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: 151618
Contact Name: Thomas Long	Contact Telephone: 505-599-2286
Contact email:tjlong@eprod.com	Incident # (assigned by OCD): NCE2003538771
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

Location of Release Source

Latitude 36.549324	_Longitude _107.736168	(NAD 83 in decimal degrees to 5 decimal places)
Site Name Lateral C-7 Loop Pipeline	Site Type Natura	I Gas Gathering Pipeline
Date Release Discovered: 01/08/2020	Serial Number (if a	applicable):) N/A

Unit Letter	Section	Township	Range	County
G	25	27N	9W	San Juan

Surface Owner: State Federal Tribal Private (Name: Navajo Nation

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls) Produced Water Volume Released (bbls) Volume Recovered (bbls) Is the concentration of dissolved chloride in the Yes No produced water >10,000 mg/l? Condensate Volume Released (bbls): 5-7 BBLS Volume Recovered (bbls): None Natural Gas Volume Released (Mcf): 22 MCF Volume Recovered (Mcf): None Other (describe) Volume/Weight Released (provide units): Volume/Weight Recovered (provide units) Cause of Release: On January 8, 2020, Enterprise discovered a natural gas release on the Lateral C-7 Loop pipeline. No fluids were

released to the ground surface. The pipeline was blown down, depressurized, locked out and tagged out. The release was located in an ephemeral wash (a blue line on a USGS Topo Map). Remediation was completed on January 23, 2020. The final excavation dimensions measured approximately 30 feet long by 16 feet wide by approximately 15.5 feet deep. Approximately 96 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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Page 2

Oil Conservation Division

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.

<u>Closure Report Attachment Checklist</u> : Each of the y	following items must be included in the closure report.
A scaled site and sampling diagram as described in	19.15.29.11 NMAC
Photographs of the remediated site prior to backfill must be notified 2 days prior to liner inspection)	l or photos of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: approp	priate 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 a and regulations all operators are required to report and/or may endanger public health or the environment. The acc should their operations have failed to adequately investig human health or the environment. In addition, OCD acce compliance with any other federal, state, or local laws and restore, reclaim, and re-vegetate the impacted surface are accordance with 19.15.29.13 NMAC including notification Printed Name: Jon E. Fields Signature:	and complete to the best of my knowledge and understand that pursuant to OCD rules if file certain release notifications and perform corrective actions for releases which eptance of a C-141 report by the OCD does not relieve the operator of liability ate and remediate contamination that pose a threat to groundwater, surface water, eptance of a C-141 report does not relieve the operator of responsibility for d/or regulations. The responsible party acknowledges they must substantially a to the conditions that existed prior to the release or their final land use in on to the OCD when reclamation and re-vegetation are complete. Title: Director, Environmental Date: $10/2s/2020$ Telephone: (713) 381-6684
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the respons remediate contamination that poses a threat to groundwate party of compliance with any other federal, state, or local	sible party of liability should their operations have failed to adequately investigate and or, surface water, human health, or the environment nor does not relieve the responsible laws and/or regulations.
Closure Approved by:	Date: 05/16/2022
Printed Name: Nelson Velez	Title: Environmental Specialist – Adv



CLOSURE REPORT

Property:

Lateral C-7 Loop Pipeline Release NE ¼, S25 T27N R9W San Juan County, New Mexico

September 18, 2020 Ensolum Project No. 05A1226087

Prepared for:

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

Prepared by:

et Lechi

Ranee Deechilly Environmental Scientist

Ummo

Kyle Summers, CPG Sr. Project Manager

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Appendix B:	Siting Figure Figure A Figure B Figure C Figure D Figure E Figure F Figure G Figure H	es and Documentation One Mile Radius Water Well Map Cathodic Protection Well Recorded Depth to Water 300-Foot Radius Watercourse and Drainage Identification 300-Foot Radius Occupied Structure Identification Water Well and Natural Spring Location Wetlands Mines, Mills, and Quarries 100-Year Flood Plain Map
Appendix C:	Executed C-	-138 Solid Waste Acceptance Form
Appendix D:	Photograph	ic Documentation
Appendix E:	Table 1 - So	il Analytical Summary
Appendix F:	Laboratory	Data Sheets & Chain of Custody Documentation

Appendix G: Regulatory Correspondence



CLOSURE REPORT

Lateral C-7 Loop Pipeline Release NE ¼, S25 T27N R9W San Juan County, New Mexico

Ensolum Project No. 05A1226087

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Lateral C-7 Loop Pipeline Release (Site)
Location:	36.549324° North, 107.736168° West Northeast (NE) ¼ of Section 25, Township 27 North, Range 9 West San Juan County, New Mexico
Property:	Navajo Nation
Regulatory:	Navajo Nation Environmental Protection Agency (NNEPA) and New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On January 8, 2020, a release of natural gas was identified on the Lateral C-7 Loop pipeline. Enterprise subsequently isolated and locked the pipeline out of service. On January 14, 2020, 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 NNEPA and the New Mexico EMNRD OCD. Ensolum, LLC (Ensolum) referenced New Mexico Administrative Code (NMAC) 19.15.29 *Releases,* which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action, during the evaluation and remediation of the Site. Ensolum utilized 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. Supporting figures and documentation associated with the following bullets are provided in **Appendix B**.

• The OSE tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable

Enterprise Field Services, LLC Closure Report Lateral C-7 Loop Pipeline Release September 18, 2020



and includes an interactive map). No PODs were identified within a one-mile radius of the Site in the OSE WRRS database. In addition, no PODs were identified in adjacent Sections.

- One (1) cathodic protection well was identified within a mile of the Site. The cathodic protection well associated with the Huerfanito Unit #10, #178, #151 oil/gas production wells (Unit A, Sec 36 T27N R9W), located approximately 0.9 miles south of the Site and at a higher elevation (6,135 feet) than the Site (6,119 feet), indicates a depth to water of approximately 25 feet below grade surface (bgs).
- The Site is located within 300 feet of a New Mexico EMNRD OCD-defined continuously flowing watercourse or significant watercourse. An ephemeral wash is located approximately 55 feet north of the excavation.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church.
- No springs, or private domestic fresh water wells used by less than five (5) households for domestic or stock watering purposes were identified within 500 feet of the Site.
- No fresh water wells or springs were identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not located within 300 feet of a wetland.
- Based on information identified in the New Mexico Mining and Minerals Division's Geographic Information System (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.
- Based on information identified in the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not located within a 100-year floodplain.

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

Closure Criteria for Soils Impacted by a Release				
Constituent	Method	Limit		
Chloride	EPA 300.0 or SM4500 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 January 14, 2020, Enterprise initiated activities to facilitate the repair of the pipeline and remediate petroleum hydrocarbon impact. 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 30 feet long and 16 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 15.5 feet bgs.

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

A total of approximately 96 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation will be backfilled with a combination of imported fill and segregated, laboratory-confirmed, unaffected stockpiled soils and then contoured to the surrounding grade.

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

4.0 SOIL SAMPLING PROGRAM

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

Ensolum's soil sampling program included the collection of 21 composite soil samples (S-1 through S-21), comprised of five (5) aliquots each, from the excavation for laboratory analysis. In addition, two (2) composite soil samples (SP-1 and SP-2) were collected from the soils that were segregated for potential reuse, to confirm the material was suitable to remain on Site. A clean shovel was utilized to obtain fresh aliquots from each accessible area of the excavation. An excavator was utilized to obtain fresh aliquots from areas of the excavation that exceeded depths greater than 10 feet bgs. Regulatory correspondence is provided in **Appendix G**.

First Sampling Event

On January 15, 2020, the initial pipeline repair excavation was sampled. Composite soil samples S-1 (10'), S-2 (10'), and S-10 (9') were collected from the floor of the excavation. Composite soil samples S-3 (0'-10'), S-4 (0'-10'), S-5 (0'-10'), S-6 (0'-10'), S-7 (0'-10'), S-8 (0'-9'), S-9 (0'-7'), S-11 (0'-5'), S-12 (0'-7'), S-13 (0'-9'), and S-14 (0'-10') were collected from the sidewalls of the initial repair-excavation. The floor on the southern portion of the excavation was not sampled during this sampling event because additional excavation was deemed necessary in that area.

Second Sampling Event

On January 17, 2020, a second sampling event was performed. Composite soil samples S-15 (14') and S-16 (14') were collected from the floor of the southern portion of the excavation. Composite soil samples S-17 (10'-14'), S-18 (10'-14'), S-19 (10'-14'), and S-20 (10'-14') were collected from the lower portion of the newly exposed sidewalls. The analytical results indicated that the chloride concentration in sample S-16 exceeded the New Mexico EMNRD OCD closure criteria. In response to that exceedance, Enterprise deepened the excavation and removed the soil associated with composite sample S-16. Removed soils were transported to the landfarm for disposal and remediation. Enterprise Field Services, LLC Closure Report Lateral C-7 Loop Pipeline Release September 18, 2020



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Third Sampling Event

After additional excavation, a third sampling event was performed on January 23, 2020. Composite soil sample S-21 (15.5') was collected from the floor of the excavation to replace composite soil sample S-16, which was removed by excavation due to elevated chlorides.

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

5.0 SOIL LABORATORY ANALYTICAL METHODS

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

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

6.0 DATA EVALUATION

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results or laboratory supplied practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-15, S-17 through S-21, SP-1, and SP-2) to the applicable New Mexico EMNRD OCD closure criteria. Soil associated with composite soil sample S-16 was transported to Envirotech landfarm for disposal/remediation and is 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 applicable 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 applicable New Mexico EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical result for composite soil sample S-14 indicates a combined TPH GRO/DRO/MRO concentration of 12 mg/kg, which does not exceed the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for the remaining composite soil samples collected from soils remaining at the Site indicate TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 100 closure criteria of 100 mg/kg.
- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate chloride concentrations ranging from below laboratory PQLs/RLs to 590 mg/kg (S-15), which are less than the applicable New Mexico EMNRD OCD closure criteria of 600 mg/kg for chlorides.

The laboratory analytical results are summarized in Table 1 (Appendix E).

Enterprise Field Services, LLC Closure Report Lateral C-7 Loop Pipeline Release September 18, 2020



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7.0 RECLAMATION AND REVEGETATION

Due to the international novel coronavirus, Enterprise has been unable to obtain suitable pipe to complete pipeline repairs. Once the pipeline repairs are completed, Enterprise will backfill the excavation with a combination of imported fill and segregated, laboratory-confirmed, unaffected stockpiled soils and then contoured to the surrounding grade. Enterprise will re-seed the Site with an approved seeding mixture.

8.0 FINDINGS AND RECOMMENDATION

- A total of 21 composite soil samples were collected from the excavation. In addition, two (2) composite soil samples were collected from segregated stockpiled soils. Based on laboratory analytical results, the soils remaining in place at the Site do not exhibit COC concentrations above the applicable New Mexico EMNRD OCD closure criteria.
- A total of approximately 96 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation. A combination of imported fill and segregated, laboratory-confirmed, unaffected stockpiled soils will be used to backfill the excavation. The excavation will then be contoured to the 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 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendation are based solely upon data available to Ensolum at the time of these services.

9.3 Reliance

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



APPENDIX A

Figures

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APPENDIX B

Siting Figures and Documentation

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

No records found.

PLSS Search:

Section(s): 25, 24, 23, 26, Township: 27N 35, 36

Range: 09W

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



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

No records found.

PLSS Search:

Section(s): 19, 30, 31

Township: 27N

Range: 08W

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

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Name of	Well/Wells or Pipeli	ne Serviced	HUERFANITO U	NIT #10, #178, #1
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If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included

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

Received by OCD: 10/29/2020 8:14:21 AM Page 26 of 96 WELL CASING CATHOD PROTECTION CONSTRUCTION REPORT Comp 7128 DAILY LOG Completion Date 6-27-8 Drilling Log (Attach Hereto) \square . 876 Work Order 5. Ins. Union Check 05. Well Name, Line or Plant: Good Bad . 3513A 2159 Kula 7 Lm Location: Loode Size Anode Type: Size Bit: 6 44 NE '_ 6-27-2 X 60 Depth Drilled Depth Logged No. Sacks Mud Used ---**Drilling Rig Tin** Total Lbs. Goke Used 300 303 Anode Depth 1 2 235 # 3 225 # 4 2/5 # 5 205 # 6 195 # 7 185 # 8 175 # 9 165 # 10/55 *1245 Anode Output (Amps) *1 5.5 # 2 5.9 #6 5.8 #76.8 #9 6.8 # 106.5 #3 57 # 4 6.4 # 5 1= 8 6.8 6.1 **Anode Depth** # 17 # 11 # 12 # 13 # 14 # 15 # 16 # 18 # 19 # 20 Anode Output (Amps) # 17 # 20 # 11 # 12 # 13 # 14 # 15 # 18 # 19 # 16 No. 2 C.P. Cable Used Total Circuit Resistance No. 8 C.P. Cable Used 44 Ohma Volts 11.95 Amps 27.0 Duller said longed 303 led 300 Remarks: sing (1 hr. A serfasated ρνε batta <u>60 V</u> 301 Rectifier Size:___ All Construction Completed Addn'l Depth_ 75 Depth Credit:__ 20 Extra Cable:_ 360 150 -10 Ditch & 1 Cable:_ (Signature) 25 'Meter Pole:_ GROUND BED LAYOUT SKETCH 20' Meter Pole: Nucefanto "10 10' Stub Pole: Junction Box: Surface Casing 30 1hr. 3.870.00 2 Dehg 789.001 ۵'n - 738. 75 🗸 N 72.00 1 805.00 / 333.751 237.00 1 138.00, 180 5506.00/ 2753 o 7 , 3t 5781.30 Released to Imaging: 5/16/2022 1:26:13 PM

