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	NCS1907233330
District RP	
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

Responsible Party Harvest Four Corners, LLC		OGRID 3	37388			
Contact Name Monica Smith Co		Contact Te	ntact Telephone 505-632-4625			
Contact email msmith@harvestmidstream.com I		Incident #	(assigned by OCD	) NCS1907233330		
Contact mail	ing address	1755 Arroyo Dr.,	Farmington, NM	1 87413		
			A	45.1		
			Location	of Release So	ource	
Latitude 36.430000 Longitude		Longitude _	-107.476944			
			(NAD 83 in de	ecimal degrees to 5 decin	nal places)	
Site Name I	Lateral H-21			Site Type	Pipeline	
Date Release	Discovered	3/12/2019		API# (if app	licable)	
Unit Letter	Section	Township	Domas	Coun		7
F	4	25N	Range 6W	Rio Ai		
1	7	231	0 **			
Surface Owner	r: State	Federal T	ribal 🛭 Private (	(Name:		)
			Natura an	d Volume of I	Dalaasa	
			Mature an	u voiuille of i	Neiease	
Crudo Oil				h calculations or specific		e volumes provided below)
Crude Oil Volume Released (bbls)			Volume Reco			
✓ Produced Water Volume Released (bbls) Unknown at this time				overed (bbls) Currently being recovered		
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		chloride in the	Yes N	No		
☐ Condensate Volume Released (bbls) Unknown at this time		wn at this time	Volume Reco	overed (bbls) Currently being recovered		
✓ Natural Gas Volume Released (Mcf) 658			Volume Reco	overed (Mcf) 0		
Other (describe) Volume/Weight Released (provide units)		le units)	Volume/Wei	ght Recovered (provide units)		
Cause of Release						
A line leak was discovered on the Lateral H-21 pipeline.						
Upon discovery, the release was immediately stopped. Historic liquids release was discovered during excavation along with ground water impacts (ground water is at 4ft). Harvest is currently digging and hauling impacted soil. Harvest is collecting impacted ground water and removing for disposal.						

Received by OCD: 3/22/2023 10:11:57 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

te of New Mexico

Incident ID NCS1907233330

NCS1907233330

Incident ID	NCS1907233330
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsive Natural Gas release over 500mcf and imp	• •	
☑ Yes □ No			
V ICS [] NO			
If YES, was immediate n	otice given to the OCD? By whom? To wl	nom? When and by what means (phone, email, etc)?	
Immediate notification w on 3/13/2019 @ 8:42am.	• • • • • • • • • • • • • • • • • • • •	y Smith, Vanessa Fields, and Jim Griswold of the OCD by email	
011 3/13/2019 (W 8.42a111.	•		
	Initial Ro	esponse	
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury	
✓ The source of the rele	ease has been stopped.		
	as been secured to protect human health and	the environment.	
	-	likes, absorbent pads, or other containment devices.	
	ecoverable materials have been removed and	-	
If all the actions describe	d above have <u>not</u> been undertaken, explain v	why:	
Dor 10 15 20 9 D (4) NIM	IAC the regnensible next, may commence to	emediation immediately after discovery of a release. If remediation	
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred clease attach all information needed for closure evaluation.	
		best of my knowledge and understand that pursuant to OCD rules and	
		fications and perform corrective actions for releases which may endanger PCD does not relieve the operator of liability should their operations have	
		at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws	
and/or regulations.			
Printed Name: Monica		Title: Environmental Specialist	
Signature: Mor	icasman	Date:3/22/2023	
email: msmith@harvest	midstream.com	Telephone: 505-632-4625	
-			
OCD Only			
		Deter	
keceived by:		Date:	

	Page 3 of 13.	3
Incident ID	NCS1907233330	
District RP		
Facility ID		
Application ID		

# **Site Assessment/Characterization**

This information must be provided to the appropriate district office no taler man 20 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release?	<50(ft bgs)	
Did this release impact groundwater or surface water?	✓ Yes ☐ No	
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?	✓ Yes ☐ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No	
Are the lateral extents of the release within 300 feet of a wetland?	✓ Yes ☐ No	
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 <b>not</b> 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.		
<ul> <li>✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>✓ Field data</li> </ul>		

Ch	Characterization Report Checklist: Each of the following items must be included in the report.		
$\square$	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.		
_	Field data		
	Data table of soil contaminant concentration data		
	Depth to water determination		
	Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release		
$\square$	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: 3/22/2023 10:11:57 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

Page 4	4 of 1	133
 •••		7

Incident ID	NCS1907233330
District RP	
Facility ID	
Application ID	

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:Monica Smith	Title: Environmental Specialist	
Signature: Manicas math	Date: 3/22/2023	
email: msmith@harvestmidstream.com	Telephone:505-632-4625	
OCD Only		
Received by: Jocelyn Harimon	Date: 03/22/2023	

	Page 5 of 133	3
Incident ID	NCS1907233330	
District RP		
Facility ID		
Application ID		

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.		
<ul> <li>✓ Detailed description of proposed remediation technique</li> <li>✓ Scaled sitemap with GPS coordinates showing delineation points</li> <li>✓ Estimated volume of material to be remediated</li> <li>✓ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>✓ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>		
Deferral Requests Only: Each of the following items must be confirmed as part	t of any request for deferral of remediation.	
Contamination must be in areas immediately under or around production equip deconstruction.	oment where remediation could cause a major facility	
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health, the environm	ent, 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.		
	Environmental Specialist	
	/22/2023	
email: msmith@harvestmidstream.com Telephone:	505-632-4625	
OCD Only		
Received by: Jocelyn Harimon Date:03/.	/22/2023	
☐ Approved ☐ Approved with Attached Conditions of Approval	☐ Denied ☐ Deferral Approved	
Signature: Date:		

7 State of New Mexico Incident

	Page 6 of 13.	3
Incident ID	NCS1907233330	
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 is	tems must be included in the closure report.
✓ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Signature:ManicaSm4D	Date:
Signature:11 orucas marc	
email: msmith@harvestmidstream.com	Telephone: 505-632-4625
OCD Only	
Received by: Jocelyn Harimon	Date:03/22/2023
remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/	
Closure Approved by: Nelson Velez	Date:05/15/2023
Printed Name: Nelson Velez	Title: Environmental Specialist - Adv
_	



## **New Mexico Oil Conservation Division**

New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: 2022 Annual Groundwater Report - Closure Request

Lateral H-21 Pipeline Release Rio Arriba County, New Mexico Harvest Four Corners, LLC NMOCD Incident Number: NCS1907233330

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Harvest Four Corners, LLC (Harvest), presents this detailed report for activities conducted at the Lateral H-21 Pipeline Release (Site), Incident Number NCS1907233330, between January 2022 and January 2023. The scope of work for this project includes annual monitoring of petroleum hydrocarbon impacts to groundwater resulting from a pipeline release in March 2019. Based on conclusions of this report, Harvest is requesting no further action for Incident Number NCS1907233330.

## **LOCATION**

The Site is located approximately 300 feet east of Largo Canyon Wash in Dogie Canyon between Julian Canyon and Forbes Canyon at Latitude 36.42788 and Longitude -107.4757 in Unit F, Section 4, Township 25 North, Range 6 West, in Rio Arriba County (Figure 1). The Site is an active pipeline that transports natural gas to the Dogie Compressor Station, located approximately 1,750 feet northwest of the Site.

# **HISTORY**

On March 12, 2019, an unknown volume of produced water and natural gas condensate and approximately 658 thousand cubic feet (MCF) of natural gas were released from the Site due to corrosion on the pipeline. Upon discovery, the release was immediately contained, and the pipeline was shut in. An initial C-141 was submitted to the New Mexico Oil Conservation Division (NMOCD) on March 13, 2019, and assigned incident number NCS1907233330.

Harvest excavated approximately 3,200 cubic yards of impacted soil and subsequently disposed of the soil at the Envirotech Landfarm in Bloomfield, New Mexico. The excavation extent is illustrated on Figure 2. An NMOCD representative witnessed collection of eight confirmation soil samples from the excavation sidewalls on March 29 and April 5, 2019. Laboratory analytical results indicated the concentrations of benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH), and chloride in soil on the sidewalls of the excavation were below the NMOCD Table I Closure Criteria. Soil analytical results were previously submitted in the *Revised Stage 1 Abatement Plan* submitted by WSP USA Inc. (WSP) in June 2021.

