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

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Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

REVIEWED

By Nelson Velez at 10:59 am, Jan 07, 2022

 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): NCS1923947897

 Contact mailing address: 614 Reilly Ave, Farmington, NM
 87401

Location of Release Source

Latitude 36.282835

_Longitude -107.351995

(NAD 83 in decimal degrees to 5 decimal places)

)

Site Name Lateral 2C-15 Pigging Receiver Sump	Site Type Natural Gas Gathering Pigging Receiver Sump
Date Release Discovered: 8/15/2019	Serial Number (if applicable): NA

ĺ	Unit Letter	Section	Township	Range	County
	K	27	24N	5W	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): 15-20 bbls	Volume Recovered (bbls): None
🛛 Natural Gas	Volume Released (Mcf): <1 MCF	Volume Recovered (Mcf): None
Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

Cause of Release: On August 15, 2019, Enterprise was cleaning the Lateral 2C-15 Pigging Receiver Sump and discovered that the sump had leaked. Enterprise began remediation of the release on August 16, 2019 and it was determined that the release was reportable per NMOCD regulation August 19, 2019, due to the volume of impacted subsurface soil. Approximately 3,094 cubic yards of hydrocarbon impacted soil were excavated and transported to a New Mexico Oil Conservation Division approved land farm facility. Additional remediation by excavating was terminated at the request of the Jicarilla Apache Environmental Protection Office and because of the hazardous work conditions associated with the excavation. In December 2019 and February 2020, site assessments were performed utilizing a hollow stem auger drilling rig. A total of nine (9) groundwater monitoring wells were installed. Additional subsurface soil and groundwater contamination was identified from the site assessment activities. A third party groundwater monitoring report is included with this C-141.

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	$\frac{\sim 23}{\text{bgs}}$ (ft
Did this release impact groundwater or surface water?	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	⊠ Yes □ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No ☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	
Are the lateral extents of the release overlying a subsurface mine?	Yes No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No
Die the release impact areas not on an exploration, development, production, or storage site.	□ Yes ⊠ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

- Field data
- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 11/18/2021 3:17 Form C-141	:28 PM			Page 3 of 48
			Incident ID	
Page 3 Oil Conservation Divisio	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
I hereby certify that the information gives regulations all operators are required to public health or the environment. The failed to adequately investigate and readdition, OCD acceptance of a C-141 and/or regulations. Printed Name: Thomas Long Signature:	o report and/or file certain release not e acceptance of a C-141 report by the mediate contamination that pose a thr report does not relieve the operator of	tifications and perform co OCD does not relieve the eat to groundwater, surfac	rrective actions for rele operator of liability sh ce water, human health iance with any other fe <u>mental Scientist</u>	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by:		Date:		

Remediation Plan

<u>Remediation Plan Checklist</u> : Each of the following items must b	e included in the plan.	
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 		
Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation.	
	roduction equipment where remediation could cause a major facility	
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.	
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.		
Printed Name: <u>Thomas Long</u>	Title: <u>Senior Environmental</u> <u>Scientist</u>	
Signature:	_ Date: <u>11/18/2021</u> Telephone: <u>505-599-2286</u>	
OCD Only		
Received by:	Date:	
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved	
Signature:	Date:	

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2020 GROUNDWATER MONITORING REPORT

Property:

Lateral 2C-15 Pigging Receiver Sump (8/15/19) SW ¼, Sec 27 T24N R5W Rio Arriba County, New Mexico

> February 23, 2021 Ensolum Project No. 05A1226105

> > Prepared for:

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

Prepared by:

Ranee Deechilly Environmental Scientist

umm

Kyle Summers Senior Project Manager



2020 GROUNDWATER MONITORING REPORT EXECUTIVE SUMMARY

This report documents the 2020 groundwater monitoring activities at the Lateral 2C-15 Pigging Receiver Sump (8/15/19) site, referred to hereinafter as the "Site".

The Site is located within the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way (ROW) the Southwest Quarter (1/4) of Section 27, Township 24 North, Range 5 West, in Rio Arriba County, New Mexico.

Following a release of natural gas condensate on August 15, 2019, Enterprise initiated excavation activities to identify and remediate potential hydrocarbon impact. Rule Engineering, LLC (Rule) collected confirmation soil samples and groundwater samples from the resulting excavation. Additionally, soil samples were collected from potholes that were advanced along the nearby wash. Samples collected from the excavation exhibited concentrations of constituents of concern (COCs) above the applicable New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) closure criteria in soils, and above the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs) in groundwater. The excavation was subsequently backfilled with imported fill. Petroleum hydrocarbon affected soil is still present at the Site.

During December 2019, Rule advanced five (5) soil borings at the Site, which were subsequently completed as groundwater monitoring wells (MW-1 through MW-5). Samples collected from the soil borings and monitoring wells exhibited concentrations of COCs above the applicable New Mexico EMNRD OCD closure criteria in soils, and above the New Mexico WQCC GQSs in groundwater.

During February 2020, Rule advanced four (4) additional soil borings and completed the borings as groundwater monitoring wells MW-6 through MW-9. Samples collected from the soil borings and monitoring wells exhibited concentrations of COCs above the applicable New Mexico EMNRD OCD closure criteria in soils, and above the New Mexico WQCC GQSs in groundwater.

Groundwater COC monitoring is ongoing at the Site.

Groundwater sampling events were conducted by Ensolum, LLC (Ensolum) during May 2020 and October 2020. These groundwater monitoring events were performed to further evaluate the concentrations of COCs in groundwater over time at the Site.

Findings based on these activities are as follows:

- At the time of the October 2020 groundwater sampling event, monitoring well MW-1 exhibited measurable non-aqueous phase liquid (NAPL) on the groundwater and was not sampled.
- The groundwater flow direction at the Site is generally towards the west-southwest, with an approximate gradient ranging from 0.0003 feet per foot (ft/ft) to 0.0014 ft/ft across the Site.
- The analytical results for the groundwater samples collected from monitoring wells MW-1 (during the May 2020), MW-3, MW-5, and MW-9 during the May 2020 and October 2020 sampling events indicate that benzene, toluene, and total xylenes concentrations are above the New Mexico WQCC GQSs. The analytical results for the groundwater samples collected from the remaining monitoring wells during the May 2020 and October 2020 do not indicate COC concentrations above the applicable WQCC GQSs.
- The results from the sampling events at the Site identify increasing COC concentrations at monitoring well MW-9, and NAPL is now present on the groundwater at monitoring well MW-1.



Ensolum offers the following recommendations:

- Report the groundwater monitoring results to the Jicarilla Apache Nation Environmental Protection Agency Office (JAN-EPO) and New Mexico EMNRD OCD.
- Increase the sampling frequency to quarterly groundwater monitoring as requested by the JAN-EPO.
- Perform additional site assessment activities to fully define the groundwater plume and potentially further define the source area soil impacts.
- Initiate NAPL removal activities at monitoring well MW-1.

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2020 GROUNDWATER MONITORING REPORT

1.0 INTRODUCTION

This report documents the 2020 groundwater monitoring activities at the Lateral 2C-15 Pigging Receiver Sump (8/15/19) site, referred to hereinafter as the "Site".

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)	
Site Name:	Lateral 2C-15 Pigging Receiver Sump (8/15/19)	
Incident ID	NCS1923947897	
Location:	36.282835° North, 107.351995° West Southwest Quarter (1/4) of Section 27, Township 24 North, Range 5 West Rio Arriba County, New Mexico	
Property:	Jicarilla Apache Nation	
Regulatory:	Jicarilla Apache Nation Environmental Protection Office (JAN-EPO)	

On August 15, 2019, natural gas condensate was released from the Enterprise Lateral 2C-15 pigging receiver sump. Subsequent to the completion of excavation activities and off-site disposal of hydrocarbon affected soils, confirmation soil samples and two (2) groundwater samples were collected from the excavation by Rule Engineering, LLC (Rule). In addition, four (4) soil samples were collected from shallow potholes advanced near the wash. Analytical results indicated COC concentration exceedances above the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) closure criteria for soils and the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQS) for groundwater. The excavation was then backfilled with unaffected soils (*Lateral 2C-15 Pigging Receiver Sump Corrective Action Report*, dated August 8, 2020 – Rule).

