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: 241602
Contact Name: Thomas Long	Contact Telephone: 505-599-2286
Contact email:tjlong@eprod.com	Incident # (assigned by OCD): nAPP2134029025
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

Location of Release Source

Latitude 36.355236

Longitude -107.420832

(NAD 83 in decimal degrees to 5 decimal places)

Site Name 6L-4 Lateral	Site Type Natural Gas Gathering Pipeline
Date Release Discovered:11/30/2021	Serial Number (<i>if applicable</i>): N/A

Unit Letter	Section	Township	Range	County
K	36	25N	6W	Rio Arriba

Surface Owner: State Federal Tribal Private (Name: SLO

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 produced water >10,000 mg/l?	Yes No	
Condensate	Volume Released (bbls): Estimated 5-10 BBLs	Volume Recovered (bbls): None	
🛛 Natural Gas	Volume Released (Mcf): 3.6 MCF	Volume Recovered (Mcf): None	
Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)	

Cause of Release On November 30, 2021, Enterprise had a release of natural gas and natural gas liquids from the 6L-4 Lateral pipeline. The pipeline was isolated, depressurized, locked and tagged out. An area of approximately 15 feet long by six inches wide was impacted by the released fluids. No washes were affected. No residences were affected. No fire was present. No emergency services responded. On December 3, 2021, Enterprise determined the release reportable due the volume of impacted subsurface soil. Remediation was completed on December 13, 2021. The final excavation dimensions measured approximately 43.5 feet long by 37 feet wide by 10 feet deep. Approximately 217 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm. A third party closure report is included with this "Final." C-141.

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attach	ment Checklist: Each of the follow	ing items must be incl	uded in the closure report.		
	npling diagram as described in 19.15	-	-		
			rity if applicable (Note: appropriate OCD District office		
must be notified 2 days		lotos of the line line linegi	ity if applicable (Note: appropriate OCD District office		
Laboratory analyses	of final sampling (Note: appropriate	ODC District office m	ust be notified 2 days prior to final sampling)		
Description of reme	diation activities				
and regulations all operate may endanger public heal should their operations ha human health or the envir compliance with any othe restore, reclaim, and re-ve accordance with 19.15.29 Printed Name: <u>Thomas Lo</u>	ors are required to report and/or file control of the environment. The acceptance we failed to adequately investigate an onment. In addition, OCD acceptance r federal, state, or local laws and/or re- egetate the impacted surface area to the .13 NMAC including notification to t	ertain release notificat ce of a C-141 report by d remediate contamina e of a C-141 report do egulations. The respon the conditions that exist he OCD when reclamant Title: <u>Senior Envir</u>	onmental Scientist		
Signature:		Date: <u>2-15-2</u>	022		
			9-2286		
OCD Only					
Received by:		Date:			
remediate contamination t		face water, human heal	their operations have failed to adequately investigate and th, or the environment nor does not relieve the responsible		
Closure Approved by:	Nelson Velez	Date:	06/23/2022		
Printed Name: Nelson Velez Title: Environmental Specialist – Adv					



CLOSURE REPORT

Property:

6L-4 Lateral (11/30/21) Unit Letter K, S36 T25N R6W Rio Arriba County, New Mexico

NM EMNRD OCD Incident ID No. NAPP2134029025

February 11, 2022 Ensolum Project No. 05A1226171

Prepared for:

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

Prepared by:

Dechi

Ranee Deechilly Project Manager

Umm

Kyle Summers Senior Project Manager

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 606 South Rio Grande, Suite A | Aztec, NM 87410 | ensolum.com



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4.0	SOIL SAMPLING PROGRAM
5.0	SOIL LABORATORY ANALYTICAL METHODS
6.0	SOIL DATA EVALUATION
7.0	RECLAMATION AND REVEGETATION
8.0	FINDINGS AND RECOMMENDATION
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Appendix B:	Siting Figu Figure A Figure C Figure D Figure E Figure F Figure G Figure H	Incestand Documentation 1.0 Mile Radius Water Well/POD Location 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:	Photograp	hic Documentation
Appendix E:	Regulatory	/ Correspondence
Appendix F:		Soil Analytical Summary (Soil Zone: Contains Aliquots From <4 Feet BGS) Soil Analytical Summary (Contains Only Aliquots >4 Feet BGS)

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Appendix G: Laboratory Data Sheets & Chain of Custody Documentation

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E N S O L U M

Closure Report Enterprise Field Services, LLC 6L-4 Lateral (11/30/21) February 11, 2022

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)		
Site Name:	6L-4 Lateral (11/30/21) (Site)		
NM EMNRD OCD Incident ID No.	NAPP2134029025		
Location:	36.355236° North, 107.420832° West Unit Letter K, Section 36, Township 25 North, Range 6 West Rio Arriba County, New Mexico		
Property:	New Mexico State Land		
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)		

On November 30, 2021, Enterprise discovered a leak on the 6L-4 Lateral pipeline. Enterprise verified the leak, and subsequently isolated and locked the pipeline out of service. On December 1, 2021, Enterprise initiated activities to repair the pipeline and remediate potential petroleum hydrocarbon impact.

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

1.2 Project Objective

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

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the NM EMNRD OCD. To address activities related to oil and gas releases, the NM EMNRD OCD references NM 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. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, the general site characteristics, and information available from the NM Office of the State Engineer (OSE) and the NM EMNRD OCD imaging database to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following Siting bullets are provided in **Appendix B**.

- The OSE tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable and includes an interactive map). No PODs were identified within one mile of the Site, and no PODs were identified in the adjacent Public Land Survey System (PLSS) sections (Figure A, Appendix B).
- One cathodic protection well (CPW) was identified in the NM EMNRD OCD imaging database in the adjacent PLSS section. The approximate location of the CPW is depicted on Figure B (Appendix B). The CPW is associated with the Canyon Largo #111 and #87 oil/gas production

E ENSOLUM

wells and is approximately 0.82 miles southeast of the Site and is 209 feet lower in elevation than the Site, with a reported depth to water of 115 feet below grade surface (bgs).

- The Site is not located within 300 feet of a NM EMNRD OCD-defined continuously flowing watercourse or significant watercourse (**Figure C**, **Appendix B**).
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (**Figure D**, **Appendix B**).
- No springs, or private domestic fresh water wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site (**Figure E**, **Appendix B**).
- No fresh water wells or springs were identified within 1,000 feet of the Site (Figure E, Appendix B).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not located within 300 feet of a wetland (**Figure F**, **Appendix B**).
- Based on information identified in the NM Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site not within an area overlying a subsurface mine (Figure G, Appendix B).
- The Site is not located within an unstable area.
- Based on information provided by the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database the location of the Site is not located within a 100-year floodplain (Figure H, Appendix B).

Based on available information, Enterprise estimates the depth to water at the Site to be greater than 50 feet bgs, resulting in a Tier II ranking. However, the soil requirements of NMAC 19.15.29.13(D)(1) indicate that a minimum of the upper four feet must contain "uncontaminated" soil and that the soils meet Tier I closure criteria listed in Table 1 of NMAC 19.15.29.12. Applicable closure criteria for soils (below four feet) remaining in place at the Site include:

Closure Criteria for Soils Impacted by a Release (Tier II)				
Constituent ¹	Method	Limit		
Chloride	EPA 300.0 or SM4500 CI B	10,000 mg/kg		
TPH (GRO+DRO+MRO) ²	EPA SW-846 Method 8015	2,500 mg/kg		
TPH (GRO+DRO)	EPA SW-846 Method 8015	1,000 mg/kg		
BTEX ³	EPA SW-846 Method 8021 or 8260	50 mg/kg		
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg		

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

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

³ – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

Closure Report Enterprise Field Services, LLC 6L-4 Lateral (11/30/21) February 11, 2022

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In addition, the closure criteria (reclamation requirements of NMAC 19.15.29.13(D)(1)) for the upper four feet of soils at the Site include:

Closure Criteria for Soils Impacted by a Release (Soil Zone)			
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	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 December 1, 2021, Enterprise initiated activities to remediate petroleum hydrocarbon impact resulting from the release. During the remediation and corrective action activities, OFT Construction Inc., (OFT), provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately 43.5 feet long and 37 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 10 feet bgs. The lithology encountered during the completion of remediation activities consisted primarily of unconsolidated silty sand and weathered sandstone.

Approximately 217 cubic yards (yd³) of petroleum hydrocarbon affected soils/sandstone and 60 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm near Hilltop, NM for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation was backfilled with imported fill, and the area was then compacted and contoured to the surrounding grade.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the pipeline (**Appendix A**). Photographic documentation of the field activities is included in **Appendix 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 19 composite soil samples (S-1 through S-19) from the excavation for laboratory analysis. The composite samples were comprised of five aliquots each and represent an estimated 200 square foot (ft²) sample area per guidelines outlined in Section D of 19.15.29.12 NMAC. Hand tools and a backhoe, operated by OFT, were utilized to obtain fresh aliquots from each area of the excavation. Regulatory correspondence is provided in **Appendix E**.

First Sampling Event

On December 8, 2021, the first sampling event was performed at the Site. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil sample S-1 (10') was collected from the floor of the excavation. Composite soil samples S-2 (4'-10'), S-3 (4'-10'), S-4 (0'-4'), S-5 (0'-4'), S-6 (4'-10'), S-7 (4'-10), S-8 (4'-10'), S-9 (4'-10'), S-10 (0'-4'), S-11 (0'-4'), and S-16 (0'-4') were collected from the benched or sloped walls of the excavation. Composite soil samples S-12 (0'-4') and S-13 (0'-4') were collected from the walls of the excavated flow path. Composite soil samples S-14 (4') and S-15 (4') were collected from the floor of the excavated flow path. Subsequent soil analytical results identified COC concentrations that exceeded the NM EMNRD OCD closure criteria

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Closure Report Enterprise Field Services, LLC 6L-4 Lateral (11/30/21) February 11, 2022

for composite soil samples S-2, S-3, and S-8. In response to the exceedances the excavation was extended laterally at the areas of impact. Soil associated with samples S-2, S-3, and S-8 were removed by excavation and transported to the landfarm.

Second Sampling Event

On December 13, 2021, a second sampling event was performed. The NM EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Composite soil samples S-17 (4'-10'), S-18 (4'-10'), and S-19 (4'-10') were collected from the walls and floor of the extended excavation.