Page 2

While excavating, groundwater was encountered at approximately 4 feet below ground surface (bgs). After impacted soil was removed, Harvest backfilled a portion of the excavation with clean fill and left a portion of the excavation open to allow access to the groundwater.

Between April and June 2019, Harvest pumped approximately 3,800 barrels of fluid from the excavation and disposed of it at Aqua Moss in Bloomfield, New Mexico. WSP was retained by Harvest to collect grab samples of the water in the portion of the excavation that remained open. Five water samples were collected from the open excavation between April 3 and June 6, 2019, to evaluate the quality of groundwater. All five groundwater samples exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard for benzene.

In July 2019, temporary monitoring wells TMW01 through TMW08 were installed to delineate impacts to groundwater. Boreholes were advanced using a hand auger ranging from 5 feet to 8 feet bgs. Once saturated soils were encountered, the boreholes were advanced an additional 2.5 feet into the saturated zone to allow temporary monitoring wells to be installed within the groundwater aquifer. Prepacked temporary groundwater monitoring wells were installed in each borehole with screened casing across the groundwater interface and solid casing to the surface. Wells were constructed out of 2-inch diameter Schedule 40 polyvinyl chloride (PVC) casing and prepacked 2-inch Schedule 40 PVC 0.010-inch slotted screen wrapped with 65-mesh stainless steel screen and prepacked with 20/40 silica sand. Anulus volume between the prepacked well screen and the borehole were filled with clean, native fill material. The monitoring wells were completed with flush-mount well vaults with steel protective plates and were cemented into the ground. Temporary monitoring well TMW05 was found to be destroyed in August 2020.

In April 2021, temporary monitoring wells TMW09 and TMW10 were installed in the same manner described above to further delineate impacted groundwater observed in TMW03. Temporary groundwater monitoring well locations are depicted on Figures 2 through 6.

The NMOCD reviewed and approved the Revised Stage 1 Abatement Plan on January 3, 2022. In May 2022, Ensolum, on behalf of Harvest, conducted the groundwater monitoring at the Site for the remainder of 2022 and into 2023.

### **GROUNDWATER MONITORING ACTIVITIES**

In 2022 and 2023, WSP and Ensolum conducted quarterly groundwater monitoring activities at the Site in January, May, August, and November of 2022, and January of 2023. These activities included measuring depth to groundwater and collecting groundwater samples from nine monitoring wells (TMW01, TMW02, TMW03, TMW04, TMW06, TMW07, TMW08, TMW09, and TMW10).

Groundwater elevation monitoring included recording depth to groundwater measurements in all existing wells with an oil/water interface probe. The interface probe was decontaminated with Alconox<sup>™</sup> soap and rinsed with distilled water prior to each measurement. Ensolum used existing top-of-casing well elevations to draft groundwater contours and determine groundwater flow direction. Contours were inferred based on groundwater elevations and physical characteristics at the Site (topography, proximity to irrigation ditches, etc.). This data is summarized in Table 1 and depicted on Figures 2 through 6.

Prior to sampling groundwater, depth to groundwater and total depth of the monitoring wells were measured with an oil/water interface probe. The volume of groundwater was calculated, and a minimum of three well casing volumes of groundwater was purged using a disposable polyethylene bailer or a peristaltic pump and new tubing per each event. As groundwater was removed from the monitoring wells, pH, electric conductivity (EC), and temperature were



Page 3

monitored. Purge water was containerized and disposed of at a nearby compressor station. Significant precipitation and sediment runoff buried many of the monitoring wells prior to the August 2022 groundwater monitoring event. Ensolum visited the Site on August 25, 2022, to excavate any buried monitoring wells and purge out any sediment and liquids accumulated in the monitoring wells. Ensolum returned on August 26, 2022, to collect grab groundwater samples of all nine monitoring wells without collecting groundwater parameters due to low recharge volumes from the previous purging event. Copies of the groundwater sample collection forms are presented in Appendix A.

Once the monitoring wells were purged, groundwater samples were collected by filling three 40milliliter (mL) glass vials. The laboratory-supplied vials were filled and capped with no headspace to prevent degradation of the sample. Samples were labeled and immediately sealed and packed on ice. The samples were transferred to Hall Environmental Analysis Lab (Hall) for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021.

# **GROUNDWATER RESULTS**

Depth to groundwater data collected during the January, May, August, and November 2022, and January 2023 monitoring events is summarized in Table 1. Groundwater flow direction was generally to the north (Figure 2 through Figure 6). No measurable phase-separated hydrocarbons were detected in any monitoring wells during the quarterly 2022 or 2023 monitoring events.

Groundwater analytical results from all quarterly 2022 and 2023 events indicate BTEX concentrations were in compliance with applicable NMWQCC standards. Table 2 summarizes groundwater analytical results, and the complete laboratory analytical reports are included in Appendix B.

### CONCLUSION

The soil excavation extent around the release point and total volume of liquids recovered from the open excavation appear to have remediated gross impacts to soil and groundwater. The sidewall soil samples are all in compliance with the NMOCD Table I Closure Criteria. Soil analytical results were previously submitted in the Revised Stage 1 Abatement Plan submitted in June 2021, and approved by the NMOCD in January 2022. Following installation of temporary monitoring wells in July 2019 and April 2021, there has been continued decreasing dissolvedphase benzene concentrations. The last exceedances were observed in August 2020 in monitoring wells TMW02 and TMW03, with benzene concentrations of 8.5 micrograms per liter (μg/L) and 16 μg/L, respectively. Beginning with the April 2021 groundwater monitoring event, there have been no BTEX concentrations that exceed applicable standards.

### REQUEST FOR CLOSURE

Based on quarterly groundwater monitoring analytical results since April 2021, there have been eight consecutive quarters of groundwater monitoring events that are in compliance with BTEX concentrations in accordance with NMWQCC standards. As there are no longer any concentrations of contaminants of concern that pose an imminent threat to human health, to the environment, groundwater, and/or surface water, Harvest respectfully requests closure on the Lateral H-21 Pipeline Release, Incident Number NCS1907233330. Upon approval of the closure request from the NMOCD, the temporary monitoring wells will be removed and backfilled with hydrated bentonite chips. A photographic log is included as Appendix C.



Page 4

Ensolum appreciates the opportunity to provide this report to the NMOCD. If you should have any questions or comments regarding this document, please contact the undersigned.

Sincerely,

**ENSOLUM, LLC** 

Danny Burns Senior Geologist (303) 601-1420 dburns@ensolum.com Brooke Herb Senior Geologist (970) 403-6824 bherb@ensolum.com

# **Attachments:**

Figure 1: Site Location Map

Figure 2: Groundwater Elevation and Analytical Results (January 2022)
Figure 3: Groundwater Elevation and Analytical Results (May 2022)
Figure 4: Groundwater Elevation and Analytical Results (August 2022)
Figure 5: Groundwater Elevation and Analytical Results (November 2022)
Figure 6: Groundwater Elevation and Analytical Results (January 2023)