During December 2019, five (5) soil borings (SB-1 through SB-5) were advanced on-Site by Rule. Subsequent to advancement, the soil borings were completed as groundwater monitoring wells (MW-1 through MW-5). Analytical results from the soil and groundwater sampling activities indicated COC concentrations were present in soil (SB-1, immediately adjacent to the release and near the groundwater interface, and SB-3, near the groundwater interface) above the applicable New Mexico EMNRD OCD closure criteria and in groundwater (monitoring wells MW-1, MW-3, and MW-5) above the New Mexico WQCC GQSs (*Lateral 2C-15 Pigging Receiver Sump Corrective Action Report*, dated August 8, 2020 – Rule).

During February 2020, four (4) soil borings/monitoring wells (SB-6/MW-6, SB-7/MW-7, SB-8/MW-8, and SB-9/MW-9) were advanced by Rule to further delineate and evaluate the extent of COCs in soil and groundwater. Analytical results indicated COC exceedances above the New Mexico EMNRD OCD closure criteria for soil (SB-7/MW-7) and above the New Mexico WQCC GQSs for groundwater (SB-7/MW-7 and MW-9) (*Lateral 2C-15 Pigging Receiver Sump Corrective Action Report*, dated August 8, 2020 – Rule).

Operation of the remediation was transferred to Ensolum, LLC (Ensolum) during May 2020.

The Site is under the jurisdiction of the Jicarilla Apache Nation and is subject to regulatory oversight by the JAN-EPO. 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. Additionally, Ensolum utilized the New Mexico WQCC GQSs (NMAC 20.6.2 *Groundwater and Surface Water Protection*) to evaluate groundwater conditions. The New Mexico WQCC Groundwater Quality Standards include the following:

New Mexico WQCC Standards for Groundwater		
Constituent	Limit	
Benzene	5 µg/L	
Toluene	1,000 µg/L	
Ethylbenzene	700 μg/L	
Total Xylenes	600 μg/L	

The Site location is depicted on **Figure 1** of **Appendix A** which was reproduced from a portion of a United States Geological Survey (USGS) 7.5-minute series topographic map. A **Site Vicinity Map**, created from an aerial photograph, is provided as **Figure 2**, and a **Site Map**, which indicates the approximate locations of the monitoring wells and previous soil boring and sample locations in relation to pertinent structures and general Site boundaries, is included as **Figure 3** of **Appendix A**.

1.2 **Project Objective**

The objective of the groundwater monitoring events was to further evaluate the concentrations of COCs in groundwater at the Site.

2.0 GROUNDWATER MONITORING

2.1 Groundwater Sampling Program

Groundwater sampling events were conducted during May 2020 and October 2020 by Ensolum. Ensolum's groundwater sampling program consisted of the collection of one (1) groundwater sample from each of the viable monitoring wells at the Site.

Ensolum's groundwater sampling program consisted of the following:

- Prior to sample collection, Ensolum gauged the depth to fluids in each monitoring well using an interface probe capable of detecting non-aqueous phase liquids (NAPL). During the May 2020 sampling event, a malfunction with the interface probe occurred which resulted in inaccurate gauging data. The Site was re-gauged during August 2020. During the October 2020 sampling event, monitoring well MW-1 exhibited a measurable thickness of NAPL and was not sampled.
- Each viable two (2) inch diameter monitoring well was sampled utilizing micro-purge low-flow sampling techniques. Following the completion of the micro-purge process, one (1) groundwater sample was collected from each viable monitoring well.
- Low-flow or low-stress sampling refers to sampling methods that are intended to minimize the stress that is imparted to the formation pore water in the vicinity of the well screen. Water level drawdown provides the best indication of the stress that is imparted by a given flow rate for a given hydrological situation. Pumping rates of 0.1 to 0.5 liters per minute (L/min) are typically maintained during the low-flow/low-stress sampling activities, using dedicated or decontaminated sampling equipment.
- During low-flow sampling, the groundwater samples are collected from each monitoring well once produced groundwater is consistent in color, clarity, pH, temperature, and conductivity.





Measurements are typically observed every three to five minutes while purging. Purging is considered complete once key parameters (especially pH and conductivity) have stabilized for at least three (3) consecutive readings.

 Groundwater samples were collected in laboratory-supplied containers (pre-preserved with mercuric chloride (HgCl₂)), labeled and sealed using the laboratory supplied labels and custody seals, and stored on ice in a cooler. The groundwater samples were relinquished to the courier for Hall Environmental Analysis Laboratory (HEAL) of Albuquerque, New Mexico under proper chainof-custody procedures.

2.2 Groundwater Laboratory Analytical Methods

The groundwater samples collected from the monitoring wells during the two (2) sampling events were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) utilizing Environmental Protection Agency (EPA) method SW-846 #8021/8260.

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

2.3 Groundwater Flow Direction

Each monitoring well has been geospatially surveyed to determine the top-of-casing (TOC) elevation. Prior to sample collection, Ensolum gauged the depth to fluids in each monitoring well. The groundwater flow direction at the Site is generally toward the west-southwest. The observed gradient during the August and October 2020 monitoring events ranged from approximately 0.0003 feet per foot (ft/ft) to 0.0014 ft/ft across the Site.

Groundwater elevation data collected during the August and October 2020 gauging events are presented in **Table 2** (**Appendix B**). Groundwater gradient maps for the two (2) gauging events are included as **Figure 4A** and **4B** (**Appendix A**).

2.4 Data Evaluation

Ensolum compared the BTEX laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the groundwater samples collected from monitoring wells during the May and October 2020 groundwater sampling events to the New Mexico WQCC GQSs. The results of the analyses are summarized in **Table 1** of **Appendix B**. Groundwater Quality Standard Exceedance Zone maps are provided as **Figures 5A** and **5B** of **Appendix A**.

<u>May 2020</u>

The May 2020 analytical results for monitoring wells MW-1, MW-3, MW-5, and MW-9 indicate benzene concentrations ranging from 110 micrograms per liter (μ g/L) (MW-5) to 1,600 μ g/L (MW-1), which exceed the WQCC GQS of 5 μ g/L. The analytical results for the remaining monitoring wells do not indicate benzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 5 μ g/L.

The May 2020 analytical result for monitoring well MW-1 indicates a toluene concentration of 9,000 μ g/L, which exceeds the WQCC GQS of 1,000 μ g/L. The analytical result for monitoring well MW-9 indicates a toluene concentration of 72 μ g/L, which is below the WQCC GQS of 1,000 μ g/L. The analytical results for the remaining monitoring wells do not indicate toluene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 1,000 μ g/L.

The May 2020 analytical results for monitoring wells MW-1, MW-3, MW-5, and MW-9 indicate ethylbenzene concentrations ranging from 21 μ g/L (MW-5) to 300 μ g/L (MW-1), which are below the WQCC GQS of 700





 μ g/L. The analytical results for the remaining monitoring wells do not indicate ethylbenzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 700 μ g/L.

The May 2020 analytical result for monitoring well MW-1 indicates a total xylene concentration of 5,100 μ g/L, which exceeds the WQCC GQS of 620 μ g/L. The analytical results for monitoring wells MW-2 and MW-9 indicate total xylene concentrations of 1.7 μ g/L and 320 μ g/L, respectively, which are below the WQCC GQS of 620 μ g/L. The analytical results for the remaining monitoring wells do not indicate total xylenes concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 620 μ g/L.