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APPENDIX C

Executed C-138 Solid Waste Acceptance Form

. Released to Imaging: 5/16/2022 1:26:13 PM

Received by OCD: 10/29/2020 8:14:21 AM

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

97057-1062 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 S	SOLID WASTE
1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401	AFE: Pending PayKey: RB21200 PM: Maron O'Brien
2. Originating Site: Lateral C-7 Loop	
3. Location of Material (Street Address, City, State or ULSTR): UL G Section 25 T27N R9W; 36.549324 -107.736168	Jan. 2000
4. Source and Description of Waste: Source: Remediation activities associated with a natural gas pipeline leak. Description: Hydrocarbon/Condensate impacted soil associated natural gas pipeline release. Estimated Volume <u>50</u> vd bbls Known Volume (to be entered by the operator at the end	of the haul) yd3/ bbls
5. GENERATOR CERTIFICATION STATEMENT OF WA	STE STATUS
I, Thomas Long There have a representative or authorized agent for Enterprise Products Operatin Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US En regulatory determination, the above described waste is: (Check the appropriate classification)	ng do hereby nvironmental Protection Agency's July 1988
RCRA Exempt: Oil field wastes generated from oil and gas exploration and producti exempt waste. <u>Operator Use Only: Waste Acceptance Frequency Monthly</u>	ion operations and are not mixed with non- Weekly Per Load
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardo subpart D, as amended. The following documentation is attached to demonstrate the above the appropriate items)	e minimum standards for waste hazardous by ous waste as defined in 40 CFR, part 261, ve-described waste is non-hazardous. (Check
□ MSDS Information □ RCRA Hazardous Waste Analysis □ Process Knowledge [Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEM	IENT FOR LANDFARMS
I, Thomas Long I-9-2020, representative for Enterprise Products Operating authoriz Generator Signature the required testing/sign the Generator Waste Testing Certification.	zes Envirotech <u>, Inc.</u> to complete
I, <u>Civeg</u> <u>Cived</u> , representative for <u>Envirotech</u> <u>Inc.</u> representative samples of the oil field waste have been subjected to the paint filter test and test have been found to conform to the specific requirements applicable to landfarms pursuant to S of the representative samples are attached to demonstrate the above-described waste conform 19.15.36 NMAC.	do hereby certify that ted for chloride content and that the samples Section 15 of 19.15.36 NMAC. The results to the requirements of Section 15 of
5. Transporter: Biley Industrial Halo	
OCD Permitted Surface Waste Management Facility	6 A1 AD11
Address of Facility: Hilltop, NM Method of Treatment and/or Disposal: Evaporation Injection Treating Plant Index Landfarm I	andfill] Other
Waste Acceptance Status:	
PRINT NAME: SIGNATURE: Surface/Waste Management Facility Authorized Agent DENIED TITLE: TITLE: TELEPHONE NO.: <u>505-6</u>	(Must Be Maintained As Permanent Record) <u>NAMACL</u> DATE: <u>1/17/20</u> 32-0615

.



APPENDIX D

Photographic Documentation

SITE PHOTOGRAPHS

Enterprise Field Services, LLC Closure Report Lateral C-7 Loop Pipeline Release Ensolum Project No. 05A1226087





SITE PHOTOGRAPHS

Enterprise Field Services, LLC Closure Report Lateral C-7 Loop Pipeline Release Ensolum Project No. 05A1226087



Photograph 4

Photograph Description: View of the final pipeline excavation.





APPENDIX E

Table 1 – Soil Analytical Summary

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ENSOLUM

TABLE 1 Lateral C-7 Loop Pipeline Release SOIL ANALYTICAL SUMMARY													
Sample I.D.	Date	Sample Type	Sample Depth	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	TPH	TPH	TPH	Total Combined	Chloride
		C- Composite G - Grab	(Feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO	DRO	MRO	TPH (GRO/DRO/MRO)	(mg/kg)
		0 0.00							(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria				10	NE	NE	NE	50				100	600
Composite Soil Sample Removed by Excavation and Transported to the Landfarm for Disposal/Remediation													
S-16	1.17.20	С	14	<0.014	<0.029	<0.029	<0.058	ND	<2.9	<9.7	<49	ND	670
Stockpiled Soil Samples													
SP-1	1.15.20	С	Stockpile	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.7	<48	ND	<60
SP-2	1.15.20	С	Stockpile	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<9.1	<45	ND	<61
Excavation Composite Soil Samples													
S-1	1.15.20	С	10	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<8.8	<44	ND	140
S-2	1.15.20	С	10	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.6	<48	ND	140
S-3	1.15.20	С	0 to 10	<0.025	<0.050	<0.050	<0.099	ND	<5.0	<9.3	<46	ND	<60
S-4	1.15.20	С	0 to 10	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.7	<48	ND	<60
S-5	1.15.20	С	0 to 10	<0.025	<0.050	<0.050	<0.099	ND	<5.0	<9.5	<47	ND	110
S-6	1.15.20	С	0 to 10	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<10	<51	ND	230
S-7	1.15.20	С	0 to 10	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<10	<50	ND	<60
S-8	1.15.20	С	0 to 9	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<9.6	<48	ND	<60
S-9	1.15.20	С	0 to 7	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<9.8	<49	ND	<60
S-10	1.15.20	С	9	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<10	<50	ND	<60
S-11	1.15.20	С	0 to 5	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.5	<47	ND	<60
S-12	1.15.20	С	0 to 7	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.4	<47	ND	<60
S-13	1.15.20	С	0 to 9	<0.023	<0.047	<0.047	<0.093	ND	<4.7	<9.3	<46	ND	<60
S-14	1.15.20	С	0 to 10	<0.024	<0.047	<0.047	<0.095	ND	<4.7	12	<49	12	100
S-15	1.17.20	С	14	<0.074	<0.15	<0.15	<0.30	ND	<15	<9.5	<48	ND	590
S-17	1.17.20	С	10 to 14	<0.015	<0.030	<0.030	<0.059	ND	<3.0	<9.7	<48	ND	140
S-18	1.17.20	С	10 to 14	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.9	<49	ND	210
S-19	1.17.20	С	10 to 14	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.8	<49	ND	95
S-20	1.17.20	С	10 to 14	<0.017	<0.035	<0.035	<0.070	ND	<3.5	<9.3	<46	ND	150
S-21	1.23.20	С	15.5	<0.083	<0.17	<0.17	<0.33	ND	<17	<9.1	<46	ND	230

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 F

Laboratory Data Sheets & Chain of Custody Documentation



January 21, 2020

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

RE: Lateral C-7 Loop Jan 2020

OrderNo.: 2001611

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 14 sample(s) on 1/16/2020 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109
Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT:	ENSOLUM		Cl	ient Sample II	D: S-	1	
Project:	Lateral C-7 Loop Jan 2020		(Collection Dat	e: 1/1	15/2020 1:00:00 PM	
Lab ID:	2001611-001	Matrix: SOIL		Received Date	e: 1/1	16/2020 7:50:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	CAS
Chloride		140	60	mg/Kg	20	1/20/2020 1:16:42 PM	49911
EPA MET	THOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM
Diesel R	ange Organics (DRO)	ND	8.8	mg/Kg	1	1/17/2020 10:58:53 AM	49879
Motor Oi	l Range Organics (MRO)	ND	44	mg/Kg	1	1/17/2020 10:58:53 AM	49879
Surr: [DNOP	145	55.1-146	%Rec	1	1/17/2020 10:58:53 AM	49879
ΕΡΑ ΜΕΤ	THOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline	e Range Organics (GRO)	ND	4.7	mg/Kg	1	1/17/2020 10:32:02 AM	49873
Surr: E	BFB	81.3	66.6-105	%Rec	1	1/17/2020 10:32:02 AM	49873
ΕΡΑ ΜΕΤ	THOD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	0.024	mg/Kg	1	1/17/2020 10:32:02 AM	49873
Toluene		ND	0.047	mg/Kg	1	1/17/2020 10:32:02 AM	49873
Ethylben	zene	ND	0.047	mg/Kg	1	1/17/2020 10:32:02 AM	49873
Xylenes,	Total	ND	0.095	mg/Kg	1	1/17/2020 10:32:02 AM	49873
Surr: 4	4-Bromofluorobenzene	91.3	80-120	%Rec	1	1/17/2020 10:32:02 AM	49873

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
- Н 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 S

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

Page 1 of 18

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

						_	
CLIENT:	ENSOLUM		Cl	ient Sample II	D: S-2	2	
Project:	Lateral C-7 Loop Jan 2020		(Collection Dat	e: 1/1	15/2020 1:05:00 PM	
Lab ID:	2001611-002	Matrix: SOIL		Received Dat	e: 1/1	16/2020 7:50:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	CAS
Chloride		140	60	mg/Kg	20	1/20/2020 1:53:55 PM	49911
EPA MET	HOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM
Diesel Ra	ange Organics (DRO)	ND	9.6	mg/Kg	1	1/17/2020 11:08:02 AM	49879
Motor Oi	I Range Organics (MRO)	ND	48	mg/Kg	1	1/17/2020 11:08:02 AM	49879
Surr: [ONOP	104	55.1-146	%Rec	1	1/17/2020 11:08:02 AM	49879
EPA MET	HOD 8015D: GASOLINE RANG	SE				Analyst	NSB
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	1/17/2020 10:55:24 AM	49873
Surr: E	3FB	80.4	66.6-105	%Rec	1	1/17/2020 10:55:24 AM	49873
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	0.024	mg/Kg	1	1/17/2020 10:55:24 AM	49873
Toluene		ND	0.048	mg/Kg	1	1/17/2020 10:55:24 AM	49873
Ethylben	zene	ND	0.048	mg/Kg	1	1/17/2020 10:55:24 AM	49873
Xylenes,	Total	ND	0.097	mg/Kg	1	1/17/2020 10:55:24 AM	49873
Surr: 4	4-Bromofluorobenzene	90.8	80-120	%Rec	1	1/17/2020 10:55:24 AM	49873

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
- Н 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 S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT:	ENSOLUM		Cl	ient Sample II): S-2	3	
Project:	Lateral C-7 Loop Jan 2020		(Collection Dat	e: 1/1	15/2020 1:10:00 PM	
Lab ID:	2001611-003	Matrix: SOIL		Received Date	e: 1/1	16/2020 7:50:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	CAS
Chloride		ND	60	mg/Kg	20	1/20/2020 2:06:20 PM	49911
EPA MET	THOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM
Diesel R	ange Organics (DRO)	ND	9.3	mg/Kg	1	1/17/2020 11:17:06 AM	49879
Motor Oi	il Range Organics (MRO)	ND	46	mg/Kg	1	1/17/2020 11:17:06 AM	49879
Surr: I	DNOP	106	55.1-146	%Rec	1	1/17/2020 11:17:06 AM	49879
EPA MET	THOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline	e Range Organics (GRO)	ND	5.0	mg/Kg	1	1/17/2020 2:27:17 PM	49873
Surr: I	BFB	83.5	66.6-105	%Rec	1	1/17/2020 2:27:17 PM	49873
EPA MET	THOD 8021B: VOLATILES					Analyst	NSB
Benzene	9	ND	0.025	mg/Kg	1	1/17/2020 2:27:17 PM	49873
Toluene		ND	0.050	mg/Kg	1	1/17/2020 2:27:17 PM	49873
Ethylben	izene	ND	0.050	mg/Kg	1	1/17/2020 2:27:17 PM	49873
Xylenes,	Total	ND	0.099	mg/Kg	1	1/17/2020 2:27:17 PM	49873
Surr: 4	4-Bromofluorobenzene	93.0	80-120	%Rec	1	1/17/2020 2:27:17 PM	49873

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
- Н 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 S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT:	ENSOLUM		Cl	ient Sample II	D: S-4	4	
Project:	Lateral C-7 Loop Jan 2020		(Collection Dat	e: 1/1	15/2020 1:15:00 PM	
Lab ID:	2001611-004	Matrix: SOIL		Received Dat	e: 1/1	16/2020 7:50:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	CAS
Chloride		ND	60	mg/Kg	20	1/20/2020 2:18:44 PM	49911
EPA MET	THOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM
Diesel R	ange Organics (DRO)	ND	9.7	mg/Kg	1	1/17/2020 11:26:14 AM	49879
Motor Oi	l Range Organics (MRO)	ND	48	mg/Kg	1	1/17/2020 11:26:14 AM	49879
Surr: [DNOP	104	55.1-146	%Rec	1	1/17/2020 11:26:14 AM	49879
EPA MET	HOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline	e Range Organics (GRO)	ND	4.8	mg/Kg	1	1/17/2020 2:50:34 PM	49873
Surr: E	BFB	82.4	66.6-105	%Rec	1	1/17/2020 2:50:34 PM	49873
EPA MET	THOD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	0.024	mg/Kg	1	1/17/2020 2:50:34 PM	49873
Toluene		ND	0.048	mg/Kg	1	1/17/2020 2:50:34 PM	49873
Ethylben	zene	ND	0.048	mg/Kg	1	1/17/2020 2:50:34 PM	49873
Xylenes,	Total	ND	0.097	mg/Kg	1	1/17/2020 2:50:34 PM	49873
Surr: 4	4-Bromofluorobenzene	93.1	80-120	%Rec	1	1/17/2020 2:50:34 PM	49873

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
- Н 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 S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT:	ENSOLUM		Cl	ient Sample II): S-:	5	
Project:	Lateral C-7 Loop Jan 2020		(Collection Dat	e: 1/1	15/2020 1:20:00 PM	
Lab ID:	2001611-005	Matrix: SOIL		Received Date	e: 1/1	16/2020 7:50:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	CAS
Chloride		110	60	mg/Kg	20	1/20/2020 2:31:09 PM	49911
EPA MET	THOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM
Diesel R	ange Organics (DRO)	ND	9.5	mg/Kg	1	1/17/2020 11:35:22 AM	49879
Motor Oi	l Range Organics (MRO)	ND	47	mg/Kg	1	1/17/2020 11:35:22 AM	49879
Surr: [DNOP	106	55.1-146	%Rec	1	1/17/2020 11:35:22 AM	49879
EPA MET	HOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline	e Range Organics (GRO)	ND	5.0	mg/Kg	1	1/17/2020 3:14:08 PM	49873
Surr: E	BFB	81.5	66.6-105	%Rec	1	1/17/2020 3:14:08 PM	49873
EPA MET	THOD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	0.025	mg/Kg	1	1/17/2020 3:14:08 PM	49873
Toluene		ND	0.050	mg/Kg	1	1/17/2020 3:14:08 PM	49873
Ethylben	zene	ND	0.050	mg/Kg	1	1/17/2020 3:14:08 PM	49873
Xylenes,	Total	ND	0.099	mg/Kg	1	1/17/2020 3:14:08 PM	49873
Surr: 4	4-Bromofluorobenzene	92.8	80-120	%Rec	1	1/17/2020 3:14:08 PM	49873