Table 1: Groundwater Elevations

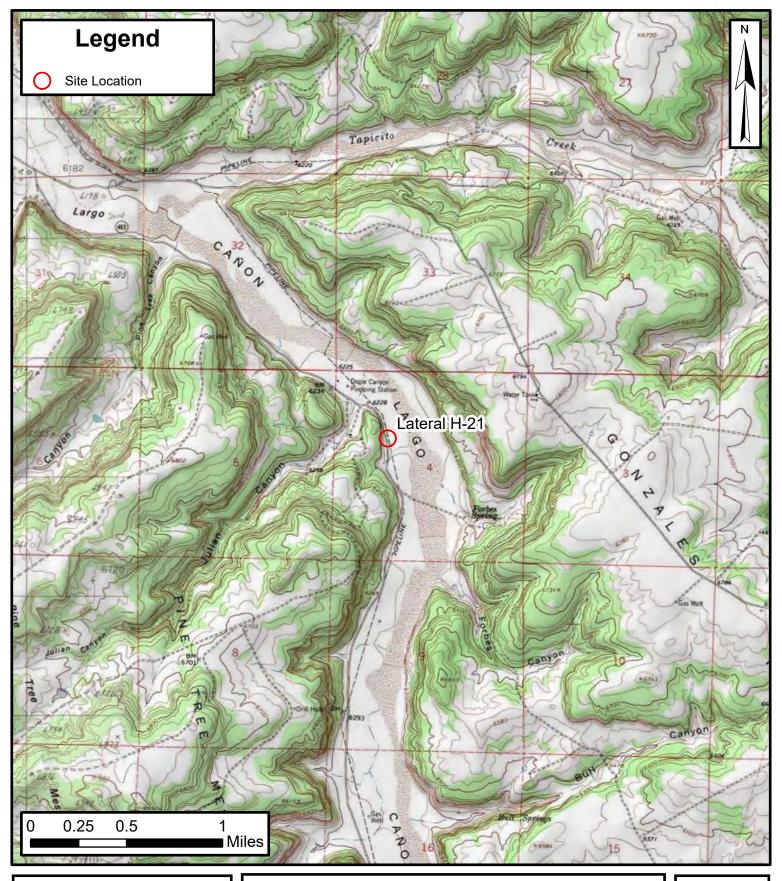
Table 2: Groundwater Analytical Results

Appendix A: Sample Collection Forms
Appendix B: Laboratory Analytical Reports

Appendix C: Photographic Log







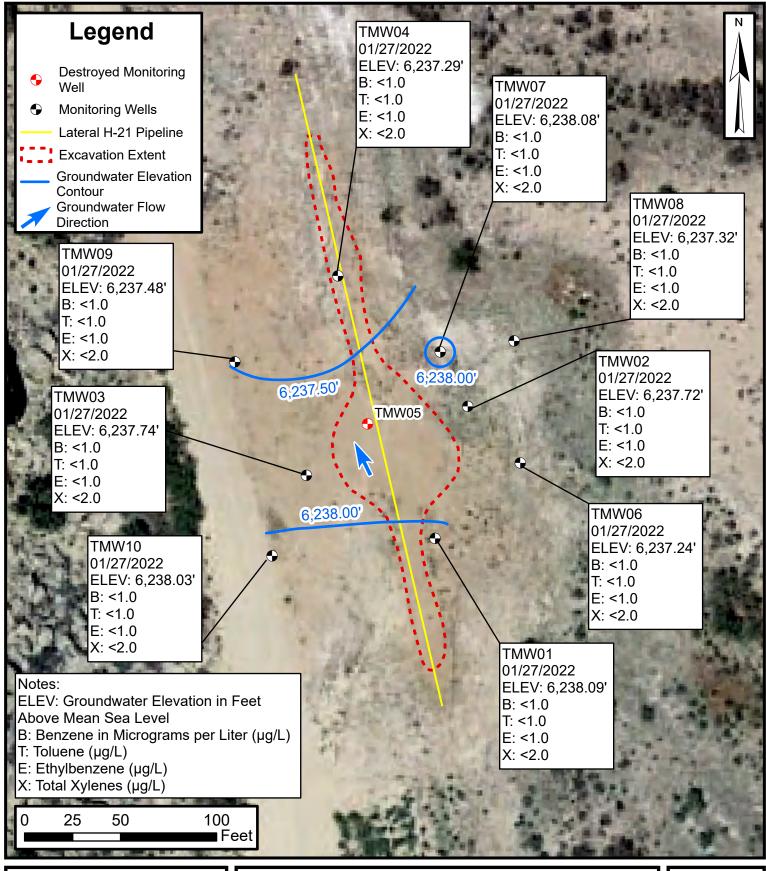


# **Site Location**

Lateral H-21 Harvest Four Corners, LLC

NESW Sec 04, T25N, R6W 36.42788° N, 107.4757° W Rio Arriba County, New Mexico FIGURE

