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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Enterprise Field Services, LLC	OGRID: 151618
Contact Name: Thomas Long	Contact Telephone: 505-599-2286
Contact email:tjlong@eprod.com	Incident # (assigned by OCD): NRM2020633456
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

Location of Release Source

Latitude 36.218566	Longitude -107.299636	(NAD 83 in decimal degrees to 5 decimal places)
Site Name Lateral 2C-120	Site Type Natura	Gas Gathering Pipeline
Date Release Discovered: 07/10/2020	Serial Number (if a	nnlicable): N/A

Unit Letter	Section	Township	Range	County
Ν	18	23N	4W	Rio Arriba

Surface Owner: 🗌 State 🔲 Federal 🖾 Tribal 🗌 Private (Name: Jicarilla Apache Tribe

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): 10-15 Barrels	Volume Recovered (bbls): None	
Natural Gas	Volume Released (Mcf): Unknown	Volume Recovered (Mcf): None	
Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)	

Cause of Release On July 10, 2020, Enterprise had a release of natural gas and condensate on the Lateral 2C-120 pipeline. An area of approximately 30 feet long by 16 feet wide was misted by the released fluids. No washes were affected. The pipeline was isolated, depressurized, locked out and tagged out. Enterprise initiated remediation and determined the release reportable per New Mexico Oil Conservation Division regulation on July 15, 2020, due to the volume of impacted subsurface soil. The final excavation dimensions measured approximately 29 feet long by 26 feet wide by 18 feet deep. Approximately 221 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 Attachment Checklist: Each of the following items must be included in the closure report,

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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

rinted Name: Jon E. Fields Title: Director, Environmental gnature:	
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible par remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws an	rty of liability should their operations have failed to adequately investigate and ce water, human health, or the environment nor does not relieve the responsible ad/or regulations.
Closure Approved by: Nelson Velez	Date: 04/26/2022
Closure Approved by: <u>Nelson Velez</u> Printed Name: <u>Nelson Velez</u>	Title: Environmental Specialist – Adv



CLOSURE REPORT

Property:

Lateral 2C-120 SW ¼, S18 T23N R4W Rio Arriba County, New Mexico

December 14, 2020 Ensolum Project No. 05A1226113

Prepared for:

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

Prepared by:

et rechu

Ranee Deechilly Environmental Scientist

Umm

Kyle Summers, CPG Sr. Project Manager

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

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CLOSURE REPORT

Lateral 2C-120 SW ¼, S18 T23N R4W Rio Arriba County, New Mexico

Ensolum Project No. 05A1226113

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Lateral 2C-120 (Site)
Incident ID	NRM2020633456
Location:	36.218566° North, 107.299636° West Southwest (SW) ¼ of Section 18, Township 23 North, Range 4 West Rio Arriba County, New Mexico
Property:	Jicarilla Apache Nation
Regulatory:	Jicarilla Apache Nation Environmental Protection Office (JAN-EPO) and New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On July 10, 2020, Enterprise personnel discovered a release of condensate coming from a one-inch valve on the Lateral 2C-120 pipeline drip riser. Enterprise subsequently isolated, locked the pipeline out of service, and replaced the valve on the drip riser. On July 16, 2020, Enterprise initiated activities to remediate 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 New Mexico EMNRD OCD closure criteria.

2.0 CLOSURE CRITERIA

The Site is under the jurisdiction of the Jicarilla Apache Nation and is subject to regulatory oversight by the JAN-EPO. Ensolum, LLC (Ensolum) deferred to the New Mexico Administrative Code (NMAC) 19.15.29 *Releases,* as guidance, which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action. Ensolum utilized information provided by Enterprise, the general site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD imaging database to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following bullets are provided in **Appendix B**.

• The OSE tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other

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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 a one mile radius of the Site in the OSE WRRS database. In addition, no PODs were identified in adjacent Public Land Survey System (PLSS) sections. The nearest POD (SJ-1189) is located approximately 4.4 miles west of the Site and located at a lower elevation (6,634 feet) than the Site (6,867 feet). The records for this POD indicate a total well depth of 675 feet below grade surface (bgs) but no water was identified. The records for a POD (SJ-00809), located approximately five (5) miles southeast of the Site and at lower elevation (6,848) than the Site indicate depth to water at 145 feet bgs (**Figure A**, **Appendix B**).

- No cathodic wells were identified within one mile of the Site in the New Mexico EMNRD imaging database. In addition, no cathodic wells were identified in adjacent PLSS sections.
- The Site is not located within 300 feet of a New Mexico EMNRD OCD-defined continuously flowing watercourse or significant watercourse. The excavation is located approximately 1,038 feet northeast of an unnamed ephemeral wash that may convey water during significant rain events (Figure B, 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 C, Appendix B).
- No springs, or private domestic fresh water wells used by less than five (5) households for domestic or stock watering purposes were identified within 500 feet of the Site (**Figure D**, **Appendix B**).
- No fresh water wells or springs were identified within 1,000 feet of the Site (Figure D, 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 E**, **Appendix B**).
- Based on information identified in the New Mexico Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine (Figure F, 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 unlikely to be located within a 100-year floodplain (**Figure G**, **Appendix B**).
- No vegetation species associated with an "active floodplain" were identified in the area of the unnamed ephemeral wash. Vegetation identified in the area of the ephemeral wash is predominately shrub (large sage brush) with less than 40 percent grass (see photo images provided in **Appendix B**).

On July 20, 2020, following the first sampling event, Enterprise requested the application of Tier II standards for closure consideration at the Site due to the apparent depth to groundwater. Based on available

Enterprise Field Services, LLC Closure Report Lateral 2C-120 December 14, 2020



information, Enterprise estimates the depth to water at the Site to be greater than 50 feet bgs. Regulatory correspondence is provided in **Appendix C**.

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

Applicable closure criteria for soils remaining in place at the Site include:

3.0 SOIL REMEDIATION ACTIVITIES

On July 16, 2020, 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 29 feet long and 26 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 18 feet bgs.

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

Approximately 221 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix D**. The excavation was backfilled with a combination of JAN-EPO approved native fill and segregated, laboratory-confirmed, stockpiled soil and then contoured to 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 drip riser (**Appendix A**). Photographic documentation of the field activities is included in **Appendix E**.

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 20 composite soil samples (S-1 through S-20) from the excavation for laboratory analysis. In addition, one (1) composite soil sample (SP-1) was collected from the stockpiled soil that was segregated for potential reuse, to confirm the material was suitable to remain on Site. The composite samples were comprised of five (5) aliquots each, and each sample represents an estimated 200 square foot (ft²) sample area per guidelines outlined in 19.15.29.12 Section D NMAC. A clean shovel was utilized to obtain fresh aliquots from each accessible area of the excavation.



An excavator, operated by OFT, was utilized to obtain fresh aliquots from areas of the excavation that exceeded 10 feet bgs. Regulatory correspondence is provided in **Appendix C**.

First Sampling Event

On July 16, 2020, the first sampling event was performed at the Site. The New Mexico EMNRD OCD and JAN-EPO were notified of the sampling event although no representatives were present during sampling activities.

Composite soil sample S-1 (10') was collected from the floor of excavation near the release point. Composite soil samples S-2 (0'-10'), S-3 (0'-10'), S-4 (0'-10'), and S-5 (0'-15') were collected from sidewalls of the excavation near the release point. Composite soil samples S-6 (0'-15.5'), S-7 (0'-15.5'), S-8 (0'-15.5'), and S-10 (0'-15.5') were sidewall samples collected from the western portion of the excavation. Composite soil sample S-9 (15.5') was collected from the floor of the western portion of the excavation. In addition, composite soil samples S-11 (0.25') and S-12 (0.25') were collected from the scraped overspray area.

Subsequent analytical results for composite soil sample S-9 exhibited COC concentrations that exceeded the applicable New Mexico EMNRD OCD Tier II closure criteria. In response to the data exceedance, the excavation was deepened in the western portion of the excavation. The soil associated with composite sample S-9 was transported from the Site to the landfarm for disposal/remediation.

Second Sampling Event

On July 22, 2020, the second sampling event was performed at the site. The New Mexico EMNRD OCD and JAN-EPO were notified of the sampling event although no representatives were present during sampling activities.

Composite soil sample S-13 (17') was collected from the floor of the western portion of the excavation. Laboratory analytical results for this sample exhibited COC concentrations that exceeded the applicable New Mexico EMNRD OCD Tier II closure criteria. The excavation was deepened and extended to the southwest, and the soils associated with samples S-7 and S-13 were removed from the Site and transported to the landfarm for disposal/remediation.

Third Sampling Event

On July 24, 2020, the third sampling event was performed at the site. The New Mexico EMNRD OCD and JAN-EPO were notified of the sampling event although no representatives were present during sampling activities.

Composite soil sample S-14 (18') was collected from the floor of the western portion of the excavation. Composite soil samples S-15 (15.5'-18'), S-16 (15.5'-18'), S-17 (15.5'-18'), S-18 (0'-18'), S-19 (0'-18'), and S-20 (0'-18') were collected from the sidewalls of the western portion of the excavation.

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

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using Environmental Protection Agency (EPA) SW-846 Method #8021/8260; total petroleum hydrocarbon (TPH) gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube oil range organics (MRO) using EPA SW-846 Method #8015; and, chlorides using EPA Method #300.0.

Enterprise Field Services, LLC Closure Report Lateral 2C-120 December 14, 2020



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

6.0 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 through S-6, S-8, S-10, S-11, S-12, S-14 through S-20, and SP-1) to the applicable New Mexico EMNRD OCD Tier II closure criteria. The soils associated with composite samples S-7, S-9, and S-13 were transported to Envirotech landfarm for disposal/remediation and are not included in the following discussion.

- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 10 milligrams per kilogram (mg/kg).
- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate total BTEX ranging from below the PQLs/RLs to 0.97 mg/kg (S-6), which are less than the New Mexico EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate combined TPH GRO/DRO concentrations ranging from below the laboratory PQLs/RLs to 601 mg/kg (S-6), which are less than the New Mexico EMNRD OCD closure criteria (Tier II) of 1,000 mg/kg.
- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate combined TPH GRO/DRO/MRO concentrations ranging from below the laboratory PQLs/RLs to 831 mg/kg (S-6), which are less than the New Mexico EMNRD OCD closure criteria (Tier II) of 2,500 mg/kg.
- The laboratory analytical results for composite soil samples collected from soils remaining at the Site indicate chloride concentrations ranging from below the laboratory PQLs/RLs to 170 mg/kg (S-3), which are less than the New Mexico EMNRD OCD closure criteria (Tier II) of 10,000 mg/kg for chlorides.

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

7.0 RECLAMATION AND REVEGETATION

The excavation was backfilled with JAN-EPO approved native imported fill and the segregated, laboratoryconfirmed, stockpiled soil and was then contoured to surrounding grade. Enterprise will re-seed the Site with an approved seeding mixture.

8.0 FINDINGS AND RECOMMENDATION

• A total of 20 composite soil samples were collected from the excavation. Additionally, one (1) composite soil sample was collected from stockpiled soil. Based on laboratory analytical results, the soils remaining at the Site do not exhibit COC concentrations above the Tier II New Mexico EMNRD OCD closure criteria.

Enterprise Field Services, LLC Closure Report Lateral 2C-120 December 14, 2020



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• A total of approximately 221 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation. The excavation was backfilled and was then contoured to surrounding grade.

Based on field observations and laboratory analytical results and the approval by JAN-EPO, 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

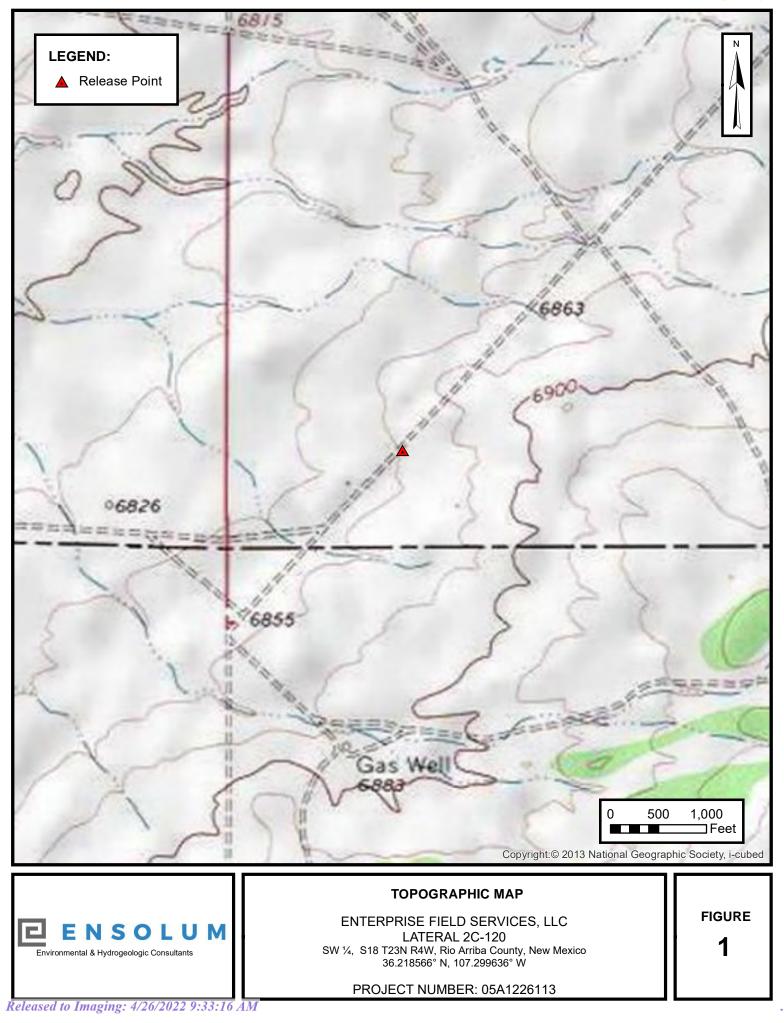
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution 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.