	Data Qualifier Flags										
Sample ID	Data Qualifier Flag	Comments/Reactions									
MW-3 (collected 5/28/2020)	Sample Diluted Due to Matrix.	The sample was diluted due to matrix interference. The results are usable for the intended purpose.									
MW-5 (collected 5/28/2020)	Sample Diluted Due to Matrix.	The sample was diluted due to matrix interference. The results are usable for the intended purpose.									

October 2020

Due to the presence of NAPL hydrocarbons in association with the initial groundwater-bearing unit, monitoring well MW-1 was not sampled and is not part of the following discussion.

The October 2020 analytical results for monitoring wells MW-3, MW-5, and MW-9 indicate benzene concentrations ranging from 110 μ g/L (MW-5) to 1,100 μ g/L (MW-9), which exceed the WQCC GQS of 5 μ g/L. The analytical results for the remaining monitoring wells do not indicate benzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 5 μ g/L.

The October 2020 analytical result for monitoring well MW-9 indicates a toluene concentration of 1,000 μ g/L, which exceeds the WQCC GQS of 1,000 μ g/L. The analytical results for the remaining monitoring wells do not indicate toluene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 1,000 μ g/L.

The October 2020 analytical results for monitoring wells MW-3, MW-4, MW-5, MW-7, and MW-9 indicate ethylbenzene concentrations ranging from 1.1 μ g/L (MW-7) to 110 μ g/L (MW-9), which are below the WQCC GQS of 700 μ g/L. The analytical results for the remaining monitoring wells do not indicate ethylbenzene concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 700 μ g/L.

The October 2020 analytical result for monitoring well MW-9 indicates a total xylene concentration of 660 μ g/L, which exceeds the WQCC GQS of 620 μ g/L. The analytical results for monitoring wells MW-2, MW-5, and MW-7 indicate total xylene concentrations ranging from 19 μ g/L (MW-7) to 63 μ g/L (MW-2), respectively, which are below the WQCC GQS of 620 μ g/L. The analytical results for the remaining monitoring wells do not indicate total xylenes concentrations above the laboratory PQLs/RLs, which are below the WQCC GQS of 620 μ g/L.

No data qualifier flags are associated with the October 2020 analytical results.

2020 Groundwater Monitoring Report Enterprise Field Services, LLC Lateral 2C-15 Pigging Receiver (8/15/19) February 23, 2021



3.0 FINDINGS

Based on the evaluation of the analytical results from the May and October 2020 groundwater sampling events, Ensolum presents the following findings:

- At the time of the October 2020 groundwater sampling event, monitoring well MW-1 exhibited measurable NAPL on the groundwater and was not sampled.
- The groundwater flow direction at the Site is generally towards the west-southwest, with an approximate gradient ranging from 0.0003 ft/ft to 0.0014 ft/ft across the Site.
- The analytical results for the groundwater samples collected from monitoring wells MW-1 (during the May 2020), MW-3, MW-5, and MW-9 during the May 2020 and October 2020 sampling events indicate that benzene, toluene, and total xylenes concentrations are above the New Mexico WQCC GQSs. The analytical results for the groundwater samples collected from the remaining monitoring wells during the May 2020 and October 2020 do not indicate COC concentrations above the applicable WQCC GQSs.
- The results from the sampling events at the Site identify increasing COC concentrations at monitoring well MW-9, and NAPL is now present on the groundwater at monitoring well MW-1.

4.0 **RECOMMENDATIONS**

Based on the results of groundwater monitoring activities, Ensolum has the following recommendations:

- Report the groundwater monitoring results to the JAN-EPO and New Mexico EMNRD OCD.
- Increase the sampling frequency to quarterly groundwater monitoring as requested by the JAN-EPO.
- Perform additional site assessment activities to fully define the groundwater plume and potentially further define the source area soil impacts.
- Initiate NAPL removal activities at monitoring well MW-1.

5.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

5.1 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). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

5.2 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

2020 Groundwater Monitoring Report Enterprise Field Services, LLC Lateral 2C-15 Pigging Receiver (8/15/19) February 23, 2021





substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendations are based solely upon data available to Ensolum at the time of these services.

5.3 Reliance

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



APPENDIX A

Figures

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APPENDIX B

Tables

ENSOLUM

TABLE 1 Lateral 2C-15 Pigging Receiver Sump (8/15/19) GROUNDWATER ANALYTICAL SUMMARY										
Sample I.D.	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes					
		(μg/L)	(µg/L)	(µg/L)	(µg/L)					
Comn	ter Quality Control mission Quality Standards	5	1,000	700	620					
Monitoring Wells Installed by Rule Engineering, LLC										
	12.20.19	900	3,100	150	2,000					
MW-1	5.28.20	1,600	9,000	300	5,100					
	10.15.20		N	APL						
	12.21.19	<2.0	<2.0	<2.0	390					
MW-2	5.28.20	<1.0	<1.0	<1.0	1.7					
	10.15.20	<1.0	<1.0	<1.0	63					
	12.22.19	1,200	130	180	870					
MW-3	5.28.20	460	<25	56	<50					
	10.15.20	480	<5.0	60	<7.5					
	12.23.19	3.3	1.2	4.4	3.0					
MW-4	5.28.20	<1.0	<1.0	<1.0	<1.5					
	10.15.20	1.1	<1.0	3.0	<1.5					
	12.24.19	270	9.7	56	530					
MW-5	5.28.20	110	<10	21	<15					
	10.15.20	110	<5.0	16	45					
	3.05.20	<1.0	<1.0	<1.0	<2.0					
MW-6	5.28.20	<1.0	<1.0	<1.0	<1.5					
	10.15.20	<1.0	<1.0	<1.0	<1.5					
	3.05.20	2.9	19	48	750					
MW-7	5.28.20	<1.0	<1.0	<1.0	<1.5					
	10.15.20	<1.0	<1.0	1.1	19					
	3.05.20	<1.0	<1.0	<1.0	<2.0					
MW-8	5.28.20	<1.0	<1.0	<1.0	<1.5					
	10.15.20	<1.0	<1.0	<1.0	<1.5					
	3.05.20	490	860	65	680					
MW-9	5.28.20	900	72	65	320					
	10.15.20	1,100	1,000	110	660					