1



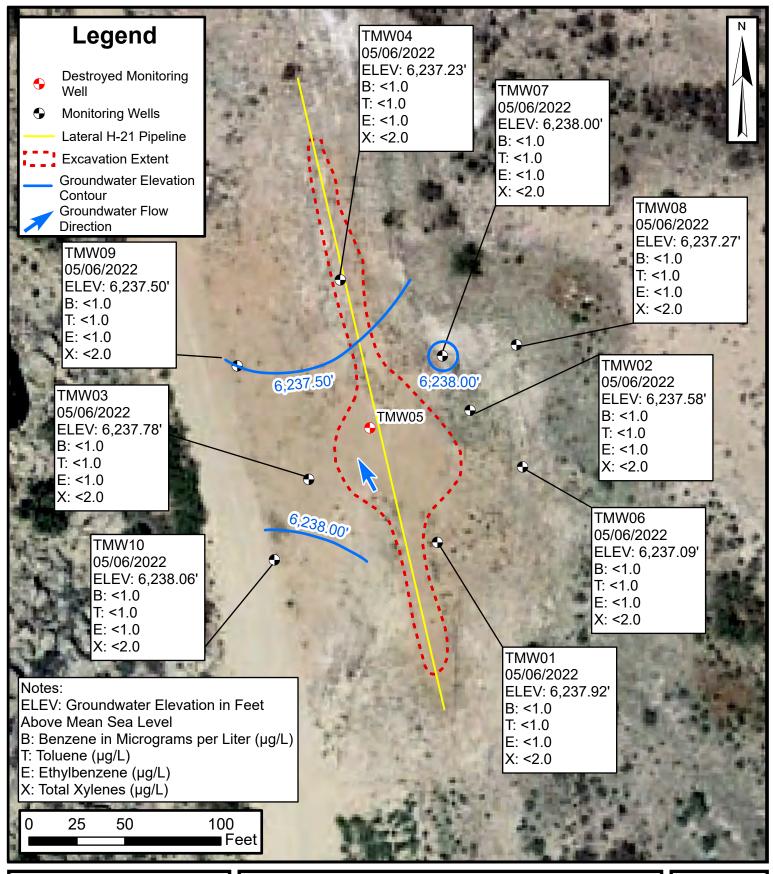


# Groundwater Elevation and Analytical Results (January 2022)

Lateral H-21

Harvest Four Corners, LLC

NESW Sec 04, T25N, R6W 36.42788° N, 107.4757° W Rio Arriba County, New Mexico



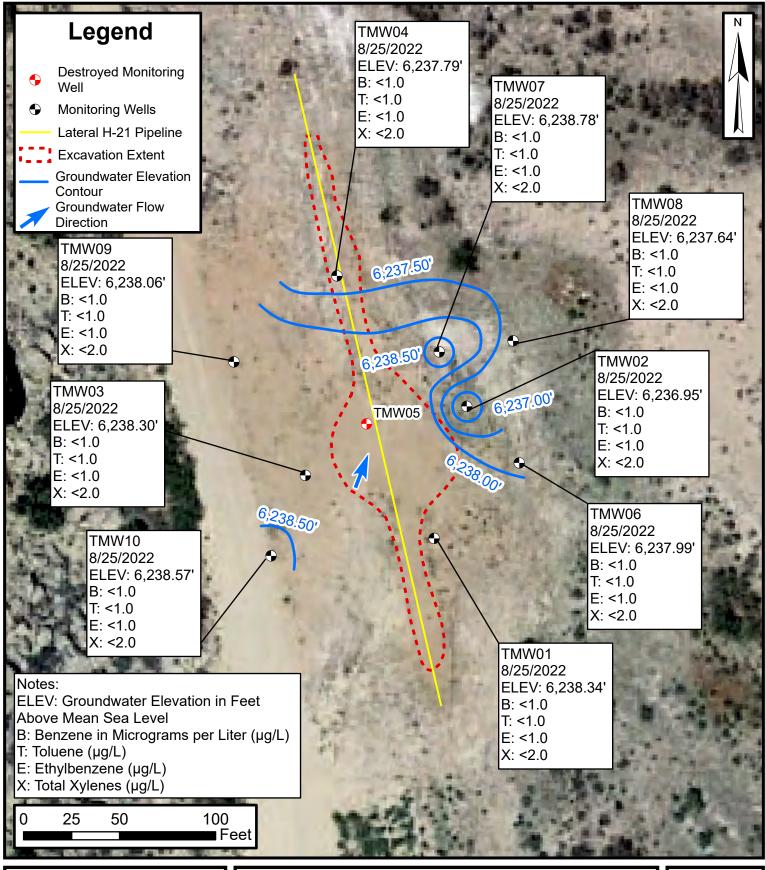


# Groundwater Elevation and Analytical Results (May 2022)

Lateral H-21

Harvest Four Corners, LLC

NESW Sec 04, T25N, R6W 36.42788° N, 107.4757° W Rio Arriba County, New Mexico



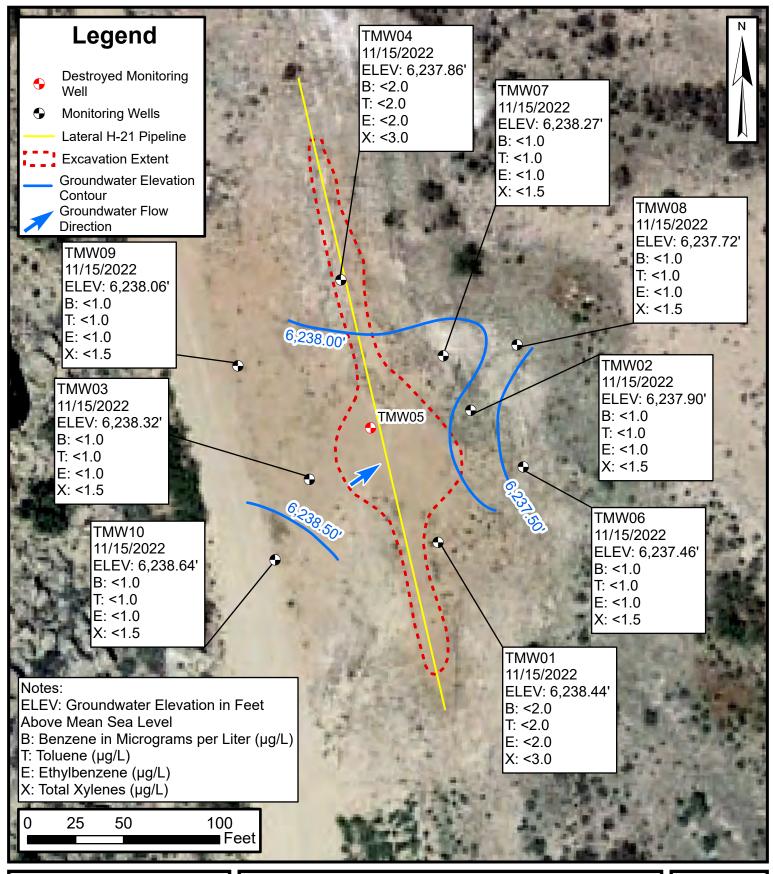


# Groundwater Elevation and Analytical Results (August 2022)

Lateral H-21

Harvest Four Corners, LLC

NESW Sec 04, T25N, R6W 36.42788° N, 107.4757° W Rio Arriba County, New Mexico



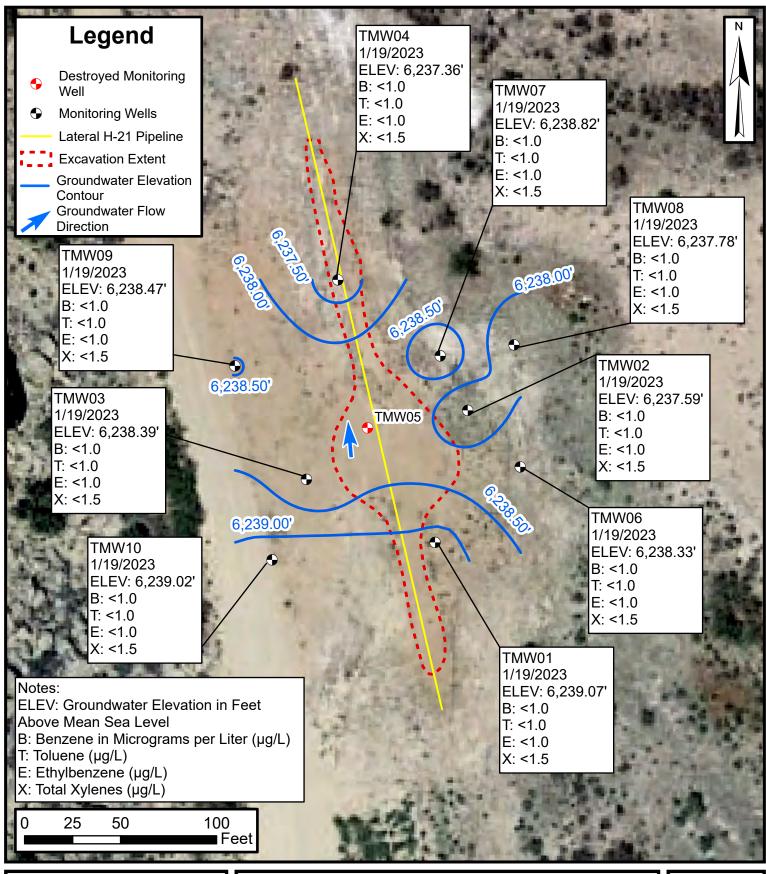


# Groundwater Elevation and Analytical Results (November 2022)

Lateral H-21

Harvest Four Corners, LLC

NESW Sec 04, T25N, R6W 36.42788° N, 107.4757° W Rio Arriba County, New Mexico





# Groundwater Elevation and Analytical Results (January 2023)

Lateral H-21

Harvest Four Corners, LLC

NESW Sec 04, T25N, R6W 36.42788° N, 107.4757° W Rio Arriba County, New Mexico



**TABLES** 



# TABLE 1 GROUNDWATER ELEVATIONS

Harvest Four Corners, LLC - Lateral H-21 Pipeline Release Rio Arriba County, New Mexico Ensolum Project No. 07B2002005

Well Identification	Top of Casing Elevation (feet amsl)	Total Depth (feet)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet amsl)
			7/17/2019	4.11	6,238.01
			7/23/2019	4.12	6,238.00
			7/25/2019	4.10	6,238.02
			8/7/2020	4.23	6,237.89
			4/29/2021	4.26	6,237.86
<b></b>			9/23/2021	4.56	6,237.56
TMW01	6,242.12	5.33	11/23/2021	4.27	6,237.85
			1/27/2022	4.04	6,238.08
			5/6/2022	4.20	6,237.92
			8/25/2022	3.78	6,238.34
			11/15/2022	3.68	6,238.44
			1/19/2023	3.05	6,239.07
			7/17/2019	3.25	6,237.75
			7/23/2019	3.26	6,237.74
			7/25/2019	3.25	6,237.75
			8/7/2020	3.22	6,237.78
			4/29/2021	3.46	6,237.54
			9/23/2021	3.86	6,237.14
TMW02	6,241.00	5.32	11/23/2021	3.57	6,237.43
			1/27/2022	3.28	6,237.72
			5/6/2022	3.42	6,237.58
			8/25/2022	4.05	6,236.95
			11/15/2022	3.10	6,237.90
			1/19/2023	3.41	6,237.59
			7/17/2019	4.77	6,237.83
			7/23/2019	5.66	6,236.94
			7/25/2019	4.83	6,237.77
			8/7/2020	5.96	6,236.64
			4/29/2021	5.09	6,237.51
TMW03	6,242.60	6.22	9/23/2021	5.02	6,237.58
TIVIVVUS	0,242.00	0.22	11/23/2021	5.09	6,237.51
			1/27/2022	4.86	6,237.74
			5/6/2022	4.82	6,237.78
			8/25/2022	4.30	6,238.30
			11/15/2022	4.28	6,238.32
			1/19/2023	4.21	6,238.39

Ensolum, LLC 1 of 3



# TABLE 1 GROUNDWATER ELEVATIONS

Harvest Four Corners, LLC - Lateral H-21 Pipeline Release Rio Arriba County, New Mexico Ensolum Project No. 07B2002005