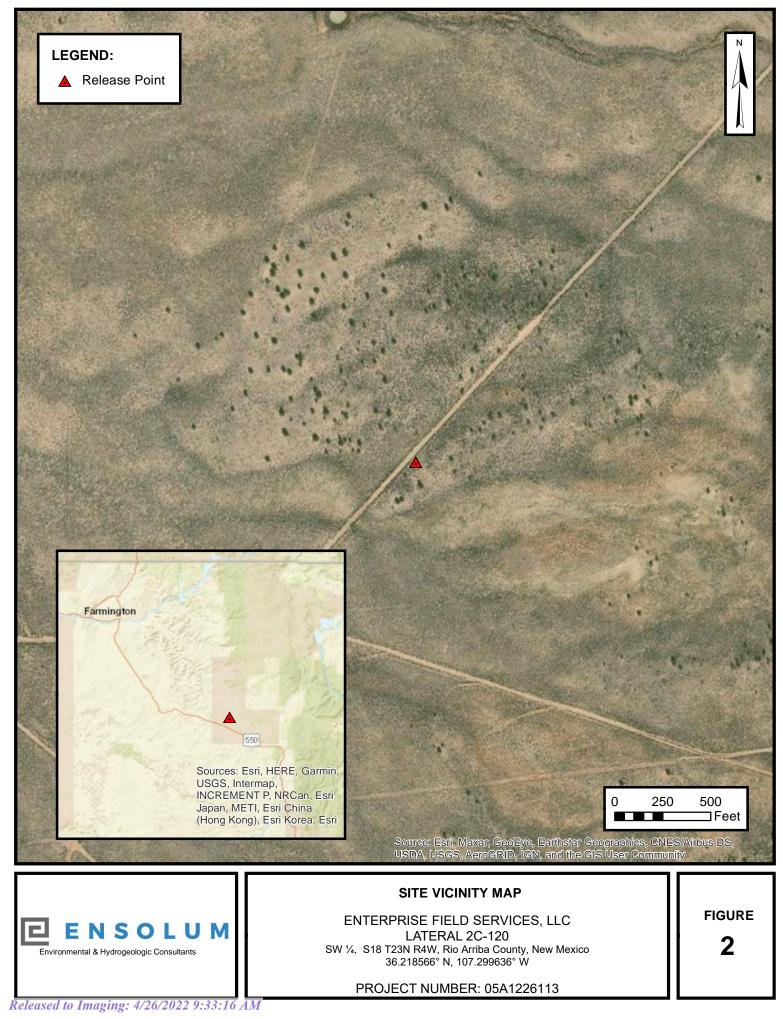


APPENDIX A

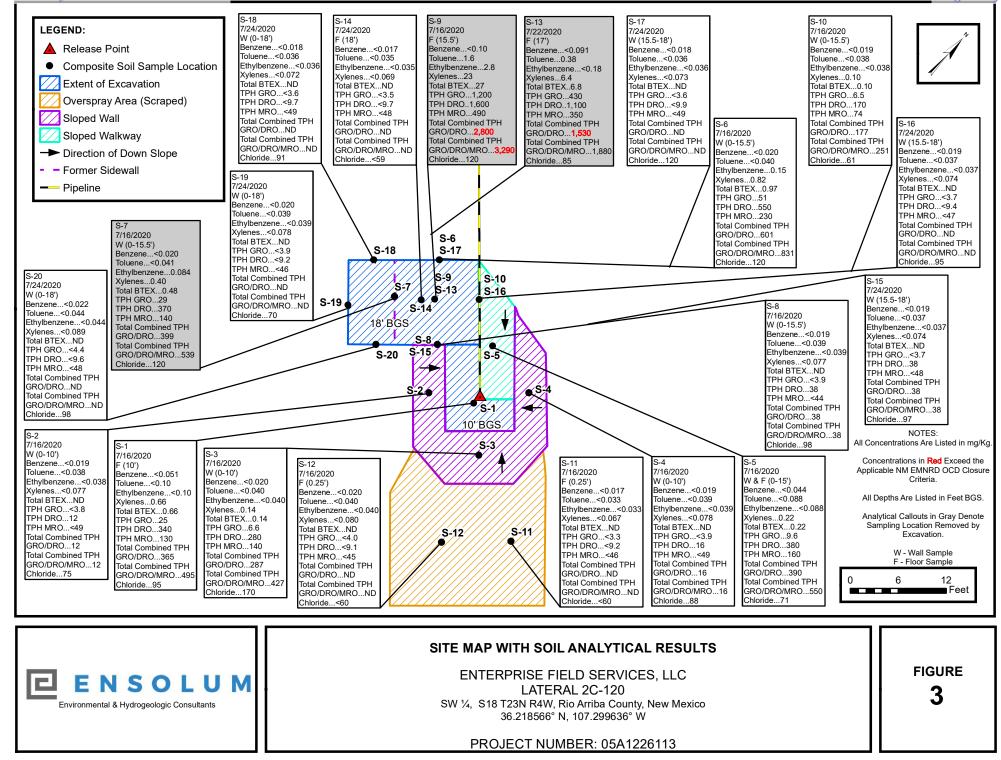
Figures

Received by OCD: 3/4/2021 6:25:34 AM





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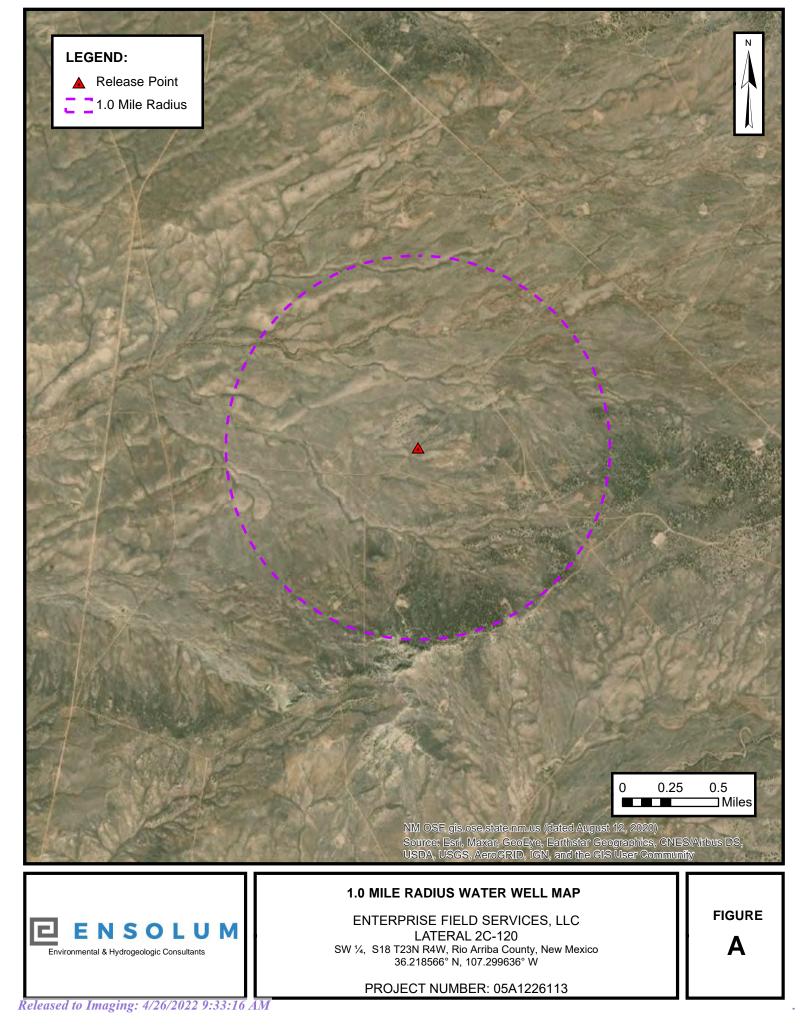
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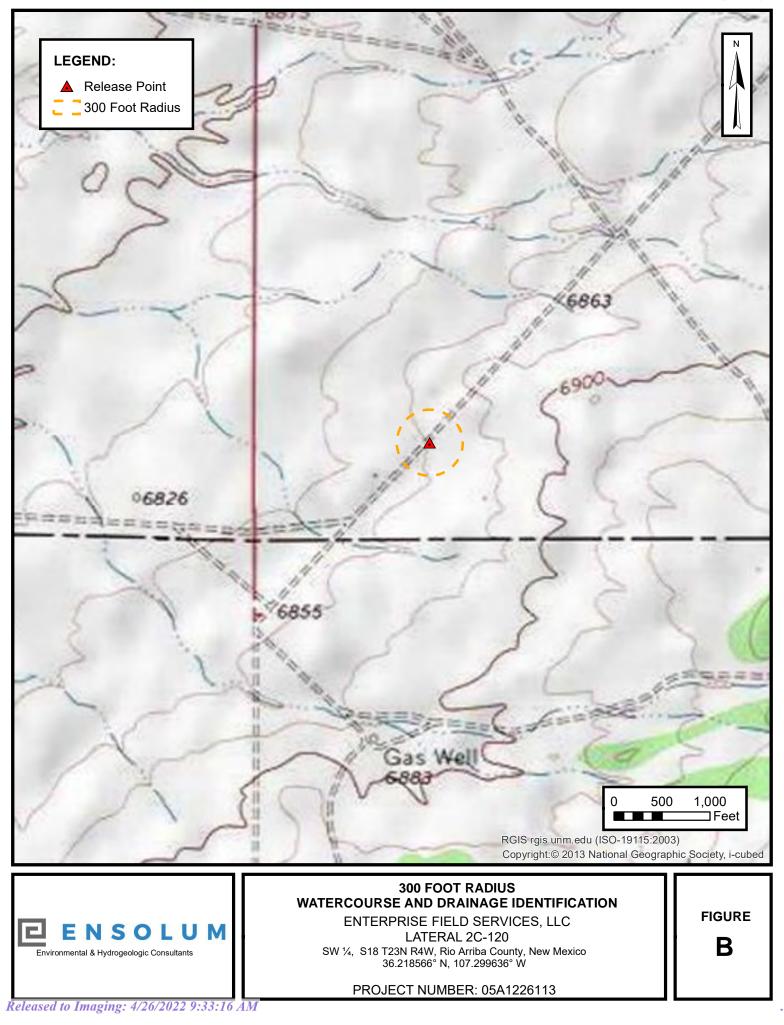
APPENDIX B

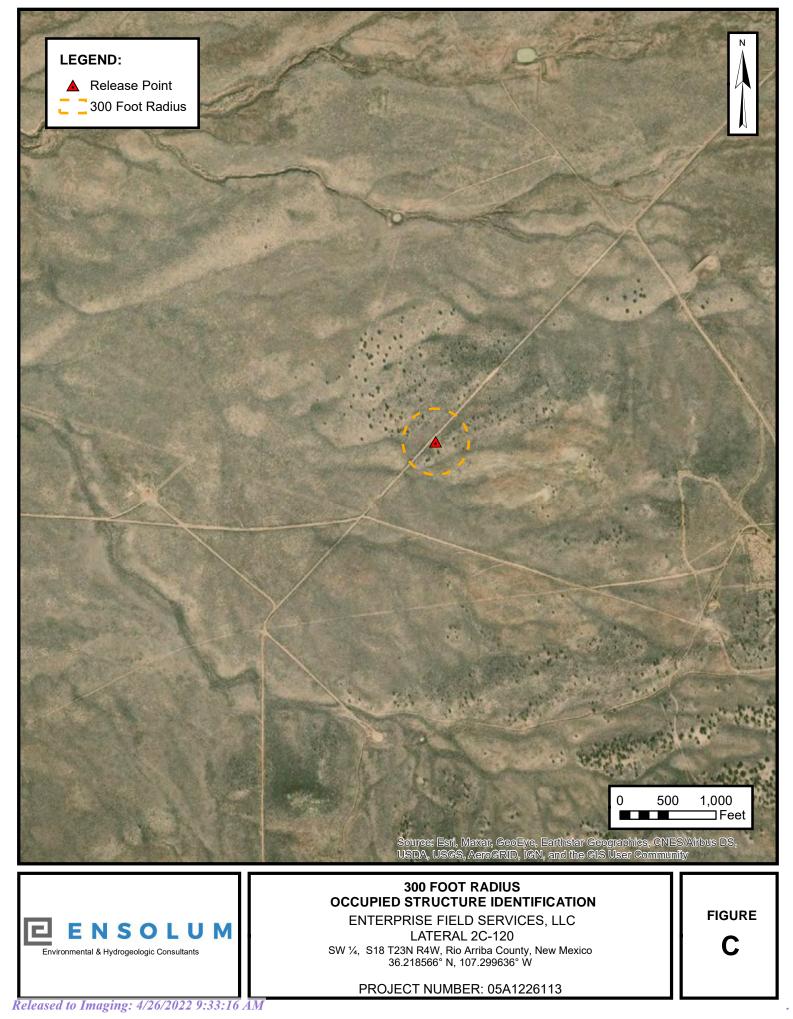
Siting Figures and Documentation

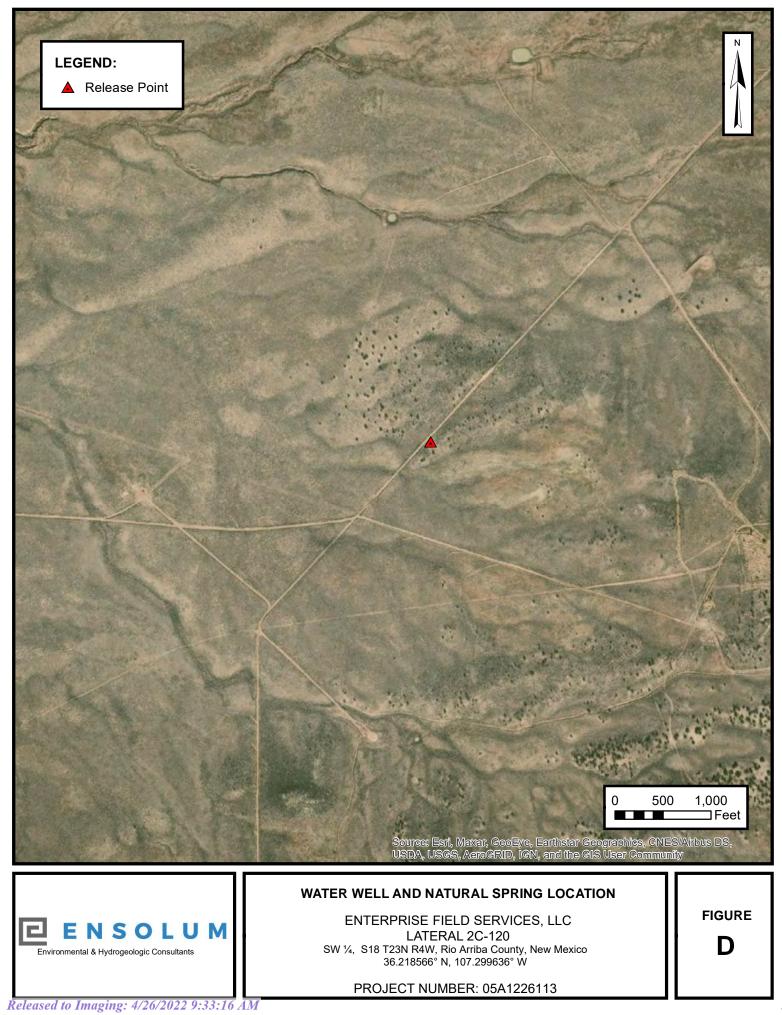
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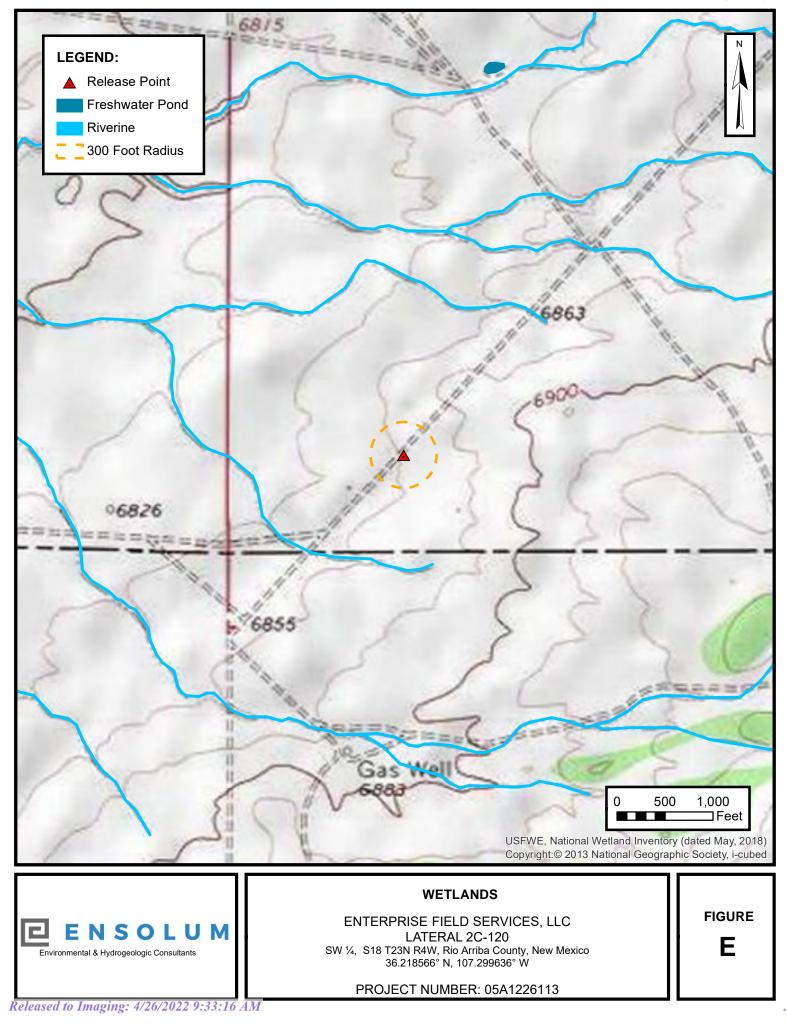
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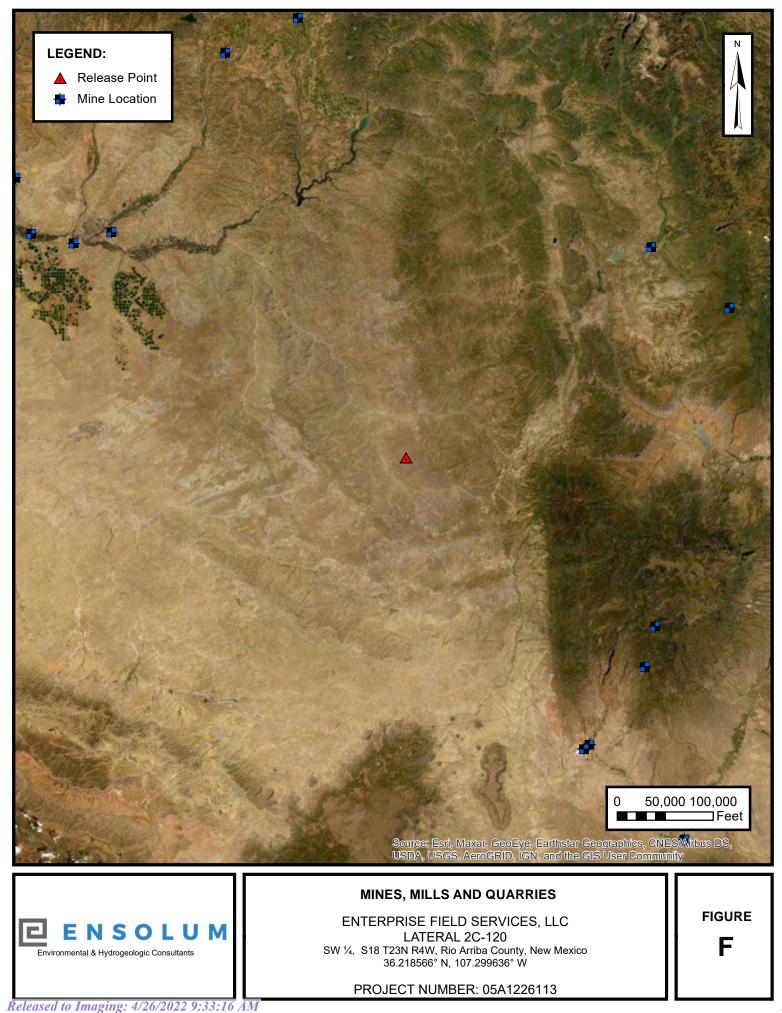




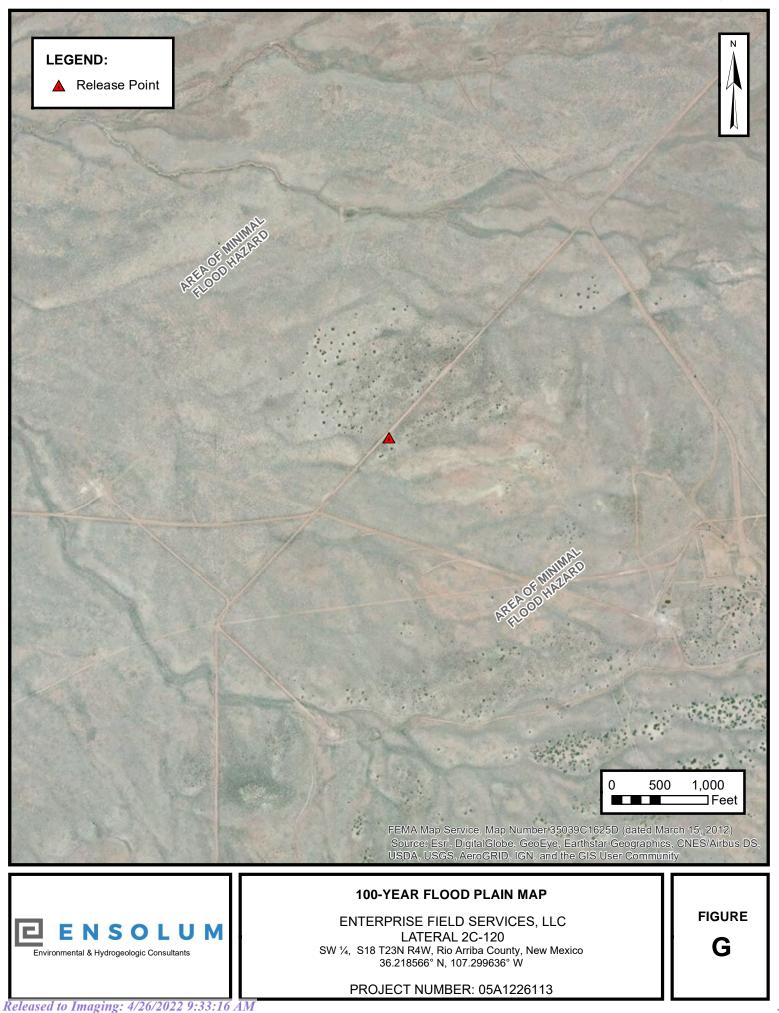
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Received by OCD: 3/4/2021 6:25:34 AM





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

No records found.