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
- Н 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 S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT: ENSOLUM		Cl	ient Sample II): S-(6	
Project: Lateral C-7 Loop Jan 2020		(Collection Date	e: 1/1	15/2020 1:25:00 PM	
Lab ID: 2001611-006	Matrix: SOIL		Received Date	e: 1/1	16/2020 7:50:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	230	60	mg/Kg	20	1/20/2020 2:43:33 PM	49911
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/17/2020 1:45:38 PM	49879
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	1/17/2020 1:45:38 PM	49879
Surr: DNOP	105	55.1-146	%Rec	1	1/17/2020 1:45:38 PM	49879
EPA METHOD 8015D: GASOLINE RANG	Ε				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/17/2020 3:37:35 PM	49873
Surr: BFB	82.8	66.6-105	%Rec	1	1/17/2020 3:37:35 PM	49873
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	1/17/2020 3:37:35 PM	49873
Toluene	ND	0.048	mg/Kg	1	1/17/2020 3:37:35 PM	49873
Ethylbenzene	ND	0.048	mg/Kg	1	1/17/2020 3:37:35 PM	49873
Xylenes, Total	ND	0.097	mg/Kg	1	1/17/2020 3:37:35 PM	49873
Surr: 4-Bromofluorobenzene	93.1	80-120	%Rec	1	1/17/2020 3:37:35 PM	49873

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
- Н 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 S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT:	ENSOLUM		Cl	ient Sample II	D: S-'	7	
Project:	Lateral C-7 Loon Jan 2020		(Collection Dat	e: 1/1	15/2020 1·30·00 PM	
Lab ID:	2001611-007	Matrix: SOIL		Received Dat	e: 1/1	16/2020 7:50:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	CAS
Chloride		ND	60	mg/Kg	20	1/20/2020 3:20:46 PM	49911
EPA MET	THOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM
Diesel R	ange Organics (DRO)	ND	10	mg/Kg	1	1/17/2020 11:53:38 AM	49879
Motor Oi	Range Organics (MRO)	ND	50	mg/Kg	1	1/17/2020 11:53:38 AM	49879
Surr: [DNOP	107	55.1-146	%Rec	1	1/17/2020 11:53:38 AM	49879
EPA MET	THOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	1/17/2020 4:24:31 PM	49873
Surr: E	BFB	84.2	66.6-105	%Rec	1	1/17/2020 4:24:31 PM	49873
EPA MET	THOD 8021B: VOLATILES					Analyst	: NSB
Benzene		ND	0.024	mg/Kg	1	1/17/2020 4:24:31 PM	49873
Toluene		ND	0.049	mg/Kg	1	1/17/2020 4:24:31 PM	49873
Ethylben	zene	ND	0.049	mg/Kg	1	1/17/2020 4:24:31 PM	49873
Xylenes,	Total	ND	0.097	mg/Kg	1	1/17/2020 4:24:31 PM	49873
Surr: 4	4-Bromofluorobenzene	96.2	80-120	%Rec	1	1/17/2020 4:24:31 PM	49873

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
- Н 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 S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT:	ENSOLUM		Cl	ient Sample II	D: S-3	8	
Project:	Lateral C-7 Loop Jan 2020		(Collection Dat	e: 1/1	15/2020 1:35:00 PM	
Lab ID:	2001611-008	Matrix: SOIL		Received Date	e: 1/1	16/2020 7:50:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	CAS
Chloride		ND	60	mg/Kg	20	1/20/2020 3:33:11 PM	49911
EPA MET	THOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM
Diesel R	ange Organics (DRO)	ND	9.6	mg/Kg	1	1/17/2020 12:02:52 PM	49879
Motor Oi	l Range Organics (MRO)	ND	48	mg/Kg	1	1/17/2020 12:02:52 PM	49879
Surr: [DNOP	86.8	55.1-146	%Rec	1	1/17/2020 12:02:52 PM	49879
EPA MET	HOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	1/17/2020 4:48:04 PM	49873
Surr: E	BFB	80.6	66.6-105	%Rec	1	1/17/2020 4:48:04 PM	49873
EPA MET	THOD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	0.024	mg/Kg	1	1/17/2020 4:48:04 PM	49873
Toluene		ND	0.049	mg/Kg	1	1/17/2020 4:48:04 PM	49873
Ethylben	zene	ND	0.049	mg/Kg	1	1/17/2020 4:48:04 PM	49873
Xylenes,	Total	ND	0.097	mg/Kg	1	1/17/2020 4:48:04 PM	49873
Surr: 4	4-Bromofluorobenzene	92.1	80-120	%Rec	1	1/17/2020 4:48:04 PM	49873

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
- Н 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 S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT:	ENSOLUM		Cl	ient Sample II): S-9	9	
Project:	Lateral C-7 Loop Jan 2020		(Collection Date	e: 1/1	15/2020 1:40:00 PM	
Lab ID:	2001611-009	Matrix: SOIL		Received Date	e: 1/1	16/2020 7:50:00 AM	
Analyses	3	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	CAS
Chloride		ND	60	mg/Kg	20	1/20/2020 3:45:36 PM	49911
EPA MET	THOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM
Diesel R	ange Organics (DRO)	ND	9.8	mg/Kg	1	1/17/2020 12:12:07 PM	49879
Motor Oi	il Range Organics (MRO)	ND	49	mg/Kg	1	1/17/2020 12:12:07 PM	49879
Surr: I	DNOP	87.5	55.1-146	%Rec	1	1/17/2020 12:12:07 PM	49879
EPA MET	THOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	1/17/2020 7:31:58 PM	49873
Surr: I	BFB	81.0	66.6-105	%Rec	1	1/17/2020 7:31:58 PM	49873
EPA MET	THOD 8021B: VOLATILES					Analyst	NSB
Benzene	9	ND	0.025	mg/Kg	1	1/17/2020 7:31:58 PM	49873
Toluene		ND	0.049	mg/Kg	1	1/17/2020 7:31:58 PM	49873
Ethylben	nzene	ND	0.049	mg/Kg	1	1/17/2020 7:31:58 PM	49873
Xylenes,	, Total	ND	0.098	mg/Kg	1	1/17/2020 7:31:58 PM	49873
Surr: 4	4-Bromofluorobenzene	93.4	80-120	%Rec	1	1/17/2020 7:31:58 PM	49873

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
- Н 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 S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT:	ENSOLUM		Cl	ient Sample II): S-	10	
Project:	Lateral C-7 Loop Jan 2020		(Collection Dat	e: 1/1	15/2020 1:45:00 PM	
Lab ID:	2001611-010	Matrix: SOIL		Received Date	e: 1/1	16/2020 7:50:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	CAS
Chloride		ND	60	mg/Kg	20	1/20/2020 3:58:00 PM	49911
EPA MET	THOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst	BRM
Diesel R	ange Organics (DRO)	ND	10	mg/Kg	1	1/17/2020 12:21:22 PM	49879
Motor Oi	l Range Organics (MRO)	ND	50	mg/Kg	1	1/17/2020 12:21:22 PM	49879
Surr: [DNOP	85.7	55.1-146	%Rec	1	1/17/2020 12:21:22 PM	49879
EPA MET	THOD 8015D: GASOLINE RANG	Ε				Analyst	: NSB
Gasoline	e Range Organics (GRO)	ND	4.8	mg/Kg	1	1/17/2020 7:55:16 PM	49873
Surr: E	BFB	82.8	66.6-105	%Rec	1	1/17/2020 7:55:16 PM	49873
EPA MET	THOD 8021B: VOLATILES					Analyst	: NSB
Benzene		ND	0.024	mg/Kg	1	1/17/2020 7:55:16 PM	49873
Toluene		ND	0.048	mg/Kg	1	1/17/2020 7:55:16 PM	49873
Ethylben	izene	ND	0.048	mg/Kg	1	1/17/2020 7:55:16 PM	49873
Xylenes,	Total	ND	0.097	mg/Kg	1	1/17/2020 7:55:16 PM	49873
Surr: 4	4-Bromofluorobenzene	95.5	80-120	%Rec	1	1/17/2020 7:55:16 PM	49873

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
- Н 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 S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT:	ENSOLUM		Cl	ient Sample II): S-	11	
Project:	Lateral C-7 Loop Jan 2020		(Collection Dat	e: 1/1	15/2020 1:50:00 PM	
Lab ID:	2001611-011	Matrix: SOIL		Received Date	e: 1/1	16/2020 7:50:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	CAS
Chloride		ND	60	mg/Kg	20	1/20/2020 4:10:25 PM	49911
EPA MET	HOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM
Diesel R	ange Organics (DRO)	ND	9.5	mg/Kg	1	1/17/2020 12:30:35 PM	49879
Motor Oi	I Range Organics (MRO)	ND	47	mg/Kg	1	1/17/2020 12:30:35 PM	49879
Surr: [ONOP	89.0	55.1-146	%Rec	1	1/17/2020 12:30:35 PM	49879
EPA MET	HOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	1/17/2020 8:18:37 PM	49873
Surr: E	3FB	81.6	66.6-105	%Rec	1	1/17/2020 8:18:37 PM	49873
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	0.024	mg/Kg	1	1/17/2020 8:18:37 PM	49873
Toluene		ND	0.048	mg/Kg	1	1/17/2020 8:18:37 PM	49873
Ethylben	zene	ND	0.048	mg/Kg	1	1/17/2020 8:18:37 PM	49873
Xylenes,	Total	ND	0.097	mg/Kg	1	1/17/2020 8:18:37 PM	49873
Surr: 4	4-Bromofluorobenzene	94.2	80-120	%Rec	1	1/17/2020 8:18:37 PM	49873

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
- Н 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 S

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

RL Reporting Limit Page 11 of 18

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT:	ENSOLUM		Cl	ient Sample II	D: S-	12	
Project:	Lateral C-7 Loop Jan 2020		(Collection Dat	e: 1/1	15/2020 1:55:00 PM	
Lab ID:	2001611-012	Matrix: SOIL		Received Date	e: 1/1	16/2020 7:50:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	CAS
Chloride		ND	60	mg/Kg	20	1/20/2020 4:22:50 PM	49911
EPA MET	THOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM
Diesel R	ange Organics (DRO)	ND	9.4	mg/Kg	1	1/17/2020 12:39:51 PM	49879
Motor Oi	il Range Organics (MRO)	ND	47	mg/Kg	1	1/17/2020 12:39:51 PM	49879
Surr: I	DNOP	85.7	55.1-146	%Rec	1	1/17/2020 12:39:51 PM	49879
EPA MET	THOD 8015D: GASOLINE RANG	GE				Analyst	: NSB
Gasoline	e Range Organics (GRO)	ND	4.8	mg/Kg	1	1/17/2020 8:41:54 PM	49873
Surr: I	BFB	79.5	66.6-105	%Rec	1	1/17/2020 8:41:54 PM	49873
EPA MET	THOD 8021B: VOLATILES					Analyst	: NSB
Benzene	9	ND	0.024	mg/Kg	1	1/17/2020 8:41:54 PM	49873
Toluene		ND	0.048	mg/Kg	1	1/17/2020 8:41:54 PM	49873
Ethylben	zene	ND	0.048	mg/Kg	1	1/17/2020 8:41:54 PM	49873
Xylenes,	Total	ND	0.096	mg/Kg	1	1/17/2020 8:41:54 PM	49873
Surr: 4	4-Bromofluorobenzene	91.2	80-120	%Rec	1	1/17/2020 8:41:54 PM	49873

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
- Н 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 S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT:	ENSOLUM		Cl	ient Sample II): S-	13	
Project:	Lateral C-7 Loop Jan 2020		(Collection Dat	e: 1/1	15/2020 2:00:00 PM	
Lab ID:	2001611-013	Matrix: SOIL		Received Date	e: 1/1	6/2020 7:50:00 AM	
Analyses	1	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	CAS
Chloride		ND	60	mg/Kg	20	1/20/2020 5:38:59 PM	49925
EPA ME	THOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst	BRM
Diesel R	ange Organics (DRO)	ND	9.3	mg/Kg	1	1/17/2020 12:49:03 PM	49879
Motor Oi	il Range Organics (MRO)	ND	46	mg/Kg	1	1/17/2020 12:49:03 PM	49879
Surr: I	DNOP	85.8	55.1-146	%Rec	1	1/17/2020 12:49:03 PM	49879
EPA ME	THOD 8015D: GASOLINE RANG	Ε				Analyst	NSB
Gasoline	e Range Organics (GRO)	ND	4.7	mg/Kg	1	1/17/2020 9:05:10 PM	49873
Surr: I	BFB	79.3	66.6-105	%Rec	1	1/17/2020 9:05:10 PM	49873
EPA MET	THOD 8021B: VOLATILES					Analyst	NSB
Benzene	9	ND	0.023	mg/Kg	1	1/17/2020 9:05:10 PM	49873
Toluene		ND	0.047	mg/Kg	1	1/17/2020 9:05:10 PM	49873
Ethylben	izene	ND	0.047	mg/Kg	1	1/17/2020 9:05:10 PM	49873
Xylenes,	, Total	ND	0.093	mg/Kg	1	1/17/2020 9:05:10 PM	49873
Surr: 4	4-Bromofluorobenzene	91.8	80-120	%Rec	1	1/17/2020 9:05:10 PM	49873

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
- Н 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 S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001611