Well Identification	Top of Casing Elevation (feet amsl)	Total Depth (feet)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet amsl)
			7/17/2019	4.20	6,237.37
			7/23/2019	5.60	6,235.97
			7/25/2019	4.28	6,237.29
			8/7/2020	4.50	6,237.07
			4/29/2021	4.52	6,237.05
			9/23/2021	4.70	6,236.87
TMW04	6,241.57	5.95	11/23/2021	3.76	6,237.81
			1/27/2022	4.28	6,237.29
			5/6/2022	4.34	6,237.23
			8/25/2022	3.78	6,237.79
			11/15/2022	3.71	6,237.86
			1/19/2023	4.21	6,237.36
			7/17/2019	4.01	6,237.73
			7/23/2019	4.02	6,237.72
TMW05	6,241.74		7/25/2019	4.02	6,237.72
			8/7/2020	Destroyed	Destroyed
			7/23/2019	3.54	6,237.07
			7/25/2019	3.43	6,237.18
			8/7/2020	3.64	6,236.97
			4/29/2021	3.64	6,236.97
			9/23/2021	4.02	6,236.59
TMW06	6,240.61	5.54	11/23/2021	3.62	6,236.99
			1/27/2022	3.37	6,237.24
			5/6/2022	3.52	6,237.09
			8/25/2022	2.62	6,237.99
			11/15/2022	3.15	6,237.46
			1/19/2023	2.28	6,238.33
			7/23/2019	3.55	6,237.87
			7/25/2019	3.45	6,237.97
			8/7/2020	3.70	6,237.72
			4/29/2021	3.69	6,237.73
TMW07	6,241.42	5.49	9/23/2021	3.83	6,237.59
			11/23/2021	3.61	6,237.81
			1/27/2022	3.34	6,238.08
			5/6/2022	3.42	6,238.00
			8/25/2022	2.64	6,238.78

Ensolum, LLC 2 of 3



# TABLE 1 GROUNDWATER ELEVATIONS

Harvest Four Corners, LLC - Lateral H-21 Pipeline Release Rio Arriba County, New Mexico Ensolum Project No. 07B2002005

Well Identification	Top of Casing Elevation (feet amsl)	Total Depth (feet)	Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet amsl)
TMW07	6,241.42	5.49	11/15/2022	3.15	6,238.27
TIVIVVO7	0,241.42	5.49	1/19/2023	2.60	6,238.82
			7/25/2019	3.25	6,237.65
			8/7/2020	3.52	6,237.38
			4/29/2021	3.39	6,237.51
			9/23/2021	3.29	6,237.61
<b></b>			11/23/2021	3.47	6,237.43
TMW08	6,240.90	5.97	1/27/2022	3.58	6,237.32
			5/6/2022	3.63	6,237.27
			8/25/2022	3.26	6,237.64
			11/15/2022	3.18	6,237.72
			1/19/2023	3.12	6,237.78
			4/29/2021	6.42	6,237.24
			9/23/2021	6.63	6,237.03
			11/23/2021	6.41	6,237.25
TA #14/00	0.040.00	0.00	1/27/2022	6.18	6,237.48
TMW09	6,243.66	8.09	5/6/2022	6.16	6,237.50
			8/25/2022	5.60	6,238.06
			11/15/2022	5.60	6,238.06
			1/19/2023	5.19	6,238.47
			4/29/2021	6.20	6,237.74
			9/23/2021	6.40	6,237.54
			11/23/2021	6.18	6,237.76
T101440	0.040.04	0.04	1/27/2022	5.91	6,238.03
TMW10	6,243.94	8.31	5/6/2022	5.88	6,238.06
			8/25/2022	5.37	6,238.57
			11/15/2022	5.30	6,238.64
			1/19/2023	4.92	6,239.02

### Notes:

amsl: above mean sea level BTOC: below top of casing

--: not measured

Ensolum, LLC 3 of 3



# TABLE 2 GROUNDWATER ANALYTICAL RESULTS

Harvest Four Corners, LLC - Lateral H-21 Pipeline Release Rio Arriba County, New Mexico Ensolum Project No. 07B2002005

Well Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC	Standards	5	1,000	700	620
	4/3/2019	310	330	8.3	41
0 5 "	4/10/2019	140	89	2.7	20
Open Excavation Grab Samples	4/22/2019	31	36	<2.0	5.5
Grab Gampios	5/9/2019	220	160	3.8	24
	6/3/2019	39	5.4	<1.0	<1.5
	7/17/2019	<1.0	<1.0	<1.0	<2.0
	8/7/2020	3.3	<1.0	6.0	<1.5
	4/29/2021	<1.0	<1.0	<1.0	<2.0
	9/23/2021	<1.0	<1.0	<1.0	<2.0
T1 11 11 0 4	11/23/2021	<2.0	<2.0	<2.0	<3.0
TMW01	1/27/2022	<1.0	<1.0	<1.0	<2.0
	5/6/2022	<1.0	<1.0	<1.0	<2.0
	8/26/2022	<1.0	<1.0	<1.0	<2.0
	11/15/2022	<2.0	<2.0	<2.0	<3.0
	1/19/2023	<1.0	<1.0	<1.0	<1.5
	7/17/2019	49	<1.0	<1.0	<2.0
	8/7/2020	8.5	<1.0	<1.0	<1.5
	4/29/2021	<1.0	<1.0	<1.0	<2.0
	9/23/2021	2.8	<1.0	<1.0	<2.0
TMW02	11/23/2021	<1.0	<1.0	<1.0	<1.5
TIVIVVOZ	1/27/2022	<1.0	<1.0	<1.0	<2.0
	5/6/2022	<1.0	<1.0	<1.0	<2.0
	8/26/2022	<1.0	<1.0	<1.0	<2.0
	11/15/2022	<1.0	<1.0	<1.0	<1.5
	1/19/2023	<1.0	<1.0	<1.0	<1.5
	7/17/2019	<1.0	<1.0	<1.0	<2.0
	8/7/2020	16	<1.0	<1.0	<1.5
	4/29/2021	<1.0	<1.0	<1.0	<2.0
	9/23/2021	1.4	<1.0	<1.0	<2.0
TN 41.0.00	11/23/2021	<1.0	<1.0	<1.0	<1.5
TMW03	1/27/2022	<1.0	<1.0	<1.0	<2.0
	5/6/2022	<1.0	<1.0	<1.0	<2.0
	8/26/2022	<1.0	<1.0	<1.0	<2.0
	11/15/2022	<1.0	<1.0	<1.0	<1.5
	1/19/2023	<1.0	<1.0	<1.0	<1.5
TMW04	7/17/2019	<1.0	<1.0	<1.0	<2.0

Ensolum, LLC 1 of 3



# TABLE 2 GROUNDWATER ANALYTICAL RESULTS

Harvest Four Corners, LLC - Lateral H-21 Pipeline Release Rio Arriba County, New Mexico Ensolum Project No. 07B2002005

Well Identification	Sample Date	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (µg/L)
NMWQCC	Standards	5	1,000	700	620
	8/7/2020	<1.0	<1.0	<1.0	<1.5
	4/29/2021	<1.0	<1.0	<1.0	<2.0
	11/23/2021	<1.0	<1.0	<1.0	<1.5
TN4\A/O.4	1/27/2022	<1.0	<1.0	<1.0	<2.0
TMW04	5/6/2022	<1.0	<1.0	<1.0	<2.0
	8/26/2022	<1.0	<1.0	<1.0	<2.0
	11/15/2022	<2.0	<2.0	<2.0	<3.0
	1/19/2023	<1.0	<1.0	<1.0	<1.5
TMW05	7/17/2019	<1.0	<1.0	<1.0	<2.0
TIVIVVOS	8/7/2020	Destroyed	Destroyed	Destroyed	Destroyed
	7/23/2019	<1.0	<1.0	<1.0	<1.5
	8/7/2020	<1.0	<1.0	<1.0	<1.5
	4/29/2021	<2.0	<2.0	<2.0	<3.0
	9/23/2021	<1.0	<1.0	<1.0	<2.0
T1 #14/00	11/23/2021	<1.0	<1.0	<1.0	<1.5
TMW06	1/27/2022	<1.0	<1.0	<1.0	<2.0
	5/6/2022	<1.0	<1.0	<1.0	<2.0
	8/26/2022	<1.0	<1.0	<1.0	<2.0
	11/15/2022	<1.0	<1.0	<1.0	<1.5
	1/19/2023	<1.0	<1.0	<1.0	<1.5
	7/23/2019	<1.0	<1.0	<1.0	<1.5
	8/7/2020	<1.0	<1.0	<1.0	<1.5
	4/29/2021	<2.0	<2.0	<2.0	<3.0
	9/23/2021	<1.0	<1.0	<1.0	<2.0
TMW07	11/23/2021	<1.0	<1.0	<1.0	<1.5
TIVIVO7	1/27/2022	<1.0	<1.0	<1.0	<2.0
	5/6/2022	<1.0	<1.0	<1.0	<2.0
	8/26/2022	<1.0	<1.0	<1.0	<2.0
	11/15/2022	<1.0	<1.0	<1.0	<1.5
	1/19/2023	<1.0	<1.0	<1.0	<1.5
	7/25/2019	2.2	<2.0	<2.0	<4.0
	8/7/2020	<1.0	<1.0	<1.0	<1.5
TMW08	4/29/2021	<2.0	<2.0	<2.0	<3.0
I IVIVVUO	9/23/2021	<1.0	<1.0	<1.0	<2.0
	11/23/2021	<1.0	<1.0	<1.0	<1.5
	1/27/2022	<1.0	<1.0	<1.0	<2.0