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

5.0 SOIL LABORATORY ANALYTICAL METHODS

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

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

6.0 SOIL DATA EVALUATION

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1, S-4 through S-7, and S-9 through S-19) to the applicable NM EMNRD OCD closure criteria. The soils associated with composite soil samples S-2, S-3, and S-8 were removed from the Site, and therefore, are not included in the following discussion.

- The laboratory analytical results for composite soil samples S-7 and S-9 indicate benzene concentrations of 0.32 mg/kg and 0.51 mg/kg, respectively, which are less than the applicable New Mexico EMNRD OCD closure criteria of 10 mg/kg. The laboratory analytical results for all other 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 NM EMNRD OCD closure criteria of 10 mg/kg.
- The laboratory analytical results for composite soil samples S-4, S-6, S-7, S-9, and S-10 indicate total BTEX concentrations ranging from 0.14 mg/kg (S-10) to 35 mg/kg (S-9), which are less than the applicable NM EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for all other 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 NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for composite soil samples S-4, S-6, S-7, and S-9 indicate combined TPH GRO/DRO concentrations ranging from 22 mg/kg (S-6) to 280 mg/kg (S-7), which are less than the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg or 1,000 mg/kg depending on sample depth. The laboratory analytical results for all other composite soil samples collected from soils remaining at the Site indicate combined TPH GRO/DRO is not present at

Closure Report Enterprise Field Services, LLC 6L-4 Lateral (11/30/21) February 11, 2022



concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg or 1,000 mg/kg, depending on sample depth.

- The laboratory analytical results for composite soil samples S-4, S-6, S-7, and S-9 indicate combined TPH GRO/DRO/MRO concentrations ranging from 22 mg/kg (S-6) to 280 mg/kg (S-7), which are less than the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg or 2,500 mg/kg, depending on sample depth. The laboratory analytical results for all other composite soil samples collected from soils remaining at the Site indicate combined 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 mg/kg or 2,500 mg/kg, depending on sample depth.
- The laboratory analytical results for all composite soil samples collected from soils remaining at the Site indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 600 mg/kg or 10,000 mg/kg, depending on sample depth.

The laboratory analytical results are summarized in Table 1A and Table 1B (Appendix F).

7.0 RECLAMATION AND REVEGETATION

The excavation was backfilled with imported fill and was then contoured to surrounding grade. Enterprise will re-seed the Site with an approved seeding mixture.

8.0 FINDINGS AND RECOMMENDATION

- Nineteen composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, BTEX, chloride, or combined TPH GRO/DRO/MRO exceedances were identified in the soils remaining at the Site.
- Approximately 217 yd³ of petroleum hydrocarbon affected soils/sandstone and 60 bbls of hydroexcavation soil cuttings and water were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled with imported fill and then 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 Closure Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



APPENDIX A

Figures

Received by OCD: 2/15/2022 8:03:54 AM



Received by OCD: 2/15/2022 8:03:54 AM



Received by OCD: 2/15/2022 8:03:54 AM





APPENDIX B

Siting Figures and Documentation











Received by OCD: 2/15/2022 8:03:54 AM



Received by OCD: 2/15/2022 8:03:54 AM







No records found.

PLSS Search:

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

Range: 06W



No records found.

PLSS Search:

Section(s): 30, 31

Township: 25N

Range: 05W



No records found.

PLSS Search:

Section(s): 6

Township: 24N

Range: 05W



No records found.

PLSS Search:

Section(s): 1, 2

Township: 24N

Range: 06W

Received by OCD: 2/15/2022 8:03:54 AM

#111 30-039-0565 Juge 29 of 79



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

Operator Meridian Oil INC. Location: Unit G Sec.	01 Twp 24 Rng 06
Name of Well/Wells.or Pipeline Serviced CANYON LAF90 #111 AND#87	
Elevation 6586 Completion Date 6/2/95 Total Depth 425 L	and Type P
Casing Strings, Sizes, Types & Depths/4/1 Set 99'OF8 No GAS, WATER, or Boulders Were. ENCouNTered DURI	"PUC CASING.
If Casing Strings are cemented, show amounts & types used with 19 SACKS.	CemerTed
If Cement or Bentonite Plugs have been placed, show depth Nove	is & amounts used
Depths & thickness of water zones with description of wat Salty, Sulphur, Etc. <u>Hit Fresh Water AT 115.</u>	ter: Fresh, Clear,
Depths gas encountered: Nowe	and the second
Ground bed depth with type & amount of coke breeze used: <u>Used</u> 105 SACKS OF ASbury 218R (5250 [#])	425 DepTH.
Depths anodes placed: 395, 385, 375, 365, 354, 345, 335, 325, 315, 285,	275, 250, 240, 230, +185
Depths vent pipes placed: Sutface To 425.	
Vent pipe perforations: Bottom 300.	DECEIVED
Remarks:	JAN 1 1 1996 D
	OIL CON. DIV.
	DIN: 3

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

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



APPENDIX C

Executed C-138 Solid Waste Acceptance Form

Received by OCD: 2/15/2022 8:03:54 AM

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Bio Decres Based Actes NM 87410

State of New Mexico Energy Minerals and Natural Resources Oil Conservation Division

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Form C-138 Revised 08/01/11

District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 12200 St. Ferneie Dr. Sente Fe. NM 87505	1220 South St. Francis Dr. Santa Fe, NM 87505	*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection. 97057-1125			
	1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 97057~1125 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE				
1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401		PayKey: RB21200 PM:Dwayne Dixon AFE: Pending			
2. Originating Site: 6L-4 Lateral					
3. Location of Material (Street Address, C UL K Section 36 T25N R6W; 36.35523		Dec 2021			
4. Source and Description of Waste: Source: Remediation activities associated y Description: Hydrocarbon/Condensate impact Estimated Volume _20_yd//bbls Known	cted soil and liquids associated natural gas nit	peline release. end of the haul) $217/60$ yd ³ /bbls			
5. GENERATO	R CERTIFICATION STATEMENT OF V	VASTE STATUS			
I, Thomas Long, representative or a Generator Signature certify that according to the Resource Conserv regulatory determination, the above described	vation and Recovery Act (RCRA) and the US	Environmental Protection Agency's July 1988			
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non- exempt waste. Operator Use Only: Waste Acceptance Frequency Monthly Weekly Per Load					
characteristics established in RCRA regu	lations, 40 CFR 261.21-261.24, or listed haza	I the minimum standards for waste hazardous by ardous waste as defined in 40 CFR, part 261, above-described waste is non-hazardous. (Check			
MSDS Information RCRA Hazardo	us Waste Analysis 🛛 Process Knowledge	□ Other (Provide description in Box 4)			
GENERATOR 19.15.36.15 WA	STE TESTING CERTIFICATION STAT	EMENT FOR LANDFARMS			
I, Thomas Long I, Thomas Long Generator Signature the required testing/sign the Generator Waste		authorizes Envirotech, Inc. to complete			
I, <u>Greg Crabbrec</u> , representative for <u>Envirotech, Inc.</u> do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.					
5. Transporter: TBD Riley STA OCD Permitted Surface Waste Management	nHorn, OFT, CFAM				
	Inc. Soil Remediation Facility * Permit #:	NM 01-0011] Landfill 🔲 Other			
Waste Acceptance Status:	Waste Acceptance Status:				
PRINT NAME: Gras Crabbree SIGNATURE: Surface Waste Management Facility	TITLE: Enviro / TELEPHONE NO.:	ED (Must Be Maintained As Permanent Record) $\underline{MAn4gen}$ DATE: $\underline{12/1/21}$ 5-632-0615			



APPENDIX D

Photographic Documentation

Closure Report Enterprise Field Services, LLC 6L-4 Lateral (11/30/21) Ensolum Project No. 05A1226171



Photograph 1 Photograph Description: View of in-process excavation activities.	
Photograph 2	
Photograph Description: View of in-process excavation activities.	
Photograph 3 Photograph Description: View of in-process excavation activities.	

SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC 6L-4 Lateral (11/30/21) Ensolum Project No. 05A1226171





SITE PHOTOGRAPHS

Closure Report Enterprise Field Services, LLC 6L-4 Lateral (11/30/21) Ensolum Project No. 05A1226171



Photograph 7 Photograph Description: View of the excavation (second sampling event).	
Photograph 8 Photograph Description: View of the site after initial restoration.	

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APPENDIX E

Regulatory Correspondence
From:	Smith, Cory, EMNRD
To:	Long, Thomas
Cc:	Stone, Brian; Velez, Nelson, EMNRD
Subject:	RE: [EXTERNAL] FW: 6L-4 Lateral - UL K Section 36 T25N R6W; 36.355236, -107.420832 - Incident #nAPP2134029025
Date:	Monday, December 13, 2021 10:10:36 AM

[Use caution with links/attachments]

Tom,

Please go ahead and proceed with sampling today.

Thanks for calling and providing us with an update.

Cory Smith Environmental Specialist Supervisor Oil Conservation Division Energy, Minerals, & Natural Resources Albuquerque Office (505)334-6178 ext 115 cory.smith@state.nm.us

From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, December 13, 2021 10:06 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: [EXTERNAL] FW: 6L-4 Lateral - UL K Section 36 T25N R6W; 36.355236, -107.420832 - Incident #nAPP2134029025

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Cory,

Please find the attached site sketch and lab report for the 6L-4 Lateral excavation. As previously discussed, three areas exceed NMOCD remediation standards. As previously mentioned, I was requesting a variance for the required sample notification and would like to collected soil samples today, so we can finish the remediation of this release. I called Nelson Velez and left a message. I have not heard back. Please let me know if sampling today is acceptable. If you have any questions, please call or email.