Date Reported: 1/21/2020

CLIENT:	ENSOLUM		Cl	ient Sample II	D: S-	14	
Project:	Lateral C-7 Loop Jan 2020		(Collection Dat	e: 1/1	5/2020 2:05:00 PM	
Lab ID:	2001611-014	Matrix: SOIL		Received Date	e: 1/1	6/2020 7:50:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst:	CAS
Chloride		100	60	mg/Kg	20	1/20/2020 5:51:20 PM	49925
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	BRM
Diesel Ra	ange Organics (DRO)	12	9.9	mg/Kg	1	1/17/2020 12:58:17 PM	49879
Motor Oi	I Range Organics (MRO)	ND	49	mg/Kg	1	1/17/2020 12:58:17 PM	49879
Surr: [DNOP	90.8	55.1-146	%Rec	1	1/17/2020 12:58:17 PM	49879
EPA MET	HOD 8015D: GASOLINE RANGE	E				Analyst:	NSB
Gasoline	Range Organics (GRO)	ND	4.7	mg/Kg	1	1/17/2020 9:28:26 PM	49873
Surr: E	3FB	97.1	66.6-105	%Rec	1	1/17/2020 9:28:26 PM	49873
EPA MET	HOD 8021B: VOLATILES					Analyst:	NSB
Benzene		ND	0.024	mg/Kg	1	1/17/2020 9:28:26 PM	49873
Toluene		ND	0.047	mg/Kg	1	1/17/2020 9:28:26 PM	49873
Ethylben	zene	ND	0.047	mg/Kg	1	1/17/2020 9:28:26 PM	49873
Xylenes,	Total	ND	0.095	mg/Kg	1	1/17/2020 9:28:26 PM	49873
Surr: 4	1-Bromofluorobenzene	94.1	80-120	%Rec	1	1/17/2020 9:28:26 PM	49873

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
- Н 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 S

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

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QC SUMMARY REPORT Hall

QU DU.		WO#:	2001611
Hall Env	vironmental Analysis Laboratory, Inc.	2.	1-Jan-20
Client:	ENSOLUM		

Project:	Lat	eral C-7 Loop Jan 2020		
Sample ID:	MB-49911	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 49911	RunNo: 65902	
Prep Date:	1/20/2020	Analysis Date: 1/20/2020	SeqNo: 2264169 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %	RPD RPDLimit Qual
Chloride		ND 1.5		
Sample ID:	LCS-49911	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 49911	RunNo: 65902	
Prep Date:	1/20/2020	Analysis Date: 1/20/2020	SeqNo: 2264170 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %	RPD RPDLimit Qual
Chloride		14 1.5 15.00	0 93.3 90 110	
Sample ID:	MB-49925	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 49925	RunNo: 65933	
Prep Date:	1/20/2020	Analysis Date: 1/20/2020	SeqNo: 2264389 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %	RPD RPDLimit Qual
Chloride		ND 1.5		
Sample ID:	LCS-49925	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 49925	RunNo: 65933	
Prep Date:	1/20/2020	Analysis Date: 1/20/2020	SeqNo: 2264390 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %	RPD RPDLimit Qual
Chloride		14 1.5 15.00	0 94.4 90 110	

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н 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 S

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: ENSOL Project: Lateral	.UM C-7 Loop Ja	an 2020									
Sample ID: LCS-49879 Client ID: LCSS	SampT Batch	ype: LC 1 ID: 49	:S 879	Tes F	tCode: El	PA Method 5877	8015M/D: Di	esel Range	e Organics		
Prep Date: 1/17/2020	Analysis D	0ate: 1/	17/2020	S	eqNo: 2	262125	Units: mg/#	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	51	10	50.00	0	102	63.9	124				
Surr: DNOP	4.1		5.000		81.9	55.1	146				
Sample ID: MB-49879	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: PBS	Batch	n ID: 49	879	F	unNo: 6	5877					
Prep Date: 1/17/2020	Analysis D	ate: 1/	17/2020	S	eqNo: 2	262126	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Notor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	10		10.00		100	55.1	146				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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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2001611

21-Jan-20

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

	WO#:	2001611
nental Analysis Laboratory, Inc.		21-Jan-20

Client:	ENSOLU	JM									
Project:	Lateral C	C-7 Loop Jar	a 2020								
Sample ID:	mb-49873	SampTy	pe: ME	BLK	Test	Code: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch	ID: 49	873	R	unNo: 6	5896				
Prep Date:	1/16/2020	Analysis Da	ite: 1/	17/2020	S	eqNo: 2	262859	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0								
Surr: BFB		860		1000		86.4	66.6	105			
Sample ID:	lcs-49873	SampTy	pe: LC	S	Tes	Code: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch	ID: 49	873	R	unNo: 6	5896				
Prep Date:	1/16/2020	Analysis Da	ite: 1/	17/2020	S	eqNo: 2	262860	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	24	5.0	25.00	0	97.7	80	120			
Surr: BFB		990		1000		99.0	66.6	105			
Sample ID:	mb-49874	SampTy	pe: ME	BLK	Tes	Code: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch	ID: 49	874	R	unNo: 6	5896				
Prep Date:	1/16/2020	Analysis Da	ite: 1/	17/2020	S	eqNo: 2	262883	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		830		1000		83.1	66.6	105			
Sample ID:	lcs-49874	SampTy	pe: LC	S	Tes	Code: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch	ID: 49	874	R	unNo: 6	5896				
Prep Date:	1/16/2020	Analysis Da	ite: 1/	17/2020	S	eqNo: 2	262884	Units: %Rec	:		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		870		1000		87.0	66.6	105			

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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QC SUMMARY REPORT Hall Environmental Analysis Laboratory,

Page	54	of	96
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	WO#:	2001611
, Inc.		21-Jan-20

Client:	ENSOL	UM									
Project:	Lateral	C-7 Loop Ja	un 2020								
Sample ID: n	nb-49873	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: P	BS	Batch	n ID: 49	873	F	RunNo: 6	5896				
Prep Date:	1/16/2020	Analysis D)ate: 1/	17/2020	S	SeqNo: 22	262911	Units: mg/Kg	9		
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-Bromof	luorobenzene	0.99		1.000		99.0	80	120			
Sample ID: n	1b-49874	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: P	BS	Batch	n ID: 49	874	F	RunNo: 6	5896				
Prep Date:	1/16/2020	Analysis D)ate: 1/	17/2020	S	SeqNo: 2	262935	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromof	luorobenzene	0.96		1.000		96.4	80	120			
Sample ID: L	CS-49873	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: L	CSS	Batch	n ID: 49	873	F	RunNo: 6	5896				
Prep Date:	1/16/2020	Analysis D)ate: 1/	17/2020	S	SeqNo: 22	262948	Units: mg/Kg	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.96	0.025	1.000	0	95.7	80	120			
Toluene		0.96	0.050	1.000	0	96.2	80	120			
Ethylbenzene		0.96	0.050	1.000	0	96.2	80	120			
Xylenes, Total		2.9	0.10	3.000	0	97.2	80	120			
Surr: 4-Bromof	luorobenzene	0.98		1.000		98.2	80	120			
Sample ID: L	CS-49874	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: L	CSS	Batch	ו ID: 49	874	F	RunNo: 6	5896				
Prep Date:	1/16/2020	Analysis D)ate: 1/	17/2020	S	SeqNo: 2	262949	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromof	luorobenzene	0.89		1.000		89.3	80	120			

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 S

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

RL Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmenta Alb TEL: 505-345-397: Website: www.ha	l Analysi. 4901 5 FAX: 5 allenviro	s Laboratory Hawkins NE 2, NM 87109 05-345-4107 nmental.com	Sample Log-In Check List				
Client Name: ENSOLUM AZTEC	Work Order Number	: 20016	11		RcptNo: 1			
Received By: Desiree Dominguez	1/16/2020 7:50:00 AM	1	T	Pz	- 			
Completed By: Isaiah Ortiz	1/16/2020 8:32:53 AM	1		I	OX			
Reviewed By: YG 1/16/20								
Chain of Custody								
1. Is Chain of Custody sufficiently complete?		Yes	\checkmark	No	Not Present			
2. How was the sample delivered?		Courie	ır					
Log In 3. Was an attempt made to cool the samples?		Yes		No 🗌				
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes		No 🗌				
5. Sample(s) in proper container(s)?		Yes		No 🗌]			
6. Sufficient sample volume for indicated test(s)?		Yes		No 🗌				
7. Are samples (except VOA and ONG) properly	preserved?	Yes		No 🗌				
8. Was preservative added to bottles?		Yes [No 🔽	NA 🗌			
9. Received at least 1 vial with headspace <1/4"	or AQ VOA?	Yes]	No 🗌				
10. Were any sample containers received broken'	2	Yes [No 🔽	# of preserved			
11.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No 🗌	bottles checked for pH: (<2.or >12 unless noted)			
12. Are matrices correctly identified on Chain of C	ustody?	Yes		No 🗌	Adjusted?			
13. Is it clear what analyses were requested?		Yes		No 🗌	10 11/2			
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		No 🗌	Checked by: JR [[[6]20			
<u>Special Handling (if applicable)</u>								
15. Was client notified of all discrepancies with th	s order?	Yes		No	NA 🗹			
Person Notified:	Date:		na ngalan hisiliga di casa kewa maka					
By Whom:	Via:	eMai	Phone	Fa	ax 🔲 In Person			
Regarding:								
Client Instructions:		18 JH 0 09 11 10 18 19						
16. Additional remarks:								
17. <u>Cooler Information</u>		Constant and the second			5.00 STO 2			
Cooler No Temp °C Condition Sea	I Intact Seal No	Seal Dat	e Sigr	ned By				

Page 1 of 1

ABORATOR ABORATOR ABORATOR 345-4107 345-4107 10431 Coliform (Present/Absent) 345-4107 10431 Coliform (Present/Absent)	n Long (Eprod) 2821300 2821300
HALL HALL HALL HALL HALL HALL ANALYSIS Analysis Rins NR Analysis Rins NR Analysis Rins N Analysis Rins No.3, NO.3, NO.2, PO.4, SO.4 Analysis Rins Rins Analysis Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rins Rin Rin Rin Rin	PM-Tar Pay key-
EDB (Method 504.1)	
	The market of the second secon
	XXXXX & MFI
-DAY -DAY Imes 2 Can 2020 Intes 100 -004 -000 -000 -000 -000	- 009 - 009 - 010 - 010 - 010 - 010 Date Time Date Time
Time: 2 Rush X Rush C-7 LOC C-7 LOC ger: KSUM ger: KSUM ger: KSUM Jype COU Type COU COU COU COU COU COU	COOL COOL COOL Via: Via: Via: Courter
Turn-Around Project Name Lateral Project H: S Project Mana Project Mana Project Mana Project Mana Project Mana Project Mana Project Mana Project Mana Project Temp (On Ice: # of Coolers: All 2 Jur 1 × Vaz Jur 1 × Vaz Jur	1 x 402 Jar 1 x 402 Jar 1 x 462 Jar Received by: Received by:
ustody Record	5-8 5-8 5-10 5-10 5-12 10 10 10 10 10 10 10 10 10 10 10 10 10
$\frac{\partial \mathbf{f} \cdot \mathbf{f}}{\partial \mathbf{r} \partial $	Relinquist
Chain- ent: Ensalue Azter Miling Address illing Address one #: /oc Package: /oc Pac	20 1817 20 1355 20 1340 20 1355 20 1355 20 1817 20 1817

Received by OCD: 10/29/2020	9 8:14:21 AM		Page 57 of
HALL ENVIRONMENTA ANALYSIS LABORATOF www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	PAHs by 8310 or 82705IMS RCRA 8 Metals CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent) Total Coliform (Present/Absent)		MM-TOM LONY (EPERD) PAY Key - REGIZICO Non AFE - NUSSY)
4901 Haw Tel. 505-	BTEX / -МТВЕ / ТМВ's (8021) TPH:8015D(GRO / DRO / МRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1)		Remarks: 2-DAN Turnourun
round Time: 3-0AY andard Xrush t Name: eral C-7 Loop (Jan 2020) :#: See notes	t Manager: KSUMMES	2317 Cast -013	Iby: Via: Date Time F July Jalk 1/5/20 1702 Bate Time Date 1/10/20 7:50
Drd Turn-A □ Sta □ Sta Sù rttc A Loth Sù rttc A Project	M.Com Project alidation) Sample On Ice: # of Co Cooler Contair	1×400	Received
Custody Reco	MMers & Ensolur Level 4 (Full Va Compliance ner Sample Name	S-14 21-2	ished by: MMM ished by: MM at
Client: Ensolum Mailing Address: 606	email or Fax#: <u>KSwy</u> QA/QC Package: Candard Accreditation: Az Accreditation: Az Cate Time Matrix	Istal 1400 S	Date: Time: Relined



January 21, 2020

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

RE: Lateral C-7 Loop Jan 2020

OrderNo.: 2001608

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/16/2020 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001608

Date Reported: 1/21/2020

CLIENT:	ENSOLUM		Cl	ient Sample II	D: SF	P-1	
Project:	Lateral C-7 Loop Jan 2020		(Collection Dat	e: 1/1	15/2020 2:10:00 PM	
Lab ID:	2001608-001	Matrix: SOIL		Received Date	e: 1/1	16/2020 7:50:00 AM	
Analyses	5	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	MRA
Chloride		ND	60	mg/Kg	20	1/18/2020 5:32:40 AM	49898
EPA MET	THOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	BRM
Diesel R	ange Organics (DRO)	ND	9.7	mg/Kg	1	1/17/2020 10:22:26 AM	49879
Motor Oi	il Range Organics (MRO)	ND	48	mg/Kg	1	1/17/2020 10:22:26 AM	49879
Surr: I	DNOP	117	55.1-146	%Rec	1	1/17/2020 10:22:26 AM	49879
EPA MET	THOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline	e Range Organics (GRO)	ND	4.8	mg/Kg	1	1/17/2020 12:06:27 PM	49873
Surr: I	BFB	81.3	66.6-105	%Rec	1	1/17/2020 12:06:27 PM	49873
EPA MET	THOD 8021B: VOLATILES					Analyst	NSB
Benzene	9	ND	0.024	mg/Kg	1	1/17/2020 12:06:27 PM	49873
Toluene		ND	0.048	mg/Kg	1	1/17/2020 12:06:27 PM	49873
Ethylben	izene	ND	0.048	mg/Kg	1	1/17/2020 12:06:27 PM	49873
Xylenes,	, Total	ND	0.096	mg/Kg	1	1/17/2020 12:06:27 PM	49873
Surr: 4	4-Bromofluorobenzene	92.6	80-120	%Rec	1	1/17/2020 12:06:27 PM	49873