Ensolum, LLC 2 of 3



# TABLE 2 GROUNDWATER ANALYTICAL RESULTS

Harvest Four Corners, LLC - Lateral H-21 Pipeline Release Rio Arriba County, New Mexico Ensolum Project No. 07B2002005

Well Identification	Sample Date	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Total Xylenes (μg/L)
NMWQCC	Standards	5	1,000	700	620
	5/6/2022	<1.0	<1.0	<1.0	<2.0
TMW08	8/26/2022	<1.0	<1.0	<1.0	<2.0
TIVIVVOO	11/15/2022	<1.0	<1.0	<1.0	<1.5
	1/19/2023	<1.0	<1.0	<1.0	<1.5
	4/29/2021	<2.0	<2.0	<2.0	<3.0
	9/23/2021	<1.0	<1.0	<1.0	<2.0
	11/23/2021	<1.0	<1.0	<1.0	<1.5
	1/27/2022	<1.0	<1.0	<1.0	<2.0
TMW09	5/6/2022	<1.0	<1.0	<1.0	<2.0
	8/26/2022	<1.0	<1.0	<1.0	<2.0
	11/15/2022	<1.0	<1.0	<1.0	<1.5
	1/19/2023	<1.0	<1.0	<1.0	<1.5
	4/29/2021	<1.0	<1.0	<1.0	<1.5
	9/23/2021	<1.0	<1.0	<1.0	<2.0
	11/23/2021	<1.0	<1.0	<1.0	<1.5
T1 #1440	1/27/2022	<1.0	<1.0	<1.0	<2.0
TMW10	5/6/2022	<1.0	<1.0	<1.0	<2.0
	8/26/2022	<1.0	<1.0	<1.0	<2.0
	11/15/2022	<1.0	<1.0	<1.0	<1.5
	1/19/2023	<1.0	<1.0	<1.0	<1.5

## Notes:

μg/L: milligrams per liter

J: The target analyte was positively identified below the quantitation limit and above the detection limit.

ND: not detected, practical quantitation limit unknown

NMWQCC: New Mexico Water Quality Control Commission

--: not analyzed

<0.037: indicates result less than the stated laboratory reporting limit (RL)

Concentrations in **bold** and shaded exceed the New Mexico Water Quality Control Commission Standards, 20.6.2 of the New Mexico Administrative Code

Ensolum, LLC 3 of 3



# **APPENDIX A**

Sample Collection Forms

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Released to Imaging: 5/15/2023 10:41:58 AM

848 E. 2nd Ave. Durango, Colorado 81301 T 970.385.1096

	Quarterly Groundwater M		Pre	oject Location: Sampler:	Luteral H-21
Sample ID	TMW-01				Groundwater
Sample Date	TMW-01 1/27/22			Sample Time:	
Lahoratory	Hall Environmental		Shi		Hand Delivery
	BTEX 8021		0	Marie Company	
					C 77
Depth to Water	4.04		Total	Depth of Well:	7.33
Time			De	pth to Product:	
l of Water to Purge	low-Play		thaitht af us	ster column # 0 1631 G	or 24 mall or 0.4524 for 48 mall) * 2 mall
Method of Purging	Decreballie		(acigni of wa	ater commun. 0.1031 to	91 2 WELL OF 0.0524 ICH 4 WELL) 5 WELL
Method of Sampling	121711111111111111111111111111111111111	<u>~{</u>			or 2" well or 0.6524 for 4" well) * 3 well
Vol.	Total Vol. Removed	pН	Temp.	Conductivit	
Time Removed	(gallons)	(std. units)	(F)	y (us or ms)	Comments
1506 4	4	7.96	5.12	6.46	Clear
1507 4	3	7.99	4.84	6.50	SAVI
1508 4	12	8.61	4.72	6.52	5/14
1509 4	16	3.07	4.64	6.54	SAA
1510 4	20	3,03	4,53	6.56	SAA
1511 4	24	8,03	4.43	6.59	5AA
1512 4	78	8.04	4.39	6.60	5/1.4
15/3 4	32	8.06	4.39	6.62	SAA
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848 E. 2nd Ave Durango, Colorado 81301 T 970.385.1096

# Groundwater Sample Collection Form

Project Name: Quarterly Groundwater Monitoring Project Number:	Project Location: Lateral 1+-21 Sampler: 12 H
Sample ID: Typ-08 02 Sample Date: 1/24/22 Laboratory: Hall Environmental Analyses: BTEX 8021	Matrix: Groundwater Sample Time: [442 Shipping Method: Hand Delivery
Depth to Water: 3.28 Time:	Total Depth of Well: 5.32  Depth to Product:
Vol. of Water to Purge:  Method of Purging:  Method of Sampling:	(height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols

Time	Vol. Removed	Total Vol. Removed (gallons)	pH (std. units)	Temp. (F)	Conductivit y (us or ms)	Comments
1429	4	4	7.18	4.92	S.23	1. Brown
1430	Ÿ	<b>3</b>	7-67	4.80	9.30	SAA
1431	4	12	7.68	4.74	3.32	.5AA
1432	4	16	7.68	4.69	8.30	544
1437	84	2420	7-68	4.58	8.31	5.4.4
1434	84	3224	768	4.54	8.31	SAA
1435	4'	36 28	7.68	4.33	8.35	SAA
1436	4	32	7.68	9.28	8.77	SAA
1937	1	36	7.68	4.28	2, 28	SAA
1438	4	40	7.68	4.29	8.24	SA-A
1439	7	44	7.67	4,28	218	9/4/1
1440	7	48	7.67	4.28	8.18	SAA
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	l					

mments:	
escribe Deviations from SOP:	
gnature:	Date: 1/27/22

	ject Name: et Number:	Quarterly Groundwater Monitoring		Pro	oject Location:	Lateral It-21 RH		
Sa	Sample ID: mple Date: .aboratory:	TMW-03 1/27/22 Hall Environmental				Groundwater 1532		
Depti	h to Water:	3.2. 4.86		Total I	Depth of Well:	6.22		
ol. of Wate Method of Method of	er to Purge: of Purging: Sampling:	low-Flow Perishally Pu	me	(height of wa	ster column * 0.1631 fa	or 2" well or 0.6524 for 4" well) * 3 well vols		
Time	Vol. Removed	Total Vol. Removed ( <del>gallons</del> )	pH (std. units)	Temp.	Conductivit y (us or (ms)	Comments		
15 25	4	4	7.89	6.61	9.83	SAA SAA SAA		
1526	4	3	7.87	6-33	9.13	SAA		
1527	8	16	7.35 7.84	6.27	9.96	SAA		
1528	4	20	7.84	6.13	9.98	SAA		
1529	4	24	7.82	5.96	9.97	SAA		
Comments:	well	begin gung	dry af	Her phy	pmg 24"	)7		
Describe I	Deviations :	from SOP:		1,70	<u> </u>			