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



From: Long, Thomas
Sent: Tuesday, December 7, 2021 9:33 AM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>; 'Johnson, David'
<djohnson@slo.state.nm.us>
Cc: Stone, Brian
bmstone@eprod.com>
Subject: 6L-4 Lateral - UL K Section 36 T25N R6W; 36.355236, -107.420832 - Incident
#nAPP2134029025

Cory/David,

This email is a notification that Enterprise will be collecting soil samples for laboratory analysis at the 6L-4 Lateral excavation tomorrow, December 8, 2021 at 9:00 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) <u>tjlong@eprod.com</u>



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



APPENDIX F

Tables

ENSOLUM

	TABLE 1A 6L-4 Lateral (11/30/21) SOIL ANALYTICAL SUMMARY (SOIL ZONE: CONTAINS ALIQUOTS FROM < 4 FEET BGS)												
Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX ¹ (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) ¹ (mg/kg)	Chloride (mg/kg)
		Natural Resource on Closure Criteria		10	NE	NE	NE	50				100	600
					E	cavation Com	posite Soil Sa	amples					
S-4	12.08.21	С	0 to 4	<0.084	0.27	0.19	1.7	2.2	22	18	<47	40	<61
S-5	12.08.21	С	0 to 4	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<9.7	<48	ND	<60
S-10	12.08.21	С	0 to 4	<0.017	0.039	<0.034	0.096	0.14	<3.4	<9.3	<47	ND	<60
S-11	12.08.21	С	0 to 4	<0.019	<0.037	<0.037	<0.075	ND	<3.7	<9.8	<49	ND	<60
S-12	12.08.21	С	0 to 4	<0.016	<0.033	<0.033	<0.065	ND	<3.3	<9.4	<47	ND	<59
S-13	12.08.21	С	0 to 4	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.5	<47	ND	<60
S-14	12.08.21	С	4	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<10	<50	ND	<60
S-15	12.08.21	С	4	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.4	<47	ND	<60
S-16	12.08.21	С	0 to 4	<0.019	<0.038	<0.038	<0.075	ND	<3.8	<9.8	<49	ND	<60

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

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

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

NA = Not Analyzed

NE = Not established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

ENSOLUM

	TABLE 1B 6L-4 Lateral (11/30/21) SOIL ANALYTICAL SUMMARY (CONTAINS ONLY ALIQUOTS FROM >4 FEET BGS)													
Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX ¹ (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO) ¹ (mg/kg)	Total Combined TPH (GRO/DRO/MRO) ¹ (mg/kg)	Chloride (mg/kg)
		Natural Resource n Closure Criteria		10	NE	NE	NE	50				1,000	2,500	10,000
			Co	omposite Soil	Samples Rem	oved by Exca	ation and Tra	ansported to th	ne Landfarm f	or Diposal/Re	mediation			
S-2	12.08.21	С	4 to 10	1.8	25	4.1	32	63	320	150	<45	470	470	<60
S-3	12.08.21	С	4 to 10	3.8	19	4.4	38	65	400	280	<48	680	680	<60
S-8	12.08.21	С	4 to 10	18	120	21	160	320	1,400	250	<50	1,700	1,700	<60
						Excavat	tion Composi	te Soil Sample	S					
S-1	12.08.21	С	10	<0.087	<0.17	<0.17	<0.35	ND	<17	<9.3	<46	ND	ND	<60
S-6	12.08.21	С	4 to 10	<0.022	<0.044	<0.044	0.22	0.22	6.8	15	<45	22	22	<60
S-7	12.08.21	С	4 to 10	0.32	3.7	1.0	8.6	14	83	200	<44	280	280	<60
S-9	12.08.21	С	4 to 10	0.51	12	2.5	20	35	200	45	<47	250	250	<60
S-17	12.13.21	С	4 to 10	<0.019	<0.038	<0.038	<0.077	ND	<3.8	<9.4	<47	ND	ND	<60
S-18	12.13.21	С	4 to 10	<0.017	<0.035	<0.035	<0.070	ND	<3.5	<9.8	<49	ND	ND	<61
S-19	12.13.21	С	4 to 10	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<9.3	<47	ND	ND	<60

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

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

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

NA = Not Analyzed

NE = Not established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics



APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation



December 15, 2021

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

OrderNo.: 2112589

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

RE: 6L 4 Lateral

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 16 sample(s) on 12/9/2021 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 2112589

Date Reported: 12/15/2021

CLIENT: ENSOLUM	Client Sample ID: S-1
Project: 6L 4 Lateral	Collection Date: 12/8/2021 1:10:00 PM
Lab ID: 2112589-001	Matrix: MEOH (SOIL) Received Date: 12/9/2021 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	ND	60	mg/Kg	20	12/10/2021 11:13:22 A	M 64396
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	12/9/2021 10:49:36 AN	l 64391
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/9/2021 10:49:36 AN	l 64391
Surr: DNOP	87.5	70-130	%Rec	1	12/9/2021 10:49:36 AN	l 64391
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	17	mg/Kg	5	12/9/2021 9:57:02 AM	G84409
Surr: BFB	101	70-130	%Rec	5	12/9/2021 9:57:02 AM	G84409
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.087	mg/Kg	5	12/9/2021 9:57:02 AM	B84409
Toluene	ND	0.17	mg/Kg	5	12/9/2021 9:57:02 AM	B84409
Ethylbenzene	ND	0.17	mg/Kg	5	12/9/2021 9:57:02 AM	B84409
Xylenes, Total	ND	0.35	mg/Kg	5	12/9/2021 9:57:02 AM	B84409
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	5	12/9/2021 9:57:02 AM	B84409

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
- % Recovery outside of range due to dilution or matrix interference 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 22

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112589

Date Reported: 12/15/2021

CLIENT: ENSOLUM	Client Sample ID: S-2
Project: 6L 4 Lateral	Collection Date: 12/8/2021 1:15:00 PM
Lab ID: 2112589-002	Matrix: MEOH (SOIL) Received Date: 12/9/2021 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	ND	60		mg/Kg	20	12/10/2021 11:25:43 A	M 64396
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS					Analyst	: SB
Diesel Range Organics (DRO)	150	9.1		mg/Kg	1	12/9/2021 11:00:08 AN	l 64391
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/9/2021 11:00:08 AN	l 64391
Surr: DNOP	86.4	70-130		%Rec	1	12/9/2021 11:00:08 AN	l 64391
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	320	19		mg/Kg	5	12/9/2021 10:20:42 AN	G84409
Surr: BFB	405	70-130	S	%Rec	5	12/9/2021 10:20:42 AN	G84409
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	1.8	0.094		mg/Kg	5	12/9/2021 10:20:42 AN	B84409
Toluene	25	1.9		mg/Kg	50	12/9/2021 2:15:15 PM	B84409
Ethylbenzene	4.1	0.19		mg/Kg	5	12/9/2021 10:20:42 AN	B84409
Xylenes, Total	32	0.38		mg/Kg	5	12/9/2021 10:20:42 AN	B84409
Surr: 4-Bromofluorobenzene	151	70-130	S	%Rec	5	12/9/2021 10:20:42 AN	B84409

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
- % Recovery outside of range due to dilution or matrix interference 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 2112589

Date Reported: 12/15/2021

CLIENT	ENSOLUM	Client Sample ID: S-3
Project:	6L 4 Lateral	Collection Date: 12/8/2021 1:20:00 PM
Lab ID:	2112589-003	Matrix: MEOH (SOIL) Received Date: 12/9/2021 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: LRN
Chloride	ND	60		mg/Kg	20	12/10/2021 11:38:05 A	M 64396
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analys	t: SB
Diesel Range Organics (DRO)	280	9.6		mg/Kg	1	12/10/2021 9:43:29 PM	1 64391
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/10/2021 9:43:29 PN	1 64391
Surr: DNOP	72.2	70-130		%Rec	1	12/10/2021 9:43:29 PN	1 64391
EPA METHOD 8015D: GASOLINE RANGE						Analys	t: NSB
Gasoline Range Organics (GRO)	400	18		mg/Kg	5	12/9/2021 10:44:17 AN	1 G84409
Surr: BFB	447	70-130	S	%Rec	5	12/9/2021 10:44:17 AN	1 G84409
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	3.8	0.092		mg/Kg	5	12/9/2021 10:44:17 AN	1 B84409
Toluene	19	1.8		mg/Kg	50	12/10/2021 2:47:00 AN	1 B84409
Ethylbenzene	4.4	0.18		mg/Kg	5	12/9/2021 10:44:17 AN	1 B84409
Xylenes, Total	38	0.37		mg/Kg	5	12/9/2021 10:44:17 AN	1 B84409
Surr: 4-Bromofluorobenzene	165	70-130	S	%Rec	5	12/9/2021 10:44:17 AN	1 B84409

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range Analyte detected below quantitation limits
- J Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112589

Date Reported: 12/15/2021

CLIENT	ENSOLUM	Client Sample ID: S-4
Project:	6L 4 Lateral	Collection Date: 12/8/2021 1:25:00 PM
Lab ID:	2112589-004	Matrix: MEOH (SOIL) Received Date: 12/9/2021 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	LRN
Chloride	ND	61		mg/Kg	20	12/10/2021 11:50:26 AM	N 64396
EPA METHOD 8015M/D: DIESEL RANGE OI	RGANICS					Analyst	SB
Diesel Range Organics (DRO)	18	9.5		mg/Kg	1	12/9/2021 11:21:14 AM	64391
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2021 11:21:14 AM	64391
Surr: DNOP	81.6	70-130		%Rec	1	12/9/2021 11:21:14 AM	64391
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	22	17		mg/Kg	5	12/9/2021 11:07:47 AM	G84409
Surr: BFB	140	70-130	S	%Rec	5	12/9/2021 11:07:47 AM	G84409
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.084		mg/Kg	5	12/9/2021 11:07:47 AM	B84409
Toluene	0.27	0.17		mg/Kg	5	12/9/2021 11:07:47 AM	B84409
Ethylbenzene	0.19	0.17		mg/Kg	5	12/9/2021 11:07:47 AM	B84409
Xylenes, Total	1.7	0.33		mg/Kg	5	12/9/2021 11:07:47 AM	B84409
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	5	12/9/2021 11:07:47 AM	B84409

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
- % Recovery outside of range due to dilution or matrix interference 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 2112589

Date Reported: 12/15/2021

CLIENT:	ENSOLUM	Client Sample ID: S-5
Project:	6L 4 Lateral	Collection Date: 12/8/2021 1:30:00 PM
Lab ID:	2112589-005	Matrix: MEOH (SOIL) Received Date: 12/9/2021 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	ND	60	mg/Kg	20	12/10/2021 4:34:29 PM	64396
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	12/9/2021 11:31:48 AM	64391
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/9/2021 11:31:48 AM	64391
Surr: DNOP	82.7	70-130	%Rec	1	12/9/2021 11:31:48 AM	64391
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	12/9/2021 11:31:03 AM	G84409
Surr: BFB	106	70-130	%Rec	1	12/9/2021 11:31:03 AM	G84409
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.018	mg/Kg	1	12/9/2021 11:31:03 AM	B84409
Toluene	ND	0.036	mg/Kg	1	12/9/2021 11:31:03 AM	B84409
Ethylbenzene	ND	0.036	mg/Kg	1	12/9/2021 11:31:03 AM	B84409
Xylenes, Total	ND	0.072	mg/Kg	1	12/9/2021 11:31:03 AM	B84409
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	12/9/2021 11:31:03 AM	B84409