Monitoring wells were sampled by Ensolum, LLC beginning May 2020

NA = Not Analyzed

NE = Not Established

NAPL = Non-Aqueous Phase Liquid

µg/L = microgram per liter

<1.0 = the numeral (in this case "1.0") identifies the laboratory PQL or RL

ENSOLUM

	TABLE 2 Lateral 2C-15 Pigging Receiver Sump (8/15/19) GROUNDWATER ELEVATIONS										
Well I.D.	Date	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness	Total Well Depth Below Top of Casing (feet)	Screen Interval Below Top of Casing (feet)	TOC Elevations (feet AMSL)	Groundwater Elevation* (feet AMSL)			
MW-1	5.28.20 8.18.20 10.14.20	ND 24.52 24.56	24.32 24.83 24.76	ND 0.31 0.20	30	15-30	6599.87 6599.87 6599.87	6575.55 6575.30 6575.28			
MW-2	5.28.20 8.18.20 10.14.20	ND ND ND	24.76 26.71 26.91 26.91	ND ND ND	32.65	17.65-32.65	6602.17 6602.17 6602.17 6602.17	6575.28 6575.46 6575.26 6575.26			
MW-3	5.28.20 8.18.20 10.14.20	ND ND ND	26.20 26.39 26.37	ND ND ND	32.67	17.67-32.67	6601.65 6601.65 6601.65	6575.45 6575.26 6575.28			
MW-4	5.28.20 8.18.20 10.14.20	ND ND ND	25.17 25.36 25.36	ND ND ND	32.27	17.27-32.27	6600.64 6600.64 6600.64	6575.47 6575.28 6575.28			
MW-5	5.28.20 8.18.20 10.14.20	ND ND ND	25.24 25.44 25.44	ND ND ND	32.76	17.76-32.76	6600.71 6600.71 6600.71	6575.47 6575.27 6575.27			
MW-6	5.28.20 8.18.20 10.14.20	ND ND ND	25.61 25.80 25.96	ND ND ND	28.53	13.53-28.53	6601.06 6601.06 6601.06	6575.45 6575.26 6575.10			
MW-7	5.28.20 8.18.20 10.14.20	ND ND ND	24.37 24.57 24.90	ND ND ND	28.94	13.94-28.94	6599.83 6599.83 6599.83	6575.46 6575.26 6574.93			
MW-8	5.28.20 8.18.20 10.14.20	ND ND ND	23.55 23.74 23.76	ND ND ND	29.02	14.02-29.02	6599.02 6599.02 6599.02	6575.47 6575.28 6575.26			
MW-9	5.28.20 8.18.20 10.14.20	ND ND ND	26.15 26.33 26.34	ND ND ND	31	16-31	6601.63 6601.63 6601.63	6575.48 6575.30 6575.29			

Notes:

* - corrected for presence of phase-sepated hydrocarbon using an estimated product specific gravity of 0.825

The monitoring wells were surveyed on July 30, 2020

BTOC - Below Top of Casing

AMSL - Above Mean Sea Level

TOC - Top of Casing



APPENDIX C

Laboratory Data Sheets & Chain of Custody Documentation

Released to Imaging: 1/7/2022 11:14:43 AM



June 09, 2020

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

OrderNo.: 2005C39

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

RE: Lateral 2C 15

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 9 sample(s) on 5/29/2020 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

Received by	• OCD :	11/18/2021	3:17:28 PM
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Hall Enviro	nmental Analysis Lab	ooratory,	Inc.			L	Analytical Report ab Order: 2005C3 Date Reported: 6/9,	9	
CLIENT: Project:	ENSOLUM Lateral 2C 15				L	ab O	Order: 2005	C39	
Lab ID:	2005C39-001		С	ollecti	on Date	: 5/2	28/2020 2:10:00 P	M	
Client Sample ID): MW-1				Matrix	: AQ	QUEOUS		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	atch ID
EPA METHOD 8	260: VOLATILES SHORT LIST						An	alyst	RAA
Benzene		1600	50		µg/L	50	6/1/2020 3:28:00	PM	SL6939
Toluene		9000	500		µg/L	500	0 6/5/2020 2:31:00	PM	SL6941
Ethylbenzene		300	50		µg/L	50	6/1/2020 3:28:00	PM	SL6939
Xylenes, Total		5100	75		µg/L	50	6/1/2020 3:28:00	PM	SL6939
Surr: 1,2-Dichl		86.4	70-130		%Rec	50	6/1/2020 3:28:00		SL6939
Surr: Dibromot		93.1	70-130		%Rec	50	6/1/2020 3:28:00		SL6939
Surr: Toluene-	d8	109	70-130		%Rec	50	6/1/2020 3:28:00	PM	SL6939
Lab ID:	2005C39-002		С	ollecti	on Date	: 5/2	28/2020 12:00:00	PM	
Client Sample ID): MW-2				Matrix	: AQ	QUEOUS		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	atch ID
EPA METHOD 8	260: VOLATILES SHORT LIST						An	alyst	RAA
Benzene		ND	1.0		µg/L	1	6/1/2020 4:39:00	-	SL6939
Toluene		ND	1.0		µg/L	1	6/1/2020 4:39:00	PM	SL6939
Ethylbenzene		ND	1.0		μg/L	1	6/1/2020 4:39:00	PM	SL6939
Xylenes, Total		1.7	1.5		µg/L	1	6/1/2020 4:39:00	PM	SL6939
Surr: 1,2-Dichl	loroethane-d4	83.9	70-130		%Rec	1	6/1/2020 4:39:00	PM	SL6939
Surr: Dibromot	fluoromethane	93.1	70-130		%Rec	1	6/1/2020 4:39:00	PM	SL6939
Surr: Toluene-	d8	107	70-130		%Rec	1	6/1/2020 4:39:00	PM	SL6939
Lab ID:	2005C39-003		С	ollecti	on Date	: 5/2	28/2020 12:50:00	PM	
Client Sample ID	D: MW-3				Matrix	: AQ	QUEOUS		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	atch ID
EPA METHOD 8	260: VOLATILES SHORT LIST						An	alyst	RAA
Benzene		460	25	D	µg/L	50	6/1/2020 5:02:00	-	SL6939
Toluene		ND	_=° 25	D	µg/L	50	6/1/2020 5:02:00		SL6939
Ethylbenzene		56	25	D	µg/L	50	6/1/2020 5:02:00		SL6939
Xylenes, Total		ND	50	D	µg/L	50	6/1/2020 5:02:00		SL6939
Surr: 1,2-Dichl	loroethane-d4	86.8	70-130	D	%Rec	50	6/1/2020 5:02:00		SL6939
Surr: Dibromot	fluoromethane	94.3	70-130	D	%Rec	50	6/1/2020 5:02:00	PM	SL6939
Surr: Toluene-	d8	106	70-130	D	%Rec	50	6/1/2020 5:02:00	PM	SL6939

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

Qualifiers:

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

Value exceeds Maximum Contaminant Level.

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

Analyte detected below quantitation limits J

Sample pH Not In Range Р RL Reporting Limit

Page 1 of 5

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Hall Environ	mental Analysis Lab	oratory,	Inc.			L	Analytical Report Lab Order: 2005C39 Date Reported: 6/9/2	2020
	ENSOLUM Lateral 2C 15				L	ab C	Order: 20050	239
Lab ID:	2005C39-004		С	ollecti	on Date	: 5/2	28/2020 10:00:00 A	AM
Client Sample ID:	MW-4				Matrix	: A(QUEOUS	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 826	60: VOLATILES SHORT LIST						Ana	alyst: RAA
Benzene		ND	1.0		µg/L	1	6/1/2020 5:26:00 P	M SL6939
Toluene		ND	1.0		μg/L	1	6/1/2020 5:26:00 P	M SL6939
Ethylbenzene		ND	1.0		µg/L	1	6/1/2020 5:26:00 P	M SL6939
Xylenes, Total		ND	1.5		µg/L	1	6/1/2020 5:26:00 P	M SL6939
Surr: 1,2-Dichlor	oethane-d4	87.3	70-130		%Rec	1	6/1/2020 5:26:00 P	M SL6939
Surr: Dibromoflu	oromethane	91.7	70-130		%Rec	1	6/1/2020 5:26:00 P	M SL6939
Surr: Toluene-d8	}	107	70-130		%Rec	1	6/1/2020 5:26:00 P	M SL6939
Lab ID:	2005C39-005		С	ollecti	on Date	: 5/2	28/2020 11:20:00 A	AM
Client Sample ID:	MW-5				Matrix	: A(QUEOUS	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 826	60: VOLATILES SHORT LIST						Ana	alyst: RAA
Benzene		110	10	D	µg/L	10	6/1/2020 5:49:00 P	M SL6939
Toluene		ND	10	D	μg/L	10	6/1/2020 5:49:00 P	M SL6939
Ethylbenzene		21	10	D	µg/L	10	6/1/2020 5:49:00 P	M SL6939
Xylenes, Total		ND	15	D	µg/L	10	6/1/2020 5:49:00 P	M SL6939
Surr: 1,2-Dichlor	oethane-d4	86.8	70-130	D	%Rec	10	6/1/2020 5:49:00 P	M SL6939
Surr: Dibromoflu	oromethane	94.0	70-130	D	%Rec	10	6/1/2020 5:49:00 P	M SL6939
Surr: Toluene-d8	}	105	70-130	D	%Rec	10	6/1/2020 5:49:00 P	M SL6939
Lab ID:	2005C39-006		C	ollecti	on Date	: 5/2	28/2020 9:20:00 Al	М
Client Sample ID:	MW-6				Matrix	: A(QUEOUS	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 826	60: VOLATILES SHORT LIST						Ana	alyst: RAA
Benzene		ND	1.0		µg/L	1	6/1/2020 6:13:00 P	-
Toluene		ND	1.0		μg/L	1	6/1/2020 6:13:00 P	
Ethylbenzene		ND	1.0		μg/L	1	6/1/2020 6:13:00 P	M SL6939
Xylenes, Total		ND	1.5		µg/L	1	6/1/2020 6:13:00 P	
Surr: 1,2-Dichlor	oethane-d4	86.0	70-130		%Rec	1	6/1/2020 6:13:00 P	M SL6939
Surr: Dibromoflu	oromethane	91.5	70-130		%Rec	1	6/1/2020 6:13:00 P	M SL6939
Surr: Toluene-d8	3	107	70-130		%Rec	1	6/1/2020 6:13:00 P	M SL6939