PLSS Search:

Section(s): 18, 7, 8, 17, 20, **Township:** 23N **Ra** 19

Range: 04W

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



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

No records found.

PLSS Search:

Section(s): 12, 13, 24

Township: 23N

Range: 05W

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

VEGETATION PHOTOGRAPHS

ENSOLUM

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Photograph 1

Photograph Description: View of the area that is identified as an "ephemeral wash" southwest of the site (facing east). Shrub and grass are dominate in the area. No evidence of riparian-wetland vegetation.



Photograph 2

Photograph Description: View of the area that is identified as an "ephemeral wash" southwest of the site (facing southeast). Shrub and grass are dominate in the area. No evidence of riparian-wetland vegetation.



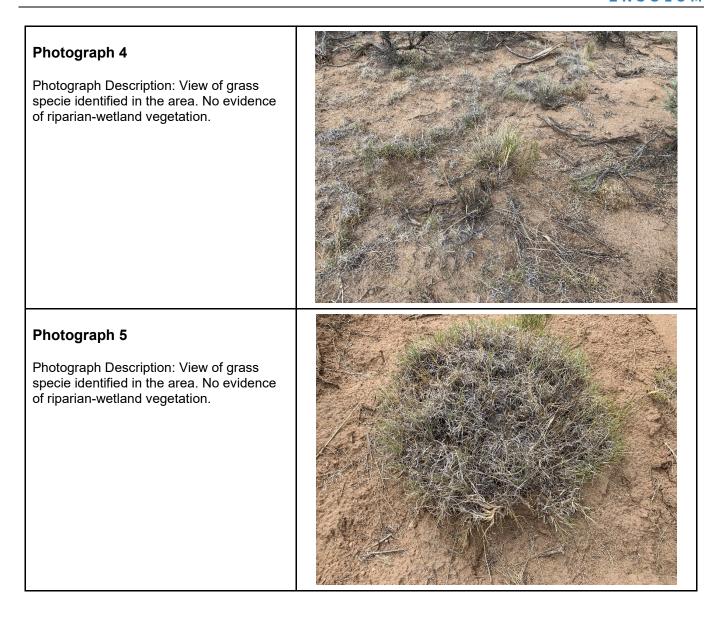
Photograph 3

Photograph Description: View of the area that is identified as an "ephemeral wash" southwest of the site (facing west). Shrub and grass are dominate in the area. No evidence of riparian-wetland vegetation.



VEGETATION PHOTOGRAPHS







APPENDIX C

Regulatory Correspondence

From:	Long, Thomas
То:	"Yahoo Warning"; "Smith, Cory, EMNRD (Cory.Smith@state.nm.us)"
Cc:	<u>Stone, Brian</u>
Subject:	FW: Lateral 2C-120 - UL N Section 18 T23N R4W; 36.218566, -107.299636
Date:	Tuesday, July 28, 2020 7:22:00 AM
Attachments:	Lateral 2C-120 Site Map v3.pdf
	Lateral 2C 120.pdf

Keith/Cory,

Please find the attached site sketch and lab report for the Lateral 2C-120 release. This complete the remediation of this release as that all sample results are below the NMOCD Tier II standard. Enterprise will backfill the excavation with clean native soils. 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: Thursday, July 23, 2020 3:13 PM
To: 'Yahoo Warning' <kcmanwell@yahoo.com>; 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)'
<Cory.Smith@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: Lateral 2C-120 - UL N Section 18 T23N R4W; 36.218566, -107.299636

Keith/Cory,

Please find the attached site sketch and lab report for the Lateral 2C-120 excavation. Soil sample S-13 still exceeds the NMOCD Tier II standard with the DRO/GRO TPH components exceeding 1, 000 ppm. Enterprise will be excavating and resampling tomorrow, July 24, 2020 at 12:00 p.m. If you have any questions, please call or email.

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

tjlong@eprod.com



From: Long, Thomas
Sent: Monday, July 20, 2020 11:07 AM
To: 'Yahoo Warning' <<u>kcmanwell@yahoo.com</u>>; 'Smith, Cory, EMNRD (<u>Cory.Smith@state.nm.us</u>)'
<<u>Cory.Smith@state.nm.us</u>>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: FW: Lateral 2C-120 - UL N Section 18 T23N R4W; 36.218566, -107.299636

Keith/Cory,

Please find the attached site sketch, summary table, lab report and siting summary for the Lateral 2C-120 excavation. Enterprise is requesting a remediation standard (siting criteria) variance. Based off the attached data, Enterprise requests that this release site fall under the criteria of a NMOCD Tier II remediation standard. Currently, all soil samples are below a NMOCD Tier II remediation standard except for soil sample S-9 (base) with a TPH result for 3,290 ppm TPH. Entperise will mobilize a track hoe to excavate additional soil from the base of the excavation and then resample. Please acknowledge acceptance of this remediation standard variance request. I will keep up informed as to when we are ready to collect additional soil samples for laboratory analysis. If you have any questions, please call or email.

Sincerely,

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 <<u>tilong@eprod.com</u>>
Sent: Wednesday, July 15, 2020 4:22 PM
To: EMNRD Smith Cory <<u>Cory.Smith@state.nm.us</u>>; <u>kcmanwell@yahoo.com</u>
Cc: Stone, Brian <<u>bmstone@eprod.com</u>>
Subject: Fwd: Lateral 2C-120 - UL N Section 18 T23N R4W; 36.218566, -107.299636

Keith/Cory,

Change in sampling time. The personnel in the field called and said they won't be ready at 9:00 am and sampling at 12:00 pm would be better. If this is an inconvenience, please let me know. If you have any questions, please call or email.

Tom Long

Begin forwarded message:

From: "Long, Thomas" <tjlong@eprod.com>
Date: July 15, 2020 at 3:28:53 PM MDT
To: EMNRD Smith Cory <<u>Cory.Smith@state.nm.us</u>>, "kcmanwell@yahoo.com"
<kcmanwell@yahoo.com>
Cc: "Stone, Brian" <<u>bmstone@eprod.com</u>>
Subject: Fwd: Lateral 2C-120 - UL N Section 18 T23N R4W; 36.218566, -107.299636

Keith/Cory,

This email is to notify you that Enterprise will be collecting soil samples for laboratory analysis at the Lateral 2C-120 excavation tomorrow July, 16 2020 at 9:00 a.m. if you have any questions, please call or email.

Tom Long

Begin forwarded message:

From: "Long, Thomas" <tjlong@eprod.com>
Date: July 15, 2020 at 8:20:00 AM MDT
To: "Smith, Cory, EMNRD (Cory.Smith@state.nm.us)"
<Cory.Smith@state.nm.us>, Yahoo Warning <kcmanwell@yahoo.com>
Cc: "Stone, Brian" <bmstone@eprod.com>
Subject: FW: Lateral 2C-120 - UL N Section 18 T23N R4W; 36.218566,
-107.299636

Cory/Keith,

The email is to notify you that Entperise will be initiating the remediation of this release starting today. I will keep you informed as to when we might collect soil samples. Also, the correct section is <u>Section 18</u>. 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: Friday, July 10, 2020 2:11 PM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)'
<Cory.Smith@state.nm.us>; 'Yahoo Warning' <kcmanwell@yahoo.com>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: Lateral 2C-120 - UL N Section 19 T23N R4W; 36.218566,
-107.299636

Keith/Cory,

This email is a courtesy notification that Enterprise had a release on the Lateral 2C-120 pipeline riser this afternoon. The release came from a one inch valve. Enterprise has not yet determined this release reportable per NMOCD regulation. An area of approximately 30 feet by 16 feet was misted by the release fluids. No washes have been affected. The pipeline is has been isolated, depressurized, locked and tagged out. The release is located at UL N Section 19 T23N R4W; 36.218566, -107.299636. I will keep you informed on the reporting status and remediation activities. If you have any questions, please call or email.

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





APPENDIX D

Executed C-138 Solid Waste Acceptance Form

Released to Imaging: 4/26/2022 9:33:16 AM

Received by OCD: 3/4/2021 6:25:34 AM 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

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

Form C-138 Revised August 1, 2011

Page 33 of 84

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

97057-1120

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:		
2. Enterprise Field Services, LLC, 614 Reilly Avenue, Farm	ington, NM 87401	AFE: N48871 PM: Dwayne Dixon
		Pay Key: RB21200
3. Originating Site:		
Lateral 2C-120		
4. Location of Material (Street Address, City, State or UL	LSTR):	riteria.
UL N Section 18 T23N R4W; 36.218566, -107.299636		July 2020
 Source and Description of Waste: Hydrocarbon impacted pipeline release. 	d soil/sludge from remed	iation activities associated with a natural gas
5. Estimated Volume <u>50</u> yd ³ / bbls Known Volume	(to be entered by the ope	erator at the end of the haul) 221 yd ³ bbls
5. GENERATOR CERTIFICAT		
Thomas Long-		
I, <u>Thomas Long</u> representative or authorized ager	nt for <u>Enterprise Fiel</u> COMPANY	d Services, LLC do hereby
certify that according to the Resource Conservation and Recov regulatory determination, the above described waste is: (Check	ery Act (RCRA) and the	US Environmental Protection Agency's July 1988
RCRA Exempt: Oil field wastes generated from oil an exempt waste. Operator Use Only: Waste Acceptance		
RCRA Non-Exempt: Oil field waste which is non-haz characteristics established in RCRA regulations, 40 CFR 2 subpart D, as amended. The following documentation is a the appropriate items)	261.21-261.24, or listed h	nazardous waste as defined in 40 CFR, part 261,
□ MSDS Information □ RCRA Hazardous Waste Analysi	is 🔲 Process Knowled	ge D Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING	CERTIFICATION STA	ATEMENT FOR LANDFARMS
I, <u>7-15-2020</u> , representative for <u>Enterprise Field</u>	Services. LLC authorize	Envirotech. Inc. to
B		
complete the required testing/sign the Generator Waste Testing	g Certification.	
CCII		
I, Given Comblere, representative for	Envirotech	, Inc. do hereby certify that
representative samples of the oil field waste have been subject have been found to conform to the specific requirements applie of the representative samples are attached to demonstrate the a 19.15.36 NMAC.	ed to the paint filter test a cable to landfarms pursua	and tested for chloride content and that the samples ant to Section 15 of 19.15.36 NMAC. The results
6. Transporter: TBD		
OCD Permitted Surface Waste Management Facility		
Name and Facility Permit #: Envirotech, Inc. Soil Remediation Address of Facility: Hilltop, NM	on Facility * Permit #: 1	NM 01-0011
Method of Treatment and/or Disposal:	Plant 🛛 Landfarm	🗌 Landfill 🔲 Other
Evaporation Injection Treating F		Landfill Other IED (Must Be Maintained As Permanent Record)
Method of Treatment and/or Disposal: Evaporation Injection Treating F Waste Acceptance Status: PRINT NAME: Gree Crabbee		IED (Must Be Maintained As Permanent Record)



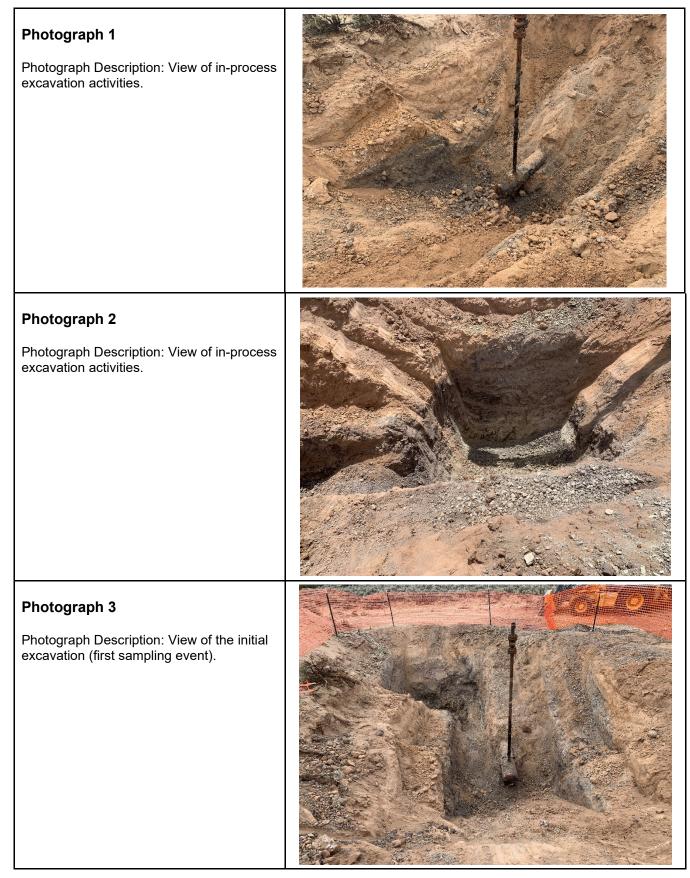
APPENDIX E

Photographic Documentation

SITE PHOTOGRAPHS

Enterprise Field Services, LLC Closure Report Lateral 2C-120 Ensolum Project No. 05A1226113





SITE PHOTOGRAPHS

Enterprise Field Services, LLC Closure Report Lateral 2C-120 Ensolum Project No. 05A1226113



Photograph 4 Photograph Description: View of the scraped overspray area (first sampling event).	
Photograph 5 Photograph Description: View of the excavation (second sampling event).	
Photograph 6 Photograph Description: View of the final excavation (third sampling event).	

SITE PHOTOGRAPHS

Enterprise Field Services, LLC Closure Report Lateral 2C-120 Ensolum Project No. 05A1226113



Photograph 7

Photograph Description: View of the excavation after initial restoration.