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
- % Recovery outside of range due to dilution or matrix interference 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 2112589

Date Reported: 12/15/2021

CLIENT	: ENSOLUM	Client Sample ID: S-6
Project:	6L 4 Lateral	Collection Date: 12/8/2021 1:35:00 PM
Lab ID:	2112589-006	Matrix: MEOH (SOIL) Received Date: 12/9/2021 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	LRN
Chloride	ND	60		mg/Kg	20	12/10/2021 12:39:48 PM	N 64396
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS					Analyst	SB
Diesel Range Organics (DRO)	15	9.0		mg/Kg	1	12/13/2021 12:00:39 PM	A 64391
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/13/2021 12:00:39 PM	N 64391
Surr: DNOP	75.3	70-130		%Rec	1	12/13/2021 12:00:39 PM	M 64391
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	6.8	4.4		mg/Kg	1	12/9/2021 11:54:22 AM	G84409
Surr: BFB	149	70-130	S	%Rec	1	12/9/2021 11:54:22 AM	G84409
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.022		mg/Kg	1	12/9/2021 11:54:22 AM	B84409
Toluene	ND	0.044		mg/Kg	1	12/9/2021 11:54:22 AM	B84409
Ethylbenzene	ND	0.044		mg/Kg	1	12/9/2021 11:54:22 AM	B84409
Xylenes, Total	0.22	0.088		mg/Kg	1	12/9/2021 11:54:22 AM	B84409
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	12/9/2021 11:54:22 AM	B84409

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
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range Analyte detected below quantitation limits
- J Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112589

Date Reported: 12/15/2021

CLIENT:	ENSOLUM	Client Sample ID: S-7
Project:	6L 4 Lateral	Collection Date: 12/8/2021 1:40:00 PM
Lab ID:	2112589-007	Matrix: MEOH (SOIL) Received Date: 12/9/2021 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: LRN
Chloride	ND	60		mg/Kg	20	12/10/2021 12:52:09 P	M 64396
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analys	t: SB
Diesel Range Organics (DRO)	200	8.7		mg/Kg	1	12/9/2021 11:53:02 AM	1 64391
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/9/2021 11:53:02 AN	1 64391
Surr: DNOP	74.7	70-130		%Rec	1	12/9/2021 11:53:02 AM	1 64391
EPA METHOD 8015D: GASOLINE RANG	E					Analys	t: NSB
Gasoline Range Organics (GRO)	83	18		mg/Kg	5	12/9/2021 12:18:02 PM	1 G84409
Surr: BFB	174	70-130	S	%Rec	5	12/9/2021 12:18:02 PM	1 G84409
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	0.32	0.092		mg/Kg	5	12/9/2021 12:18:02 PM	1 B84409
Toluene	3.7	0.18		mg/Kg	5	12/9/2021 12:18:02 PM	1 B84409
Ethylbenzene	1.0	0.18		mg/Kg	5	12/9/2021 12:18:02 PM	1 B84409
Xylenes, Total	8.6	0.37		mg/Kg	5	12/9/2021 12:18:02 PM	1 B84409
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	5	12/9/2021 12:18:02 PM	1 B84409

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
- % Recovery outside of range due to dilution or matrix interference 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 2112589

Date Reported: 12/15/2021

CLIENT	ENSOLUM	Client Sample ID: S-8
Project:	6L 4 Lateral	Collection Date: 12/8/2021 1:45:00 PM
Lab ID:	2112589-008	Matrix: MEOH (SOIL) Received Date: 12/9/2021 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	ND	60		mg/Kg	20	12/10/2021 1:04:30 PM	64396
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS					Analyst	SB
Diesel Range Organics (DRO)	250	10		mg/Kg	1	12/9/2021 12:03:39 PM	64391
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/9/2021 12:03:39 PM	64391
Surr: DNOP	82.8	70-130		%Rec	1	12/9/2021 12:03:39 PM	64391
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	1400	24		mg/Kg	5	12/9/2021 12:41:41 PM	G84409
Surr: BFB	593	70-130	S	%Rec	5	12/9/2021 12:41:41 PM	G84409
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	18	0.12		mg/Kg	5	12/9/2021 12:41:41 PM	B84409
Toluene	120	2.4		mg/Kg	50	12/9/2021 3:02:10 PM	B84409
Ethylbenzene	21	0.24		mg/Kg	5	12/9/2021 12:41:41 PM	B84409
Xylenes, Total	160	4.7		mg/Kg	50	12/9/2021 3:02:10 PM	B84409
Surr: 4-Bromofluorobenzene	209	70-130	S	%Rec	5	12/9/2021 12:41:41 PM	B84409

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
- % Recovery outside of range due to dilution or matrix interference 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 2112589

Date Reported: 12/15/2021

CLIENT	ENSOLUM	Client Sample ID: S-9
Project:	6L 4 Lateral	Collection Date: 12/8/2021 1:50:00 PM
Lab ID:	2112589-009	Matrix: MEOH (SOIL) Received Date: 12/9/2021 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	LRN
Chloride	ND	60		mg/Kg	20	12/10/2021 1:16:50 PM	64396
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	SB
Diesel Range Organics (DRO)	45	9.4		mg/Kg	1	12/9/2021 12:14:19 PM	64391
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2021 12:14:19 PM	64391
Surr: DNOP	86.6	70-130		%Rec	1	12/9/2021 12:14:19 PM	64391
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	200	20		mg/Kg	5	12/9/2021 1:28:35 PM	G84409
Surr: BFB	338	70-130	S	%Rec	5	12/9/2021 1:28:35 PM	G84409
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	0.51	0.10		mg/Kg	5	12/9/2021 1:28:35 PM	B84409
Toluene	12	0.20		mg/Kg	5	12/9/2021 1:28:35 PM	B84409
Ethylbenzene	2.5	0.20		mg/Kg	5	12/9/2021 1:28:35 PM	B84409
Xylenes, Total	20	0.40		mg/Kg	5	12/9/2021 1:28:35 PM	B84409
Surr: 4-Bromofluorobenzene	131	70-130	S	%Rec	5	12/9/2021 1:28:35 PM	B84409

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
- % Recovery outside of range due to dilution or matrix interference 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 2112589

Date Reported: 12/15/2021

CLIENT: ENSOLUM	Client Sample ID: S-10
Project: 6L 4 Lateral	Collection Date: 12/8/2021 1:55:00 PM
Lab ID: 2112589-010	Matrix: MEOH (SOIL) Received Date: 12/9/2021 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	ND	60	mg/Kg	20	12/10/2021 1:29:12 PM	64396
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	12/9/2021 12:24:59 PM	64391
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/9/2021 12:24:59 PM	64391
Surr: DNOP	82.4	70-130	%Rec	1	12/9/2021 12:24:59 PM	64391
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	12/9/2021 1:51:56 PM	G84409
Surr: BFB	117	70-130	%Rec	1	12/9/2021 1:51:56 PM	G84409
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.017	mg/Kg	1	12/9/2021 1:51:56 PM	B84409
Toluene	0.039	0.034	mg/Kg	1	12/9/2021 1:51:56 PM	B84409
Ethylbenzene	ND	0.034	mg/Kg	1	12/9/2021 1:51:56 PM	B84409
Xylenes, Total	0.096	0.067	mg/Kg	1	12/9/2021 1:51:56 PM	B84409
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	12/9/2021 1:51:56 PM	B84409

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
- % Recovery outside of range due to dilution or matrix interference 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 2112589

Date Reported: 12/15/2021

CLIENT: ENSOLUM Client Sample ID: S-11					
Project:	6L 4 Lateral		Collection Date: 12/8/2021 2:00:00 PM		
Lab ID:	2112589-011	Matrix: MEOH (SOIL)	Received Date: 12/9/2021 7:25:00 AM		

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	ND	60	mg/Kg	20	12/10/2021 1:41:34 PM	64396
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/9/2021 11:00:31 AM	64391
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/9/2021 11:00:31 AM	64391
Surr: DNOP	106	70-130	%Rec	1	12/9/2021 11:00:31 AM	64391
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	12/9/2021 11:12:00 AM	R84405
Surr: BFB	92.0	70-130	%Rec	1	12/9/2021 11:12:00 AM	R84405
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.019	mg/Kg	1	12/9/2021 11:12:00 AM	R84405
Toluene	ND	0.037	mg/Kg	1	12/9/2021 11:12:00 AM	R84405
Ethylbenzene	ND	0.037	mg/Kg	1	12/9/2021 11:12:00 AM	R84405
Xylenes, Total	ND	0.075	mg/Kg	1	12/9/2021 11:12:00 AM	R84405
Surr: 4-Bromofluorobenzene	83.4	70-130	%Rec	1	12/9/2021 11:12:00 AM	R84405

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
- % Recovery outside of range due to dilution or matrix interference 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 2112589

Date Reported: 12/15/2021

CLIENT: ENSOLUM	Client Sample ID: S-12
Project: 6L 4 Lateral	Collection Date: 12/8/2021 2:05:00 PM
Lab ID: 2112589-012	Matrix: MEOH (SOIL) Received Date: 12/9/2021 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	ND	59	mg/Kg	20	12/10/2021 1:53:55 PM	64396
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	12/9/2021 11:24:11 AM	64391
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/9/2021 11:24:11 AM	64391
Surr: DNOP	105	70-130	%Rec	1	12/9/2021 11:24:11 AM	64391
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	12/9/2021 11:32:00 AM	R84405
Surr: BFB	95.5	70-130	%Rec	1	12/9/2021 11:32:00 AM	R84405
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.016	mg/Kg	1	12/9/2021 11:32:00 AM	R84405
Toluene	ND	0.033	mg/Kg	1	12/9/2021 11:32:00 AM	R84405
Ethylbenzene	ND	0.033	mg/Kg	1	12/9/2021 11:32:00 AM	R84405
Xylenes, Total	ND	0.065	mg/Kg	1	12/9/2021 11:32:00 AM	R84405
Surr: 4-Bromofluorobenzene	83.7	70-130	%Rec	1	12/9/2021 11:32:00 AM	R84405