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

Qualifiers:

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

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

RL Reporting Limit

Page 2 of 5

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Hall Envir	onmental Analysis I	aboratory,	Inc.			L	Analytical Report Lab Order: 2005C39 Date Reported: 6/9/2	2020
CLIENT: Project:	ENSOLUM Lateral 2C 15				L	.ab C	Order: 2005C	239
Lab ID:	2005C39-007		С	ollecti	on Date	: 5/2	28/2020 10:40:00 A	M
Client Sample	ID: MW-7				Matrix	: A(QUEOUS	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
	8260: VOLATILES SHORT L	.IST					Ana	lyst: RAA
Benzene		ND	1.0		µg/L	1	6/1/2020 6:36:00 P	M SL6939
Toluene		ND	1.0		μg/L	1	6/1/2020 6:36:00 P	M SL6939
Ethylbenzene		ND	1.0		μg/L	1	6/1/2020 6:36:00 P	M SL6939
Xylenes, Total		ND	1.5		µg/L	1	6/1/2020 6:36:00 P	M SL6939
Surr: 1,2-Di	chloroethane-d4	85.7	70-130		%Rec	1	6/1/2020 6:36:00 P	M SL6939
Surr: Dibror	nofluoromethane	94.6	70-130		%Rec	1	6/1/2020 6:36:00 P	M SL6939
Surr: Toluer	ne-d8	108	70-130		%Rec	1	6/1/2020 6:36:00 P	M SL6939
Lab ID:	2005C39-008		С	ollecti	on Date	: 5/2	28/2020 8:45:00 Al	M
Client Sample	ID: MW-8				Matrix	: A(QUEOUS	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD	8260: VOLATILES SHORT L	IST					Ana	lyst: RAA
Benzene		ND	1.0		µg/L	1	6/1/2020 7:00:00 P	M SL6939
Toluene		ND	1.0		µg/L	1	6/1/2020 7:00:00 P	
Ethylbenzene		ND	1.0		µg/L	1	6/1/2020 7:00:00 P	
Xylenes, Total		ND	1.5		µg/L	1	6/1/2020 7:00:00 P	
	chloroethane-d4	82.2	70-130		%Rec	1	6/1/2020 7:00:00 P	
Surr: Dibror	nofluoromethane	91.4	70-130		%Rec	1	6/1/2020 7:00:00 P	
Surr: Toluer	ne-d8	108	70-130		%Rec	1	6/1/2020 7:00:00 P	M SL6939
Lab ID:	2005C39-009		C	ollecti	on Date	e: 5/2	28/2020 1:30:00 PN	Л
Client Sample	ID: MW-9				Matrix	: A(QUEOUS	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD	8260: VOLATILES SHORT L	IST					Ana	lyst: CCM
Benzene		900	10		µg/L	10	6/5/2020 3:19:00 P	-
Toluene		72	10		µg/L	10	6/5/2020 3:19:00 P	
Ethylbenzene		65	10		µg/L	10	6/5/2020 3:19:00 P	
Xylenes, Total		320	15		µg/L	10	6/5/2020 3:19:00 P	
•	chloroethane-d4	90.5	70-130		^{µg/∟} %Rec	10	6/5/2020 3:19:00 P	
	nofluoromethane	100	70-130		%Rec	10	6/5/2020 3:19:00 P	
Surr: Toluer		107	70-130		%Rec	10		

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

Qualifiers:

Value exceeds Maximum Contaminant Level. в

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix s

Analyte detected in the associated Method Blank Е

Value above quantitation range

Analyte detected below quantitation limits J Sample pH Not In Range

Р RL Reporting Limit

Page 3 of 5

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 2005C39

09-Jun-20

	ENSOLU										
Project: L	ateral 20	2 15									
Sample ID: 100ng Ics	8	SampT	Type: LC	S	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist	
Client ID: LCSW		Batc	h ID: SL	69396	F	RunNo: 6	9396				
Prep Date:		Analysis E	Date: 6/	1/2020	S	SeqNo: 2	406794	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		18	1.0	20.00	0	89.4	70	130			Quui
Toluene		21	1.0	20.00	0	107	70	130			
Surr: 1.2-Dichloroethane-	-d4	8.6		10.00	-	85.5	70	130			
Surr: 4-Bromofluorobenzo		9.4		10.00		94.1	70	130			
Surr: Dibromofluorometha		9.3		10.00		92.9	70	130			
Surr: Toluene-d8		11		10.00		107	70	130			
Sample ID: MB		SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260: Volatile	es Short L	ist	
Client ID: PBW		Batc	h ID: SL	69396	F	RunNo: 6	9396				
Prep Date:		Analysis E	Date: 6/	1/2020	S	SeqNo: 2	406795	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	1.0								
Toluene		ND	1.0								
Ethylbenzene		ND	1.0								
Xylenes, Total		ND	1.5								
Surr: 1,2-Dichloroethane-	-d4	8.5		10.00		85.3	70	130			
Surr: 4-Bromofluorobenze	ene	9.6		10.00		96.3	70	130			
Surr: Dibromofluorometha	ane	9.3		10.00		93.2	70	130			
Surr: Toluene-d8		11		10.00		105	70	130			
Sample ID: 2005C39-	-001ams	SampT	Гуре: МS	6	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist	
Client ID: MW-1		Batc	h ID: SL	69396	F	RunNo: 6	9396				
Prep Date:		Analysis D	Date: 6/	1/2020	S	SeqNo: 2	406797	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		2500	50	1000	1566	89.4	70	130			
Toluene		8400	50	1000	7431	95.9	70	130			Е
Surr: 1,2-Dichloroethane-	-d4	440		500.0		87.5	70	130			
Surr: 4-Bromofluorobenze	ene	470		500.0		93.1	70	130			
Surr: Dibromofluorometha	ane	460		500.0		91.7	70	130			
Surr: Toluene-d8		550		500.0		110	70	130			
Sample ID: 2005C39-	-001amsd	Samp	Гуре: М S	SD	Tes	tCode: El	PA Method	8260: Volatile	es Short L	ist	
Client ID: MW-1		Batc	h ID: SL	69396	F	RunNo: 6	9396				
Prep Date:		Analysis E	Date: 6/	1/2020	S	SeqNo: 2	406798	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		2400	50	1000	1566	82.6	70	130	2.78	20	
Toluene		8100	50	1000	7431	62.5	70	130	4.07	20	ES
Auglifiars:											