APPENDIX F

Table 1 – Soil Analytical Summary

Released to Imaging: 4/26/2022 9:33:16 AM

ENSOLUM

							TABLE 1 Lateral 2C-4 ANALYTICAL	120						
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 (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO) (mg/kg)	Total Combined TPH (GRO/DRO/MRO) (mg/kg)	Chloride (mg/kg)
	o Energy, Mineral & onservation Divisio			10	NE	NE	NE	50				1,000	2,500	10,000
	Composite Soil Samples Removed by Excavation and Transported to the Landfarm for Disposal/Remediation													
S-7	07.16.20	С	0 to 15.5	<0.020	<0.041	0.084	0.40	0.48	29	370	140	399	539	120
S-9	07.16.20	С	15.5	<0.10	1.6	2.8	23	27	1,200	1,600	490	2,800	3,290	120
S-13	07.22.20	С	17	<0.091	0.38	<0.18	6.4	6.8	430	1,100	350	1,530	1,880	85
	Composite Soil Sample Collected from Stockpiled Soil													
SP-1	07.24.20	С	Stockpile	<0.021	<0.041	<0.041	<0.082	ND	<4.1	12	<49	12	12	71
						Excav	ation Composite S	ioil Samples						
S-1	07.16.20	С	10	<0.051	<0.10	<0.10	0.66	0.66	25	340	130	365	495	95
S-2	07.16.20	С	0 to 10	<0.019	<0.038	<0.038	<0.077	ND	<3.8	12	<49	12	12	75
S-3	07.16.20	С	0 to 10	<0.020	<0.040	<0.040	0.14	0.14	6.6	280	140	287	427	170
S-4	07.16.20	С	0 to 10	<0.019	<0.039	<0.039	<0.078	ND	<3.9	16	<49	16	16	88
S-5	07.16.20	С	0 to 15	<0.044	<0.088	<0.088	0.22	0.22	9.6	380	160	390	550	71
S-6	07.16.20	С	0 to 15.5	<0.020	<0.040	0.15	0.82	0.97	51	550	230	601	831	120
S-8	07.16.20	С	0 to 15.5	<0.019	<0.039	<0.039	<0.077	ND	<3.9	38	<44	38	38	98
S-10	07.16.20	С	0 to 15.5	<0.019	<0.038	<0.038	0.10	0.10	6.5	170	74	177	251	61
S-11	07.16.20	С	0.25	<0.017	<0.033	<0.033	<0.067	ND	<3.3	<9.2	<46	ND	ND	<60
S-12	07.16.20	С	0.25	<0.020	<0.040	<0.040	<0.080	ND	<4.0	<9.1	<45	ND	ND	<60
S-14	07.24.20	С	18	<0.017	<0.035	<0.035	<0.069	ND	<3.5	<9.7	<48	ND	ND	<59
S-15	07.24.20	С	15.5 to 18	<0.019	<0.037	<0.037	<0.074	ND	<3.7	38	<48	38	38	97
S-16	07.24.20	С	15.5 to 18	<0.019	<0.037	<0.037	<0.074	ND	<3.7	<9.4	<47	ND	ND	95
S-17	07.24.20	С	15.5 to 18	<0.018	<0.036	<0.036	<0.073	ND	<3.6	<9.9	<49	ND	ND	120
S-18	07.24.20	С	0 to 18	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<9.7	<49	ND	ND	91
S-19	07.24.20	С	0 to 18	<0.020	<0.039	<0.039	<0.078	ND	<3.9	<9.2	<46	ND	ND	70
S-20	07.24.20	С	0 to 18	<0.022	<0.044	<0.044	<0.089	ND	<4.4	<9.6	<48	ND	ND	98

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

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

NA = Not Analyzed

NE = Not established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics



APPENDIX G

Laboratory Data Sheets & Chain of Custody Documentation



July 21, 2020

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

RE: Lateral 2C-120

OrderNo.: 2007888

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 12 sample(s) on 7/17/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007888

Date Reported: 7/21/2020

CLIENT: ENSOLUM	Client Sample ID: S-1
Project: Lateral 2C-120	Collection Date: 7/16/2020 2:40:00 PM
Lab ID: 2007888-001	Matrix: MEOH (SOIL) Received Date: 7/17/2020 7:59:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	95	60		mg/Kg	20	7/17/2020 11:26:09 AM	53789
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst:	BRM
Diesel Range Organics (DRO)	340	9.6		mg/Kg	1	7/17/2020 10:47:33 AM	53785
Motor Oil Range Organics (MRO)	130	48		mg/Kg	1	7/17/2020 10:47:33 AM	53785
Surr: DNOP	174	55.1-146	S	%Rec	1	7/17/2020 10:47:33 AM	53785
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline Range Organics (GRO)	25	10		mg/Kg	2	7/17/2020 10:47:59 AM	R70417
Surr: BFB	160	66.6-105	S	%Rec	2	7/17/2020 10:47:59 AM	R70417
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.051		mg/Kg	2	7/17/2020 10:47:59 AM	BS70417
Toluene	ND	0.10		mg/Kg	2	7/17/2020 10:47:59 AM	BS70417
Ethylbenzene	ND	0.10		mg/Kg	2	7/17/2020 10:47:59 AM	BS70417
Xylenes, Total	0.66	0.20		mg/Kg	2	7/17/2020 10:47:59 AM	BS70417
Surr: 4-Bromofluorobenzene	112	80-120		%Rec	2	7/17/2020 10:47:59 AM	BS70417

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

Qualifiers:

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

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

Page 1 of 16

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007888

Date Reported: 7/21/2020

CLIENT:	ENSOLUM	Client Sample ID: S-2
Project:	Lateral 2C-120	Collection Date: 7/16/2020 2:45:00 PM
Lab ID:	2007888-002	Matrix: MEOH (SOIL) Received Date: 7/17/2020 7:59:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	75	60	mg/Kg	20	7/17/2020 10:53:34 AM	53790
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst:	BRM
Diesel Range Organics (DRO)	12	9.7	mg/Kg	1	7/17/2020 10:57:27 AM	53785
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/17/2020 10:57:27 AM	53785
Surr: DNOP	126	55.1-146	%Rec	1	7/17/2020 10:57:27 AM	53785
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	RAA
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	7/17/2020 11:11:31 AM	R70417
Surr: BFB	82.2	66.6-105	%Rec	1	7/17/2020 11:11:31 AM	R70417
EPA METHOD 8021B: VOLATILES					Analyst:	RAA
Benzene	ND	0.019	mg/Kg	1	7/17/2020 11:11:31 AM	BS70417
Toluene	ND	0.038	mg/Kg	1	7/17/2020 11:11:31 AM	BS70417
Ethylbenzene	ND	0.038	mg/Kg	1	7/17/2020 11:11:31 AM	BS70417
Xylenes, Total	ND	0.077	mg/Kg	1	7/17/2020 11:11:31 AM	BS70417
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	7/17/2020 11:11:31 AM	BS70417

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

Qualifiers:

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

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

Page 2 of 16

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007888

Date Reported: 7/21/2020

CLIENT: ENSOLUM	Client Sample ID: S-3
Project: Lateral 2C-120	Collection Date: 7/16/2020 2:50:00 PM
Lab ID: 2007888-003	Matrix: MEOH (SOIL) Received Date: 7/17/2020 7:59:00 AM
Lab ID: 2007888-003	Matrix: MEOH (SOIL) Received Date: 7/17/2020 7:59:00

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	170	60		mg/Kg	20	7/17/2020 11:05:59 AM	53790
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst:	BRM
Diesel Range Organics (DRO)	280	9.9		mg/Kg	1	7/17/2020 11:07:20 AM	53785
Motor Oil Range Organics (MRO)	140	49		mg/Kg	1	7/17/2020 11:07:20 AM	53785
Surr: DNOP	184	55.1-146	S	%Rec	1	7/17/2020 11:07:20 AM	53785
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline Range Organics (GRO)	6.6	4.0		mg/Kg	1	7/17/2020 11:35:02 AM	R70417
Surr: BFB	138	66.6-105	S	%Rec	1	7/17/2020 11:35:02 AM	R70417
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.020		mg/Kg	1	7/17/2020 11:35:02 AM	BS70417
Toluene	ND	0.040		mg/Kg	1	7/17/2020 11:35:02 AM	BS70417
Ethylbenzene	ND	0.040		mg/Kg	1	7/17/2020 11:35:02 AM	BS70417
Xylenes, Total	0.14	0.080		mg/Kg	1	7/17/2020 11:35:02 AM	BS70417
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	7/17/2020 11:35:02 AM	BS70417

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

Qualifiers:

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

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

Page 3 of 16

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007888

Date Reported: 7/21/2020

CLIENT	: ENSOLUM	Client Sample ID: S-4
Project:	Lateral 2C-120	Collection Date: 7/16/2020 2:55:00 PM
Lab ID:	2007888-004	Matrix: MEOH (SOIL) Received Date: 7/17/2020 7:59:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	88	60	mg/Kg	20	7/17/2020 11:18:23 AM	53790
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst:	BRM
Diesel Range Organics (DRO)	16	9.9	mg/Kg	1	7/17/2020 11:17:14 AM	53785
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/17/2020 11:17:14 AM	53785
Surr: DNOP	134	55.1-146	%Rec	1	7/17/2020 11:17:14 AM	53785
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	RAA
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	7/17/2020 11:58:30 AM	R70417
Surr: BFB	83.3	66.6-105	%Rec	1	7/17/2020 11:58:30 AM	R70417
EPA METHOD 8021B: VOLATILES					Analyst:	RAA
Benzene	ND	0.019	mg/Kg	1	7/17/2020 11:58:30 AM	BS70417
Toluene	ND	0.039	mg/Kg	1	7/17/2020 11:58:30 AM	BS70417
Ethylbenzene	ND	0.039	mg/Kg	1	7/17/2020 11:58:30 AM	BS70417
Xylenes, Total	ND	0.078	mg/Kg	1	7/17/2020 11:58:30 AM	BS70417
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	7/17/2020 11:58:30 AM	BS70417

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

Qualifiers:

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

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

Page 4 of 16

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007888

Date Reported: 7/21/2020

CLIENT: ENSOLUM	Client Sample ID: S-5
Project: Lateral 2C-120	Collection Date: 7/16/2020 3:00:00 PM
Lab ID: 2007888-005	Matrix: MEOH (SOIL) Received Date: 7/17/2020 7:59:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	71	60		mg/Kg	20	7/17/2020 11:30:48 AM	53790
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst:	BRM
Diesel Range Organics (DRO)	380	9.5		mg/Kg	1	7/17/2020 11:27:08 AM	53785
Motor Oil Range Organics (MRO)	160	48		mg/Kg	1	7/17/2020 11:27:08 AM	53785
Surr: DNOP	203	55.1-146	S	%Rec	1	7/17/2020 11:27:08 AM	53785
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline Range Organics (GRO)	9.6	8.8		mg/Kg	2	7/17/2020 12:22:00 PM	R70417
Surr: BFB	125	66.6-105	S	%Rec	2	7/17/2020 12:22:00 PM	R70417
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.044		mg/Kg	2	7/17/2020 12:22:00 PM	BS70417
Toluene	ND	0.088		mg/Kg	2	7/17/2020 12:22:00 PM	BS70417
Ethylbenzene	ND	0.088		mg/Kg	2	7/17/2020 12:22:00 PM	BS70417
Xylenes, Total	0.22	0.18		mg/Kg	2	7/17/2020 12:22:00 PM	BS70417
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	2	7/17/2020 12:22:00 PM	BS70417

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007888

Date Reported: 7/21/2020

CLIENT: ENSOLUM	Client Sample ID: S-6
Project: Lateral 2C-120	Collection Date: 7/16/2020 3:05:00 PM
Lab ID: 2007888-006	Matrix: MEOH (SOIL) Received Date: 7/17/2020 7:59:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	120	60		mg/Kg	20	7/17/2020 11:43:12 AM	53790
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst:	BRM
Diesel Range Organics (DRO)	550	9.4		mg/Kg	1	7/17/2020 11:37:02 AM	53785
Motor Oil Range Organics (MRO)	230	47		mg/Kg	1	7/17/2020 11:37:02 AM	53785
Surr: DNOP	183	55.1-146	S	%Rec	1	7/17/2020 11:37:02 AM	53785
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline Range Organics (GRO)	51	4.0		mg/Kg	1	7/17/2020 12:45:31 PM	R70417
Surr: BFB	431	66.6-105	S	%Rec	1	7/17/2020 12:45:31 PM	R70417
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.020		mg/Kg	1	7/17/2020 12:45:31 PM	BS70417
Toluene	ND	0.040		mg/Kg	1	7/17/2020 12:45:31 PM	BS70417
Ethylbenzene	0.15	0.040		mg/Kg	1	7/17/2020 12:45:31 PM	BS70417
Xylenes, Total	0.82	0.080		mg/Kg	1	7/17/2020 12:45:31 PM	BS70417
Surr: 4-Bromofluorobenzene	122	80-120	S	%Rec	1	7/17/2020 12:45:31 PM	BS70417

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007888

Date Reported: 7/21/2020

CLIENT: ENSOLUM	Client Sample ID: S-7
Project: Lateral 2C-120	Collection Date: 7/16/2020 3:10:00 PM
Lab ID: 2007888-007	Matrix: MEOH (SOIL) Received Date: 7/17/2020 7:59:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	120	60		mg/Kg	20	7/17/2020 11:55:37 AM	53790
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst:	BRM
Diesel Range Organics (DRO)	370	9.6		mg/Kg	1	7/17/2020 11:47:00 AM	53785
Motor Oil Range Organics (MRO)	140	48		mg/Kg	1	7/17/2020 11:47:00 AM	53785
Surr: DNOP	179	55.1-146	S	%Rec	1	7/17/2020 11:47:00 AM	53785
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline Range Organics (GRO)	29	4.1		mg/Kg	1	7/17/2020 1:09:07 PM	R70417
Surr: BFB	266	66.6-105	S	%Rec	1	7/17/2020 1:09:07 PM	R70417
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.020		mg/Kg	1	7/17/2020 1:09:07 PM	BS70417
Toluene	ND	0.041		mg/Kg	1	7/17/2020 1:09:07 PM	BS70417
Ethylbenzene	0.084	0.041		mg/Kg	1	7/17/2020 1:09:07 PM	BS70417
Xylenes, Total	0.40	0.082		mg/Kg	1	7/17/2020 1:09:07 PM	BS70417
Surr: 4-Bromofluorobenzene	117	80-120		%Rec	1	7/17/2020 1:09:07 PM	BS70417

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007888

Date Reported: 7/21/2020

CLIENT	: ENSOLUM	Client Sample ID: S-8	
Project:	Lateral 2C-120	Collection Date: 7/16/20	20 3:15:00 PM
Lab ID:	2007888-008	Matrix: MEOH (SOIL) Received Date: 7/17/20	20 7:59:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	98	60		mg/Kg	20	7/17/2020 12:08:01 PM	53790
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst:	BRM
Diesel Range Organics (DRO)	38	8.9		mg/Kg	1	7/17/2020 11:56:57 AM	53785
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/17/2020 11:56:57 AM	53785
Surr: DNOP	156	55.1-146	S	%Rec	1	7/17/2020 11:56:57 AM	53785
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	7/17/2020 1:32:41 PM	R70417
Surr: BFB	95.9	66.6-105		%Rec	1	7/17/2020 1:32:41 PM	R70417
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.019		mg/Kg	1	7/17/2020 1:32:41 PM	BS70417
Toluene	ND	0.039		mg/Kg	1	7/17/2020 1:32:41 PM	BS70417
Ethylbenzene	ND	0.039		mg/Kg	1	7/17/2020 1:32:41 PM	BS70417
Xylenes, Total	ND	0.077		mg/Kg	1	7/17/2020 1:32:41 PM	BS70417
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	7/17/2020 1:32:41 PM	BS70417

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007888

Date Reported: 7/21/2020

CLIENT: ENSOLUM	Client Sample ID: S-9
Project: Lateral 2C-120	Collection Date: 7/16/2020 3:20:00 PM
Lab ID: 2007888-009	Matrix: MEOH (SOIL) Received Date: 7/17/2020 7:59:00 AM
Analyses	Result RL Oual Units DF Date Analyzed Bat

Analyses	Kesuit	KL	Quai	Units	DI	Date Allalyzeu	Datti
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	120	60		mg/Kg	20	7/17/2020 12:20:25 PM	53790
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst:	BRM
Diesel Range Organics (DRO)	1600	19		mg/Kg	2	7/17/2020 12:47:05 PM	53785
Motor Oil Range Organics (MRO)	490	96		mg/Kg	2	7/17/2020 12:47:05 PM	53785
Surr: DNOP	436	55.1-146	S	%Rec	2	7/17/2020 12:47:05 PM	53785
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline Range Organics (GRO)	1200	21		mg/Kg	5	7/17/2020 1:56:14 PM	R70417
Surr: BFB	971	66.6-105	S	%Rec	5	7/17/2020 1:56:14 PM	R70417
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.10		mg/Kg	5	7/17/2020 1:56:14 PM	BS70417
Toluene	1.6	0.21		mg/Kg	5	7/17/2020 1:56:14 PM	BS70417
Ethylbenzene	2.8	0.21		mg/Kg	5	7/17/2020 1:56:14 PM	BS70417
Xylenes, Total	23	0.41		mg/Kg	5	7/17/2020 1:56:14 PM	BS70417
Surr: 4-Bromofluorobenzene	145	80-120	S	%Rec	5	7/17/2020 1:56:14 PM	BS70417

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007888

Date Reported: 7/21/2020

CLIENT: ENSOLUM	Client Sample ID: S-10
Project: Lateral 2C-120	Collection Date: 7/16/2020 3:25:00 PM
Lab ID: 2007888-010	Matrix: MEOH (SOIL) Received Date: 7/17/2020 7:59:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	61	59		mg/Kg	20	7/17/2020 12:57:38 PM	53790
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst:	BRM
Diesel Range Organics (DRO)	170	9.8		mg/Kg	1	7/17/2020 12:16:55 PM	53785
Motor Oil Range Organics (MRO)	74	49		mg/Kg	1	7/17/2020 12:16:55 PM	53785
Surr: DNOP	181	55.1-146	S	%Rec	1	7/17/2020 12:16:55 PM	53785
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline Range Organics (GRO)	6.5	3.8		mg/Kg	1	7/17/2020 2:19:48 PM	R70417
Surr: BFB	149	66.6-105	S	%Rec	1	7/17/2020 2:19:48 PM	R70417
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.019		mg/Kg	1	7/17/2020 2:19:48 PM	BS70417
Toluene	ND	0.038		mg/Kg	1	7/17/2020 2:19:48 PM	BS70417
Ethylbenzene	ND	0.038		mg/Kg	1	7/17/2020 2:19:48 PM	BS70417
Xylenes, Total	0.10	0.076		mg/Kg	1	7/17/2020 2:19:48 PM	BS70417
Surr: 4-Bromofluorobenzene	112	80-120		%Rec	1	7/17/2020 2:19:48 PM	BS70417