Date: 1/27/22

Released to Imaging: 5/15/2023 10:41:58 AM

WSP USA Inc. 848 E. 2nd Ave Durango, Colorado 81301 T 970.385.1096

**Groundwater Sample Collection Form** 

Comments:

Signature:

Vol. of Water to Purge: Method of Purging: Method of Sampling:

# Received by OCD: 3/22/2023 10:11:57 AM

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Released to Imaging: 5/15/2023 10:41:58 AM

848 E. 2nd Ave. Durango, Colorado 81301 T 970.385.1096

	Grounds	vater Sample Colle	cuon Forn	<u> </u>		
		Quarterly Groundwater M		Pro	oject Location:	Lateral   1-21   12H
	et Number:				Sampler:	<u> </u>
S	Sample ID:	TMW-04  Hall Environmental				Groundwater
Sai	mple Date:	· · · · · · · · · · · · · · · · · · ·				1315
L	.aboratory:	BTEX 8021		Shi	pping Method:	Hand Delivery
						F 97
Depth	to Water:	4.28		Total l	Depth of Well:	5.97
	Time:	<del></del>		Dej	oth to Product:	
ol. of Wate	r to Purge:	low-Flow		(height of wa	uter column * 0.1631 fe	or 2" well or 0.6524 for 4" well) * 3 well v
Method of	Sampling:	peristallic po	1 mgr			
Time	Vol.	Total Vol. Removed	pH	Temp.	Conductivit y (us or ms)	Comments
1307	3	8	1.46	10.8	2.25	mwku brown
1309	3	16	1.14	10.1	1.73	silly gray brown
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848 E. 2nd Ave. Durango, Colorado 81301 T 970.385.1096

	Ground	water Sample Colle	ection Forn	1	•	2.1030		
		Quarterly Groundwater M		Project Location: Lateral [+2] Sampler: 72H				
Sample ID: TMW-06 Sample Date: 1/27/22 Laboratory: Hall Environmental Analyses: BTEX 8021				Matrix: Groundwater Sample Time: 1450 Shipping Method: Hand Delivery				
Deptl	h to Water:	7.37		Total I	Depth of Well: oth to Product:	5.54		
l. of Wate Method of dethod of	er to Purge: of Purging: Sampling:	low- flow Peristallia Pu	mp	(height of wa	ster column * 0,1631 fc	or 2" well or 0.6524 for 4" well) * 3 well		
Time	Vol. Removed	Total Vol. Removed (gallons)	pH (std. units)	Temp.	Conductivit y (us or ms)	Comments		
1446 1449 1449 1450 1451 1453 1454 1456 1456 1458	8 3 4 4 4 4 4 4 4 4	8 16 20 28 32 36 40 49 48 52 56 60 64	7.87 7.86 7.85 7.80 7.79 7.78 7.77 7.77 7.77 7.77 7.77	4.67 4.64 4.64 4.29 4.25 4.25 4.24 4.21 4.20 4.19 4.19 4.19	6.42 6.39 6.31 6.39 6.44 6.43 6.43 6.52 6.53 6.54 6.55 6.55	5/4 mwky brown SAA SAA SAA SAA SAA SAA SAA SAA SAA SA		
mments:								
)escribe I	Deviations	from SOP:						
anaturo	C.	10-7			Bota:	1/27/22		

13	37	8	_ 8	7.36	10.34	9.0	murky
133	39	3	16	7.43	7.58	9.49	54A
	40	9	20	7.45	6.70	9.73	SAA
134		4	24	7.46	6.40	9.81	SAA
134	12	4	28	7.48	5.83	9.9/	SAA
134		4	32	7.48	5.83	9.99	SAA
130	14	4	36	750	5.59	10.10	SAA
13'	15	L)	40	7.50	5.53	10.12	544
134	16	4	44	7.51	5.52	10.14	SAA
134	17	C	48	7.52	5.48	10.15	5/1/
	48	4	52	7.53	5.48	10.16	SAA
134		4	56	7.53	5.48 5.44	10.17	5AA 5AA 5A/
135		4	60	7.53	5.44	10.17	5A/
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Groundwater Sample Collection Form

Project Name: Quarterly Groundwater Monitoring

Total Vol. Removed

(gallons) رر

Sample ID: TMW-07

Laboratory: Hall Environmental Analyses: BTEX 8021

Project Number:

Sample Date:

Vol. of Water to Purge:

Time

Method of Purging: Method of Sampling:

Depth to Water: 3.34

Time:

Vol.

Removed

WS	Pι	SA	ın
773	-	SM	111

Project Location: Lateral #-21

Matrix: Groundwater Sample Time: 105 1353

(height of water column \* 0.1631 for 2" well or 0.6524 for 4" well) \* 3 well vols

Comments

ton

Released to Imaging: 5/15/2023 10:41:58 AM

	848 E. 21	nd Ave
Durango,	Colorado	8130
	T 970.38	5.1096

Sampler:

Shipping Method: Hand Delivery

Total Depth of Well:

Depth to Product:

Conductivit

y (us or ms)

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848 E 2nd Ave Durango, Colorado 81301 T 970.385.1096

# **Groundwater Sample Collection Form**

Project Name: Quarterly Groundwater Monitoring Project Number:	Project Location: Lateral 17-21 Sampler:
Sample ID: TMW - 08  Sample Date:  Laboratory: Hall Environmental  Analyses: BTEX 8021	Matrix: Groundwater Sample Time: 142 Shipping Method: Hand Delivery
Depth to Water: 3.58	Total Depth of Well: 5.97  Depth to Product:
Vol. of Water to Purge:   I-w - Flow   Method of Purging:   Purshiff   Purghing:   Purshiff   Purghing:   Purghing	(height of water column * 0.1631 for 2" well or 0.6524 for 4" well} * 3 well vols

Time	Vol. Removed	Total Vol. Removed (gallons) 0 Z	pH (std. units)	Temp.	Conductivit y (us or ms)	Comments
1406	8	8	7.91	5.72	5.85	51t. murky ton
1407	4	12	7.90	5.45	5.59	SAA
1403	4	16	7.90	5.28	5.55 5.55	3/1A
1409	4	20	7.90	5.18	5.55	SAA
1410	4	24	7.39	5.13	5,55	544
1411	4	28	7.89	4.94	5.55 5.54	SAA
14/2	-4	32	7.89	4.84		5x2 5A4
1913	4	36	7.98	4.73	5.56	SAM
1414	4	40	7.99	4.84	5.57	54A
1415	4	44	7.98	4.55	5.58	SAA
1416	4	48	7.96	4.48	5.57	74/1
1417	4	52	7.94	4.42	5,59	SAM
148	4	56	7.93	4.39	5.61	544
1419	4	60	7.92	4.38	5.61	544
1420	4	64	7.92	4.38	5.62	SAA
						-

nments:	
escribe Deviations from SOP:	
ignature:	Date: 1/27/22

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848 E. 2nd Ave. Durango, Colorado 81301 T 970.385.1096

# **Groundwater Sample Collection Form**

Project Name: Project Number:	Quarterly Groundwater Monitoring	Project Location: Sampler:	RH H-21
Sample Date: Laboratory:	TMV - 09 1/27/22 Hall Environmental BTEX 8021	Matrix: Sample Time: Shipping Method:	
Depth to Water: Time:	6.13	Total Depth of Well: Depth to Product:	
Vol. of Water to Purge: Method of Purging: Method of Sampling:	Peristallic pump	(height of water column * 0.1631 fc	or 2" well or 0.6524 for 4" well) * 3 well vols

Time	Vol. Removed	Total Vol. Removed (gallons)	pH (std. units)	Temp.	Conductivit y (us or ms)	Comments
1242	0.125	0.125	6.79	13.4	7.51	SIF Murky
1244	0.125	0.25	6-58	13.3	7.53	5AA '
1245	0.125	0.375	6-52	13.3	7-55	SAA
1246	0-125	0.625	6.43	13.2	7.56	SAA
1247	0.125	0.625	6.44	13.2	7.56	SAA SAA
1248	0.125	0.75	6-39	13.1	7.58	SAA
1249	0-125	0.875	6-33	13.1	7.51	SAA
1250	0-125	1.0	6,24	13.0	7.60	544
1251	0.125	1.125	6-18	12.9	7.61	sag Clear
1252	0.125	1.25	6.18	12.9	7.61	Clear
1253	0.125	1.375	6-12	12.9	7.62	5AA 5AA
1254	0.125	1.5	6.11	12.9	7.61	544
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					<u> </u>	

omments:	
Describe Deviations from SOP:	
ignature:	Date: 1/27/22

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848 E. 2nd Ave. Durango, Colorado 81301 T 970.385.1096