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
- Н 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 S

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

Page 1 of 7

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001608

Date Reported: 1/21/2020

CLIENT:	ENSOLUM		Cl	ient Sample II): SP	P-2	
Project:	Lateral C-7 Loop Jan 2020		(Collection Dat	e: 1/1	15/2020 2:15:00 PM	
Lab ID:	2001608-002	Matrix: SOIL		Received Date	e: 1/1	16/2020 7:50:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	CAS
Chloride		ND	61	mg/Kg	20	1/20/2020 5:00:04 PM	49898
EPA MET	THOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel R	ange Organics (DRO)	ND	9.1	mg/Kg	1	1/17/2020 10:49:45 AM	49879
Motor Oi	il Range Organics (MRO)	ND	45	mg/Kg	1	1/17/2020 10:49:45 AM	49879
Surr: I	DNOP	105	55.1-146	%Rec	1	1/17/2020 10:49:45 AM	49879
EPA MET	THOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline	e Range Organics (GRO)	ND	5.0	mg/Kg	1	1/17/2020 1:16:46 PM	49873
Surr: I	BFB	81.7	66.6-105	%Rec	1	1/17/2020 1:16:46 PM	49873
EPA MET	THOD 8021B: VOLATILES					Analyst	NSB
Benzene	9	ND	0.025	mg/Kg	1	1/17/2020 1:16:46 PM	49873
Toluene		ND	0.050	mg/Kg	1	1/17/2020 1:16:46 PM	49873
Ethylben	zene	ND	0.050	mg/Kg	1	1/17/2020 1:16:46 PM	49873
Xylenes,	Total	ND	0.10	mg/Kg	1	1/17/2020 1:16:46 PM	49873
Surr: 4	4-Bromofluorobenzene	92.8	80-120	%Rec	1	1/17/2020 1:16:46 PM	49873

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
- Н 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 S

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

Page 2 of 7

OC SUMMARY REPORT ł

Hall Envir	onmer	ntal Analysis Laborator	y, Inc.	WO#:	2001608 21-Jan-20
Client: Project:	ENSC Latera	DLUM 1 C-7 Loop Jan 2020			
Sample ID: MB-4	9898	SampType: mblk	TestCode: EPA Method 300.0: Anions		
Client ID: PBS		Batch ID: 49898	RunNo: 65885		
Prep Date: 1/17	7/2020	Analysis Date: 1/17/2020	SeaNo: 2262633 Units: ma/Ka		

	Batt				(ann to: 0					
Prep Date: 1/17	Analysis	Date: 1/	17/2020	S	SeqNo: 22	262633	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								
Sample ID: LCS-	49898 Samp	Type: Ics	5	Tes	tCode: EF	PA Method	300.0: Anion	S		
Client ID: LCSS	B Bato	ch ID: 49	898	F	RunNo: 6	5885				
Prep Date: 1/17	7/2020 Analysis	Date: 1/	17/2020	5	SeqNo: 22	262634	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			
Sample ID: MB-4	9898 Samp	Type: ml	olk	Tes	tCode: EF	PA Method	300.0: Anion	S		
Client ID: PBS	Bato	ch ID: 49	898	F	RunNo: 6	5902				
Prep Date: 1/17	Analysis	Date: 1/	20/2020	S	SeqNo: 22	264199	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								
Sample ID: LCS-	49898 Samp	Type: Ics	6	Tes	tCode: EF	PA Method	300.0: Anion	S		
Client ID: LCS	B Bato	ch ID: 49	898	F	RunNo: 6	5902				
Prep Date: 1/17	Analysis	Date: 1/	20/2020	S	SeqNo: 2	264200	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н 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 S

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

Page 3 of 7

QC SUMMARY REPORT

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Hall Environmenta	al Anal	ysis I	Laborat	ory, Inc.					WO#:	2001608 21-Jan-20
Client: ENSOLU Project: Lateral C	JM -7 Loop Ja	an 2020								
Sample ID: 2001608-001AMS	Samp	Гуре: М	6	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: SP-1	Batc	h ID: 49	879	F	RunNo: 6	5877				
Prep Date: 1/17/2020	Analysis [Date: 1/	17/2020	S	SeqNo: 2	262113	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.9	49.36	2.471	96.5	47.4	136			

55.1

146

89.1

Sample ID: 2001608-001AMSE	SampT	ype: MS	SD .	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: SP-1	Batch	ID: 49	879	F	RunNo: 6	5877				
Prep Date: 1/17/2020	Analysis D	ate: 1/	17/2020	S	SeqNo: 2	262114	Units: mg/#	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.5	47.30	2.471	95.7	47.4	136	4.85	43.4	
Surr: DNOP	4.1		4.730		87.7	55.1	146	0	0	
Sample ID: LCS-49879	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 49	879	F	RunNo: 6	5877				
Prep Date: 1/17/2020	Analysis D	ate: 1/	17/2020	S	SeqNo: 2	262125	Units: mg/k	ſg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	63.9	124			
Surr: DNOP	4.1		5.000		81.9	55.1	146			
Sample ID: MB-49879	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 49	879	F	RunNo: 6	5877				
Prep Date: 1/17/2020	Analysis D	ate: 1/	17/2020	S	SeqNo: 2	262126	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								

Qualifiers:

Surr: DNOP

Surr: DNOP

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- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н 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 S

Analyte detected in the associated Method Blank В

100

55.1

146

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

NEFUNI	WO#:	2001608	
l Analysis Laboratory, Inc.		21-Jan-20	

Sample ID:mb-49873SampType:MBLKTestCode:EPA Method8015D:Gasoline RangeClient ID:PBSBatch ID:49873RunNo:65896Prep Date:1/16/2020Analysis Date:1/17/2020SeqNo:2262859Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitGasoline Range Organics (GRO)ND5.0SampType:LCSTestCode:EPA Method8015D:Gasoline RangeSample ID:Ics-49873SampType:LCSTestCode:EPA Method8015D:Gasoline RangeClient ID:LCSSBatch ID:49873RunNo:65896Prep Date:1/16/2020Analysis Date:1/17/2020SeqNo:2262860Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitGasoline Range Organics (GRO)245.025.00097.780120Sur:SmrFFB990100099.066.6105Sample ID:2001608-001amsSampType:MSTestCode:EPA Method 8015D:Gasoline RangeClient ID:SP-1Batch ID:49873RunNo:65896105FestCode:EPA Method 8015D:Gasoline RangeClient ID:SP-1Batch ID:49873RunNo:65896105FestCode:EPA Method 8015D:Gasoline Range <th>Qual</th>	Qual
Client ID: PBS Batch ID: 49873 RunNo: 65896 Prep Date: 1/16/2020 Analysis Date: 1/17/2020 SeqNo: 2262859 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GR0) ND 5.0 86.4 66.6 105 Sample ID: Ics-49873 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 49873 RunNo: 65896 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GR0) Analysis Date: 1/17/2020 SeqNo: 2262860 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GR0) 24 5.0 25.00 <td>Qual</td>	Qual
Prep Date:1/16/2020Analysis Date:1/17/2020SeqNo:2262859Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitGasoline Range Organics (GR0)ND5.0	Qual
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GRO) ND 5.0	Qual
Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 860 1000 86.4 66.6 105 Sample ID: Ics-49873 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 49873 RunNo: 65896 Prep Date: 1/16/2020 Analysis Date: 1/17/2020 SeqNo: 2262860 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GRO) 24 5.0 25.00 0 97.7 80 120 Surr: BFB 990 1000 99.0 66.6 105 100 Sample ID: 2001608-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range 120 Sample ID: 2001608-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range 100 Sample ID: SP-1 Batch ID: 49873 RunNo: 65896 105 105 Prep Date: 1/16/2020 Analysis Date: 1/17/2020 SeqNo: 2262862 Units: mg/Kg	Qual
Sample ID: Ics-49873 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 49873 RunNo: 65896 Units: mg/Kg Prep Date: 1/16/2020 Analysis Date: 1/17/2020 SeqNo: 2262860 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GRO) 24 5.0 25.00 0 97.7 80 120 Surr: BFB 990 1000 99.0 66.6 105 105 Sample ID: 2001608-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: SP-1 Batch ID: 49873 RunNo: 65896 Units: mg/Kg Prep Date: 1/16/2020 Analysis Date: 1/17/2020 SeqNo: 2262862 Units: mg/Kg	Qual
Client ID: LCSS Batch ID: 49873 RunNo: 65896 Prep Date: 1/16/2020 Analysis Date: 1/17/2020 SeqNo: 2262860 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GRO) 24 5.0 25.00 0 97.7 80 120 120 Surr: BFB 990 1000 99.0 66.6 105 105 100 Sample ID: 2001608-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: SP-1 Batch ID: 49873 RunNo: 65896 Prep Date: 1/16/2020 Analysis Date: 1/17/2020 SeqNo: 2262862 Units: mg/Kq	Qual
Prep Date: 1/16/2020 Analysis Date: 1/17/2020 SeqNo: 2262860 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GRO) 24 5.0 25.00 0 97.7 80 120 Surr: BFB 990 1000 99.0 66.6 105 105 100 Sample ID: 2001608-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: SP-1 Batch ID: 49873 RunNo: 65896 105 1000 Prep Date: 1/16/2020 Analysis Date: 1/17/2020 SegNo: 2262862 Units: mg/Kg	Qual
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GRO) 24 5.0 25.00 0 97.7 80 120	Qual
Gasoline Range Organics (GRO) 24 5.0 25.00 0 97.7 80 120 Surr: BFB 990 1000 99.0 66.6 105 Sample ID: 2001608-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: SP-1 Batch ID: 49873 RunNo: 65896 Prep Date: 1/16/2020 Analysis Date: 1/17/2020 SeqNo: 2262862 Units: mg/Kg	
Surr: BFB 990 1000 99.0 66.6 105 Sample ID: 2001608-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: SP-1 Batch ID: 49873 RunNo: 65896 Prep Date: 1/16/2020 Analysis Date: 1/17/2020 SeqNo: 2262862 Units: ma/Ka	
Sample ID: 2001608-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: SP-1 Batch ID: 49873 RunNo: 65896 Prep Date: 1/16/2020 Analysis Date: 1/17/2020 SeqNo: 2262862 Units: ma/Kg	
Client ID: SP-1 Batch ID: 49873 RunNo: 65896 Prep Date: 1/16/2020 Analysis Date: 1/17/2020 SeqNo: 2262862 Units: ma/Ka	
Prep Date: 1/16/2020 Analysis Date: 1/17/2020 SeqNo: 2262862 Units: ma/Ka	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO) 25 5.0 24.78 0 101 69.1 142	
SUIL DED 920 991.1 92.5 00.6 105	
Sample ID: 2001608-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range	
Client ID: SP-1 Batch ID: 49873 RunNo: 65896	
Prep Date: 1/16/2020 Analysis Date: 1/17/2020 SeqNo: 2262863 Units: mg/Kg	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO) 25 4.8 23.97 0 104 69.1 142 0.813 20 Sum PED 990 959.8 91.7 66.6 105 0 0	
Sull. BFB 880 936.8 91.7 66.6 105 0 0	
Sample ID: mb-49874SampType: MBLKTestCode: EPA Method 8015D: Gasoline Range	
Client ID: PBS Batch ID: 49874 RunNo: 65896	
Prep Date: 1/16/2020 Analysis Date: 1/17/2020 SeqNo: 2262883 Units: %Rec	
	0
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Quai
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Surr: BFB 830 1000 83.1 66.6 105	Quai
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Surr: BFB 830 1000 83.1 66.6 105 100	Quai
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Surr: BFB 830 1000 83.1 66.6 105 Sample ID: Ics-49874 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 49874 RunNo: 65896	Quai
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Surr: BFB 830 1000 83.1 66.6 105 105 Sample ID: Ics-49874 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 49874 RunNo: 65896 Prep Date: 1/16/2020 SeqNo: 2262884 Units: %Rec	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Surr: BFB 830 1000 83.1 66.6 105 105 Sample ID: Ics-49874 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 49874 RunNo: 65896 Prep Date: 1/16/2020 Analysis Date: 1/17/2020 SeqNo: 2262884 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical 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 5 of 7

Client:

Project:

Analyte Benzene Toluene Ethylbenzene Xylenes, Total

Analyte Benzene Toluene Ethylbenzene

Analyte Benzene Toluene Ethylbenzene Xylenes, Total

QC SUMMARY REPORT Hall Environme - 4 - ---T---

Hall El	ivironmenta	ai Anai	ysis l		ory, mc.						21-Jan-20
Client: Project:	ENSOLU Lateral C	JM 2-7 Loop Ja	an 2020								
Sample ID:	mb-49873	Samp	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batc	h ID: 49	873	F	RunNo: 6	5896				
Prep Date:	1/16/2020	Analysis [Date: 1/	17/2020	5	SeqNo: 2	262911	Units: mg/l	Кg		
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								
Kylenes, Total		ND	0.10								
Surr: 4-Brom	nofluorobenzene	0.99		1.000		99.0	80	120			
Sample ID:	2001608-002ams	Samp	Гуре: М	6	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	SP-2	Batch ID: 49873			F	RunNo: 65896					
Prep Date:	1/16/2020	Analysis Date: 1/17/2020			SeqNo: 2262915 Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.98	0.024	0.9606	0	102	78.5	119			
Toluene		1.0	0.048	0.9606	0.01228	102	75.7	123			
Ethylbenzene		1.0	0.048	0.9606	0	104	74.3	126			
Kylenes, Total		3.0	0.096	2.882	0.01926	104	72.9	130			
Surr: 4-Brom	nofluorobenzene	0.91		0.9606		94.9	80	120			
Sample ID:	2001608-002amsc	samp	Гуре: М \$	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	SP-2	Batc	h ID: 49	873	F	RunNo: 6	5896				
Prep Date:	1/16/2020	Analysis [Date: 1/	17/2020	S	SeqNo: 2	262916	Units: mg/l	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.98	0.023	0.9225	0	106	78.5	119	0.388	20	
Toluene		1.0	0.046	0.9225	0.01228	107	75.7	123	0.00513	20	