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007888

Date Reported: 7/21/2020

CLIENT:	: ENSOLUM	Client Sample ID: S-11
Project:	Lateral 2C-120	Collection Date: 7/16/2020 3:30:00 PM
Lab ID:	2007888-011	Matrix: MEOH (SOIL) Received Date: 7/17/2020 7:59:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	7/17/2020 1:10:03 PM	53790
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/17/2020 12:26:55 PM	53785
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/17/2020 12:26:55 PM	53785
Surr: DNOP	121	55.1-146	%Rec	1	7/17/2020 12:26:55 PM	53785
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	RAA
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	7/17/2020 3:07:05 PM	R70417
Surr: BFB	87.5	66.6-105	%Rec	1	7/17/2020 3:07:05 PM	R70417
EPA METHOD 8021B: VOLATILES					Analyst:	RAA
Benzene	ND	0.017	mg/Kg	1	7/17/2020 3:07:05 PM	BS70417
Toluene	ND	0.033	mg/Kg	1	7/17/2020 3:07:05 PM	BS70417
Ethylbenzene	ND	0.033	mg/Kg	1	7/17/2020 3:07:05 PM	BS70417
Xylenes, Total	ND	0.067	mg/Kg	1	7/17/2020 3:07:05 PM	BS70417
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	7/17/2020 3:07:05 PM	BS70417

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007888

Date Reported: 7/21/2020

CLIENT	: ENSOLUM	(Client Sample ID: S-12
Project:	Lateral 2C-120		Collection Date: 7/16/2020 3:35:00 PM
Lab ID:	2007888-012	Matrix: MEOH (SOIL)	Received Date: 7/17/2020 7:59:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	7/17/2020 1:22:28 PM	53790
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	7/17/2020 12:36:55 PM	53785
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	7/17/2020 12:36:55 PM	53785
Surr: DNOP	112	55.1-146	%Rec	1	7/17/2020 12:36:55 PM	53785
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	RAA
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	7/17/2020 3:30:48 PM	R70417
Surr: BFB	85.0	66.6-105	%Rec	1	7/17/2020 3:30:48 PM	R70417
EPA METHOD 8021B: VOLATILES					Analyst:	RAA
Benzene	ND	0.020	mg/Kg	1	7/17/2020 3:30:48 PM	BS70417
Toluene	ND	0.040	mg/Kg	1	7/17/2020 3:30:48 PM	BS70417
Ethylbenzene	ND	0.040	mg/Kg	1	7/17/2020 3:30:48 PM	BS70417
Xylenes, Total	ND	0.080	mg/Kg	1	7/17/2020 3:30:48 PM	BS70417
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	7/17/2020 3:30:48 PM	BS70417

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

Qualifiers:

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

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

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OC SUMMARY REPORT

L	vonmental Analysis Laboratory, Inc.	WO#:	2007888 21-Jul-20
Client: Project:	ENSOLUM Lateral 2C-120		

Prep Date: 7/17/2020 Analysis Date: 7/17/2020 SeqNo: 2449288 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val % REC LowLimit HighLimit % RPD RPDLimit Qual Chloride ND 1.5					
Prep Date: 7/17/2020 Analysis Date: 7/17/2020 SeqNo: 2449288 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Chloride ND 1.5	Sample ID: MB-53789	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Chloride ND 1.5 Sample ID: LCS-53789 SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 53789 RunNo: 70427 Prep Date: 7/17/2020 Analysis Date: 7/17/2020 SeqNo: 2449289 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Chloride 14 1.5 15.00 0 93.6 90 110 Sample ID: MB-53790 SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PPBS Batch ID: 53790 RunNo: 70420 Prep Date: 7/17/2020 Analysis Date: 7/17/2020 SeqNo: 2449408 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC	Client ID: PBS	Batch ID: 53789	RunNo: 70427		
Chloride ND 1.5 Sample ID: LCS-53789 SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 53789 RunNo: 70427 Prep Date: 7/17/2020 Analysis Date: 7/17/2020 SeqNo: 2449289 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Chloride 14 1.5 15.00 0 93.6 90 110 Sample ID: MB-53790 SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBS Batch ID: 53790 RunNo: 70420 Prep Date: 7/17/2020 SeqNo: 2449408 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Chloride ND 1.5 SampType: ICs TestCode: EPA Method 300.0: Anions Cli	Prep Date: 7/17/2020	Analysis Date: 7/17/2020	SeqNo: 2449288	Units: mg/Kg	
Sample ID: LCS-53789 SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 53789 RunNo: 70427 Prep Date: 7/17/2020 Analysis Date: 7/17/2020 SeqNo: 2449289 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Chloride 14 1.5 15.00 0 93.6 90 110 10 Sample ID: MB-53790 SampType: mblk TestCode: EPA Method 300.0: Anions 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 <td>Analyte</td> <td>Result PQL SPK value</td> <td>SPK Ref Val %REC LowLimit</td> <td>HighLimit %RPD</td> <td>RPDLimit Qual</td>	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Client ID: LCSS Batch ID: 53789 RunNo: 70427 Prep Date: 7/17/2020 Analysis Date: 7/17/2020 SeqNo: 2449289 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Chloride 14 1.5 15.00 0 93.6 90 110 0 93.6 90 100 0 93.6 90 100 0 93.6 90 100 0 93.6 90 100 0 93.6 90 100 0 93.6 90 100 0 93.6 90 100 0 93.6 90 100 0 93.6 90 100 0 93.6 90 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 100 100 100 100 100 100 100 100 100	Chloride	ND 1.5			
Prep Date: 7/17/2020 Analysis Date: 7/17/2020 SeqNo: 2449289 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Chloride 14 1.5 15.00 0 93.6 90 110 0 93.6 90 110 0 0 93.6 90 110 0 0 93.6 90 110 0 0 93.6 90 110 0 0 0 93.6 90 110 0 0 0 93.6 90 110 0 0 0 93.6 90 110 0 0 0 93.6 90 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td>Sample ID: LCS-53789</td> <td>SampType: Ics</td> <td>TestCode: EPA Method</td> <td>300.0: Anions</td> <td></td>	Sample ID: LCS-53789	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Chloride 14 1.5 15.00 0 93.6 90 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Client ID: LCSS	Batch ID: 53789	RunNo: 70427		
Chloride 14 1.5 15.00 0 93.6 90 110 Sample ID: MB-53790 SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBS Batch ID: 53790 RunNo: 70420 Prep Date: 7/17/2020 Analysis Date: 7/17/2020 SeqNo: 2449408 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Chloride ND 1.5	Prep Date: 7/17/2020	Analysis Date: 7/17/2020	SeqNo: 2449289	Units: mg/Kg	
Sample ID: MB-53790 SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBS Batch ID: 53790 RunNo: 70420 Prep Date: 7/17/2020 Analysis Date: 7/17/2020 SeqNo: 2449408 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Chloride ND 1.5	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Client ID: PBS Batch ID: 53790 RunNo: 70420 Prep Date: 7/17/2020 Analysis Date: 7/17/2020 SeqNo: 2449408 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Chloride ND 1.5	Chloride	14 1.5 15.00	0 93.6 90	110	
Prep Date: 7/17/2020 Analysis Date: 7/17/2020 SeqNo: 2449408 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Chloride ND 1.5 TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 53790 RunNo: 70420	Sample ID: MB-53790	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Chloride ND 1.5 Sample ID: LCS-53790 SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 53790 RunNo: 70420	Client ID: PBS	Batch ID: 53790	RunNo: 70420		
Chloride ND 1.5 Sample ID: LCS-53790 SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 53790 RunNo: 70420	Prep Date: 7/17/2020	Analysis Date: 7/17/2020	SeqNo: 2449408	Units: mg/Kg	
Sample ID: LCS-53790 SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 53790 RunNo: 70420	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Client ID: LCSS Batch ID: 53790 RunNo: 70420	Chloride	ND 1.5			
	Sample ID: LCS-53790	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Prep Date: 7/17/2020 Analysis Date: 7/17/2020 SeqNo: 2449409 Units: mg/Kg	Client ID: LCSS	Batch ID: 53790	RunNo: 70420		
	Prep Date: 7/17/2020	Analysis Date: 7/17/2020	SeqNo: 2449409	Units: mg/Kg	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
	Chloride	14 1.5 15.00	0 94.6 90	110	

Qualifiers:

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

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

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

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ENSOLUM

Client:

Diesel Range Organics (DRO)

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

390

9.4

47.04

Project:	Lateral 20	C-120									
Sample ID:	LCS-53785	SampTyp	e: LC	s	Tes	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch II): 53	785	R	unNo: 70	0416				
Prep Date:	7/17/2020	Analysis Dat	e: 7 /	17/2020	S	eqNo: 24	47939	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	60	10	50.00	0	120	70	130			
Surr: DNOP		6.6		5.000		131	55.1	146			
Sample ID:	2007888-001AMS	SampTyp	e: M	S	Tes	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	S-1	Batch II): 53	785	R	unNo: 7(0416				
Prep Date:	7/17/2020	Analysis Dat	e: 7 /	17/2020	S	eqNo: 24	48414	Units: mg/K	g		
					SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte		Result	PQL	SFR value	SFK Kei Vai	MREC	LOWLINI	⊓ign∟imit			Qual
-	Organics (DRO)	Result 250	9.9	49.70	344.9	-192	47.4	136	701XI D		S
Analyte Diesel Range C Surr: DNOP	Organics (DRO)							<u> </u>	/orci D		
Diesel Range C Surr: DNOP	Drganics (DRO) 2007888-001AMSE	250 7.7	9.9	49.70 4.970	344.9	-192 156	47.4 55.1	136			S
Diesel Range C Surr: DNOP	2007888-001AMSE	250 7.7	9.9 be: M	49.70 4.970 SD	344.9 Tesi	-192 156	47.4 55.1 PA Method	136 146			S
Diesel Range C Surr: DNOP Sample ID:	2007888-001AMSE	250 7.7 O SampTyp	9.9 be: M \$ D: 53	49.70 4.970 SD 785	344.9 Test	-192 156 Code: EF	47.4 55.1 PA Method 0416	136 146	esel Range		S

47.4

136

43.7

43.4

R

Surr: DNOP	28	4.704		597	55.1	146	0	0	S
Sample ID: LCS-53751	SampType:	LCS	Test	Code: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch ID:	53751	R	unNo: 7(0416				
Prep Date: 7/16/2020	Analysis Date:	7/17/2020	S	eqNo: 24	148417	Units: %Rec			
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.8	5.000		116	55.1	146			
Sample ID: MB-53751	SampType:	MBLK	Test	Code: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch ID:	53751	R	unNo: 7(0416				
Prep Date: 7/16/2020	Analysis Date:	7/17/2020	S	eqNo: 24	448421	Units: %Rec			
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12	10.00		117	55.1	146			

344.9

92.8

Qualifiers:

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

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

RL Reporting Limit 2007888

21-Jul-20

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

	WO#:	2007888	
ental Analysis Laboratory, Inc.		21-Jul-20	

Client:	ENSOLU	М									
Project:	Lateral 2C	C-120									
Sample ID: 2.5ug	gro Ics	Samp	Гуре: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	oline Rang	e	
Client ID: LCSS		Batc	h ID: R7	0417	R	unNo: 7	0417				
Prep Date:		Analysis [Date: 7/	17/2020	S	eqNo: 24	447942	Units: mg/k	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic	cs (GRO)	22	5.0	25.00	0	89.4	72.5	106			
Surr: BFB		1000		1000		103	66.6	105			
Sample ID: mb		Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	oline Rang	e	
Client ID: PBS		Batc	h ID: R7	0417	R	lunNo: 7	0417				
Prep Date:		Analysis [Date: 7/	17/2020	S	eqNo: 24	447948	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic	cs (GRO)	ND	5.0								
Surr: BFB		1000		1000		99.8	66.6	105			
Sample ID: 200788	8-001ams	Samp	Гуре: МS	6	Tes	tCode: EF	PA Method	8015D: Gaso	oline Rang	e	
Client ID: S-1		Batc	h ID: R7	0417	R	tunNo: 7	0417				
Prep Date:		Analysis [Date: 7/	17/2020	S	eqNo: 24	448850	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic	cs (GRO)	73	10	50.76	25.14	94.8	80	120			
Surr: BFB		3600		2030		177	66.6	105			S
Sample ID: 200788	8-001amsd	Samp	Гуре: МS	SD	Tes	tCode: EF	PA Method	8015D: Gaso	oline Rang	e	
Client ID: S-1		Batc	h ID: R7	0417	R	lunNo: 7	0417				
Prep Date:		Analysis [Date: 7/	17/2020	S	eqNo: 24	448851	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organic	s (GRO)	72	10	50.76	25.14	92.0	80	120	1.93	20	
Surr: BFB		3500		2030		174	66.6	105	0	0	S

Qualifiers:

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

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

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

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WO#:	2007888

Hall Envir			•								21-Jul-
Client:	ENSOLU	JM									
Project:	Lateral 20										
Sample ID: 100n	a btox los	Samo	Гуре: LC	e	Too	tCodo: E	A Mothod	8021B: Vola	tilos		
Client ID: LCS	-	•	h ID: BS			RunNo: 7		00210. 0010	liles		
	5								-		
Prep Date:		Analysis [Date: 7/	17/2020		SeqNo: 24	447951	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.025	1.000	0	101	80	120			
oluene		0.99	0.050	1.000	0	99.3	80	120			
Ethylbenzene		1.0	0.050	1.000	0	99.5	80	120			
(ylenes, Total		3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluoro	benzene	1.1		1.000		109	80	120			
Sample ID: mb		Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: PBS		Batc	h ID: BS	70417	F	RunNo: 7	0417				
Prep Date:		Analysis [Date: 7/	17/2020	S	SeqNo: 24	447957	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
oluene		ND	0.050								
thylbenzene		ND	0.050								
(ylenes, Total		ND	0.10								
Surr: 4-Bromofluoro	benzene	1.2		1.000		118	80	120			
Sample ID: 2007	888-002ams	Samp	Гуре: МS	;	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: S-2		Batc	h ID: BS	70417	F	RunNo: 7	0417				
Prep Date:				17/2020			1/8877	Units: mg/k	٢g		
		Analysis [Date: 71	1772020		SeqNo: 24	++0077	ormo: mg/r	-		
Analyte		Analysis [Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
		-						-	-	RPDLimit	Qual
Benzene		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	-	RPDLimit	Qual
Analyte Benzene Toluene Ethylbenzene		Result 0.76	PQL 0.019	SPK value 0.7692	SPK Ref Val 0	%REC 99.4	LowLimit 78.5	HighLimit 119	-	RPDLimit	Qual
Benzene oluene thylbenzene		Result 0.76 0.76	PQL 0.019 0.038	SPK value 0.7692 0.7692	SPK Ref Val 0 0.008923	%REC 99.4 97.8	LowLimit 78.5 75.7	HighLimit 119 123	-	RPDLimit	Qual
enzene oluene thylbenzene	benzene	Result 0.76 0.76 0.76	PQL 0.019 0.038 0.038	SPK value 0.7692 0.7692 0.7692	SPK Ref Val 0 0.008923 0	%REC 99.4 97.8 98.6	LowLimit 78.5 75.7 74.3	HighLimit 119 123 126	-	RPDLimit	Qual
Benzene Foluene Ethylbenzene (ylenes, Total Surr: 4-Bromofluoro		Result 0.76 0.76 0.76 2.3 0.85	PQL 0.019 0.038 0.038	SPK value 0.7692 0.7692 2.308 0.7692	SPK Ref Val 0 0.008923 0 0.01261	%REC 99.4 97.8 98.6 99.1 111	LowLimit 78.5 75.7 74.3 72.9 80	HighLimit 119 123 126 130	%RPD	RPDLimit	Qual
Benzene Foluene Ethylbenzene Kylenes, Total		Result 0.76 0.76 0.76 2.3 0.85 d Samp	PQL 0.019 0.038 0.038 0.077	SPK value 0.7692 0.7692 2.308 0.7692	SPK Ref Val 0 0.008923 0 0.01261 Tes	%REC 99.4 97.8 98.6 99.1 111	LowLimit 78.5 75.7 74.3 72.9 80 PA Method	HighLimit 119 123 126 130 120	%RPD	RPDLimit	Qual
Benzene Foluene Sthylbenzene Sylenes, Total Surr: 4-Bromofluoro Sample ID: 2007 Client ID: S-2		Result 0.76 0.76 0.76 2.3 0.85 d Samp	PQL 0.019 0.038 0.038 0.077 Fype: MS	SPK value 0.7692 0.7692 2.308 0.7692 5D 70417	SPK Ref Val 0 0.008923 0 0.01261 Tes F	%REC 99.4 97.8 98.6 99.1 111 tCode: EF	LowLimit 78.5 75.7 74.3 72.9 80 PA Method 0417	HighLimit 119 123 126 130 120	%RPD	RPDLimit	Qual
Senzene Foluene Sthylbenzene Sylenes, Total Surr: 4-Bromofluoro Sample ID: 2007 Client ID: S-2 Prep Date:		Result 0.76 0.76 2.3 0.85 d Samp Batc	PQL 0.019 0.038 0.038 0.077 Fype: MS	SPK value 0.7692 0.7692 2.308 0.7692 5D 70417 17/2020	SPK Ref Val 0 0.008923 0 0.01261 Tes F	%REC 99.4 97.8 98.6 99.1 111 tCode: EF	LowLimit 78.5 75.7 74.3 72.9 80 PA Method 0417	HighLimit 119 123 126 130 120 8021B: Vola	%RPD	RPDLimit	Qual
Benzene oluene Ethylbenzene (ylenes, Total Surr: 4-Bromofluoro Sample ID: 2007 Client ID: S-2 Prep Date: Analyte		Result 0.76 0.76 2.3 0.85 Samp Batc Analysis [PQL 0.019 0.038 0.038 0.077 Type: MS h ID: BS Date: 7 /	SPK value 0.7692 0.7692 2.308 0.7692 5D 70417 17/2020	SPK Ref Val 0 0.008923 0 0.01261 Tes F	%REC 99.4 97.8 98.6 99.1 111 tCode: EF RunNo: 70 SeqNo: 24	LowLimit 78.5 75.7 74.3 72.9 80 PA Method 0417 448878	HighLimit 119 123 126 130 120 8021B: Volar Units: mg/k	%RPD tiles		
Benzene Soluene Sthylbenzene Sylenes, Total Surr: 4-Bromofluoro Sample ID: 2007 Client ID: S-2 Prep Date: Analyte Benzene		Result 0.76 0.76 2.3 0.85 d Samp Batc Analysis I Result	PQL 0.019 0.038 0.038 0.077 Type: MS h ID: BS Date: 7 / PQL	SPK value 0.7692 0.7692 2.308 0.7692 5D 70417 17/2020 SPK value	SPK Ref Val 0 0.008923 0 0.01261 Tes F SPK Ref Val 0	%REC 99.4 97.8 98.6 99.1 111 tCode: EF RunNo: 70 SeqNo: 24 %REC	LowLimit 78.5 75.7 74.3 72.9 80 PA Method 0417 448878 LowLimit	HighLimit 119 123 126 130 120 8021B: Volar Units: mg/P HighLimit	%RPD tiles {g %RPD	RPDLimit	
Benzene Foluene Ethylbenzene Kylenes, Total Surr: 4-Bromofluoro Sample ID: 2007		Result 0.76 0.76 0.76 0.76 0.85 I Samp Batc Analysis I Result 0.75	PQL 0.019 0.038 0.038 0.077 Fype: MS h ID: BS Date: 7 / PQL 0.019	SPK value 0.7692 0.7692 2.308 0.7692 5D 70417 17/2020 SPK value 0.7692	SPK Ref Val 0 0.008923 0 0.01261 Tes F SPK Ref Val 0	%REC 99.4 97.8 98.6 99.1 111 tCode: EF RunNo: 70 SeqNo: 20 %REC 97.5	LowLimit 78.5 75.7 74.3 72.9 80 PA Method 0417 448878 LowLimit 78.5	HighLimit 119 123 126 130 120 8021B: Volar Units: mg/H HighLimit 119	%RPD tiles (g 2.03	RPDLimit 20	
Benzene Senzene Sthylbenzene Sylenes, Total Surr: 4-Bromofluoro Sample ID: 2007 Client ID: S-2 Prep Date: Analyte Benzene Soluene		Result 0.76 0.76 0.76 0.76 2.3 0.85 I Samp Batc Analysis I Result 0.75 0.74	PQL 0.019 0.038 0.038 0.077 Type: MS h ID: BS Date: 7 / PQL 0.019 0.038	SPK value 0.7692 0.7692 2.308 0.7692 5D 70417 17/2020 SPK value 0.7692 0.7692	SPK Ref Val 0 0.008923 0 0.01261 Tes F SPK Ref Val 0 0.008923	%REC 99.4 97.8 98.6 99.1 111 tCode: Ef RunNo: 70 SeqNo: 24 %REC 97.5 95.4	LowLimit 78.5 75.7 74.3 72.9 80 PA Method 0417 448878 LowLimit 78.5 75.7	HighLimit 119 123 126 130 120 8021B: Volar Units: mg/k HighLimit 119 123	%RPD tiles (g 2.03 2.41	RPDLimit 20 20	