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

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 5

B Analyte detected in the associated Method Blank

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2005C39

09-Jun-20

Client:ENSOLUProject:Lateral 20										
Sample ID: 2005C39-001amso	d SampT	ype: MS	SD.	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist	
Client ID: MW-1	Batch	n ID: SL	69396	F	RunNo: 6	9396				
Prep Date:	Analysis D)ate: 6/	1/2020	S	SeqNo: 2	406798	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	430		500.0		86.7	70	130	0	0	
Surr: 4-Bromofluorobenzene	480		500.0		95.2	70	130	0	0	
Surr: Dibromofluoromethane	460		500.0		92.9	70	130	0	0	
Surr: Toluene-d8	540		500.0		108	70	130	0	0	
Sample ID: mb	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist	
Client ID: PBW	Batch	n ID: SL	69410	410 RunNo: 69410						
Prep Date:	Analysis D	Date: 6/	5/2020	S	SeqNo: 2	408569	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.6		10.00		86.4	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		94.0	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.0	70	130			
Surr: Toluene-d8	11		10.00		107	70	130			
Sample ID: 100ng Ics2	SampT	ype: LC	S	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist	
Client ID: LCSW	Batch	n ID: SL	69410	F	RunNo: 6	9410				
Prep Date:	Analysis D	0ate: 6/	5/2020	S	SeqNo: 2	408570	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	89.8	70	130			
Toluene	21	1.0	20.00	0	104	70	130			
Surr: 1,2-Dichloroethane-d4	8.9		10.00		88.7	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		93.8	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.1	70	130			
Surr: Toluene-d8	11		10.00		107	70	130			

Qualifiers:

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

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

RL Reporting Limit

Page 5 of 5

Page	33	01	F 48

ANAL	RONMENT		TE	ull Environme EL: 505-345-3 Website: www	490 Albuquero 3975 FAX:)1 Hawk jue, NM 505-343	ins NE 87109 Sar 5-4107	nple Log-In	Pa Check List
Client Name:	ENSOLUM	AZTEC	Work	Order Num	ber: 200	5C39		RcptN	o: 1
Received By:	Isaiah Or	tiz	5/29/20	20 8:15:00	АМ		ILC	2×	
Completed By:	Isaiah Or	tiz	5/29/20	20 8:35:17	AM		I_0 I_0	2~~	
Reviewed By:	JP-S	29/20							
Chain of Cus	tody								
1. Is Chain of C	ustody comp	lete?			Yes	\checkmark	No 🗌	Not Present	
2. How was the	sample deliv	vered?			Cou	rier			
<u>Log In</u>									
3. Was an attem	npt made to o	cool the samp	les?		Yes	\checkmark	No 🗌	NA 🗌	
4. Were all samp	oles received	at a tempera	ture of >0° C	to 6.0°C	Yes		No 🗌		
5. Sample(s) in	proper conta	iner(s)?			Yes	\checkmark	No 🗌		
6. Sufficient sam	ple volume f	or indicated to	act/c)?		Yes		No 🗌		
7. Are samples (sd2	Yes				
8. Was preserva			peny preserve	5 U ?	Yes		No 🗹	NA 🗌	
		bottloo :			165				,
9. Received at le	ast 1 vial wit	h headspace	<1/4" for AQ V	'OA?	Yes	\checkmark	No 🗌	NA 🗌	
10. Were any san	nple containe	ers received b	roken?		Yes		No 🔽	# of preserved	
11.Does paperwo (Note discrepa)		Yes	\checkmark	No 🗌	bottles checked for pH:	or >12 unless noted
12. Are matrices of	orrectly iden	tified on Chair	n of Custody?		Yes	\checkmark	No 🗌	Adjusted?	
13. Is it clear what			?		Yes	\checkmark	No 🗌	/	0
14. Were all holdir (If no, notify cu					Yes	\checkmark	No 🗌	Checked by:	Em 5/29/
								/	
Special Handli 15. Was client no			with this order?		Maria				
		screparicles v	with this order?	r	Yes		No 🗌	NA 🗹	
Person By Who	1			Date:	,			_	
By Who Regardi				Via:	eMa		Phone 🗌 Fax	In Person	
	structions:								
16. Additional rer									
17. <u>Cooler Infor</u>									
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Da	ate	Signed By	1	
1	4.9	Good	Yes		eeu bi	1111111111	Signed by		

Page 1 of 1

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Chain-of-Custody Record		A	s:				÷					Matrix	3	3	the	3	3	EN 1	2		3				Relin	Relin	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.	
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aging:



October 23, 2020

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

RE: Lateral 2C-15

OrderNo.: 2010844

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 10/17/2020 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,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 2010844

Hall Environmental Analysis Laboratory, Inc.
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Date Reported: 10/23/2020

CLIENT: ENSOLUM	Client Sample ID: MW-7										
Project: Lateral 2C-15	Collection Date: 10/15/2020 11:15:00 AM										
Lab ID: 2010844-001	Matrix: AQUEOUS		Received Dat	ed Date: 10/17/2020 8:00:00 AM							
Analyses	Result	RL Qual Units		DF	Date Analyzed	Batch					
EPA METHOD 8260: VOLATILES S	HORT LIST				Analyst:	JMR					
Benzene	ND	1.0	µg/L	1	10/21/2020 4:13:57 AM	R72806					
Toluene	ND	1.0	µg/L	1	10/21/2020 4:13:57 AM	R72806					
Ethylbenzene	1.1	1.0	µg/L	1	10/21/2020 4:13:57 AM	R72806					
	19		µg/L	1	10/21/2020 4:13:57 AM						
Xylenes, Total	19	1.5	µg/∟		10/21/2020 4.13.37 AM	R72806					
Xylenes, Total Surr: 1,2-Dichloroethane-d4		1.5 0-130	%Rec	1	10/21/2020 4:13:57 AM	R72806 R72806					
	89.5 7	-									
Surr: 1,2-Dichloroethane-d4	89.5 7 101 7	0-130	%Rec	1	10/21/2020 4:13:57 AM	R72806 R72806					

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 10

Released to Imaging: 1/7/2022 11:14:43 AM
Lab Order **2010844** Date Reported: **10/23/2020**

CLIENT: ENSOLUM Project: Lateral 2C-15 Lab ID: 2010844-002	Client Sample ID: MW-8 Collection Date: 10/15/2020 11:55:00 AM Matrix: AQUEOUS Received Date: 10/17/2020 8:00:00 AM						
Analyses	Result		al Units		Date Analyzed	Batch	
EPA METHOD 8260: VOLATILES SHO	RT LIST				Analyst	JMR	
Benzene	ND	1.0	µg/L	1	10/21/2020 4:42:37 AM	R72806	
Toluene	ND	1.0	μg/L	1	10/21/2020 4:42:37 AM	R72806	
Ethylbenzene	ND	1.0	µg/L	1	10/21/2020 4:42:37 AM	R72806	
Xylenes, Total	ND	1.5	µg/L	1	10/21/2020 4:42:37 AM	R72806	
Surr: 1,2-Dichloroethane-d4	92.6 7	0-130	%Rec	1	10/21/2020 4:42:37 AM	R72806	
Surr: 4-Bromofluorobenzene	102 7	0-130	%Rec	1	10/21/2020 4:42:37 AM	R72806	
Surr: Dibromofluoromethane	104 7	0-130	%Rec	1	10/21/2020 4:42:37 AM	R72806	
Surr: Toluene-d8	91.6 7	0-130	%Rec	1	10/21/2020 4:42:37 AM	R72806	

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 10

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Lab Order 2010844 Date Reported: 10/23/2020