Xylenes, Total	3.0	0.092	2.768	0.01926	108	72.9	130	0.243	20	
Surr: 4-Bromotiuorobenzene	0.88		0.9225		95.2	80	120	0	0	
Sample ID: mb-49874	SampTy	pe: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	ID: 49	874	F	RunNo: 65	5896				
Prep Date: 1/16/2020	Analysis Da	te: 1/	17/2020	S	SeqNo: 22	262935	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		96.4	80	120			
Sample ID: LCS-49873	SampTy	pe: LC	s	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	ID: 49	873	F	RunNo: 65	5896				
Prep Date: 1/16/2020	Analysis Da	te: 1/	17/2020	S	SeqNo: 22	262948	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

0

108

74.3

126

0.219

0.9225

1.0

0.046

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 S

в Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 6 of 7

20

2001608

WO#:

ENSOLUM

Client:

Project:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Lateral C-7 Loop Jan 2020

Sample ID: LCS-49873	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	n ID: 49	873	F	RunNo: 6	5896				
Prep Date: 1/16/2020	Analysis E	Date: 1/	17/2020	S	SeqNo: 2	262948	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.7	80	120			
Toluene	0.96	0.050	1.000	0	96.2	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.2	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.2	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.2	80	120			
Sample ID: LCS-49874	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	n ID: 49	874	F	RunNo: 6	5896				
Prep Date: 1/16/2020	Analysis E	Date: 1/	17/2020	5	SeqNo: 2	262949	Units: %Red	0		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.89		1.000		89.3	80	120			

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н 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 S

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

WO#: 2001608

ANALYSIS LABORATORY	TEL: 505-345-3 Website: www	4901 Hawkins Albuquerque, NM 87 975 FAX: 505-345-4 v.hallenvironmental.c	NE 109 San 107 com	nple Log-In Cł	neck List
Client Name: ENSOLUM AZTEC	Work Order Num	ber: 2001608		RcptNo:	1
Received By: Desiree Dominguez	1/16/2020 7:50:00	AM	TP3		
Completed By: Isaiah Ortiz	1/16/2020 8:22:09	AM	ILO	×	
Reviewed By: D M 1/14/20		*			
Chain of Custody					
1. Is Chain of Custody sufficiently complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In 3. Was an attempt made to cool the samples?		Yes 🗸	No 🗌	NA	
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗌		
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test(s	:)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) proper	ly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4	1" for AQ VOA?	Yes	No 🗌	NA 🔽	i
10. Were any sample containers received broke	en?	Yes 🗌	No 🗹	# of preserved	
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 		Yes 🗹	No 🗌	for pH: (<2 or)>	12 unless noted)
2. Are matrices correctly identified on Chain of	Custody?	Yes 🗹	No 🗌	Adjusted?	
[3] Is it clear what analyses were requested?		Yes 🗹	No 🗌	1	16 Million
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:	
Special Handling (if applicable)					
10. was client notified of all discrepancies with	this order?	Yes 🛄	No 🗔	NA 🗹	
Person Notified:	Date				
By Whom:	Via:	eMail Pr	none 🗌 Fax	In Person	
Client Instructions:	and the second		Balance at an international and		
16. Additional remarks:					
17. <u>Cooler Information</u>		Quel Data	Oiner d D	1	
	ear mact Sear No	Seal Date	Signed By		

Page 1 of 1

Received by OCD: 10/29/2020) 8:14:21 AM		Page 67 of 96
DNMENTAL BORATORY com NM 87109 45-4107 st	(Thesaryneserit)		(EPDED) (EPDED) (200 ISSS I on the analytical report.
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HL AN ww wkins 345-	(1.406 bombin) ad-		contract
1 Hav	108/1 Pesticides/8082 PCB's		
490 Tel	ГРН:8015D(GRO / DRO / MRO)		arks:
	3TEX -/ MTBE / TMB's (8021)		Possibility Possibility
Rush 3-DAY Rush Ocop (Jan 2022) Hys	umners chille] No 3.0-0.0=3.0°		Late Time Date Time Date Time Date Time Late Time Action Time Date Time Action Time Date Time Action Time Action Date This serves as notice of this pratories. This serves as notice of this
E C T L	Ager: //S		Via: Via: Court
Turn-Around □ Standarc Project Nam [Lettesa1 Project #:	Project Mana Sampler: On Ice: # of Coolers: Cooler Temp Container	1×462301 1×462301	Received by: Received by:
in-of-Custody Record solum,LLC ess: 606 S. Bio 6remb suitt	#: KSNIMPEC © Enclum, (wm) age: Anatrix Sample Name	5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Relinquished by: Relinquished by: Relinquished by: AMM Mall Environmental may be subc
Client: Chai Client: Cha Mailing Addre	email or Fax; QA/QC Packa Candard Accreditation Cate (Typ) Cate Time	1112/20 1411 112/20 141	Date: Time: Tilly/20 17c Date: Time: ¹ /13/20 1817 If necess



January 22, 2020

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

RE: Lateral C 7 Loop Jan 2020

OrderNo.: 2001729

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 1/18/2020 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001729

Date Reported: 1/22/2020

CLIENT:	ENSOLUM	Client Sample ID: S-15				
Project:	Lateral C 7 Loop Jan 2020		Collection Date: 1/17/2020 10:10:00 AM			
Lab ID:	2001729-001	Matrix: MEOH (SOIL)	Received Date: 1/18/2020 10:00:00 AM			

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CAS
Chloride	590	60	mg/Kg	20	1/20/2020 11:12:37 AM	49911
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/20/2020 10:29:02 AM	49907
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/20/2020 10:29:02 AM	49907
Surr: DNOP	83.3	55.1-146	%Rec	1	1/20/2020 10:29:02 AM	49907
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	15	mg/Kg	5	1/20/2020 11:38:59 AM	G65910
Surr: BFB	85.2	66.6-105	%Rec	5	1/20/2020 11:38:59 AM	G65910
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.074	mg/Kg	5	1/20/2020 11:38:59 AM	B65910
Toluene	ND	0.15	mg/Kg	5	1/20/2020 11:38:59 AM	B65910
Ethylbenzene	ND	0.15	mg/Kg	5	1/20/2020 11:38:59 AM	B65910
Xylenes, Total	ND	0.30	mg/Kg	5	1/20/2020 11:38:59 AM	B65910
Surr: 4-Bromofluorobenzene	96.2	80-120	%Rec	5	1/20/2020 11:38:59 AM	B65910

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

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001729

Date Reported: 1/22/2020

CLIENT:	ENSOLUM	Client Sample ID: S-16					
Project:	Lateral C 7 Loop Jan 2020		Collection Date: 1/17/2020 10:15:00 AM				
Lab ID:	2001729-002	Matrix: MEOH (SOIL)	Received Date: 1/18/2020 10:00:00 AM				

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CAS
Chloride	670	60	mg/Kg	20	1/20/2020 11:25:01 AM	49911
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/20/2020 10:38:04 AM	49907
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/20/2020 10:38:04 AM	49907
Surr: DNOP	81.4	55.1-146	%Rec	1	1/20/2020 10:38:04 AM	49907
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	2.9	mg/Kg	1	1/20/2020 12:02:24 PM	G65910
Surr: BFB	83.4	66.6-105	%Rec	1	1/20/2020 12:02:24 PM	G65910
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.014	mg/Kg	1	1/20/2020 12:02:24 PM	B65910
Toluene	ND	0.029	mg/Kg	1	1/20/2020 12:02:24 PM	B65910
Ethylbenzene	ND	0.029	mg/Kg	1	1/20/2020 12:02:24 PM	B65910
Xylenes, Total	ND	0.058	mg/Kg	1	1/20/2020 12:02:24 PM	B65910
Surr: 4-Bromofluorobenzene	95.7	80-120	%Rec	1	1/20/2020 12:02:24 PM	B65910

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
- Н 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 S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001729

Date Reported: 1/22/2020

CLIENT:	ENSOLUM	C	lient Sample ID: S-17
Project:	Lateral C 7 Loop Jan 2020		Collection Date: 1/17/2020 10:20:00 AM
Lab ID:	2001729-003	Matrix: MEOH (SOIL)	Received Date: 1/18/2020 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CAS
Chloride	140	60	mg/Kg	20	1/20/2020 11:37:25 AM	49911
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/20/2020 10:47:10 AM	49907
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/20/2020 10:47:10 AM	49907
Surr: DNOP	78.9	55.1-146	%Rec	1	1/20/2020 10:47:10 AM	49907
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.0	mg/Kg	1	1/20/2020 12:25:52 PM	G65910
Surr: BFB	82.4	66.6-105	%Rec	1	1/20/2020 12:25:52 PM	G65910
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.015	mg/Kg	1	1/20/2020 12:25:52 PM	B65910
Toluene	ND	0.030	mg/Kg	1	1/20/2020 12:25:52 PM	B65910
Ethylbenzene	ND	0.030	mg/Kg	1	1/20/2020 12:25:52 PM	B65910
Xylenes, Total	ND	0.059	mg/Kg	1	1/20/2020 12:25:52 PM	B65910
Surr: 4-Bromofluorobenzene	94.9	80-120	%Rec	1	1/20/2020 12:25:52 PM	B65910

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
- Н 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 S

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001729

Date Reported: 1/22/2020

CLIENT:	ENSOLUM	C	lient Sample ID: S-18
Project:	Lateral C 7 Loop Jan 2020		Collection Date: 1/17/2020 10:25:00 AM
Lab ID:	2001729-004	Matrix: MEOH (SOIL)	Received Date: 1/18/2020 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CAS
Chloride	210	60	mg/Kg	20	1/20/2020 11:49:50 AM	49911
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/20/2020 10:56:14 AM	49907
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/20/2020 10:56:14 AM	49907
Surr: DNOP	79.0	55.1-146	%Rec	1	1/20/2020 10:56:14 AM	49907
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	1/20/2020 12:49:24 PM	G65910
Surr: BFB	80.8	66.6-105	%Rec	1	1/20/2020 12:49:24 PM	G65910
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.017	mg/Kg	1	1/20/2020 12:49:24 PM	B65910
Toluene	ND	0.034	mg/Kg	1	1/20/2020 12:49:24 PM	B65910
Ethylbenzene	ND	0.034	mg/Kg	1	1/20/2020 12:49:24 PM	B65910
Xylenes, Total	ND	0.068	mg/Kg	1	1/20/2020 12:49:24 PM	B65910
Surr: 4-Bromofluorobenzene	91.9	80-120	%Rec	1	1/20/2020 12:49:24 PM	B65910

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
- Н 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 S

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

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Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001729

Date Reported: 1/22/2020

CLIENT:	ENSOLUM	(Client Sample ID: S-19
Project:	Lateral C 7 Loop Jan 2020		Collection Date: 1/17/2020 10:30:00 AM
Lab ID:	2001729-005	Matrix: MEOH (SOIL)	Received Date: 1/18/2020 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CAS
Chloride	95	60	mg/Kg	20	1/20/2020 12:02:15 PM	49911
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/20/2020 11:05:21 AM	49907
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/20/2020 11:05:21 AM	49907
Surr: DNOP	79.9	55.1-146	%Rec	1	1/20/2020 11:05:21 AM	49907
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	1/20/2020 1:12:57 PM	G65910
Surr: BFB	81.6	66.6-105	%Rec	1	1/20/2020 1:12:57 PM	G65910
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.019	mg/Kg	1	1/20/2020 1:12:57 PM	B65910
Toluene	ND	0.038	mg/Kg	1	1/20/2020 1:12:57 PM	B65910
Ethylbenzene	ND	0.038	mg/Kg	1	1/20/2020 1:12:57 PM	B65910
Xylenes, Total	ND	0.076	mg/Kg	1	1/20/2020 1:12:57 PM	B65910
Surr: 4-Bromofluorobenzene	92.0	80-120	%Rec	1	1/20/2020 1:12:57 PM	B65910

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
- Н 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 S

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

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Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001729

Date Reported: 1/22/2020

CLIENT:	ENSOLUM	(Client Sample ID: S-20
Project:	Lateral C 7 Loop Jan 2020		Collection Date: 1/17/2020 10:35:00 AM
Lab ID:	2001729-006	Matrix: MEOH (SOIL)	Received Date: 1/18/2020 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CAS
Chloride	150	60	mg/Kg	20	1/20/2020 12:14:40 PM	49911
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/20/2020 11:14:27 AM	49907
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/20/2020 11:14:27 AM	49907
Surr: DNOP	78.8	55.1-146	%Rec	1	1/20/2020 11:14:27 AM	49907
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	1/20/2020 1:36:33 PM	G65910
Surr: BFB	80.9	66.6-105	%Rec	1	1/20/2020 1:36:33 PM	G65910
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.017	mg/Kg	1	1/20/2020 1:36:33 PM	B65910
Toluene	ND	0.035	mg/Kg	1	1/20/2020 1:36:33 PM	B65910
Ethylbenzene	ND	0.035	mg/Kg	1	1/20/2020 1:36:33 PM	B65910
Xylenes, Total	ND	0.070	mg/Kg	1	1/20/2020 1:36:33 PM	B65910
Surr: 4-Bromofluorobenzene	92.9	80-120	%Rec	1	1/20/2020 1:36:33 PM	B65910

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
- Н 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 S

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

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2001729

WO#:

RPDLimit

Qual

%RPD

Hall Enviro	mental Analysis Laborat	tory, Inc. 22	2-Jan-20
Client: Project:	ENSOLUM Lateral C 7 Loop Jan 2020		
Sample ID: MB-499 Client ID: PBS	11 SampType: mblk Batch ID: 49911	TestCode: EPA Method 300.0: Anions RunNo: 65902	
Prep Date: 1/20/2 Analyte Chloride	020 Analysis Date: 1/20/2020 Result PQL SPK value ND 1.5	SeqNo: 2264169 Units: mg/Kg SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qu	ual
Sample ID: LCS-49 Client ID: LCSS Prep Date: 1/20/2	SampType: Ics Batch ID: 49911 O20 Analysis Date: 1/20/2020	TestCode: EPA Method 300.0: Anions RunNo: 65902 SeqNo: 2264170 Units: mg/Kg	