Qualifiers:

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

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental . Albu TEL: 505-345-3975 Website: clients.hal	490 Iquerq FAX:	1 Hawkins ue, NM 87 505-345-4	NE 109 Sam	nple Log-In Check List	
Client Name: ENSOLUM	Work Order Number:	200	7888		RcptNo: 1	
Received By:	7/17/2020 7:59:00 AM					
Completed By: Juan Rojas	7/17/2020 8:04:43 AM			Guansa g		
Reviewed By: DAD 7/17/20						
Chain of Custody						
1. Is Chain of Custody complete?		Yes	\checkmark	No 🗌	Not Present	
2. How was the sample delivered?		Cou	rier			
Log In 3. Was an attempt made to cool the samples?		Yes	✓	No 🗌	NA 🗌	
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes	\checkmark	No 🗌		
5. Sample(s) in proper container(s)?		Yes		No 🗌		
6. Sufficient sample volume for indicated test(s)?		Yes	\checkmark	No 🗌		
7. Are samples (except VOA and ONG) properly p	preserved?	Yes	\checkmark	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 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	\checkmark	No 🗌	bottles checked for pH: (<2.or >12 unless noted)	
12. Are matrices correctly identified on Chain of Cu	•	Yes		No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes		No 🗌	PAT.	7.20
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes	\checkmark	No	Checked by: STA (')	T' 20
Special Handling (if applicable)						
15. Was client notified of all discrepancies with this	s order?	Yes		No 🗌	NA 🔽	
Person Notified: By Whom: Regarding: Client Instructions:	Date Via:] eMa	ail 🗌 Pl	none 🗌 Fax	In Person	
16. Additional remarks:						
17. <u>Cooler Information</u> <u>Cooler No</u> Temp °C Condition Seal 1 2.3 Good	Intact Seal No Se	eal Da	ate	Signed By		

Page 1 of 1

Client:	Charles and the	olum	ustody Record ルC	□ Standard	Rush	5AME DAY													
		e Loasi	TRACING CARDING CONTRACTOR	Project Name	e: 1 20-120					,	~~~~	.halle	envir	onm	enta	al.co	m		
Mailing	Address	6065	. Rio Grandesuite A	10000	4901 Hawkins NE - Albuquerque, NM 87109														
		WU 87		Project #: 5	ee notes		Tel. 505-345-3975 Fax 505-345-4107												
Phone #	# :	para na practica international	retrie in and south and a s			and a state of the state of the	Analysis Request												
			nescensolumi(om	Project Mana	iger: KSum	mers	[]	SO)					SO4			ent)		-	
QA/QC F □ Stan	Package: dard		□ Level 4 (Full Validation)			ar minion - Ric Inc. A 885-94 Anna Anna Anna Anna Anna Anna	MTBE / TMB's (8021)	(O / MRO)	PCB's		8270SIMS		PO4,			(Present/Absent)			
Accredi			ompliance	Sampler: R	Deechill			/ DRO	082	Ē	827		NO ₂ ,			esel		-B3	a: 1 .
	1445-5-22		Alex James Canada and James Colling Product	On Ice: # of Coolers:	thur	[™] No		RO	es/8	504.	0 or		3, 1		YOA	Pr	,		
	(Type)	THE DRIVE IN LOS IN		Construction of the second second	(including CF): 2 4	-61=23 (°C)	MTB	5D(G	sticid	sthod	8310	Meta	z	(A	(Semi-VOA)	Coliform	cles	ant data da	
Date	Time	Matrix	Sample Name	Container	Preservative Type		BTEX/1	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method	PAHs by	RCRA 8 Metals	CI, F, Br, NO ₃ ,	8260 (VOA)	8270 (Se	Total Col	Chlor		
	1440	2	S-1	1× 400 Jor		- 001	X	X			_	-			~		X		+
116/20	1445	S	5-2	1× YozJor	an another the second second	-002	X	X									X		1
	1450	-	S-3	1× 402 Jor	(001	-003	X	\times					100	1)	\mathbf{x}	du s	
7/16/20	1455	S	5-4	1x yoz Jar	cool	-004	X	X				le veret	445 0	44	-	de la	X	0000	1
7/6/20	1500	S	S-5	1x 402 Dor	Chine Atlantic Second	-005	\times	X		1	unet une					2	X)		
F116/20	1505	S	S-6	1x Yoz Jor	(00)	-006	X	X					-)	X		1
7/16/20	1510	S	S-7	1x Yoz Jor	COOL	-007	X	X					and a second				X	100	
7/16/20	1515	S	5-8	1x YozJor	C001	-008	X	X				1					X	100	
7/16/20	1520	S	8-9	1× MOZJEr	c001	-009	X	X		20	-	last of					$\langle \rangle$		
F)16/20	1525	S	5-10	1× 402 Jar	- (00)	-010	X	X		1200	-		1.11			1	K _		
7/16/20	1530	S	5-11	1 × Yoz Jar	COOI	-011	X	X									X		1
-116/20	1535	S	5-12	1×402JN	(00)	-012	X	×			1		185				X		
F 6 20 Date:	Time: <u>1825</u> Time: 1904	Relinquish	istally	Received by:	Via: Via: Courser Courser COURSER	Date Time - 7/14/20 1829 Date Time 7/17/20 0759		narks ME	s: DA'	Ч		Par	1 Ke	7-1	RB	218	(EP 100 8871	50)	



July 24, 2020

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

RE: Lateral 2C-120

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

OrderNo.: 2007B59

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/23/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007B59

Date Reported: 7/24/2020

CLIENT:	ENSOLUM	Client Sample ID: S-13
Project:	Lateral 2C-120	Collection Date: 7/22/2020 11:30:00 AM
Lab ID:	2007B59-001	Matrix: MEOH (SOIL) Received Date: 7/23/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	85	60		mg/Kg	20	7/23/2020 10:43:04 AM	53915
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	BRM
Diesel Range Organics (DRO)	1100	19		mg/Kg	2	7/23/2020 12:24:09 PM	53910
Motor Oil Range Organics (MRO)	350	96		mg/Kg	2	7/23/2020 12:24:09 PM	53910
Surr: DNOP	115	55.1-146		%Rec	2	7/23/2020 12:24:09 PM	53910
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	430	18		mg/Kg	5	7/23/2020 9:28:52 AM	53903
Surr: BFB	499	66.6-105	S	%Rec	5	7/23/2020 9:28:52 AM	53903
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.091		mg/Kg	5	7/23/2020 9:28:52 AM	53903
Toluene	0.38	0.18		mg/Kg	5	7/23/2020 9:28:52 AM	53903
Ethylbenzene	ND	0.18		mg/Kg	5	7/23/2020 9:28:52 AM	53903
Xylenes, Total	6.4	0.36		mg/Kg	5	7/23/2020 9:28:52 AM	53903
Surr: 4-Bromofluorobenzene	123	80-120	S	%Rec	5	7/23/2020 9:28:52 AM	53903

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

Qualifiers:

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

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

Page 1 of 5

Client: Project:	ENSOI Lateral	LUM 2C-120								
Sample ID:	MB-53915	SampType: m	blk	Tes	tCode: EPA	Method	300.0: Anion:	6		
Client ID:	PBS	Batch ID: 53	3915	F	RunNo: 7056	60				
Prep Date:	7/23/2020	Analysis Date: 7	/23/2020	S	SeqNo: 2455	5086	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC L	owLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID:	LCS-53915	SampType: Ic	s	Tes	tCode: EPA	Method	300.0: Anion:	6		
Client ID:	LCSS	Batch ID: 53	3915	F	RunNo: 7056	60				
Prep Date:	7/23/2020	Analysis Date: 7	/23/2020	S	SeqNo: 2455	5087	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC L	owLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	90.1	90	110			

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- E Value above quantitation range
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- RL Reporting Limit

2007B59

24-Jul-20

WO#:

QC SUMMARY REPORT H

Page	63	of	84

	WO#:	2007B59
Iall Environmental Analysis Laboratory, Inc.		24-Jul-20

Client:ENSOLProject:Lateral							
Sample ID: LCS-53910	SampType:	LCS	Tes	tCode: EPA Metho	d 8015M/D: Diesel R	ange Organics	
Client ID: LCSS	Batch ID:	53910	F	RunNo: 70545			
Prep Date: 7/23/2020	Analysis Date:	7/23/2020	S	SeqNo: 2453976	Units: mg/Kg		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC LowLimi	t HighLimit %R	PD RPDLimit	Qual
Diesel Range Organics (DRO)	49 <i>*</i>	50.00	0	98.9 70) 130		
Surr: DNOP	4.8	5.000		96.5 55.	l 146		
Sample ID: MB-53910	SampType:	MBLK	Tes	tCode: EPA Metho	d 8015M/D: Diesel R	ange Organics	
Client ID: PBS	Batch ID:	53910	F	RunNo: 70545			
Prep Date: 7/23/2020	Analysis Date:	7/23/2020	S	GeqNo: 2453977	Units: mg/Kg		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC LowLimi	t HighLimit %R	PD RPDLimit	Qual
Diesel Range Organics (DRO)	ND ´	10					
Motor Oil Range Organics (MRO)	ND 5	50					
Surr: DNOP	10	10.00		101 55.1	I 146		
Sample ID: 2007B59-001AM	S SampType:	MS	Tes	tCode: EPA Metho	d 8015M/D: Diesel R	ange Organics	
Client ID: S-13	Batch ID:	53910	F	RunNo: 70551			
Prep Date: 7/23/2020	Analysis Date:	7/23/2020	S	SeqNo: 2454495	Units: mg/Kg		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC LowLimi	t HighLimit %R	PD RPDLimit	Qual
Diesel Range Organics (DRO)	890	45.62	1125	-515 47.4	136		S
Surr: DNOP	5.9	4.562		129 55.7	I 146		
Sample ID: 2007B59-001AM	SD SampType:	MSD	Tes	tCode: EPA Metho	d 8015M/D: Diesel R	ange Organics	
Client ID: S-13	Batch ID:	53910	F	RunNo: 70551			
Prep Date: 7/23/2020	Analysis Date:	7/23/2020	S	SeqNo: 2454496	Units: mg/Kg		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC LowLimi	t HighLimit %R	PD RPDLimit	Qual
Diesel Range Organics (DRO)	900	46.69	1125	-484 47.4	4 136 0.9	985 43.4	S
Surr: DNOP	6.0	4.669		129 55.	l 146	0 0	

Qualifiers:

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

RL Reporting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	DLUM 11 2C-120									
Sample ID: Ics-53903	SampTy	pe: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch I	D: 53	903	RunNo: 70543						
Prep Date: 7/22/2020 Analysis Date: 7/23/2020 SeqNo: 2455014 Units: mg/Kg										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.6	72.5	106			
Surr: BFB	1000		1000		102	66.6	105			
Sample ID: mb-53903	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch I	D: 53	903	F	unNo: 7	0543				
Prep Date: 7/22/2020	Analysis Da	te: 7/	23/2020	S	eqNo: 24	455016	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								
Surr: BFB	920		1000		92.2	66.6	105			

Qualifiers:

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- P Sample pH Not In Range
- RL Reporting Limit

2007B59

24-Jul-20

WO#:

ENSOLUM

Lateral 2C-120

Client:

Project:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Sample ID: LCS-53903	SampT	Type: LC	S	Test	Code: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 53	903	R	unNo: 70	0543				
Prep Date: 7/22/2020	Analysis E	Date: 7/	23/2020	S	eqNo: 24	455068	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.7	80	120			
Toluene	0.94	0.050	1.000	0	94.5	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.2	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.9	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			
Sample ID: mb-53903	SampT	Гуре: МЕ	BLK	Test	Code: EF	PA Method	8021B: Volat	iles		
Sample ID: mb-53903 Client ID: PBS		「ype: ME h ID: 53			Code: EF		8021B: Volat	iles		
		h ID: 539	903	R		0543	8021B: Volat Units: mg/K			
Client ID: PBS	Batcl	h ID: 539	903 23/2020	R	unNo: 70	0543			RPDLimit	Qual
Client ID: PBS Prep Date: 7/22/2020	Batcl Analysis [h ID: 539 Date: 7/	903 23/2020	R	unNo: 70 eqNo: 24	0543 455070	Units: mg/K	íg	RPDLimit	Qual
Client ID: PBS Prep Date: 7/22/2020 Analyte	Batcl Analysis I Result	h ID: 53 9 Date: 7/ PQL	903 23/2020	R	unNo: 70 eqNo: 24	0543 455070	Units: mg/K	íg	RPDLimit	Qual
Client ID: PBS Prep Date: 7/22/2020 Analyte Benzene	Batcl Analysis I Result ND	h ID: 53 Date: 7 PQL 0.025	903 23/2020	R	unNo: 70 eqNo: 24	0543 455070	Units: mg/K	íg	RPDLimit	Qual
Client ID: PBS Prep Date: 7/22/2020 Analyte Benzene Toluene	Batch Analysis E Result ND ND	h ID: 539 Date: 7/ PQL 0.025 0.050	903 23/2020	R	unNo: 70 eqNo: 24	0543 455070	Units: mg/K	íg	RPDLimit	Qual

Qualifiers:

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- Р Sample pH Not In Range
- RL Reporting Limit
- - Page 5 of 5

WO#: 2007B59 24-Jul-20

ANAL	ONMENTA YSIS RATORY	AL <i>TEL: 50</i>)1 Hawkins NE jue, NM 87109 505 - 345-4107	Sample Log-In Check List					
Client Name:	ENSOLUM	Work Ord	er Number: 200	7B59		RcptNo: 1				
Received By:	lsaiah Ort	iz 7/23/2020 8	:00:00 AM		<i>x</i> ~<	2-/-				
Completed By:	Isaiah Ort	iz 7/23/2020 8	:11:47 AM		I- C					
Reviewed By:	IO	07 23 20				7				
Chain of Cus	tody					:				
1. Is Chain of C		lete?	Yes		No 🗌	Not Present				
2. How was the	sample deliv	ered?	<u>Cou</u>	rie <u>r</u>						
<u>Log In</u> 3. Was an atterr	ipt made to c	cool the samples?	Yes		No 🗌					
			100							
4. Were all samp	oles received	at a temperature of >0° C to 6.	0°C Yes		No 🗌					
5. Sample(s) in I	oroper contai	ner(s)?	Yes		No 🗌					
6. Sufficient sam	ple volume fo	or indicated test(s)?	Yes		No 🗌					
7. Are samples (except VOA a	and ONG) properly preserved?	Yes	\checkmark	No 🗌					
8. Was preserva	tive added to	bottles?	Yes		No 🗹	NA 🗌				
9. Received at le	ast 1 vial witl	h headspace <1/4" for AQ VOA?	Yes		No 🗌					
10. Were any san	nple containe	ers received broken?	Yes		No 🗹	# of preserved				
11.Does paperwo (Note discrepa			Yes		No 🗌	for pH: (<2.01 >12 unless n	eted)			
		tified on Chain of Custody?	Yes		No 🗌	Adjusted?	oleu)			
3. Is it clear what	•	•	Yes		No 🗌					
14. Were all holdir (If no, notify cu	ng times able	to be met?	Yes		No 🗌	Checked by CMC 7	23/20			
Special Handl	ing (if app	licable)								
15. Was client no	tified of all di	screpancies with this order?	Yes		No 🗌	NA 🗹				
Person	Notified:		Date:							
By Who	m:		Via: 📋 eMa	ail 🛄 Phone	ə 📋 Fax	🗌 In Person				
Regardi	ng:	The state that the second state and state				na policie (1999) and a second and a second and a second				
Client Ir	structions:	2019				and over spectrum and a first of the Control of the				
16. Additional rer	narks:	······································	· · · · · · · · · · · · · · · · · · ·			<u></u> J				
17. <u>Cooler Infor</u>	mation									
Cooler No	Temp °C	Condition Seal Intact Se	al No Seal D	ate Sio	ned By					
4	3.4 ^{.0}	Good Yes			······································					

.