CLIENT: ENSOLUM Project: Lateral 2C-15 Lab ID: 2010844-003	Client Sample ID: MW-6 Collection Date: 10/15/2020 12:35:00 PM Matrix: AQUEOUS Received Date: 10/17/2020 8:00:00 AM						
Analyses	Result	RL Qua			Date Analyzed	Batch	
EPA METHOD 8260: VOLATILES SHOR	T LIST				Analyst:	JMR	
Benzene	ND	1.0	µg/L	1	10/21/2020 5:11:11 AM	R72806	
Toluene	ND	1.0	µg/L	1	10/21/2020 5:11:11 AM	R72806	
Ethylbenzene	ND	1.0	µg/L	1	10/21/2020 5:11:11 AM	R72806	
Xylenes, Total	ND	1.5	µg/L	1	10/21/2020 5:11:11 AM	R72806	
Surr: 1,2-Dichloroethane-d4	85.1 7	0-130	%Rec	1	10/21/2020 5:11:11 AM	R72806	
Surr: 4-Bromofluorobenzene	135 7	0-130 S	%Rec	1	10/21/2020 5:11:11 AM	R72806	
Surr: Dibromofluoromethane	108 7	0-130	%Rec	1	10/21/2020 5:11:11 AM	R72806	
Surr: Toluene-d8	87.1 7	0-130	%Rec	1	10/21/2020 5:11:11 AM	R72806	

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.
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Lab Order **2010844** Date Reported: **10/23/2020**

CLIENT: ENSOLUM Project: Lateral 2C-15	Client Sample ID: MW-4 Collection Date: 10/15/2020 1:15:00 PM							
Lab ID: 2010844-004	Matrix: AQUEOUS		Recei	ved Dat	e:10	/17/2020 8:00:00 AM		
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 8260: VOLATILES SI	HORT LIST					Analyst:	JMR	
Benzene	1.1	1.0		µg/L	1	10/21/2020 5:39:44 AM	R72806	
Toluene	ND	1.0		µg/L	1	10/21/2020 5:39:44 AM	R72806	
Ethylbenzene	3.0	1.0		µg/L	1	10/21/2020 5:39:44 AM	R72806	
Xylenes, Total	ND	1.5		µg/L	1	10/21/2020 5:39:44 AM	R72806	
Surr: 1,2-Dichloroethane-d4	95.5 7	0-130		%Rec	1	10/21/2020 5:39:44 AM	R72806	
Surr: 4-Bromofluorobenzene	144 7	0-130	S	%Rec	1	10/21/2020 5:39:44 AM	R72806	
Surr: Dibromofluoromethane	110 7	0-130		%Rec	1	10/21/2020 5:39:44 AM	R72806	
Surr: Toluene-d8	92.3 7	0-130		%Rec	1	10/21/2020 5:39:44 AM	R72806	

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.
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Lab Order **2010844** Date Reported: **10/23/2020**

CLIENT: ENSOLUM	Client Sample ID: MW-2								
Project: Lateral 2C-15		Collection Date: 10/15/2020 1:40:00 PM							
Lab ID: 2010844-005	Matrix: AQUEOUS		Recei	ved Dat	t e: 10	/17/2020 8:00:00 AM			
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 8260: VOLATILES SI	HORT LIST					Analyst	JMR		
Benzene	ND	1.0		µg/L	1	10/21/2020 6:08:15 AM	R72806		
Toluene	ND	1.0		µg/L	1	10/21/2020 6:08:15 AM	R72806		
Ethylbenzene	ND	1.0		µg/L	1	10/21/2020 6:08:15 AM	R72806		
Xylenes, Total	63	1.5		µg/L	1	10/21/2020 6:08:15 AM	R72806		
Surr: 1,2-Dichloroethane-d4	95.6 7	0-130		%Rec	1	10/21/2020 6:08:15 AM	R72806		
Surr: 4-Bromofluorobenzene	287 7	0-130	S	%Rec	1	10/21/2020 6:08:15 AM	R72806		
Surr: Dibromofluoromethane	102 7	0-130		%Rec	1	10/21/2020 6:08:15 AM	R72806		
Surr: Toluene-d8	86.4 7	0-130		%Rec	1	10/21/2020 6:08:15 AM	R72806		

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 5 of 10

Hall Environmental	Analysis Laboratory, Inc.
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Lab Order **2010844** Date Reported: **10/23/2020**

CLIENT: ENSOLUM		Cl	ient Sa	mple I	D:M	W-5	
Project: Lateral 2C-15	Collection Date: 10/15/2020 2:20:00 PM						
Lab ID: 2010844-006	Matrix: AQUEOUS		Recei	ved Dat	e: 10	/17/2020 8:00:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT	LIST					Analyst:	JMR
Benzene	110	5.0		µg/L	5	10/21/2020 6:36:45 AM	R72806
Toluene	ND	5.0		µg/L	5	10/21/2020 6:36:45 AM	R72806
Ethylbenzene	16	5.0		µg/L	5	10/21/2020 6:36:45 AM	R72806
Xylenes, Total	45	7.5		µg/L	5	10/21/2020 6:36:45 AM	R72806
Surr: 1,2-Dichloroethane-d4	88.6	70-130		%Rec	5	10/21/2020 6:36:45 AM	R72806
Surr: 4-Bromofluorobenzene	162	70-130	S	%Rec	5	10/21/2020 6:36:45 AM	R72806
Surr: Dibromofluoromethane	106	70-130		%Rec	5	10/21/2020 6:36:45 AM	R72806
Surr: Toluene-d8	87.6	70-130		%Rec	5	10/21/2020 6:36:45 AM	R72806

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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Released to Imaging: 1/7/2022 11:14:43 AM

Hall Environmental Analysis Laboratory, Inc.	
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Lab Order **2010844** Date Reported: **10/23/2020**

CLIENT: ENSOLUM Project: Lateral 2C-15	Client Sample ID: MW-3 Collection Date: 10/15/2020 3:00:00 PM						
Lab ID: 2010844-007	Matrix: AQUEOUS	contento	2 2 4 7 7 7 9	/17/2020 8:00:00 FM			
Analyses	Result	RL Qual U	Units DF	Date Analyzed	Batch		
EPA METHOD 8260: VOLATILES SHORT	LIST			Analyst:	JMR		
Benzene	480	5.0 µ	ug/L 5	10/21/2020 7:33:51 AM	R72806		
Toluene	ND	5.0 µ	ug/L 5	10/21/2020 7:33:51 AM	R72806		
Ethylbenzene	60	5.0 µ	ug/L 5	10/21/2020 7:33:51 AM	R72806		
Xylenes, Total	ND	7.5 μ	ug/L 5	10/21/2020 7:33:51 AM	R72806		
Surr: 1,2-Dichloroethane-d4	84.2 7	′0-130	%Rec 5	10/21/2020 7:33:51 AM	R72806		
Surr: 4-Bromofluorobenzene	576 7	'0-130 S %	%Rec 5	10/21/2020 7:33:51 AM	R72806		
Surr: Dibromofluoromethane	104 7	′0-130	%Rec 5	10/21/2020 7:33:51 AM	R72806		
Surr: Toluene-d8	87.8 7	°0-130 %	%Rec 5	10/21/2020 7:33:51 AM	R72806		

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

Qualifiers:

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

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

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Analytical Report

Lab Order 2010844 Date Reported: 10/23/2020

CLIENT: ENSOLUM	Client Sample ID: MW-9								
Project: Lateral 2C-15	Collection Date: 10/15/2020 4:00:00 PM								
Lab ID: 2010844-008	Matrix: AQUEOUS Received Date: 10/17/2020 8:00:00 AM								
Analyses	Result	RL	Qual Units	DF 1	Date Analyzed	Batch			
EPA METHOD 8260: VOLATILES SHORT	LIST				Analyst	JMR			
Benzene	1100	100	µg/L	100	10/21/2020 6:24:39 PM	B72834			
Toluene	1000	10	µg/L	10	10/21/2020 8:02:25 AM	R72806			
Ethylbenzene	110	10	µg/L	10	10/21/2020 8:02:25 AM	R72806			
Xylenes, Total	660	15	µg/L	10	10/21/2020 8:02:25 AM	R72806			
Surr: 1,2-Dichloroethane-d4	91.1	70-130	%Rec	10	10/21/2020 8:02:25 AM	R72806			
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	10	10/21/2020 8:02:25 AM	R72806			
Surr: Dibromofluoromethane	112	70-130	%Rec	10	10/21/2020 8:02:25 AM	R72806			
Surr: Toluene-d8	91.8	70-130	%Rec	10	10/21/2020 8:02:25 AM	R72806			