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit Result 14 1.5 15.00 0 93.3 90 110

Qualifiers:

Chloride

- 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 S

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

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

	WO#:	2001729
onmental Analysis Laboratory, Inc.		22-Jan-20

Client: Project:	ENSOLU Lateral C	JM 7 Loop Ja	1 2020								
Sample ID:	Laterar C	SamoTi	/ne: 1 (<u>```</u>	Tes	Code: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batch	ID: 49	907	F	unNo: 6	5901	0013M/D. Die	Ser Kange	organics	
Prep Date:	1/20/2020	Analysis Da	ate: 1	/20/2020	S	SeqNo: 2	263253	Units: mq/K	q		
Analvte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HiahLimit	%RPD	RPDLimit	Qual
Diesel Range O Surr: DNOP	rganics (DRO)	50 4.1	10	50.00 5.000	0	100 81.0	63.9 55.1	124 146			
Sample ID:	MB-49907	SampTy	/pe: M	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batch	ID: 49	907	F	tunNo: 6	5901				
Prep Date:	1/20/2020	Analysis Da	ate: 1	/20/2020	S	eqNo: 2	263254	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O Motor Oil Range Surr: DNOP	rganics (DRO) e Organics (MRO)	ND ND 8.0	10 50	10.00		80.5	55.1	146			
Sample ID:	LCS-49861	SampTy	/pe: L(s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	ID: 49	861	F	lunNo: 6	5901				
Prep Date:	1/16/2020	Analysis Da	ate: 1	/21/2020	S	eqNo: 2	263856	Units: %Red	:		
Analyte Surr: DNOP		Result 5.3	PQL	SPK value 5.000	SPK Ref Val	%REC 107	LowLimit 55.1	HighLimit 146	%RPD	RPDLimit	Qual
Sample ID:	LCS-49891	SampTy	/pe: L(s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	ID: 49	891	F	lunNo: 6	5901				
Prep Date:	1/17/2020	Analysis Da	ate: 1	/20/2020	S	eqNo: 2	263857	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.0		5.000		79.2	55.1	146			
Sample ID:	MB-49861	SampTy	/pe: M	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batch	ID: 49	861	F	unNo: 6	5901				
Prep Date:	1/16/2020	Analysis Da	ate: 1	/21/2020	S	SeqNo: 2	263860	Units: %Red	:		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		11		10.00		108	55.1	146			
Sample ID:	MB-49891	SampTy	/pe: M	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batch	ID: 49	891	F	lunNo: 6	5901				
Prep Date:	1/17/2020	Analysis Da	ate: 1	/20/2020	S	eqNo: 2	263861	Units: %Red	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		8.9		10.00		89.4	55.1	146			

Qualifiers:

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

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

FURI	WO#:	2001729	
alysis Laboratory, Inc.		22-Jan-20	

Client: ENSOL	JUM			
Project: Lateral	C 7 Loop Jan 2020			
Sample ID: rb	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	e
Client ID: PBS	Batch ID: G65910	RunNo: 65910		
Prep Date:	Analysis Date: 1/20/2020	SeqNo: 2263618	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	770 1000	77.4 66.6	105	
Sample ID: 2.5ug gro Icsb	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	9
Client ID: LCSS	Batch ID: G65910	RunNo: 65910		
Prep Date:	Analysis Date: 1/20/2020	SeqNo: 2263619	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)	25 5.0 25.00	0 98.0 80	120	
Surr: BFB	890 1000	88.5 66.6	105	
Sample ID: mb-49896	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	9
Client ID: PBS	Batch ID: 49896	RunNo: 65910		
Prep Date: 1/17/2020	Analysis Date: 1/20/2020	SeqNo: 2263634	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: BFB	820 1000	82.0 66.6	105	
Sample ID: Ics-49896	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	9
Client ID: LCSS	Batch ID: 49896	RunNo: 65910		
Prep Date: 1/17/2020	Analysis Date: 1/20/2020	SeqNo: 2263635	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: BFB	880 1000	87.9 66.6	105	

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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Client:

Project:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

Page	78	of 96

	WO#:	2001729
nmental Analysis Laboratory, Inc.		22-Jan-20
ENSOLUM		
Lateral C 7 Loop Jan 2020		

Sample ID: rb	SampT	SampType: MBLK TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batcl	h ID: B6	5910	F	unNo: 6	5910				
Prep Date:	Analysis D	Date: 1/	20/2020	S	eqNo: 2	263650	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	0.90		1.000		90.0	80	120			
Sample ID: 100ng btex lcsb	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	h ID: B6	5910	F	unNo: 6	5910				
Prep Date:	Analysis D	Date: 1/	20/2020	S	eqNo: 2	263651	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.8	80	120			
Toluene	0.99	0.050	1.000	0	99.5	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.1	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.6	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.4	80	120			
Sample ID: mb-49896	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batcl	h ID: 49	396	F	unNo: 6	5910				
Prep Date: 1/17/2020	Analysis D	Date: 1/	20/2020	S	eqNo: 22	263654	Units: %Rec	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.95		1.000		94.7	80	120			
Sample ID: LCS-49896	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	h ID: 498	396	F	unNo: 6	5910				
Prep Date: 1/17/2020	Analysis D	Date: 1/	20/2020	S	eqNo: 22	263655	Units: %Rec	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		92.1	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	Hall Environmenta Alı TEL: 505-345-397 Website: www.h	ul Analy: 490 buquerq 5 FAX: pallenvir	sis Labor 1 Hawkir ue, NM 8 505-345- conmenta	ratory ns NE 37109 -4107 1.com	Sample Log-In Check List				
Client Name: ENSOLUM AZTEC V	Vork Order Numbe	r: 2001	729			RcptNo: 1			
Received By: Erin Melendrez 1/1 Completed By: Erin Melendrez 1/1 Reviewed By: MA 1/18/20	8/2020 10:00:00 A 8/2020 10:47:53 A	M		UL.	NA NA				
Chain of Custodu									
Le Chain of Custody									
 How was the sample delivered? 		res <u>Cour</u>	ier	NO					
Log In									
Was an attempt made to cool the samples?		Yes	\checkmark	No		NA			
4. Were all samples received at a temperature of >0	° C to 6.0°C	Yes		No					
5. Sample(s) in proper container(s)?		Yes		No					
6. Sufficient sample volume for indicated test(s)?		Yes	~	No					
7. Are samples (except VOA and ONG) properly pres	served?	Yes	\checkmark	No					
8. Was preservative added to bottles?		Yes		No	✓	NA 🗌			
9. Received at least 1 vial with headspace <1/4" for A	AQ VOA?	Yes		No		NA 🗹			
10. Were any sample containers received broken?		Yes		No	~				
11. Does paperwork match bottle labels?		Yes	✓	No		# of preserved bottles checked for pH:			
(Note discrepancies on chain of custody)	4.0	N.		N		(<2 or >12 dnless noted) Adjusted?			
12. Is it clear what analyses were requested?	ay?	Yes		No					
14. Were all holding times able to be mot?		Yes		NO		Checked by: FI 11/11/19/2			
(If no, notify customer for authorization.)		res		NO		Chooked by: LNPTVIO/C			
Special Handling (if applicable)					-				
15. Was client notified of all discrepancies with this or	der?	Yes		No		NA 🗹			
Person Notified:	Date:	maetiniti antipis de	40 Mart & Conception	-	-				
By Whom:	Via:	eMa	iil 🗌 F	Phone	Fax	In Person			
Regarding:	******	0-7.0/Vic.48.00		ALCONO. DE DE L'ENCO		1977 - Alex Society California California California			
Client Instructions:		o pola diatura a		1+3+++++++++++++++++++++++++++++++++++					
16. Additional remarks:									
17. <u>Cooler Information</u>									
Cooler No Temp °C Condition Seal Int	act Seal No	Seal Da	ite	Signed	By				

Receiv	ed by	OCD	: 10	/29/	202	0 8:1	4:21 A	M															P	age 80 o	f 96
	R R									_				1000 C									-		
ļ																					-		6	()2/	eport.
i			601				i.i.i.			_													Proj	IS/	ytical r
	Z O	E	A 87	4107				5	Dr		101	42	X	X	X	X	X	X					D C	is m	he ana
C	₽₿	al.co	e, NN	345-	uest	(tua	edA\t	uəs	Pre) ա.	lifor	Total Co	-										600	NC -	ed on tl
		ment	erqu	505-	Req				(A	0	-ime	S) 0728	3										REL	*	y notat
	SI	viron	nbnq	Fax	ysis	1				1	(AC	0928 (N	3										- Tom	PLE	e clearl
		allen	- A	10	Anal	*0S	PO4, 5	, ₂ C	N '	103	r, h	CI'E' B											17	A NO	a will be
	A	h.ww	S NE	-397		12	CIAILO	017	0 10	slet	eo (20-										AC	20	ted dat
		~	wkins	-345			31413	020 (1	.40	G pc	eruc	W) 803			5				2					act	contrac
			1 Ha	. 505			PCB's	82	08/5	səbi	oite	ad 1808				_				-	_	_	रो	1 t	ny sub-o
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		0.50	-			-1.					-				-										



January 27, 2020

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

RE: Lateral C7 Loop Jan 2020

OrderNo.: 2001962

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/24/2020 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2001962

Date Reported: 1/27/2020

CLIENT:	ENSOLUM	(Client Sample ID: S-21
Project:	Lateral C7 Loop Jan 2020		Collection Date: 1/23/2020 10:00:00 AM
Lab ID:	2001962-001	Matrix: MEOH (SOIL)	Received Date: 1/24/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	230	60	mg/Kg	20	1/24/2020 11:07:14 AM	50025
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	1/24/2020 9:41:22 AM	50023
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/24/2020 9:41:22 AM	50023
Surr: DNOP	110	55.1-146	%Rec	1	1/24/2020 9:41:22 AM	50023
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	17	mg/Kg	5	1/24/2020 10:10:57 AM	G66055
Surr: BFB	89.8	66.6-105	%Rec	5	1/24/2020 10:10:57 AM	G66055
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.083	mg/Kg	5	1/24/2020 10:10:57 AM	B66055
Toluene	ND	0.17	mg/Kg	5	1/24/2020 10:10:57 AM	B66055
Ethylbenzene	ND	0.17	mg/Kg	5	1/24/2020 10:10:57 AM	B66055
Xylenes, Total	ND	0.33	mg/Kg	5	1/24/2020 10:10:57 AM	B66055
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	5	1/24/2020 10:10:57 AM	B66055

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
- Н 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 S

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

Page 1 of 6

Prep Date: 1/24/2020

Analyte Chloride

Analysis Date: 1/24/2020

PQL

1.5

15.00

Result

14

Hall Enviro	all Environmental Analysis Laboratory, Inc.										
Client: Project:	ENSOLUM Lateral C7 Lo	oop Jan 20	20								
Sample ID: MB-5	0025	SampType:	mblk	Tes	tCode: EF	PA Method	300.0: Anion	s			
Client ID: PBS		Batch ID:	50025	F	RunNo: 66	6053					
Prep Date: 1/24	/2020 Ana	alysis Date:	1/24/2020	S	SeqNo: 22	269609	Units: mg/K	g			
Analyte	R	esult PO	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		ND	1.5								
Sample ID: LCS-	50025	SampType:	lcs	Tes	tCode: EF	PA Method	300.0: Anion	s			
Client ID: LCSS		Batch ID:	50025	F	RunNo: 66	6053					

SPK value SPK Ref Val %REC LowLimit

0

SeqNo: 2269611

92.6

Units: mg/Kg

110

HighLimit

90

RPDLimit

Qual

%RPD

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
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- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 6

QC SUMMARY REPORT Ha

ll Environmental Analysis Laboratory, Inc.		27-Jan-20
	WO#:	2001962

Client:	ENSOLU	М										
Project:	Lateral C	7 Loop Ja	n 2020									
	D 50000	0			Tee					0		
	IB-50023	Sampi	ype: NE		Tes		PA Method	8015M/D: Die	sel Range	e Organics		
Client ID: P	BS	Batci	n ID: 50	023	H .	(unNo: 6	6047					
Prep Date:	1/24/2020	Analysis E	Date: 1/	24/2020	5	SeqNo: 2	268100	Units: mg/Kg	9			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Org	anics (DRO)	ND	10									
Motor Oil Range C	Organics (MRO)	ND	50									
Surr: DNOP		11		10.00		108	55.1	146				
Sample ID: L	CS-50023	SampT	Type: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics		
Client ID: L	css	Batcl	h ID: 50	023	F	RunNo: 6	6047					
Prep Date:	1/24/2020	Analysis D	Date: 1/	24/2020	S	SeqNo: 2	268101	Units: mg/Kg	9			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Org	anics (DRO)	52	10	50.00	0	104	63.9	124				
Surr: DNOP		5.1		5.000		103	55.1	146				
Sample ID: 20	001962-001AMS	SampT	Гуре: М	6	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics		
Client ID: S	-21	Batcl	h ID: 50	023	RunNo: 66047							
Prep Date:	1/24/2020	Analysis D	Date: 1/	24/2020	S	SeqNo: 2	268174	Units: mg/Kg	9			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Org	anics (DRO)	51	9.4	46.77	0	108	47.4	136				
Surr: DNOP		5.1		4.677		109	55.1	146				
Sample ID: LO	CS-50000	SampT	Type: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics		
Client ID: L	css	Batcl	h ID: 50	000	F	RunNo: 6	6058					
Prep Date:	1/23/2020	Analysis D	Date: 1/	24/2020	S	SeqNo: 2	268880	Units: %Rec				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP		3.9		5.000		78.9	55.1	146				
Sample ID: M	B-50000	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics		
Client ID: P	BS	Batcl	h ID: 50	000	F	RunNo: 6	6058					
Prep Date:	1/23/2020	Analysis D	Date: 1/	24/2020	S	SeqNo: 2	268883	Units: %Rec				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP		8.6		10.00		85.8	55.1	146				

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н 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 S

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

RL Reporting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	WO#:	2001962
ic.		27-Jan-20