Page 1 of 1

Client:	ו-of-C	ustody Record	Turn-Around	Time:	SAMEDAY					xecety									
Client: Eng	olum.	LLC	- I □ Standard		SAME DAY 108%		Š	J									N I / \TO		(****
Ima			Project Nam	e:						ww.h									
🚆 Mailing Addre	ss: Lolue	S Rio Grande Suite A	Late	ral 2C-1	2 0		49	01 H	awkin							109			D: 3/
Aztec, N			Project #:	ee not	es				5-345			-	-		-4107				4/20
Phone #:											Analysis Request								
email or Fax#	Ksumm	ese ensolum, com	Project Mana	ager: KSu	nmis	1)	Ô				so4			∍nt)					20 . C Z
🔆 QA/QC Packag	e:			·		(8021)	/ MR	PCB's			PO4, S			Abse					54 A.
Standard		Level 4 (Full Validation)		Sampler: PDeechillus			8 2 2	\sim		SIMISU/ZR	» ۳			ent//					M
Accreditation: D NELAC	□ Az Co □ Othe	ompliance r	Sampler: 1	Sampler: <u>RDeechilly</u> On Ice: Byes INO			TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)		NO ₂ ,		-	Total Coliform (Present/Absent)					
						EF.	GR	ides	d 5(10 0 tale	ģ		Š	u.	Je				
					-0 ce 3.4 " (°C)	判	15D(estic	letho	y 83 8 Me	2 Z	₹	e ui	olifor	्रू				
			Container	Preservative	HEAL No.	BTEX / MERE	H:80	M P	≥ 8	PAHS BY 831U OF	Cl, F, Br, NO ₃ ,	8260 (VOA)	8270 (Semi-VOA)	alC	Chloride S				
Date Time	Matrix	Sample Name	Type and #	Туре	2007859	ВТ	ТР	80		₹ <u> </u>	2 0	82(827	Tot	\square	\square			
7/22/20 1130	S	S-13	1+402 501	Coal	-001	$\boldsymbol{\varkappa}$	×				_				\mathbf{X}				
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Data: Time -:	Dolinevia	and hur i	Dessived by:		Data Time														
Date: Time:	Relinquist	A Da La Da	Received by:	Via:	-1 i 1d69		narks		ĺ	>M-	- 70	2m	Lo	ng	(8	PR	-0D))	
Date: Time:	Relinquist	hed by:	Received by:	Via:	Date Time	ST	ME DA	Y)	ray Na	Xe	4-	RE	3ár	200	2			Page
-		-1. 1. Jack	トう		x 1/13/20 050		-	,	ſ	VON	MF		N	188	571				10 or
122/2020 If necess		britted to Hall Environmental may be sub	contracted to other a	- <u>COUUU</u> accredited laboratori	<u> </u>) s possi	bility.	Any su	b-contra	cted da	ta will b	e clear	rly nota	ated on	the an	alytical	I report.		



July 28, 2020

Kyle Summers Ensolum 606 S Rio Grande Ste 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

OrderNo.: 2007D08

Dear Kyle Summers:

RE: Lateral 2C 120

Hall Environmental Analysis Laboratory received 8 sample(s) on 7/25/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007D08

Date Reported: 7/28/2020

CLIENT: Ensolum		Cli	ient Sample II	D: S-1	14	
Project: Lateral 2C 120		(Collection Dat	e: 7/2	24/2020 12:00:00 PM	
Lab ID: 2007D08-001	Matrix: SOIL		Received Dat	e: 7/2	25/2020 7:55:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	59	mg/Kg	20	7/25/2020 7:38:00 PM	53953
EPA METHOD 8015D MOD: GAS	OLINE RANGE				Analyst	DJF
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	7/25/2020 11:36:54 AM	G70607
Surr: BFB	104	70-130	%Rec	1	7/25/2020 11:36:54 AM	G70607
EPA METHOD 8015M/D: DIESEL	RANGE ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/27/2020 10:03:04 AM	53962
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/27/2020 10:03:04 AM	53962
Surr: DNOP	96.3	55.1-146	%Rec	1	7/27/2020 10:03:04 AM	53962
EPA METHOD 8260B: VOLATILE	S SHORT LIST				Analyst	DJF
Benzene	ND	0.017	mg/Kg	1	7/25/2020 11:36:54 AM	SL70607
Toluene	ND	0.035	mg/Kg	1	7/25/2020 11:36:54 AM	SL70607
Ethylbenzene	ND	0.035	mg/Kg	1	7/25/2020 11:36:54 AM	SL70607
Xylenes, Total	ND	0.069	mg/Kg	1	7/25/2020 11:36:54 AM	SL70607
Surr: 1,2-Dichloroethane-d4	96.2	70-130	%Rec	1	7/25/2020 11:36:54 AM	SL70607
Surr: 4-Bromofluorobenzene	89.2	70-130	%Rec	1	7/25/2020 11:36:54 AM	SL70607
Surr: Dibromofluoromethane	106	70-130	%Rec	1	7/25/2020 11:36:54 AM	SL70607
Surr: Toluene-d8	105	70-130	%Rec	1	7/25/2020 11:36:54 AM	SL70607

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

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- PQL Practical Quanitative Limit
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- Е Value above quantitation range
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- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 13

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007D08

Date Reported: 7/28/2020

CLIENT: Ensolum		Cli	ient Sample II	D: S- 1	15	
Project: Lateral 2C 120		(Collection Date	e: 7/2	24/2020 12:05:00 PM	
Lab ID: 2007D08-002	Matrix: SOIL		Received Date	e: 7/2	25/2020 7:55:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	97	60	mg/Kg	20	7/25/2020 7:50:25 PM	53953
EPA METHOD 8015D MOD: GAS	OLINE RANGE				Analyst	DJF
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	7/25/2020 6:46:15 PM	G70607
Surr: BFB	95.2	70-130	%Rec	1	7/25/2020 6:46:15 PM	G70607
EPA METHOD 8015M/D: DIESEL	RANGE ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	38	9.7	mg/Kg	1	7/27/2020 10:27:00 AM	53962
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/27/2020 10:27:00 AM	53962
Surr: DNOP	94.9	55.1-146	%Rec	1	7/27/2020 10:27:00 AM	53962
EPA METHOD 8260B: VOLATILE	S SHORT LIST				Analyst	DJF
Benzene	ND	0.019	mg/Kg	1	7/25/2020 6:46:15 PM	SL70607
Toluene	ND	0.037	mg/Kg	1	7/25/2020 6:46:15 PM	SL70607
Ethylbenzene	ND	0.037	mg/Kg	1	7/25/2020 6:46:15 PM	SL70607
Xylenes, Total	ND	0.074	mg/Kg	1	7/25/2020 6:46:15 PM	SL70607
Surr: 1,2-Dichloroethane-d4	96.0	70-130	%Rec	1	7/25/2020 6:46:15 PM	SL70607
Surr: 4-Bromofluorobenzene	89.3	70-130	%Rec	1	7/25/2020 6:46:15 PM	SL70607
Surr: Dibromofluoromethane	95.5	70-130	%Rec	1	7/25/2020 6:46:15 PM	SL70607
Surr: Toluene-d8	95.4	70-130	%Rec	1	7/25/2020 6:46:15 PM	SL70607

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

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- PQL Practical Quanitative Limit
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- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007D08

Date Reported: 7/28/2020

CLIENT:	Ensolum		Cli	ient Sample II	D: S- 1	16	
Project:	Lateral 2C 120		(Collection Dat	e: 7/2	24/2020 12:10:00 PM	
Lab ID:	2007D08-003	Matrix: SOIL		Received Dat	e: 7/2	25/2020 7:55:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	CAS
Chloride		95	59	mg/Kg	20	7/25/2020 8:02:50 PM	53953
EPA MET	THOD 8015D MOD: GASOL	INE RANGE				Analyst	DJF
Gasoline	e Range Organics (GRO)	ND	3.7	mg/Kg	1	7/25/2020 12:34:02 PM	G70607
Surr: I	BFB	99.5	70-130	%Rec	1	7/25/2020 12:34:02 PM	G70607
EPA MET	THOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst	CLP
Diesel R	ange Organics (DRO)	ND	9.4	mg/Kg	1	7/27/2020 10:50:57 AM	53962
Motor Oi	il Range Organics (MRO)	ND	47	mg/Kg	1	7/27/2020 10:50:57 AM	53962
Surr: I	DNOP	95.2	55.1-146	%Rec	1	7/27/2020 10:50:57 AM	53962
EPA MET	THOD 8260B: VOLATILES	SHORT LIST				Analyst	DJF
Benzene	9	ND	0.019	mg/Kg	1	7/25/2020 12:34:02 PM	SL70607
Toluene		ND	0.037	mg/Kg	1	7/25/2020 12:34:02 PM	SL70607
Ethylben	izene	ND	0.037	mg/Kg	1	7/25/2020 12:34:02 PM	SL70607
Xylenes,	Total	ND	0.074	mg/Kg	1	7/25/2020 12:34:02 PM	SL70607
Surr:	1,2-Dichloroethane-d4	103	70-130	%Rec	1	7/25/2020 12:34:02 PM	SL70607
Surr: 4	4-Bromofluorobenzene	91.7	70-130	%Rec	1	7/25/2020 12:34:02 PM	SL70607
Surr: I	Dibromofluoromethane	105	70-130	%Rec	1	7/25/2020 12:34:02 PM	SL70607
Surr:	Toluene-d8	100	70-130	%Rec	1	7/25/2020 12:34:02 PM	SL70607

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007D08

Date Reported: 7/28/2020

CLIENT:	: Ensolum		Client Sample ID: S-17					
Project: Lateral 2C 120			Collection Date: 7/24/2020 12:15:00 PM					
Lab ID:	2007D08-004	Matrix: SOIL	L Received Date: 7/25/2020 7:55:00 AM					
Analyses	3	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analyst	CAS	
Chloride		120	60	mg/Kg	20	7/25/2020 8:15:15 PM	53953	
EPA ME	THOD 8015D MOD: GASOL	INE RANGE				Analyst	DJF	
Gasoline Range Organics (GRO)		ND	3.6	mg/Kg	1	7/25/2020 1:02:37 PM	G70607	
Surr: BFB		101	70-130	%Rec	1	7/25/2020 1:02:37 PM	G70607	
EPA ME	THOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst	CLP	
Diesel Range Organics (DRO)		ND	9.9	mg/Kg	1	7/27/2020 11:14:50 AM	53962	
Motor Oil Range Organics (MRO)		ND	49	mg/Kg	1	7/27/2020 11:14:50 AM	53962	
Surr: DNOP		94.5	55.1-146	%Rec	1	7/27/2020 11:14:50 AM	53962	
EPA ME	THOD 8260B: VOLATILES	SHORT LIST				Analyst	DJF	
Benzene	e	ND	0.018	mg/Kg	1	7/25/2020 1:02:37 PM	SL70607	
Toluene		ND	0.036	mg/Kg	1	7/25/2020 1:02:37 PM	SL70607	
Ethylbenzene		ND	0.036	mg/Kg	1	7/25/2020 1:02:37 PM	SL70607	
Xylenes, Total		ND	0.073	mg/Kg	1	7/25/2020 1:02:37 PM	SL70607	
Surr:	1,2-Dichloroethane-d4	106	70-130	%Rec	1	7/25/2020 1:02:37 PM	SL70607	
Surr:	4-Bromofluorobenzene	89.2	70-130	%Rec	1	7/25/2020 1:02:37 PM	SL70607	
Surr:	Dibromofluoromethane	105	70-130	%Rec	1	7/25/2020 1:02:37 PM	SL70607	
Surr:	Toluene-d8	101	70-130	%Rec	1	7/25/2020 1:02:37 PM	SL70607	

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007D08

Date Reported: 7/28/2020

CLIENT:	Ensolum		Cl	ient Sample II	D: S-1	18	
Project:	Lateral 2C 120		(Collection Dat	e: 7/2	4/2020 12:20:00 PM	
Lab ID:	2007D08-005	Matrix: SOIL					
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	CAS
Chloride		91	60	mg/Kg	20	7/25/2020 8:27:39 PM	53953
EPA MET	THOD 8015D MOD: GASOL	INE RANGE				Analyst	DJF
Gasoline	e Range Organics (GRO)	ND	3.6	mg/Kg	1	7/25/2020 1:31:13 PM	G70607
Surr: I	BFB	94.5	70-130	%Rec	1	7/25/2020 1:31:13 PM	G70607
EPA MET	THOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst	CLP
Diesel R	ange Organics (DRO)	ND	9.7	mg/Kg	1	7/27/2020 11:38:48 AM	53962
Motor Oi	I Range Organics (MRO)	ND	49	mg/Kg	1	7/27/2020 11:38:48 AM	53962
Surr: I	DNOP	94.9	55.1-146	%Rec	1	7/27/2020 11:38:48 AM	53962
EPA MET	THOD 8260B: VOLATILES	SHORT LIST				Analyst	DJF
Benzene)	ND	0.018	mg/Kg	1	7/25/2020 1:31:13 PM	SL70607
Toluene		ND	0.036	mg/Kg	1	7/25/2020 1:31:13 PM	SL70607
Ethylben	izene	ND	0.036	mg/Kg	1	7/25/2020 1:31:13 PM	SL70607
Xylenes,	Total	ND	0.072	mg/Kg	1	7/25/2020 1:31:13 PM	SL70607
Surr: 7	1,2-Dichloroethane-d4	96.1	70-130	%Rec	1	7/25/2020 1:31:13 PM	SL70607
Surr: 4	4-Bromofluorobenzene	88.3	70-130	%Rec	1	7/25/2020 1:31:13 PM	SL70607
Surr: I	Dibromofluoromethane	104	70-130	%Rec	1	7/25/2020 1:31:13 PM	SL70607
Surr:	Toluene-d8	98.9	70-130	%Rec	1	7/25/2020 1:31:13 PM	SL70607

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

Qualifiers:

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL Reporting Limit
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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007D08

Date Reported: 7/28/2020

CLIENT: Ensolum Project: Lateral 2C 120		Client Sample ID: S-19 Collection Date: 7/24/2020 12:25:00 PM								
Lab ID: 2007D08-006	Matrix: SOIL Received Date: 7/25/2020 7:55:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst:	CAS				
Chloride	70	61	mg/Kg	20	7/25/2020 8:40:03 PM	53953				
EPA METHOD 8015D MOD: GASOLIN	E RANGE				Analyst:	DJF				
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	7/25/2020 1:59:48 PM	G70607				
Surr: BFB	97.9	70-130	%Rec	1	7/25/2020 1:59:48 PM	G70607				
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst:	CLP				
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/27/2020 12:02:47 PM	53962				
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/27/2020 12:02:47 PM	53962				
Surr: DNOP	94.2	55.1-146	%Rec	1	7/27/2020 12:02:47 PM	53962				
EPA METHOD 8260B: VOLATILES SH	ORT LIST				Analyst:	DJF				
Benzene	ND	0.020	mg/Kg	1	7/25/2020 1:59:48 PM	SL70607				
Toluene	ND	0.039	mg/Kg	1	7/25/2020 1:59:48 PM	SL70607				
Ethylbenzene	ND	0.039	mg/Kg	1	7/25/2020 1:59:48 PM	SL70607				
Xylenes, Total	ND	0.078	mg/Kg	1	7/25/2020 1:59:48 PM	SL70607				
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	7/25/2020 1:59:48 PM	SL70607				
Surr: 4-Bromofluorobenzene	86.1	70-130	%Rec	1	7/25/2020 1:59:48 PM	SL70607				
Surr: Dibromofluoromethane	104	70-130	%Rec	1	7/25/2020 1:59:48 PM	SL70607				
Surr: Toluene-d8	102	70-130	%Rec	1	7/25/2020 1:59:48 PM	SL70607				

