G64387 RunNo: 64387

Prep Date: Analysis Date: 11/11/2019 SeqNo: 2204107 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 16.92 Gasoline Range Organics (GRO) 15 89.8 69.1 1.81 20 34 142 Surr: BFB 740 676.6 110 77.4 118 0 0

Sample ID: MB-48681 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 48681 RunNo: 64387

Prep Date: 11/8/2019 Analysis Date: 11/11/2019 SeqNo: 2204110 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 960 1000 95.9 77.4 118

Sample ID: LCS-48681 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 48681 RunNo: 64387

Prep Date: 11/8/2019 Analysis Date: 11/11/2019 SeqNo: 2204111 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Surr: BFB
 1100
 1000
 107
 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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1911390

13-Nov-19

| Client: | ENSOLUM |
|----------|--------------|
| Project: | Lobato GC D1 |

| Sample ID: RB | SampT | уре: МЕ | BLK | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
|----------------------------|------------|-----------------|-----------|-------------|-----------|-----------|--------------|------|----------|------|
| Client ID: PBS | Batch | n ID: B6 | 4387 | F | RunNo: 6 | 4387 | | | | |
| Prep Date: | Analysis D | ate: 11 | /11/2019 | S | SeqNo: 2 | 204132 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 99.9 | 80 | 120 | | | |

| Sample ID: 100NG BTEX LCS | Samp | ype: LC | S | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
|----------------------------|------------|-----------------|-----------|-------------|-----------|-----------|--------------|------|----------|------|
| Client ID: LCSS | Batc | n ID: B6 | 4387 | F | RunNo: 6 | 4387 | | | | |
| Prep Date: | Analysis D | Date: 11 | /11/2019 | S | SeqNo: 2 | 204133 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.88 | 0.025 | 1.000 | 0 | 88.0 | 80 | 120 | | | |
| Toluene | 0.90 | 0.050 | 1.000 | 0 | 90.0 | 80 | 120 | | | |
| Ethylbenzene | 0.89 | 0.050 | 1.000 | 0 | 89.0 | 80 | 120 | | | |
| Xylenes, Total | 2.7 | 0.10 | 3.000 | 0 | 88.8 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 101 | 80 | 120 | | | |

| Sample ID: MB-48681 | SampT | ype: ME | BLK | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
|----------------------------|------------|-----------------|-----------|-------------|-----------|-----------|--------------|------|----------|------|
| Client ID: PBS | Batch | ID: 48 | 681 | F | RunNo: 6 | 4387 | | | | |
| Prep Date: 11/8/2019 | Analysis D | ate: 1 1 | 1/11/2019 | S | SeqNo: 2 | 204138 | Units: %Rec | ; | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 0.95 | | 1 000 | | 94 9 | 80 | 120 | | | |

| Sample ID: LCS-48681 | SampT | ype: LC | S | Tes | tCode: El | PA Method | 8021B: Volat | iles | | | |
|----------------------------|------------|---------------|-----------|-------------|-----------|-----------|--------------|------|----------|------|--|
| Client ID: LCSS | Batch | 1D: 48 | 681 | F | RunNo: 6 | 4387 | | | | | |
| Prep Date: 11/8/2019 | Analysis D | ate: 1 | 1/11/2019 | 5 | SeqNo: 2 | 204139 | Units: %Red | : | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Surr: 4-Bromofluorobenzene | 0.98 | | 1.000 | | 97.7 | 80 | 120 | | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505 345 3075 EAV: 505 345 4107