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

Qualifiers:

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

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

20

7.9

11

	WO#:	2010844
Inc.		23-Oct-20

130

130

120

RPDLimit

Qual

Client: Project:	ENSOLU Lateral 20									
Sample ID: 100r	ng Ics	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8260: Volatile	es Short I	List
Client ID: LCS	w	Batch	n ID: R7	2806	R	unNo: 72	2806			
Prep Date:		Analysis D	Date: 10)/20/2020	S	SeqNo: 2	558923	Units: µg/L		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RF
Benzene		20	1.0	20.00	0	99.5	70	130		

1.0

20.00

10.00 10.00

0

101

79.4

107

70

70

70

Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	9.8		10.00		97.5	70	130			
Surr: Toluene-d8	9.5		10.00		95.5	70	130			
Sample ID: mb1	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8260: Volatile	es Short L	.ist	
Client ID: PBW	Batcl	h ID: R7	2806	F	RunNo: 72	2806				
Prep Date:	Analysis E	Date: 10	0/20/2020	S	SeqNo: 2	558924	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.0		10.00		90.2	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.6	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.8		10.00		97.9	70	130			
Sample ID: 100ng Ics	nple ID: 100ng Ics SampType: LCS TestCode: EPA Method 8260: Volatiles Short List									
Client ID: LCSW	Batcl	h ID: B7	2834	F	RunNo: 72	2834				
Prep Date:	Analysis D	Date: 10	0/21/2020	S	SeqNo: 2	559903	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.1	70	130			
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.7	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.6	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			
Sample ID: mb1	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8260: Volatile	es Short L	.ist	
Client ID: PBW	Batcl	h ID: B7	2834	F	RunNo: 72	2834				
Prep Date:	Analysis D	Date: 10	0/21/2020	S	SeqNo: 2	559904	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.9	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			

Qualifiers:

Toluene

Surr: 1,2-Dichloroethane-d4

Surr: A Bromofluorohonzono

* 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

Analyte detected below quantitation limits J

Р Sample pH Not In Range

Reporting Limit RL

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Released to Imaging: 1/7/2022 11:14:43 AM

Client:	ENSOLUM						
Project:	Lateral 2C-15						
Sample ID: mb1	SampType: MBLK	TestCode: E	PA Method	8260: Volatile	s Short L	ist	
Client ID: PBW	Batch ID: B72834	RunNo: 7	2834				
Prep Date:	Analysis Date: 10/21/2020	SeqNo: 2	559904	Units: µg/L			
Analyte	Result PQL SPK val	ue SPK Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluorome	thane 11 10.	00 107	70	130			
Surr: Toluene-d8	9.9 10.	99.2	70	130			

Qualifiers:

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

- B Analyte detected in the associated Method Blank
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
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2010844

23-Oct-20

WO#:

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Page	40	0	148	

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environme TEL: 505-345-2 Website: clien	490 Albuquero 3975 FAX:	01 Hawkin nue, NM 8 505-345	s NE 7109 Sa 4107	mple Log-In Che	Pag eck List
Client Name: ENSOLUM	Work Order Num	nber: 201	0844		RcptNo: 1	
Received By: Emily Mocho 1	0/17/2020 8:00:00	0 AM				
Completed By: Emily Mocho 1	0/19/2020 8:09:50	0 AM				
Reviewed By: M	119/2e					
Chain of Custody						
1. Is Chain of Custody complete?		Yes	\checkmark	No 🗌	Not Present	
2. How was the sample delivered?		<u>Cou</u>	rier			
Log In 3. Was an attempt made to cool the samples?		Yes	\checkmark	No 🗌		
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes		No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?		Yes	~	No 🗌		
6. Sufficient sample volume for indicated test(s)?		Yes	\checkmark	No 🗌		
7. Are samples (except VOA and ONG) properly pr	eserved?	Yes	\checkmark	No 🗌		
8. Was preservative added to bottles?		Yes		No 🗹	NA	
9. Received at least 1 vial with headspace <1/4" for	r AQ VOA?	Yes	\checkmark	No 🗌		
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 Cus	tody?	Yes	\checkmark	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes	\checkmark	No 🗌		
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes	\checkmark	No 🗌	Checked by: JR	- 10/19/2
Special Handling (if applicable)						
15. Was client notified of all discrepancies with this	order?	Yes		No 🗌	NA 🗹	
Person Notified:	Date:	· [
By Whom:	Via:	🗌 eMa	iil 🗌 Pl	hone 🗌 Fax	k 🗌 In Person	
Regarding: Client Instructions:						
16. Additional remarks:						
17. <u>Cooler Information</u> Cooler No Temp °C Condition Seal I 1 4.0 Good Yes	ntact Seal No	Seal Da	ite	Signed By		

Page 1 of 1

Received by OCD: 11/18/202	3:17:28 PM	Page 47 of 48
HALL ENVIRONMENTAL ANALYSIS LABORATORY anw.hallenvironmental.com www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	Image: Section of the section of th	tot late
		Remarks
Turn-Around Time: Standard \Box Rush Project Name: La Hera $\int 2C - 15$ Project #:	Summers Summers Summers Servative HEAL No. (es □ No es □ No es □ No elt 0001 Clz 0002 Clz 0003 Clz 00	Time: Relinquished by: Received by: Via: Date Time Remarks: PM TownLow Seal Intention 1102 PM PM TownLow Seal Intention Seal Intention 1102 PM PM TownLow Seal Intention Seal Intention 1102 PM PM Time Relinquished by: Received by: Via: Date Time Remarks: PM TownLow Seal RM 1180 PM DM Muddl Yu CuULTIAL Via: Date Time AFE NU3 Seal RM 1180 PM DM Time 8:00 AFE NU3 Seal RM 1180 Seal N1 N1 8:00 AFE NU3 Seal Seal Seal 1180 CM CUUTIAL Via: Date Time AFE NU3 Seal Seal
Chain-of-Custody Record Client: Client: Enselvent LLC Mailing Address: isolo S. Ric Grand Suite	Email or Fax#: Keluuuuers Constant. email or Fax#: Keluuuuers Constant. QAVOC Package: QAVOC Package: QAVOC Package: Level 4 (Full Validation) Accreditation: Az Compliance Istandard I = Az Compliance ONELAC Other Instant Sampler: Instant Sample Name Instant	Date: Time: Relinquished by: Date: Time: Relinquished by: Date: Time: Relinquished by: Is how 1800 DMU-TMULUM If necessary, samples submitted to Hall Environmental may be su

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: 0	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	62664
7	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Upon review of the 2020 GROUNDWATER MONITORING REPORT, OCD approves the 3rd party report recommendations as follows; 1. Report the groundwater monitoring results to the Jicarilla Apache Nation Environmental Protection 2. Agency Office (JAN-EPO) and New Mexico EMNRD OCD. 3. Increase the sampling frequency to quarterly groundwater monitoring as requested by the JAN-EPO. 4. Perform additional site assessment activities to fully define the groundwater plume and potentially further define the source area soil impacts. 5. Initiate NAPL removal activities at monitoring well MW-1.	1/7/2022

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Action 62664