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
- % Recovery outside of range due to dilution or matrix interference 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 2112589

Date Reported: 12/15/2021

CLIENT:	ENSOLUM	(Client Sample ID: S-13
Project:	6L 4 Lateral		Collection Date: 12/8/2021 2:10:00 PM
Lab ID:	2112589-013	Matrix: MEOH (SOIL)	Received Date: 12/9/2021 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	ND	60	mg/Kg	20	12/10/2021 2:06:16 PM	64396
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	12/9/2021 11:47:59 AM	64391
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/9/2021 11:47:59 AM	64391
Surr: DNOP	106	70-130	%Rec	1	12/9/2021 11:47:59 AM	64391
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	12/9/2021 11:52:00 AM	R84405
Surr: BFB	89.0	70-130	%Rec	1	12/9/2021 11:52:00 AM	R84405
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.017	mg/Kg	1	12/9/2021 11:52:00 AM	R84405
Toluene	ND	0.034	mg/Kg	1	12/9/2021 11:52:00 AM	R84405
Ethylbenzene	ND	0.034	mg/Kg	1	12/9/2021 11:52:00 AM	R84405
Xylenes, Total	ND	0.068	mg/Kg	1	12/9/2021 11:52:00 AM	R84405
Surr: 4-Bromofluorobenzene	79.3	70-130	%Rec	1	12/9/2021 11:52:00 AM	R84405

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
- % Recovery outside of range due to dilution or matrix interference 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 2112589

Date Reported: 12/15/2021

CLIENT:	ENSOLUM	(Client Sample ID: S-14
Project:	6L 4 Lateral		Collection Date: 12/8/2021 2:15:00 PM
Lab ID:	2112589-014	Matrix: MEOH (SOIL)	Received Date: 12/9/2021 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	ND	60	mg/Kg	20	12/10/2021 4:46:49 PM	64396
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/9/2021 11:10:56 AM	64391
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/9/2021 11:10:56 AM	64391
Surr: DNOP	93.9	70-130	%Rec	1	12/9/2021 11:10:56 AM	64391
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	12/9/2021 12:11:00 PM	R84405
Surr: BFB	91.2	70-130	%Rec	1	12/9/2021 12:11:00 PM	R84405
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.018	mg/Kg	1	12/9/2021 12:11:00 PM	R84405
Toluene	ND	0.036	mg/Kg	1	12/9/2021 12:11:00 PM	R84405
Ethylbenzene	ND	0.036	mg/Kg	1	12/9/2021 12:11:00 PM	R84405
Xylenes, Total	ND	0.072	mg/Kg	1	12/9/2021 12:11:00 PM	R84405
Surr: 4-Bromofluorobenzene	82.2	70-130	%Rec	1	12/9/2021 12:11:00 PM	R84405

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
- % Recovery outside of range due to dilution or matrix interference 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 2112589

Date Reported: 12/15/2021

CLIENT: ENSOLUM	Client Sample ID: S-15
Project: 6L 4 Latera	1 Collection Date: 12/8/2021 2:20:00 PM
Lab ID: 2112589-0	5 Matrix: MEOH (SOIL) Received Date: 12/9/2021 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	ND	60	mg/Kg	20	12/10/2021 2:55:39 PM	64396
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	12/9/2021 11:22:54 AM	64391
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/9/2021 11:22:54 AM	64391
Surr: DNOP	92.8	70-130	%Rec	1	12/9/2021 11:22:54 AM	64391
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	12/9/2021 12:31:00 PM	R84405
Surr: BFB	92.8	70-130	%Rec	1	12/9/2021 12:31:00 PM	R84405
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.017	mg/Kg	1	12/9/2021 12:31:00 PM	R84405
Toluene	ND	0.034	mg/Kg	1	12/9/2021 12:31:00 PM	R84405
Ethylbenzene	ND	0.034	mg/Kg	1	12/9/2021 12:31:00 PM	R84405
Xylenes, Total	ND	0.068	mg/Kg	1	12/9/2021 12:31:00 PM	R84405
Surr: 4-Bromofluorobenzene	83.7	70-130	%Rec	1	12/9/2021 12:31:00 PM	R84405

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
- % Recovery outside of range due to dilution or matrix interference 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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Released to Imaging: 6/23/2022 8:08:12 AM

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112589

Date Reported: 12/15/2021

CLIENT: EN	NSOLUM	(Client Sample ID: S-16
Project: 6L	4 Lateral		Collection Date: 12/8/2021 2:25:00 PM
Lab ID: 21	12589-016	Matrix: MEOH (SOIL)	Received Date: 12/9/2021 7:25:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	ND	60	mg/Kg	20	12/10/2021 3:08:00 PM	64396
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/9/2021 11:34:50 AM	64391
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/9/2021 11:34:50 AM	64391
Surr: DNOP	90.8	70-130	%Rec	1	12/9/2021 11:34:50 AM	64391
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	12/9/2021 12:51:00 PM	R84405
Surr: BFB	91.1	70-130	%Rec	1	12/9/2021 12:51:00 PM	R84405
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.019	mg/Kg	1	12/9/2021 12:51:00 PM	R84405
Toluene	ND	0.038	mg/Kg	1	12/9/2021 12:51:00 PM	R84405
Ethylbenzene	ND	0.038	mg/Kg	1	12/9/2021 12:51:00 PM	R84405
Xylenes, Total	ND	0.075	mg/Kg	1	12/9/2021 12:51:00 PM	R84405
Surr: 4-Bromofluorobenzene	77.5	70-130	%Rec	1	12/9/2021 12:51:00 PM	R84405

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
- % Recovery outside of range due to dilution or matrix interference 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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Client:	ENSO	LUM									
Project:	6L 4 L	ateral									
Sample ID:	MB-64396	-64396 SampType: mblk TestCode: EPA Method 300.0: Anions									
Client ID:	PBS	Batch	Batch ID: 64396 RunNo: 84474								
Prep Date:	12/9/2021	Analysis D	ate: 12	2/10/2021	S	SeqNo: 29	68204	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-64396	SampT	ype: Ics	5	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	n ID: 64	396	F	RunNo: 8 4	474				
Prep Date:	12/9/2021	Analysis D	ate: 12	2/10/2021	5	SeqNo: 29	68205	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	96.8	90	110			

Qualifiers:

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

2112589

15-Dec-21

WO#:

Client: E	INSOLUM									
Project: 6	L 4 Lateral									
Sample ID: LCS-643	91 Samp	Type: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Bat	ch ID: 64	391	F	RunNo: 8	4388				
Prep Date: 12/9/202	Analysis	Date: 12	2/9/2021	S	SeqNo: 2	964799	Units: mg/H	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DF	.0) 44	10	50.00	0	88.1	68.9	135			
Surr: DNOP	3.8		5.000		76.5	70	130			
Sample ID: MB-6439	1 Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Bat	ch ID: 64	391	F	RunNo: 8	4388				
Prep Date: 12/9/202	21 Analysis	Date: 12	2/9/2021	5	SeqNo: 2	964801	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DF	(0) ND	10								
Motor Oil Range Organics	MRO) ND	50								
Surr: DNOP	8.2		10.00		82.0	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- 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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WO#: 2112589 15-Dec-21

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2112589
	15-Dec-21

Client: ENSOLU	JM								
Project: 6L 4 Late	eral								
Sample ID: 2.5ug gro Ics	SampType: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID: R8	4405	F	anNo: 84	4405				
Prep Date:	Analysis Date: 12	2/9/2021	S	SeqNo: 29	965226	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	26 5.0 1300	25.00 1000	0	103 129	78.6 70	131 130			
Sample ID: mb	SampType: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID: R8	4405	F	RunNo: 84	4405				
Prep Date:	Analysis Date: 12	/9/2021	S	SeqNo: 29	965227	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 860	1000		86.4	70	130			
Sample ID: mb	SampType: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID: G8	4409	F	RunNo: 8 4	4409				
Prep Date:	Analysis Date: 12	2/9/2021	S	SeqNo: 29	965633	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0	4000		400	70	100			
Surr: BFB	1000	1000		103	70	130			
Sample ID: 2.5ug gro Ics	SampType: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID: G8	4409	F	RunNo: 84	4409				
Prep Date:	Analysis Date: 12	/9/2021	S	SeqNo: 29	965634	Units: mg/K	g		
Analyte			SPK Ref Val			HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	25 5.0 1200	25.00 1000	0	99.1 116	78.6 70	131 130			
	1200	1000		110	70	150			1
Sample ID: 2112589-011a ms	1 21					8015D: Gaso	line Rang	e	
Client ID: S-11	Batch ID: R8			RunNo: 84					
Prep Date:	Analysis Date: 12	2/9/2021	5	SeqNo: 29	965842	Units: mg/K	g		
Analyte	Result PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	19 3.7 740	18.74 749.6	0	103 99.1	61.3 70	114 130			
Sample ID: 2112589-011A MS	D SampType: MS	D	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: S-11	Batch ID: R8	4405	F	RunNo: 84	4405				
Prep Date:	Analysis Date: 12	/9/2021	S	SeqNo: 29	965843	Units: mg/K	g		
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 interference
- 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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	WO#:	2112589
Hall Environmental Analysis Laboratory, Inc.		15-Dec-21

Client:	ENSOLUM	1									
Project:	6L 4 Later	al									
Sample ID: 2112	2589-011A MSD	SampT	ype: MS	SD.	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: S-11		Batch	n ID: R8	4405	F	RunNo: 8 4	4405				
Prep Date:		Analysis D	ate: 12	2/9/2021	5	SeqNo: 2	965843	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Orga	anics (GRO)	19	3.7	18.74	0	102	61.3	114	0.390	20	
Surr: BFB		760		749.6		102	70	130	0	0	

Qualifiers:

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

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ENSOLUM

6L 4 Lateral

Client:

Project:

Sample ID: 100ng btex Ics

Client ID: LCSS

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

Batch ID: R84405

Prep Date:	Analysis E	Date: 12	2/9/2021	S	SeqNo: 2	965236	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.7	80	120			
Toluene	0.93	0.050	1.000	0	93.4	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.5	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.4	70	130			
Sample ID: mb	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batcl	h ID: R8	4405	F	RunNo: 84	4405				
Prep Date:	Analysis E	Date: 12	2/9/2021	5	SeqNo: 2	965237	Units: mg/k	٢g		
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	0.80		1.000		79.6	70	130			
Sample ID: mb	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
	eamp.	71								
Client ID: PBS	•	h ID: B8			RunNo: 84					
	•	h ID: B8	4409	F	RunNo: 8 GeqNo: 2	4409	Units: mg/k			
Client ID: PBS	Batcl	h ID: B8	4409 2/9/2021	F		4409			RPDLimit	Qual
Client ID: PBS Prep Date:	Batcl Analysis [h ID: B8 Date: 12	4409 2/9/2021	F	SeqNo: 2	4409 965662	Units: mg/k	(g	RPDLimit	Qual
Client ID: PBS Prep Date: Analyte	Batcl Analysis I Result	h ID: B8 Date: 12 PQL	4409 2/9/2021	F	SeqNo: 2	4409 965662	Units: mg/k	(g	RPDLimit	Qual
Client ID: PBS Prep Date: Analyte Benzene	Batcl Analysis E Result ND	h ID: B8 Date: 12 PQL 0.025	4409 2/9/2021	F	SeqNo: 2	4409 965662	Units: mg/k	(g	RPDLimit	Qual
Client ID: PBS Prep Date: Analyte Benzene Toluene	Batcl Analysis E Result ND ND	h ID: B8 Date: 12 PQL 0.025 0.050	4409 2/9/2021	F	SeqNo: 2	4409 965662	Units: mg/k	(g	RPDLimit	Qual
Client ID: PBS Prep Date: Analyte Benzene Toluene Ethylbenzene	Batcl Analysis E Result ND ND ND	h ID: B8 Date: 12 <u>PQL</u> 0.025 0.050 0.050	4409 2/9/2021	F	SeqNo: 2	4409 965662	Units: mg/k	(g	RPDLimit	Qual
Client ID: PBS Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Batcl Analysis E Result ND ND ND ND 1.0	h ID: B8 Date: 12 <u>PQL</u> 0.025 0.050 0.050	4409 2/9/2021 SPK value 1.000	F SPK Ref Val	SeqNo: 29 %REC 104	4409 965662 LowLimit 70	Units: mg/k HighLimit	(g %RPD	RPDLimit	Qual
Client ID: PBS Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene	Batch Analysis E Result ND ND ND 1.0 SampT	h ID: B8 Date: 12 PQL 0.025 0.050 0.050 0.10	4409 2/9/2021 SPK value 1.000	F SPK Ref Val	SeqNo: 29 %REC 104	4409 965662 LowLimit 70 PA Method	Units: mg/k HighLimit 130	(g %RPD	RPDLimit	Qual
Client ID: PBS Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 100ng btex Ics	Batch Analysis E Result ND ND ND 1.0 SampT	h ID: B8 Date: 12 PQL 0.025 0.050 0.050 0.10	4409 2/9/2021 SPK value 1.000 S 4409	F SPK Ref Val Tes F	SeqNo: 29 %REC 104 tCode: EI	4409 965662 LowLimit 70 PA Method 4409	Units: mg/k HighLimit 130	Kg %RPD	RPDLimit	Qual
Client ID: PBS Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 100ng btex lcs Client ID: LCSS	Batcl Analysis E Result ND ND ND ND 1.0 Samp ¹ Batcl	h ID: B8 Date: 12 PQL 0.025 0.050 0.050 0.10	4409 2/9/2021 SPK value 1.000 S 4409	F SPK Ref Val Tes F	SeqNo: 29 %REC 104 tCode: El RunNo: 84	4409 965662 LowLimit 70 PA Method 4409	Units: mg/k HighLimit 130 8021B: Volat	Kg %RPD	RPDLimit	Qual
Client ID: PBS Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 100ng btex lcs Client ID: LCSS Prep Date:	Batcl Analysis E Result ND ND ND 1.0 Samp ¹ Batcl Analysis E	h ID: B8 Date: 12 PQL 0.025 0.050 0.050 0.10 Type: LC h ID: B8 Date: 12	4409 2/9/2021 SPK value 1.000 S 4409 2/9/2021	F SPK Ref Val Tes F	SeqNo: 2 %REC 104 tCode: El RunNo: 8 SeqNo: 2	4409 965662 LowLimit 70 PA Method 4409 965663	Units: mg/k HighLimit 130 8021B: Volat Units: mg/k	Kg %RPD tiles		
Client ID: PBS Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 100ng btex Ics Client ID: LCSS Prep Date: Analyte	Batcl Analysis I Result ND ND ND 1.0 Samp Batcl Analysis I Result	h ID: B8 Date: 12 PQL 0.025 0.050 0.050 0.10 Fype: LC h ID: B8 Date: 12 PQL	4409 2/9/2021 SPK value 1.000 S 4409 2/9/2021 SPK value	F SPK Ref Val Tes F SPK Ref Val	SeqNo: 29 %REC 104 tCode: El RunNo: 84 SeqNo: 29 %REC	4409 965662 LowLimit 70 PA Method 4409 965663 LowLimit	Units: mg/k HighLimit 130 8021B: Vola t Units: mg/k HighLimit	Kg %RPD tiles		
Client ID: PBS Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 100ng btex Ics Client ID: LCSS Prep Date: Analyte Benzene	Batcl Analysis I Result ND ND ND 1.0 Samp Batcl Analysis I Result 0.94	h ID: B8 Date: 12 PQL 0.025 0.050 0.050 0.10 Type: LC h ID: B8 Date: 12 PQL 0.025	4409 2/9/2021 SPK value 1.000 S 4409 2/9/2021 SPK value 1.000	F SPK Ref Val Tes F SPK Ref Val 0	SeqNo: 2 %REC 104 tCode: El RunNo: 8 SeqNo: 2 %REC 93.8	4409 965662 LowLimit 70 PA Method 4409 965663 LowLimit 80	Units: mg/k HighLimit 130 8021B: Volar Units: mg/k HighLimit 120	Kg %RPD tiles		
Client ID: PBS Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID: 100ng btex Ics Client ID: LCSS Prep Date: Analyte Benzene Toluene	Batcl Analysis I Result ND ND ND 1.0 SampT Batcl Analysis I Result 0.94 0.94	h ID: B8 Date: 12 PQL 0.025 0.050 0.050 0.10 Type: LC h ID: B8 Date: 12 PQL 0.025 0.050	4409 2/9/2021 SPK value 1.000 S 4409 2/9/2021 SPK value 1.000 1.000	F SPK Ref Val Tes SPK Ref Val 0 0	SeqNo: 29 %REC 104 tCode: El &unNo: 84 SeqNo: 29 %REC 93.8 94.5	4409 965662 LowLimit 70 PA Method 4409 965663 LowLimit 80 80	Units: mg/k HighLimit 130 8021B: Volat Units: mg/k HighLimit 120 120	Kg %RPD tiles		

TestCode: EPA Method 8021B: Volatiles

RunNo: 84405

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to MatrixH 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 interference
- 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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WO#: **2112589**

15-Dec-21

WO#:	2112589
	15-Dec-21

Client:ENSOLUMProject:6L 4 Lateral

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		_		_						
Sample ID: 2112589-012ams	Samp	Гуре: МS	6	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: S-12	Batc	h ID: R8	4405	F	RunNo: 84	4463				
Prep Date:	Analysis [Date: 12	2/10/2021	S	SeqNo: 29	969441	Units: mg/K	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.58	0.016	0.6527	0	88.6	80	120			
Toluene	0.58	0.033	0.6527	0	89.3	80	120			
Ethylbenzene	0.59	0.033	0.6527	0	90.2	80	120			
Xylenes, Total	1.7	0.065	1.958	0	88.2	80	120			
Surr: 4-Bromofluorobenzene	0.55		0.6527		84.1	70	130			
Sample ID: 2112589-012amsd	I Samp	Гуре: МS	SD	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Sample ID: 2112589-012amsd Client ID: S-12		Гуре: МS h ID: R8			tCode: Ef		8021B: Volat	tiles		
		h ID: R8	4405	F		4463	8021B: Volat Units: mg/K			
Client ID: S-12	Batc	h ID: R8	4405 2/10/2021	F	8unNo: 8 4	4463			RPDLimit	Qual
Client ID: S-12 Prep Date:	Batc Analysis [h ID: R8 Date: 12	4405 2/10/2021	ਜ S	8unNo: 84 SeqNo: 29	4463 969442	Units: mg/K	(g	RPDLimit 20	Qual
Client ID: S-12 Prep Date: Analyte	Batc Analysis I Result	h ID: R8 Date: 12 PQL	4405 2/10/2021 SPK value	R S SPK Ref Val	2unNo: 84 SeqNo: 29 %REC	4463 969442 LowLimit	Units: mg/K HighLimit	(g %RPD		Qual
Client ID: S-12 Prep Date: Analyte Benzene Toluene	Batc Analysis I Result 0.55	h ID: R8 Date: 12 PQL 0.016	4405 2/10/2021 SPK value 0.6527	F S SPK Ref Val 0	RunNo: 8 4 SeqNo: 2 9 <u>%REC</u> 84.9	4463 969442 LowLimit 80	Units: mg/K HighLimit 120	(g <u>%RPD</u> 4.32	20	Qual
Client ID: S-12 Prep Date: Analyte Benzene	Batc Analysis I Result 0.55 0.56	h ID: R8 Date: 12 <u>PQL</u> 0.016 0.033	4405 2/10/2021 SPK value 0.6527 0.6527	R S SPK Ref Val 0 0	RunNo: 84 SeqNo: 29 <u>%REC</u> 84.9 85.7	4463 969442 LowLimit 80 80	Units: mg/K HighLimit 120 120	% RPD 4.32 4.16	20 20	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 interference
- 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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Received by OCD: 2/15/2022 8:03:54 AM HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3	ntal Analysis Labor 4901 Hawkin Albuquerque, NM 8 975 FAX: 505-345- s.hallenvironmenta	ns NE 87109 Sar 4107	nple Log-In Ch	eck List
Client Name: ENSOLUM	Work Order Numl	ber: 2112589		RcptNo: 1	
Received By: Desiree Dominguez	12/9/2021 7:25:00 /	AM	TA3		
	12/9/2021 7:33:07 /	M	TPZ		
Reviewed By: JA 12 9 21					
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🖌	No 🗌	Not Present	
2. How was the sample delivered?		<u>Courier</u>			
<u>Log In</u>					
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_{\cdot} Are samples (except VOA and ONG) properly p	preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4" f	or AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sample containers received broken?		Yes	No 🔽		
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🔽	No 🗌	# of preserved bottles checked for pH:	
12. Are matrices correctly identified on Chain of Cu	istody?	Yes 🗹	No 🗌	Adjusted?	2 unless noted)
13. Is it clear what analyses were requested?		Yes 🗹			
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by: TM	c 12/9/21
<u>Special Handling (if applicable)</u>					
15. Was client notified of all discrepancies with this	s order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date:		and the second second		
By Whom:	Via:	eMail 🗌 P	hone 🗌 Fax	In Person	
Regarding:					
Client Instructions:			And an address of the second		
16. Additional remarks:					
17. <u>Cooler Information</u>					