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007D08

Date Reported: 7/28/2020

CLIENT:	Ensolum		Cli	ient Sample II	D: S-2	20				
Project:	Lateral 2C 120		(Collection Dat	e: 7/2	24/2020 12:30:00 PM				
Lab ID:	2007D08-007	Matrix: SOIL		Received Date: 7/25/2020 7:55:00 AM						
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA MET	THOD 300.0: ANIONS					Analyst	CAS			
Chloride		98	60	mg/Kg	20	7/25/2020 8:52:28 PM	53953			
EPA MET	THOD 8015D MOD: GASOL	INE RANGE				Analyst:	DJF			
Gasoline	e Range Organics (GRO)	ND	4.4	mg/Kg	1	7/25/2020 2:28:28 PM	G70607			
Surr: E	BFB	99.5	70-130	%Rec	1	7/25/2020 2:28:28 PM	G70607			
ΕΡΑ ΜΕΤ	HOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst:	CLP			
Diesel R	ange Organics (DRO)	ND	9.6	mg/Kg	1	7/27/2020 12:26:47 PM	53962			
Motor Oi	I Range Organics (MRO)	ND	48	mg/Kg	1	7/27/2020 12:26:47 PM	53962			
Surr: [DNOP	93.8	55.1-146	%Rec	1	7/27/2020 12:26:47 PM	53962			
ΕΡΑ ΜΕΤ	HOD 8260B: VOLATILES	SHORT LIST				Analyst:	DJF			
Benzene)	ND	0.022	mg/Kg	1	7/25/2020 2:28:28 PM	SL70607			
Toluene		ND	0.044	mg/Kg	1	7/25/2020 2:28:28 PM	SL70607			
Ethylben	izene	ND	0.044	mg/Kg	1	7/25/2020 2:28:28 PM	SL70607			
Xylenes,	Total	ND	0.089	mg/Kg	1	7/25/2020 2:28:28 PM	SL70607			
Surr: 1	1,2-Dichloroethane-d4	100	70-130	%Rec	1	7/25/2020 2:28:28 PM	SL70607			
Surr: 4	4-Bromofluorobenzene	86.9	70-130	%Rec	1	7/25/2020 2:28:28 PM	SL70607			
Surr: [Dibromofluoromethane	108	70-130	%Rec	1	7/25/2020 2:28:28 PM	SL70607			
Surr: 7	Toluene-d8	105	70-130	%Rec	1	7/25/2020 2:28:28 PM	SL70607			

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007D08

Date Reported: 7/28/2020

CLIENT: 1	Ensolum						
				ient Sample II			
Project: 1	Lateral 2C 120		(Collection Dat	e: 7/2	24/2020 12:40:00 PM	
Lab ID: 2	2007D08-008	Matrix: SOIL					
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METH	HOD 300.0: ANIONS					Analyst	CAS
Chloride		71	60	mg/Kg	20	7/25/2020 9:04:52 PM	53953
EPA METH	HOD 8015D MOD: GASOLI	NE RANGE				Analyst	DJF
Gasoline F	Range Organics (GRO)	ND	4.1	mg/Kg	1	7/25/2020 2:57:09 PM	G70607
Surr: BF	FB	96.9	70-130	%Rec	1	7/25/2020 2:57:09 PM	G70607
EPA METH	HOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	CLP
Diesel Rar	nge Organics (DRO)	12	9.8	mg/Kg	1	7/27/2020 12:50:43 PM	53962
Motor Oil F	Range Organics (MRO)	ND	49	mg/Kg	1	7/27/2020 12:50:43 PM	53962
Surr: DN	NOP	93.6	55.1-146	%Rec	1	7/27/2020 12:50:43 PM	53962
EPA METH	HOD 8260B: VOLATILES S	HORT LIST				Analyst	DJF
Benzene		ND	0.021	mg/Kg	1	7/25/2020 2:57:09 PM	SL70607
Toluene		ND	0.041	mg/Kg	1	7/25/2020 2:57:09 PM	SL70607
Ethylbenze	ene	ND	0.041	mg/Kg	1	7/25/2020 2:57:09 PM	SL70607
Xylenes, T	Total	ND	0.082	mg/Kg	1	7/25/2020 2:57:09 PM	SL70607
Surr: 1,2	2-Dichloroethane-d4	99.1	70-130	%Rec	1	7/25/2020 2:57:09 PM	SL70607
Surr: 4-	Bromofluorobenzene	88.0	70-130	%Rec	1	7/25/2020 2:57:09 PM	SL70607
Surr: Di	bromofluoromethane	105	70-130	%Rec	1	7/25/2020 2:57:09 PM	SL70607
Surr: To	oluene-d8	99.4	70-130	%Rec	1	7/25/2020 2:57:09 PM	SL70607

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

Qualifiers:

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

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Ensolum Lateral 20										
Sample ID:	LCS-53953	SampTy	SampType: Ics TestCode: EPA Method 3						S		
Client ID:	LCSS	Batch	ID: 53	953	RunNo: 70611						
Prep Date:	7/25/2020	Analysis Da	ate: 7/	25/2020	SeqNo: 2456288			Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.3	90	110			
Sample ID:	MB-53953	SampTy	/pe: ml	olk	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	ID: 53	953	F	RunNo: 7(0611				
Prep Date:	7/25/2020	Analysis Da	ate: 7/	25/2020	SeqNo: 2456289			Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								

Qualifiers:

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

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

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2007D08

28-Jul-20

WO#:

QC SUMMARY REPORT Ha _

Page	78	of 84	
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Hall Envir	WO#:	2007D08 28-Jul-20	
Client: Project:	Ensolum Lateral 2C 120		

Sample ID: MB-53962	SampT	ype: ME	BLK	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	n ID: 53	962	RunNo: 70623							
Prep Date: 7/27/2020	Analysis D	ate: 7/	27/2020	S	eqNo: 24	457410	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	9.8		10.00		97.6	55.1	146				
Sample ID: LCS-53962	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: LCSS	Batch	n ID: 53	962	RunNo: 70623							
Prep Date: 7/27/2020	Analysis D	ate: 7/	27/2020	SeqNo: 2457411			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	47	10	50.00	0	94.4	70	130				
Surr: DNOP	4.5		5.000		89.2	55.1	146				
Sample ID: 2007D08-008AMS	SampT	ype: MS	6	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: SP-1	Batch	n ID: 53	962	R	unNo: 7(0623					
Prep Date: 7/27/2020	Analysis D	ate: 7/	27/2020	S	eqNo: 24	457438	Units: mg/K	íg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	53	9.2	45.79	11.81	90.8	47.4	136				
Surr: DNOP	4.0		4.579		87.6	55.1	146				
Sample ID: 2007D08-008AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics											
Sample ID: 2007D08-008AMS	D SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics		
Sample ID: 2007D08-008AMS Client ID: SP-1		ype: MS 1D: 53			tCode: EF		8015M/D: Die	esel Range	e Organics		
		n ID: 53	962	R		0623	8015M/D: Die Units: mg/K	-	e Organics		
Client ID: SP-1	Batch	n ID: 53	962 27/2020	R	tunNo: 7(SeqNo: 24	0623		-	e Organics RPDLimit	Qual	
Client ID: SP-1 Prep Date: 7/27/2020	Batch Analysis D	n ID: 53 Pate: 7/	962 27/2020	R	tunNo: 7(SeqNo: 24	0623 457439	Units: mg/K	ſg	-	Qual	

Qualifiers:

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

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

2007D08	WO#:
28-Jul-20	

Client: Ensolu Project: Lateral	m 2C 120										
Sample ID: mb1	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List		
Client ID: PBS		h ID: SL		F	RunNo: 70607						
Prep Date:		Analysis Date: 7/25/2020			SeqNo: 24		Units: mg/K	` a			
Flep Dale.	Analysis L		25/2020	· · · ·		400900	onits. Ing/h	y			
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: 1,2-Dichloroethane-d4	0.51		0.5000		102	70	130				
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.6	70	130				
Surr: Dibromofluoromethane	0.52		0.5000		105	70	130				
Surr: Toluene-d8	0.51		0.5000		102	70	130				
Sample ID: 100ng Ics	SampT	Гуре: LC	s	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List		
Client ID: LCSS	Batc	h ID: SL	70607	F	RunNo: 7	0607					
Prep Date:	Analysis E	Date: 7/	25/2020	S	SeqNo: 24	455904	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1	0.025	1.000	0	108	70	130				
Toluene	0.99	0.050	1.000	0	98.9	70	130				
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.4	70	130				
Surr: 4-Bromofluorobenzene	0.45		0.5000		89.6	70	130				
Surr: Dibromofluoromethane	0.47		0.5000		94.2	70	130				
Surr: Toluene-d8	0.50		0.5000		99.1	70	130				
Sample ID: 2007d08-002am	i s SampT	Гуре: МS	;	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List		
Client ID: S-15	Batc	h ID: SL	70607	F	RunNo: 7	0607					
Prep Date:	Analysis E	Date: 7/ 2	25/2020	ŝ	SeqNo: 24	455908	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.81	0.019	0.7418	0	109	67.9	137				
Toluene	0.76	0.037	0.7418	0	102	70	130				
Surr: 1,2-Dichloroethane-d4	0.39		0.3709		104	70	130				
Surr: 4-Bromofluorobenzene	0.35		0.3709		94.5	70	130				
Surr: Dibromofluoromethane	0.35		0.3709		94.0	70	130				
Surr: Toluene-d8	0.36		0.3709		97.8	70	130				
Sample ID: 2007d08-002am	isd SampT	Гуре: МS	D	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List		
Client ID: S-15		h ID: SL		F	RunNo: 7	0607					
Prep Date:	Analysis E				SeqNo: 24		Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val		LowLimit	HighLimit	- %RPD	RPDLimit	Qual	
Benzene	0.76	0.019	0.7418	0	102	67.9	137	6.40	20		
Toluene	0.74	0.037	0.7418	0	99.1	70	130	2.96	20		

Qualifiers:

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

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

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Ensolum **Project:** Lateral 2C 120

Sample ID: 2007d08-002amsc	d SampType: MSD Batch ID: SL70607			TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: S-15				RunNo: 70607						
Prep Date:	Analysis D	ate: 7/	25/2020	SeqNo: 2455909		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.37		0.3709		98.5	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.33		0.3709		90.0	70	130	0	0	
Surr: Dibromofluoromethane	0.34		0.3709		92.8	70	130	0	0	
Surr: Toluene-d8	0.37		0.3709		100	70	130	0	0	

Qualifiers:

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

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

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2007D08

28-Jul-20

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

	WO#:	2007D08	
ntal Analysis Laboratory, Inc.		28-Jul-20	

Client: Project:	Ensolum Lateral 2C	120									
Sample ID: mb1	mb1 SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: PBS	Batch ID: G70607			RunNo: 70607							
Prep Date:	A	Analysis Da	ite: 7/	25/2020	S	eqNo: 24	455935	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organi Surr: BFB	cs (GRO)	ND 500	5.0	500.0		101	70	130			
Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range											
Client ID: LCSS		Batch ID: G70607			F	RunNo: 70607					
Prep Date:	A	Analysis Date: 7/25/2020			SeqNo: 2455936			Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organi	cs (GRO)	21	5.0	25.00	0	82.2	70	130			
Surr: BFB		470		500.0		93.6	70	130			
Sample ID: 2007d	08-001ams	SampTy	ре: М	3	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: S-14		Batch	ID: G7	0607	RunNo: 70607						
Prep Date:	A	Analysis Da	ite: 7/	25/2020	S	eqNo: 24	455938	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organi	cs (GRO)	14	3.5	17.36	0	80.7	49.2	122			
Surr: BFB		350		347.2		100	70	130			
Sample ID: 2007d08-001amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range											
Client ID: S-14 Batch ID: G70607			RunNo: 70607								
Prep Date:	A	Analysis Date: 7/25/2020			SeqNo: 2455939			Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organi	cs (GRO)	13	3.5	17.36	0	77.8	49.2	122	3.69	20	
Surr: BFB		330		347.2		94.9	70	130	0	0	

Qualifiers:

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

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

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albu TEL: 505-345-3975 Website: clients.ha	4901 Ha uquerque, N FAX: 505-	wkins NE 1M 87109 345-4107	Sar	nple Log-In C	Check List
Client Name: ENSOLUM	Work Order Number:	2007D08			RcptNo	1
Received By: Emily Mocho 7	/25/2020 7:55:00 AM					
Completed By: Emily Mocho 7	/25/2020 8:00:47 AM					
Reviewed By: 2M 7/25/20						
Chain of Custody						
1. Is Chain of Custody complete?		Yes 🗹		No 🗌	Not Present	
2. How was the sample delivered?		<u>Courier</u>				
Log In 3. Was an attempt made to cool the samples?		Yes 🗹	I	No 🗌	NA 🗌	
4. Were all samples received at a temperature of	>0° € to 6 0°€	Yes 🗹		No 🗌	NA 🗌	
	-0 0 10 0.0 0	tes ⊻				
5. Sample(s) in proper container(s)?		Yes 🗹	I	No 🗌		
6. Sufficient sample volume for indicated test(s)?		Yes 🗹	٩	No 🗌		
7. Are samples (except VOA and ONG) properly p	reserved?	Yes 🗹	١	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	1	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4" fo	r AQ VOA?	Yes 🗌	١	No 🗌	NA 🗹	
0. Were any sample containers received broken?		Yes 🗆	I	No 🔽	# _ f	/
1.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	1	No 🗌	# of preserved bottles checked for pH:	12 unless noted)
2, Are matrices correctly identified on Chain of Cus	stodv?	Yes 🔽	٢	No 🗌	Adjusted	
3. Is it clear what analyses were requested?	······	Yes 🗹		No 🗌		
4. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	1	No 🗆	Checked by:	127/25
pecial Handling (if applicable)						
15. Was client notified of all discrepancies with this	order?	Yes 🗌		No 🗌	NA 🗹	
Person Notified:	Date:					
By Whom:	Via:] eMail	Phone	Fax	In Person	
Regarding:					1992 - Andrew G. (1993 - Talance and Anna and Anna an A	
Client Instructions:						
16. Additional remarks:						
· · · · · · · · · · · · · · · · · · ·	Intact Seal No S	Seal Date	Sign	ed By		
1 5.1 Good Yes						

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Chain-of-Custody Record	Turn-Around Time: SAME DAY HALL ENVIRONMENTAL							
Client: Ensolum, UC	□ Standard							
	Project Name:							
Mailing Address: 606 S. Pio Grande SuiteA	Lateral 2C-120	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109						
ActeCNIMSTUD	Project #: See notas	Tel. 505-345-3975 Fax 505-345-4107						
Phone #:		Analysis Request						
email or Fax#: KSUMMerspensolum.com	Project Manager: Ksummes	21) RO) so ant)						
QA/QC Package:		^(a) (8021) O / MRO) PCB's SIMS PO4, SO4 t/Absent)						
Section Standard Evel 4 (Full Validation)		[1] [1] [1] [1] [1] [1] [1] [1] [1] [1]						
Accreditation:	Sampler: RDecchilly	TMB 8082 8082 8082 8082 10 2, DR 827(
□ NELAC □ Other □ EDD (Type)	On Ice: ✓ Yes □ No # of Coolers: 1	718E / 7(GRO 310 or 50/ 1-VOA 1:-VOA 1:-VOA						
	Cooler Temp(including CF): 5.2-0.(=\$1. (°C)	TEX / MTBE / PH:8015D(GRO 881 Pesticides/8 0B (Method 504 AHs by 8310 or CRA 8 Metals CRA 8 Metals 560 (VOA) 10 (Semi-VOA) 10 (Semi-VOA) 10 (Pt 10 f) d (Semi-VOA) 10 f) d (Semi-VOA)						
		X / W 8015 8015 N / A 8 N A						
Date Time Matrix Sample Name	Container Preservative HEAL No. Type and # Type 2007D08	BTEX / MTBE / TMB*s (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent) Ch10r i de S						
7/24/20 1200 S S-14	1×402 Jar COO1 -001							
7/24/20 1205 3 5-15	1×402-Jer (001 -002	X X I I I I I I I I I I I I I I I I I I						
Haulzo 1210 S 5-16	1×402500 (001 -003							
HU1215 S 5-17	1×462 Jor COD1 -004	$\times \times$						
Finito 1220 S S-18	1 × 402 Jar (0) -065	\times \times						
7/20/225 5 5-19	1×402 Jor (001 -006	$\times \times$						
7/24/10/1230 S S-20	1×412 JUX COUL -007	\times \times						
7/24/20 1240 S SP-1	1×402501 (10) -008	$\times \mathbf{x} $						
, ,								
Date: Time: Relinguistied-by:		Remarks: SAMEDAY PM-Tom Long (EPROD) Parkey- RBa1200 Non AFE-N48871						
Date: Time: Relinguished by:	Received by: Via: Date Time							
Flan a 1751 Aret Labor	Win courier 7/28/20 7:55							
In 1970 1134 1134 William William William I for Hall Environmental may be si		possibility. Any sub-contracted data will be clearly notated on the analytical report.						

s. Kar

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	19645
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	4/26/2022

CONDITIONS

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Action 19645