Client: Project:	ENSOLU Lateral C	M 7 Loop Jar	n 2020								
Sample ID:	mb1	SampT	уре: М	BLK	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	PBS	Batch	ID: G	66055	F	RunNo: 6	6055				
Prep Date:		Analysis D	ate: 1	/24/2020	5	SeqNo: 2	268890	Units: mg/Kg	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 840	5.0	1000		84.4	66.6	105			
Sample ID:	2.5ug gro lcsb	SampT	ype: LC	cs	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	LCSS	Batch	ID: G	66055	F	RunNo: 6	6055				
Prep Date:		Analysis D	ate: 1	/24/2020	S	SeqNo: 2	268891	Units: mg/Kg	J		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	24	5.0	25.00	0	95.5	80	120			
Surr: BFB		950		1000		95.1	66.6	105			
Sample ID:	2001962-001amsd	SampT	ype: M	SD	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	S-21	Batch	ID: G	66055	F	RunNo: 6	6055				
Prep Date:		Analysis D	ate: 1	/24/2020	S	SeqNo: 2	268894	Units: mg/Kg	J		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	73	17	83.11	0	87.6	69.1	142	5.33	20	
Surr: BFB		3200		3325		94.9	66.6	105	0	0	
Sample ID:	2001962-001ams	SampT	ype: M	s	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	S-21	Batch	ID: G	66055	F	RunNo: 6	6066				
Prep Date:		Analysis D	ate: 1	/25/2020	5	SeqNo: 2	268987	Units: mg/Kg	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	77	17	83.11	0	92.4	69.1	142			
Surr: BFB		3200		3325		96.1	66.6	105			
Sample ID:	mb-50028	SampT	уре: М	BLK	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	PBS	Batch	ID: 50	028	F	RunNo: 6	6066				
Prep Date:	1/24/2020	Analysis D	ate: 1	/25/2020	S	SeqNo: 2	268988	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		860		1000		85.6	66.6	105			
Sample ID:	lcs-50028	SampT	ype: LC	cs	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	LCSS	Batch	ID: 50	028	F	RunNo: 6	6066		Ū		
Prep Date:	1/24/2020	Analysis D	ate: 1	/25/2020	S	SeqNo: 2	268989	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		960		1000		96.4	66.6	105			

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 6

Client:

QC SUMMARY REPORT Hall Environmental Ana

	WO#:	2001962
nmental Analysis Laboratory, Inc.		27-Jan-20
ENSOLUM		
Lateral C7 Loop Jan 2020		

Project:	Lateral C	7 Loop Jai	n 2020								
Sample ID:	mb1	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batch	n ID: B6	6055	F	RunNo: 6	6055				
Prep Date:		Analysis D	ate: 1/	24/2020	5	SeqNo: 2	268945	Units: mg/k	ſg		
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-Brom	nofluorobenzene	0.95		1.000		95.0	80	120			
Sample ID:	100ng btex lcs	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batch	n ID: B6	6055	F	RunNo: 6	6055				
Prep Date:		Analysis D	ate: 1/	24/2020	S	SeqNo: 2	268946	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.89	0.025	1.000	0	89.1	80	120			
Toluene		0.87	0.050	1.000	0	87.4	80	120			
Ethylbenzene		0.83	0.050	1.000	0	83.2	80	120			
Xylenes, Total		2.5	0.10	3.000	0	83.0	80	120			
Surr: 4-Brom	nofluorobenzene	1.0		1.000		101	80	120			
Sample ID:	2001962-001AMS	SampT	ype: MS	5	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	S-21	Batch	n ID: B6	6055	F						
Prep Date:		Analysis D	ate: 1/	24/2020	S	SeqNo: 2	268948	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		2.8	0.083	3.325	0	85.1	78.5	119			
Toluene		2.7	0.17	3.325	0	82.1	75.7	123			
Ethylbenzene		2.6	0.17	3.325	0	77.1	74.3	126			
Xylenes, Total		7.7	0.33	9.974	0	77.2	72.9	130			
Surr: 4-Brom	nofluorobenzene	3.2		3.325		96.6	80	120			
Sample ID:	2001962-001AMS) SampT	ype: MS	D	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	S-21	Batch	n ID: B6	6055	F	RunNo: 6	6055				
Prep Date:		Analysis D	ate: 1/	24/2020	5	SeqNo: 2	268949	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		3.3	0.083	3.325	0	98.8	78.5	119	14.9	20	
Toluene		3.2	0.17	3.325	0	96.4	75.7	123	16.0	20	
Ethylbenzene		3.2	0.17	3.325	0	96.7	74.3	126	22.5	20	R
Xylenes, Total		9.6	0.33	9.974	0	96.5	72.9	130	22.2	20	R
Surr: 4-Brom	nofluorobenzene	3.2		3.325		95.0	80	120	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н 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 S

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

I

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: ENS Project: Later	OLUM ral C7 Loop Jan 202	20							
Sample ID: mb-50028	SampType:	MBLK	Test	Code: EP	A Method	8021B: Volat	iles		
Client ID: PBS	Batch ID:	50028	R	6066					
Prep Date: 1/24/2020	Analysis Date:	1/25/2020	S	eqNo: 22	69004	Units: %Rec	;		
Analyte	Result PG	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97	1.000		96.9	80	120			
Sample ID: LCS-50028	SampType:	LCS	Test	Code: EP	A Method	8021B: Volat	iles		
Client ID: LCSS	Batch ID:	50028	R	unNo: 66	066				
Prep Date: 1/24/2020	Analysis Date:	1/25/2020	S	eqNo: 22	69005	Units: %Rec	;		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0	1.000		101	80	120			

Qualifiers:

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- PQL Practical Quanitative Limit
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- P Sample pH Not In Range
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Page 6 of 6

2001962

27-Jan-20

WO#:

	ONMENTAL (SIS RATORY	Hall Environmen TEL: 505-345-3 Website: www	ntal Analysis Labo. 4901 Hawki Albuquerque, NM 975 FAX: 505-345 v.hallenvironmenta	ratory ns NE 87109 San -4107 nl.com	Sample Log-In Check List				
Client Name:	ENSOLUM AZTE	C Work Order Num	ber: 2001962		RcptNo: 1				
Received By:	Isaiah Ortiz	1/24/2020 8:00:00 /	AM	ILC	¥				
Completed By:	Isaiah Ortiz	1/24/2020 8:13:29	AM	InC	X				
Reviewed By:	IO	1/24/2020							
Chain of Cus	tody								
1. Is Chain of C	ustody sufficiently c	omplete?	Yes 🗹	No 🗌	Not Present				
2. How was the	sample delivered?		Courier						
<u>Log In</u> 3. Was an attem	not made to cool the	samples?	Yes 🗸	No					
4. Were all sam	oles received at a te	emperature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌				
5. Sample(s) in	proper container(s)	?	Yes 🗹	No 🗌					
6. Sufficient sam	ple volume for indic	cated test(s)?	Yes 🗹	No 🗌					
7. Are samples (except VOA and OI	NG) properly preserved?	Yes 🗹	No 🗌					
8. Was preserva	tive added to bottle	s?	Yes	No 🔽	NA 🗌				
9. Received at le	ast 1 vial with head	space <1/4" for AQ VOA?	Yes	No 🗌	NA 🔽	/			
10. Were any sar	nple containers rec	eived broken?	Yes	No 🗹	# of preserved				
11.Does paperwo (Note discreps	ork match bottle lab ancies on chain of c	els? :ustody)	Yes 🗹	No 🗌	for pH: (<2 or >12	2 unless noted)			
12. Are matrices of	correctly identified o	on Chain of Custody?	Yes 🔽	No 🗌	Adjusted?				
13. Is it clear wha	t analyses were req	uested?	Yes 🔽	No 🗌	1				
14. Were all holdi (If no, notify c	ng times able to be ustomer for authoriz	met? zation.)	Yes 🗹	No 🗌	Checked by:	-1/24/20			
Special Handl	ing (if applicat	ole)							
15. Was client no	tified of all discrepa	ancies with this order?	Yes	No 🗌	NA 🔽				
Person	Notified:	Date	: [anderstation permeterstering and experimental and an and a second s					
By Who	om:	Via:	eMail	Phone 🗌 Fax	In Person				
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APPENDIX G

Regulatory Correspondence

From:	Smith, Cory, EMNRD
То:	Long, Thomas; Steve Austin
Cc:	Stone, Brian
Subject:	RE: Lateral C-7 Loop - UL G Section 25 T27N R9W; 36.549324 -107.736168
Date:	Thursday, January 23, 2020 7:41:58 AM

Tom,

Thank you for the notification, OCD approves the request to sample early.

OCD approval does not relive Enterprise of any other requirements imposed by other regulatory agencies.

Cory Smith Environmental Specialist Oil Conservation Division Energy, Minerals, & Natural Resources 1000 Rio Brazos, Aztec, NM 87410 (505)334-6178 ext 115 cory.smith@state.nm.us

From: Long, Thomas <tjlong@eprod.com>
Sent: Thursday, January 23, 2020 7:38 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Steve Austin <nnepawq@frontiernet.net>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: [EXT] FW: Lateral C-7 Loop - UL G Section 25 T27N R9W; 36.549324 -107.736168

Cory/Steve,

This email is a follow up to our phone conversation this morning. Enterprise will be collecting the final soil sample today from the Lateral C-7 Loop excavation after we get it dug out. This sample will be analyzed for Chlorides only.

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



From: Long, Thomas
Sent: Tuesday, January 21, 2020 1:39 PM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>; Steve Austin
<nnepawq@frontiernet.net>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: Lateral C-7 Loop - UL G Section 25 T27N R9W; 36.549324 -107.736168

Cory/Steve,

Please find the attached site sketch and lab reports for the Lateral C-7 Loop. S-16 failed for chlorides. We will be excavating that area tomorrow and sampling as stated in the previous email.

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



From: Long, Thomas
Sent: Tuesday, January 21, 2020 1:01 PM
To: 'Smith, Cory, EMNRD' <<u>Cory.Smith@state.nm.us</u>>; Steve Austin <<u>nnepawq@frontiernet.net</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: RE: Lateral C-7 Loop - UL G Section 25 T27N R9W; 36.549324 -107.736168

Cory,

Sorry, they were collected the January 17, 2020. In addition, we will be sampling again at the Lateral C-7 excavation tomorrow, January 22, 2020 at 1:00 p.m. As that some of the sample results exceed Tier I standards. I will be sending all of lab results later today. If you have any questions, please call or email.

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



From: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Sent: Tuesday, January 21, 2020 7:54 AM
To: Long, Thomas <<u>tilong@eprod.com</u>>; Steve Austin <<u>nnepawq@frontiernet.net</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: RE: Lateral C-7 Loop - UL G Section 25 T27N R9W; 36.549324 -107.736168

Tom,

Were samples collected on Friday or Saturday the 18th?

Thanks

Cory Smith Environmental Specialist Oil Conservation Division Energy, Minerals, & Natural Resources 1000 Rio Brazos, Aztec, NM 87410 (505)334-6178 ext 115 cory.smith@state.nm.us

From: Long, Thomas <<u>tilong@eprod.com</u>>
Sent: Thursday, January 16, 2020 1:57 PM
To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>; Steve Austin <<u>nnepawq@frontiernet.net</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: [EXT] FW: Lateral C-7 Loop - UL G Section 25 T27N R9W; 36.549324 -107.736168

Cory/Steve,

The email is to notify you that Enterprise will be collecting soil samples from the remaining areas of the Lateral C-7 Loop excavation that require sampling, tomorrow, January 18, 2020 at 10:00 a.m. If you have any questions, please call or email.

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



From: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Sent: Thursday, January 16, 2020 8:17 AM
To: Long, Thomas <<u>tilong@eprod.com</u>>; Steve Austin <<u>nnepawq@frontiernet.net</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: RE: Lateral C-7 Loop - UL G Section 25 T27N R9W; 36.549324 -107.736168

Tom,

OCD approves Enterprises request to sample prior to the 48 notice.

Please include this approval in your final C-141.

OCD approval does not relieve Enterprise of any other requirements imposed by other regulatory agencies.

Cory Smith Environmental Specialist Oil Conservation Division Energy, Minerals, & Natural Resources 1000 Rio Brazos, Aztec, NM 87410 (505)334-6178 ext 115 cory.smith@state.nm.us

From: Long, Thomas <tilong@eprod.com>
Sent: Thursday, January 16, 2020 7:40 AM
To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>; Steve Austin <<u>nnepawq@frontiernet.net</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: [EXT] FW: Lateral C-7 Loop - UL G Section 25 T27N R9W; 36.549324 -107.736168

Cory/Steve,

This is a follow up to our phone conversation yesterday. Enterprise proceeded with collection of soil samples for laboratory analysis with verbal approval from NMOCD. Enterprise utilized the 200 square foot sampling interval. If you have any questions, please call or email

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



From: Long, Thomas
Sent: Wednesday, January 8, 2020 3:31 PM
To: 'Steve Austin' <<u>nnepawq@frontiernet.net</u>>; 'Smith, Cory, EMNRD (<u>Cory.Smith@state.nm.us</u>)'
<<u>Cory.Smith@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>; Griswold, Jim, EMNRD <<u>Jim.Griswold@state.nm.us</u>>
Subject: Lateral C-7 Loop - UL G Section 25 T27N R9W; 36.549324 -107.736168

Cory/Steve,

This email is a notification that Enterprise had a release of natural gas on the Lateral C-7 Loop pipeline today. No liquids were release to the ground surface. The pipeline was isolated, depressurized, locked out and tagged out. The release site is located at UL G Section 25 T27N R9W; 36.549324 -107.736168. The release is located in a wash (blue line on a USGS Topo). I will keep you informed of the remediation activities. If you have any questions, please call or email.

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



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

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

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

District III

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

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

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

CONDITIONS

Operator:		OGRID:					
E	Enterprise Field Services, LLC	241602					
F	PO Box 4324	Action Number:					
ŀ	Houston, TX 77210	10910					
		Action Type:					
		[C-141] Release Corrective Action (C-141)					

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	5/16/2022

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Action 10910