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Yes			

	hain	-of-Cu	ustody Record	Turn-Around	Time: SP	MEDAY] p						_		<i></i>						Receivea
	Fns	slum,	1.60	□ Standard	Rust	10070															-
Mailing		21-2114		Project Nam			1 6											RA)R.	¥ OCI
Mailing	Address	:/.A/.	Rio Grando SuiteA	62-1	1 Late	ral	www.hallenvironmental.com										0:2/				
S An	for n		WO GRANG SUIRA	Project #: S	2		4901 Hawkins NE - Albuquerque, NM 87109										15/2				
Phone #		M 87	-410	- ' >	eenorg			Te	el. 50	05-34	45-3	-					-4107	7			022
N		Summ	ers censolum com	Project Man	gor: Ma							4	A CONTRACTOR OF	sis	Req	ues					8:03
<pre>email or 08:02 08:12 02 02 02 02 02 02 02 02 02 02 02 02 02</pre>			ereensatumiam	Project Mana	iger. Ksur	nnes	(8021)	MRO)	_v		S		SO4			sent					:54
Stan			□ Level 4 (Full Validation)				s (8(-	PCB's		SIM		PO4,			/Abs					AM
Accredit	tation:	□ Az Co	mpliance	Sampler: P	Deechil	le .	MB	DRO		,	8270SIMS		NO ₂ , I			sent					
		Other		On Ice:	□ Yes	-E No	17	20/	Pesticides/8082	504.	or	Ś			(Y	(Pre	0				
	(Type)	1		# of Coolers:		1] 凿	O(GF	cide	; poi	310	Metals	NO ₃ ,	()	i-V0	E	ide				
				Cooler Temp	(including CF):	0 +0,1= 1,7 (°C)		015L	esti	Meth	oy 8	8	Br,	VOA	Sem	olifo	lor				
Date	Time	Matrix	Sample Name		Preservative Type	HEAL NO. 2112589	BTEX	TPH:8015D(GRO	8081 F	EDB (Method 504.1)	PAHs by 8310	RCRA	CI, F,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride				
12/8/21	1310	S	5-1	1×402 Jar	C001	-001	X	X									X			+	+
12/8/21	1315	S	5-2	1×402Jcr		-002	X	X				d.					X			+	
12/8/21	1320	5	S-3	1×402 Jar		- 003	X	X			_						X		+	+	
12/8/21		S	5-4	1×402Jar		-004	X	X									X			+	
12/8/21	1330	S	5-5	1×402500		-005	X	X									X			+	
12/8/21		S	S-6	1×402Jar	1	-006	X	X									X			+-	+ -
12/8/21	1340	S	S-7	1×402Jar	C001	-007	X	X									X			+	+-
12/8/21	1345	S	S-8	1×402Jar	COUL	-008	\times	X									X				
12/8/21			S-9	1×402Jo	(00)	- 009	Х	X									X			+	+
12/8/21		S	5-10	1×462 Jor	COUL	-010	Х	X									X			+	\top
12/8/21	1400	5	S-11	1×402Jer	cool	-011	X	X									X			+	+ +
12/8/21	1405	5	S-12	1×402Jor	CODI	-012	X	X									X			+	
Date:] √2 Time:	Relinquishe	ad by:	Received by: Received by:	Via: Via:	Date Time 12/s/2, 1742 Date Time	Ren S∮	narks ME	5: 5: Df	×Υ		PP	M -	- Ti Ley	om -F	r La RB	ong	2 E 200	PR6	(a	Page 67 of
12/8/21	1847	14	v Da	123	Courier	12/9/21 7:25															7 of

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

Client: Ensolum, LLC Mailing Address: 6010 S. Bro Grande Suite A, Aztec, NM 87410 Phone #:	Turn-Around Time: SAME DAY □ Standard \@ (Rush_100 \0) Project Name: GL-4 Lateral Project #: See nots	HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request
email or Fax#: KSummers & ensolum/(d) QA/QC Package: Standard Level 4 (Full Validation) Accreditation: Az Compliance NELAC Other EDD (Type)	Project Manager: <u>KSUMMUS</u> Sampler: <u>Deechilly</u> On Ice: <u>Ves</u> <u>No</u> # of Coolers: <u>No</u> Cooler Temp(including CF): <u>N.6+0.1 = 1.7</u> (°C) Container Preservative HEAL No.	 MIBE / TMB's (8021) 115D(GRO / DRO / MRO) esticides/8082 PCB's fethod 504.1) by 8310 or 8270SIMS by 8310 or 8270SIMS B Metals by 8310 or 8270SIMS Semi-VOA) NO₂, PO₄, SO₄ YOA) Semi-VOA) lofnde lofnde MV 95.80
Date Time Matrix Sample Name 12/8/21 1410 S S-13 12/8/21 1415 S S-14 12/8/21 1415 S S-14 12/8/21 1420 S S-15 12/8/21 1425 S S-16	Type and # Type 2112589 $1 \times 402 Jur (001 -013)$ $1 \times 402 Jur (001 -013)$ $1 \times 402 Jur (001 -014)$ $1 \times 402 Jur (001 -015)$ $1 \times 402 Jur (001 -015)$ $1 \times 402 Jur (001 -015)$	× ×
Date: Time: Relinquished by: Date: Time: Relinquished by: Date: Time: Relinquished by: 12/3/21 R47 AMA AMA	Received by: Via: Date Time Multiplication Date Time Multiplication Date Time Received by: Via: Date Time Courrier 12/9/21 7:25	Remarks: SAME DAY POY Key - RB21200

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



December 20, 2021

Kyle Summers ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

RE: 6L 4 Lateral

OrderNo.: 2112830

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 12/14/2021 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 2112830

Date Reported: 12/20/2021

CLIENT	ENSOLUM	Client Sample ID: S-17
Project:	6L 4 Lateral	Collection Date: 12/13/2021 1:00:00 PM
Lab ID:	2112830-001	Matrix: MEOH (SOIL) Received Date: 12/14/2021 8:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	12/14/2021 2:07:53 PM	64488
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	12/14/2021 10:48:27 Al	M 64478
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/14/2021 10:48:27 Al	M 64478
Surr: DNOP	81.1	70-130	%Rec	1	12/14/2021 10:48:27 Al	M 64478
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: mb
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	12/14/2021 9:11:00 AM	R84502
Surr: BFB	104	70-130	%Rec	1	12/14/2021 9:11:00 AM	R84502
EPA METHOD 8021B: VOLATILES					Analyst	: mb
Benzene	ND	0.019	mg/Kg	1	12/14/2021 9:11:00 AM	BS84502
Toluene	ND	0.038	mg/Kg	1	12/14/2021 9:11:00 AM	BS84502
Ethylbenzene	ND	0.038	mg/Kg	1	12/14/2021 9:11:00 AM	BS84502
Xylenes, Total	ND	0.077	mg/Kg	1	12/14/2021 9:11:00 AM	BS84502
Surr: 4-Bromofluorobenzene	86.3	70-130	%Rec	1	12/14/2021 9:11:00 AM	BS84502

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 interference
- 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 7

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112830

Date Reported: 12/20/2021

CLIENT	ENSOLUM	Client Sample ID: S-18
Project:	6L 4 Lateral	Collection Date: 12/13/2021 1:05:00 PM
Lab ID:	2112830-002	Matrix: MEOH (SOIL) Received Date: 12/14/2021 8:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	61	mg/Kg	20	12/14/2021 2:20:17 PM	64488
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/14/2021 11:12:39 AI	M 64478
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/14/2021 11:12:39 AI	M 64478
Surr: DNOP	77.1	70-130	%Rec	1	12/14/2021 11:12:39 AI	M 64478
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: mb
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	12/14/2021 9:30:00 AM	R84502
Surr: BFB	92.9	70-130	%Rec	1	12/14/2021 9:30:00 AM	R84502
EPA METHOD 8021B: VOLATILES					Analyst	: mb
Benzene	ND	0.017	mg/Kg	1	12/14/2021 9:30:00 AM	BS84502
Toluene	ND	0.035	mg/Kg	1	12/14/2021 9:30:00 AM	BS84502
Ethylbenzene	ND	0.035	mg/Kg	1	12/14/2021 9:30:00 AM	BS84502
Xylenes, Total	ND	0.070	mg/Kg	1	12/14/2021 9:30:00 AM	BS84502
Surr: 4-Bromofluorobenzene	84.1	70-130	%Rec	1	12/14/2021 9:30:00 AM	BS84502

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112830

Date Reported: 12/20/2021

CLIENT	ENSOLUM	Client Sample ID: S-19
Project:	6L 4 Lateral	Collection Date: 12/13/2021 1:10:00 PM
Lab ID:	2112830-003	Matrix: MEOH (SOIL) Received Date: 12/14/2021 8:10:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: JMT
Chloride	ND	60	mg/Kg	20	12/14/2021 2:32:42 PM	64488
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	: BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	12/14/2021 11:36:46 A	M 64478
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/14/2021 11:36:46 A	M 64478
Surr: DNOP	80.4	70-130	%Rec	1	12/14/2021 11:36:46 A	M 64478
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: mb
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/14/2021 9:50:00 AM	R84502
Surr: BFB	95.2	70-130	%Rec	1	12/14/2021 9:50:00 AN	R84502
EPA METHOD 8021B: VOLATILES					Analys	t: mb
Benzene	ND	0.023	mg/Kg	1	12/14/2021 9:50:00 AM	BS84502
Toluene	ND	0.047	mg/Kg	1	12/14/2021 9:50:00 AN	BS84502
Ethylbenzene	ND	0.047	mg/Kg	1	12/14/2021 9:50:00 AN	BS84502
Xylenes, Total	ND	0.094	mg/Kg	1	12/14/2021 9:50:00 AN	BS84502
Surr: 4-Bromofluorobenzene	84.8	70-130	%Rec	1	12/14/2021 9:50:00 AN	BS84502