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

| Client Name: | ENSOLUM AZTEC | Work Order Num | ber: 191 | 1390 | | RcptNo: | 1 |
|----------------------------------|---|-----------------------|----------|-------------|-------------------------------|----------------------------|--|
| Received By: | Isaiah Ortiz | 11/9/2019 9:20:00 | AM | | I_C Nominal Administration | 1 | |
| Completed By: | Yazmine Garduno | 11/10/2019 8:39:14 | 4 AM | | Nazmin Windows | į. | |
| Reviewed By: 1 | DAD 11/11/19 | | | | • | | |
| Chain of Cus | stody | | | | | _ | |
| 1. Is Chain of C | custody complete? | | Yes | ✓ | No 📙 | Not Present | |
| How was the | sample delivered? | | Cou | <u>rier</u> | | | |
| <u>Log In</u> 3. Was an atten | npt made to cool the sample | es? | Yes | V | No 🗆 | NA □ | |
| 4. Were all sam | ples received at a temperat | ure of >0° C to 6.0°C | Yes | V | No 🗌 | na 🗆 | |
| 5. Sample(s) in | proper container(s)? | | Yes | ~ | No 🗌 | | |
| 6. Sufficient san | nple volume for indicated te | st(s)? | Yes | ✓ | No 🗆 | | |
| | except VOA and ONG) pro | | Yes | <u> </u> | No \square | | |
| 8. Was preserva | ative added to bottles? | | Yes | | No 🗹 | NA \square | |
| 9. VOA vials hav | ve zero headspace? | | Yes | | No □ | No VOA Vials 🗹 | |
| 10. Were any sa | mple containers received br | oken? | Yes | | No 🗹 | # of preserved | and the same of th |
| | ork match bottle labels? ancies on chain of custody) | | Yes | V | No 🗆 | bottles checked for pH: | >12 unless noted) |
| 12. Are matrices | correctly identified on Chain | of Custody? | Yes | ✓ | No 🗆 | Adjusted? | |
| | at analyses were requested? | • | Yes | ✓ | No 🗆 | | |
| | ing times able to be met? sustomer for authorization.) | | Yes | ✓ | No 🗌 | Checked by: |)h 11/18 |
| Special Hand | ling (if applicable) | | | | | | |
| | otified of all discrepancies w | ith this order? | Yes | | No 🗌 | NA 🗹 | |
| Person | Notified: | Date | | | | |] |
| By Wh | om: | Via: | eM | ail 🗌 | Phone 🗌 Fax | ☐ In Person | |
| Regard | | | | | | | |
| Client I | nstructions: | | | | | | |
| 16. Additional re | emarks: | | | | | | |
| 17. Cooler Info | rmation | | | | | | |
| Cooler No | | Seal Intact Seal No | Seal D | ate | Signed By | | |
| 1 | 4.1 Good | | | | | | |
| | | | | | | | |
| | | | | | | | |

| S-15 x 4\2 5\ar{\chi} \tau \tau \tau \tau \tau \tau \tau \tau | Client: Enschangtec Client: Enschangtec Mailing Address: Cole & Rio Grands, Suite A Phone #: Email or Fax#: Ksumvn Lrs elegation OA/OC Package: Standard Description: Level 4 (Full Validation) Accreditation: Az Compliance Divide: EDD (Type) Cooler Tempinguain | Section 1 | HALL E ANALY ANALY Www.hallenvi Www.hallenvi Br, NO₃, NO₃, PO₄, SO₄ Br, NO₃, NO₃, PO₄, SO₄ Br, NO₃, NO₃, PO₄, SO₄ |
|---|---|---------------------------------|--|
| | Time Matrix 1230 S | Preservative 19 HEAL No. Type | ### PPH:8 ### PP |
| | 1235 S | 700- | |
| Date: Time: Relinquished by: Received by: | 340 2 1245 S | × 1000 × × | |
| | | | |
| Date: Time: Relinquished by: Second Second | | | |
| Date: Time: Relinquished by: Received by: Via: Date Time Remarks: PM-Torn Long (EPROD) Syly 174 White Date: Time: Relinquished by: Via: Date: Time: Relinquished by: Via: Date: Time Symbol Windows No. AFE-N44240 | | | |
| 18/19 1741 Whatee Date Time: Relinquished by: | Time | ved by: Via: Date Time | PM-Ton Long |
| | 11/8/19 1741 Arustu Oco teus | Received by: Vie. Date Time SAT | MERY Pay Key- RB 21200 WON AFE- NUU290 |