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 interference 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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Client:	ENSO	LUM							
Project:	6L 4 L	ateral							
Sample ID:	MB-64488	SampType: mblk TestCode: EPA Method 300.0: Anions							
Client ID:	PBS	Batch ID:	64488	RunNo: 84525					
Prep Date:	12/14/2021	Analysis Date:	12/14/2021	S	SeqNo: 2971244	Units: mg/K	9		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5						
Sample ID:	LCS-64488	SampType:	lcs	Tes	tCode: EPA Method	300.0: Anions	;		
Client ID:	LCSS	Batch ID:	64488	F	RunNo: 84525				
Prep Date:	12/14/2021	Analysis Date:	12/14/2021	S	GeqNo: 2971245	Units: mg/K	9		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5 15.00	0	96.2 90	110			

Qualifiers:

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

2112830

20-Dec-21

WO#:

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	20-Dec-21

Client: E	NSOLUM									
Project: 6	L 4 Lateral									
Sample ID: LCS-6447	' 8 Samp ⁻	Type: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batc	h ID: 64	478	F	RunNo: 84	4516				
Prep Date: 12/14/20	21 Analysis I	Date: 12	2/14/2021	S	SeqNo: 2	970114	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DR	0) 43	10	50.00	0	85.6	68.9	135			
Surr: DNOP	4.3		5.000		86.3	70	130			
Sample ID: MB-64478	s Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: PBS	Batc	Batch ID: 64478 RunNo: 84516								
Prep Date: 12/14/20	21 Analysis I	Date: 12	2/14/2021	5	SeqNo: 2	970115	Units: mg/ #	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DR	0) ND	10								
Motor Oil Range Organics (I	MRO) ND	50								
Surr: DNOP	9.0		10.00		90.1	70	130			
Sample ID: 2112830-0	001AMS Samp	Туре: М	6	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: S-17	Batc	h ID: 64	478	F	RunNo: 8 4	4516				
Prep Date: 12/14/20	21 Analysis I	Date: 12	2/14/2021	S	SeqNo: 2	970823	Units: mg/k	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DR	0) 45	9.3	46.51	0	95.9	39.3	155			
Surr: DNOP	2.6		4.651		56.1	70	130			S
Sample ID: 2112830-0	001AMSD Samp	Туре: М	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: S-17	Batc	h ID: 64	478	F	RunNo: 8 4	4516				
Prep Date: 12/14/20	21 Analysis I	Date: 12	2/14/2021	S	SeqNo: 2	970824	Units: mg/k	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DR	0) 48	9.6	47.89	0	100	39.3	155	7.13	23.4	
Surr: DNOP	2.8		4.789		59.3	70	130	0	0	S

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 interference 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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WO#:	2112	2830

20-Dec-21

Client: Project:	ENSOLUM 6L 4 Lateral													
Sample ID: MB	Samp	Type: MBL	.к	Test	Code: EF	PA Method	8015D: Gaso	line Rang	e					
Client ID: PBS	Batc	Batch ID: R84502 RunNo: 84502												
Prep Date:	Analysis [Date: 12/1	4/2021	S	eqNo: 2	969459	Units: mg/K	g						
Analyte	Result	PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range Organ Surr: BFB	nics (GRO) ND 1100	5.0	1000		105	70	130							
Sample ID: 2.5ug	D: 2.5ug gro lcs SampType: LCS TestCode: EPA Method 8015D: Gasoline Range													
Client ID: LCSS	Batc	h ID: R845	502	R	unNo: 84	4502								
Prep Date:	Analysis I	Date: 12/1	4/2021	S	eqNo: 2	969460	Units: mg/K	g/Kg						
Analyte	Result	PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range Organ	, ,	5.0	25.00	0	110	78.6	131							
Surr: BFB	1200		1000		118	70	130							
Sample ID: 2112	330-001ams Samp	Туре: МЅ		Test	Code: EF	PA Method	8015D: Gaso	line Rang	e					
Client ID: S-17	Batc	h ID: R845	502	R	unNo: 84	4502								
Prep Date:	Analysis I	Date: 12/1	4/2021	S	eqNo: 2	970569	Units: mg/K	g						
Analyte	Result	PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range Organ	nics (GRO) 20	3.8	19.22	0	103	61.3	114							
Surr: BFB	860		768.6		112	70	130							
Sample ID: 2112	330-001amsd Samp	Type: MSD)	Test	Code: EF	PA Method	8015D: Gaso	line Rang	e					
Client ID: S-17	Batc	h ID: R845	502	R	unNo: 84	4502								
Prep Date:	Analysis [Date: 12/1	4/2021	S	eqNo: 2	970571	Units: mg/Kg							
Analyte	Result	PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range Organ	nics (GRO) 20	3.8	19.22	0	106	61.3	114	2.18	20					
Surr: BFB	830		768.6		108	70	130	0	0					

Qualifiers:

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- 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 interference
- 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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20-Dec-21

Client: Project:	ENSOLUM 6L 4 Lateral										
Sample ID: MB		SampType	e: Me	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: PBS		Batch ID	BS	84502	F	RunNo: 8	4502				
Prep Date:	An	alysis Date	: 12	2/14/2021	S	SeqNo: 2	969467	Units: mg/K	g		
Analyte	R	esult F	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-Bromofluorobe	enzene	0.96		1.000		95.5	70	130			
Sample ID: 100ng	btex lcs	SampType	e: LC	s	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: LCSS		Batch ID	BS	84502	F	RunNo: 8	4502				
Prep Date:	An	alysis Date	: 12	2/14/2021	S	SeqNo: 2	969468	Units: mg/K	g		
Analyte	R	esult F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.87 0	.025	1.000	0	87.4	80	120			
Toluene		0.90 0	.050	1.000	0	90.0	80	120			
Ethylbenzene		0.93 0	.050	1.000	0	92.6	80	120			
Xylenes, Total		2.7	0.10	3.000	0	91.1	80	120			

Qualifiers:

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
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- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-39	al Analysis Labor 4901 Hawkin Ibuquerque, NM 8 75 FAX: 505-345- hallenvironmental	s NE 7109 Sar 4107	Sample Log-In Check L				
Client Name: ENSOLUM	Work Order Numbe	er: 2112830		RcptNo: 1				
Received By: Desiree Dominguez	12/14/2021 8:10:00 /	AM	DP2					
Completed By: Sean Livingston	12/14/2021 8:15:46	۹M	Sal	n -				
Reviewed By: CMC	12/14/4			'Joint				
Chain of Custody								
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present				
2. How was the sample delivered?		Courier						
Log In								
3. Was an attempt made to cool the samples?		Yes 🗹	No 🗌	NA 🗌				
4. Were all samples received at a temperature c	f >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)?	2	Yes 🔽	No 🗌					
7. Are samples (except VOA and ONG) properly	preserved?	Yes 🔽	No 🗌					
8. Was preservative added to bottles?		Yes	No 🔽	NA 🗌				
9. Received at least 1 vial with headspace <1/4"	for AQ VOA?	Yes	No 🗌	NA 🔽				
10. Were any sample containers received broken		Yes	No 🔽	# of preserved				
11. Does paperwork match bottle labels?		Yes 🔽	No 🗌	bottles checked for pH:				
(Note discrepancies on chain of custody)		ies 💌			unless noted)			
2. Are matrices correctly identified on Chain of C	ustody?	Yes 🖌	No 🗌	Adjusted?				
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌		1 1			
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by: Jr	12/14/2			
Special Handling (if applicable)			/					
15. Was client notified of all discrepancies with th	is order?	Yes	No 🗌	NA 🗹				
Person Notified:	Date:							
By Whom:	Via:	🗌 eMail 🔲 P	hone 🗌 Fax	In Person				
Regarding:								
Client Instructions:								
16. Additional remarks:								
17. <u>Cooler Information</u>								
The second s	I Intact Seal No	Seal Date	Signed By	1				

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Page 1 of 1

Client: Mailing	hain Foco	-of-Cu	ustody Record	Turn-Around	Time:	ANE DAY												NT/	
Ima	1100	Iding		Project Name			ANALYSIS LABORATORY							RY					
Mailing	Address	s:/_N/~C	S. R'io Grande Suite A	61-	4 Later	a/		40			www.								
6		M 87		Project #: S	ee anteo		1							1353		M 87			
Phone	1	101 57	410		ec inty			1.6	a. 50	15-34	5-397	Contraction of the	lysis	Design and the second	Contract of the local	-4107 t			
		Ksumn	ners@ensolum.com	Project Mana	ger: /د_ي	nmrs	\square	Ô				0.0	Station of the Real of Street, or other	1000					
	Package						(8021)	/ MRO)	PCB's		AS				bser				
	ndard		Level 4 (Full Validation)				S	20/			8270SIMS	Öd	2		nt/A				
			ompliance		Deechille		THE F	/ DRO	8082	4.1)		ŐN			rese				
	AC (Type)	□ Othe	ſ <u></u>	On Ice: # of Coolers:		台 No		GRC	des/	d 50	10 or	ND	5	VOA	L (P	0			
						1-0.0=1.9° (°C)	MTB	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310	o Metals	(A)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride			
				Container	Preservative	HEAL No.	X	1:801	1 Pe	W W	ls b)	с Ч Ц		0 (Se	CO	110			
Date	Time	Matrix	Sample Name	Type and #	Type	2112830	BTEX	ТРЬ	808	Ë	PA		826	827	Tota	\circ			
12/13/21	1300	S	S-17	1×402Jar	C001	201	X	X								Х			
12/13/21	1305	S	S-18	1×402 Jar	C001	500	Х	Х								X			
12/13/21	1310	S	S-19	1×402501	COUL	207	\times	*			e V - etc					X			
		2																	
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Date: 12 13 2	Time:	Relinquish	Ang	Received by:	Via:	12/13/21 1628	Ren SA	narks	DA	4	P	M-	ton ley-	- R	ng Ba	(E 212	PROS OU	2)	
Date:	Time:	Relinquish	bt Watt	Received by:	Via: Courier	Date Time							·						

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

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

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

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

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

CONDITIONS

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	81535
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	6/23/2022

CONDITIONS

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Action 81535