# **Groundwater Sample Collection Form**

Project Name: Quarterly Ground Project Number:	water Monitoring	Project Location: Sampler:	Lateral 1+-21 KH
Sample ID: TMW - 10 Sample Date: Laboratory: Hall Environm Analyses: BTEX 8021		Matrix: Sample Time: Shipping Method:	
Depth to Water: 5.7/		Total Depth of Well: Depth to Product:	8.31
Vol. of Water to Purge: low - Flo Method of Purging: Peris Kalting Method of Sampling:	· pump	ht of water column * 0.1631 fc	or 2" well or 0.6524 for 4" well) * 3 well vols
Vol. Total Vol. Re	moved nH Tem	n Conductivit	

Time	Vol. Removed	Total Vol. Removed (gallons)	pH (std. units)	Temp.	Conductivit y (us or ms)	Comments
1157	0.25	0.25	6.70	13.9	7.07	5/t murky
1201	0.25	0.5	6.81	13.6	7.04	SAA
1203	0.25	0.75	6.82	13.5	7.02	544
1205	0.25	1.0	7.06	13.3	7.03	FAA Clear
1207	0.25	1.25	7.07	13.2	7.05	Clear
1209	0.25	1.5	7.12	13.1	7.07	SAA
1211	0.25	1.75	7.23	13-1	7.07	EAA
1214	0.25	2.0	7.21	12.9	7.17	5AA
1216	0.25	2.25	7.23	12.8	7.13	SAA
1219	0.25	2.50	7.29	12.8	7.18	SAA
1221	0.25	2.75	6.79	13.3	7.02	SAA
D23	0.25		6.83	13.2	7.04	SAA
1225	0.25	3.25	6.81	17.2	7.04	SAA
1227	0.25	3.50	6.31	13.2	7.05	SAA
1229	0.25	3.75	6.82	13.1	7.05	SAA
			Į			

mments:	
Describe Deviations from SOP:	
Signature: /Cells	Date: 1/27/22

Received by OCD: 3/22/2023 10:11:57 AM

Project Project	the Harvest of Name: Late of Location: Late of Manager: B- H	H-21				L	OW-FLOW	/ GROUNE	OWATER	SAMPLIN	G FORM	
		PLING INFORMATION		Soil Boring / M	Monitor Well Num	ber:_ TA	1wol					
Total Scree				Date Calibrate	r Quality Meter:_ ed:5 -6 -	3M	ARUAT	Froll				
Geolo	ele Tubing Intake Depth: pgist: Carr	01'										
Menitor Well Data	Tubing Placement	GW Depth (static)	After Purge	Time (minutes)	Purge Rate (L/min)	Temp.	pH (unitless)	DO (mg/L)	ORP (mV)	Cond. (mS/cm)	GW Depth (feet)	Comments:
		4.20										NR = Not Recorded
												NR - Grab Sample
-												
-												
-												■ ENSOLUM

Client: HOLVEST  Project Name: Lot H-21  Project Location: Project Manager: B. Herb  SAMPLING INFORMATION  Dete Completed: 5-6-2  Total Depth of Monitor Well: 5-28  Screen Interval: Sample Tubing Intake Depth: Geologist:	Soil Boring / Monitor Well Number
Tubing Placement GW Depth (static) After Purge	Time

Client:	LOW-FLOW GROUNDWATER SAMPLING FORM									
SAMPLING INFORMATION  Date Completed: 5-6-72  Total Depth of Monitor Well: 6-2    Screen Interval: Sample Tubing Intake Depth: Geologist: E-carroll	Soil Boring / Monitor Well Number: TMW 03  Project #:  Type of Water Quality Meter: Aquatrol    Date Calibrated: 5-6-72  Other Notes:									
Tubing Placement GW Depth (static) After Purge	Time   Purge Rate   Temp.   pH   DO   ORP   Cond.   GW Depth (ms/cm)   (feet)									
	□ ENSOLUM									

	Soil Boring / Monitor Well Number: TMWOU  Project #:  Type of Water Quality Meter: Aquation  Date Calibrated: 5-C-22  Other Notes:
Tubing Placement GW Depth (static) After F	Time

Pro Pro	SAM  Completed:	H-21 Herb PLING INFORMATION -C-22		Project #:	Monitor Well Nu	umber:	LOW-FLOW		DWATER	SAMPLIN	G FORM	
Scree	Il Depth of Monitor Well: leen Interval: ple Tubing Intake Depth: ogist:			Date Calibrat Other Notes:	ted: 5-0	2-22	7(0 + 011					
Mainer Well Name	Tubing Placement	GW Depth (static)	After Purge	Time (minutes)	Purge Rate (L/min)  O_! O_! O_! O_! O_!	Temp. (°C)  12-6 12-4 12-3 12-3	PH (unitless)  19-6  7.80  7.78  7.78  7.76	DO (mg/L)	ORP (mV)	Cond. (mS/cm)  C.5G G-47 G-47 G-49	GW Depth (feet)	NR = Not Recorded TUrbid, dark brown
												■ ENSOLUM

1	Client Haves of Late Project Name: Late Project Location: Project Manager: B-H6	- H-21					_OW-FLOW		DWATER	SAMPLING	G FORM	
	SAMI	PLING INFORMATION		Soil Boring / I	Monitor Well Nu	mber:	MWO	7				
So Sa	ate Completed: 5 - otal Depth of Monitor Well: creen Interval: imple Tubing Intake Depth: otologist:			Project #: Type of Wate Date Calibrate Other Notes:		A9110	ubroll					
Monitor Well Page	Tubing Placement	GW Depth (static)	After Purge	Time (minutes)	Purge Rate	Temp.	pH (unitless)	DO (mg/L)	ORP (mV)	Cond. (mS/cm)	GW Depth	Comments:
F		3,42	The raige		0-1	14.7	7.41	NR	ar	9.42	M	NR = Not Recorded
		2,47		3 456	6-1 0-1 0-1 0-1	14.6 14.4 14.4 14.3	7.47 7.50 7.51 7.53 7.63	MR	NR	9.81 9.90 9.94 9.99 D-01	*	turbid, It. brown
												□ ENSOLUM

	We were				The second second							
P	lient: Harvest roject Name: Lat. roject Location: roject Manager: B. 17	H-21				Ĺ	-OW-FLOV	V GROUN	DWATER	SAMPLIN	G FORM	
	SAMP	LING INFORMATION			Monitor Well Nur	mber: TA	nw08	?				
		5-22			r Quality Meter:		atroll					
	tal Depth of Monitor Well:				ed: 5 - c	The County of the						
	mple Tubing Intake Depth:	~~01/										
Menitor	Tubing Placement	GW Depth (static)	After Purge	Time	Purge Rate	Temp.	рН	DO	ORP	Cond.	GW Depth	Comments:
F		3,63	Aiter Purge	(minutes)	(L/min)	(°C)	(unitless) 7. 7 8	(mg/L)	(mV)	(mS/cm)	(feet)	NR = Not Recorded
H		1,61		3	0-1	13.6	7.88			5.63		THE STATE OF THE S
H				5	0-1	13-5	7.90	1	1	5.63	1	Turbid, It. brown
H					0-1	13-5	7.92	-		5-64	~	
1												
H												
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-												
												■ ENSOLUM

Project Location:	H-21					OW-FLOW		OWATER :	BAMPLING	FORM	
Date Completed. 5  Total Depth of Monitor Welt: Screen Interval: Sample Tubing Intake Depth:	8-06		Soil Boring / Monitor Well Number: TMW09  Project #:								
Tubing Placement	GW Depth (static)	After Purge	Time (minutes)	Purge Rate (L/min)	Temp.	pH (unitless)	DO (mg/L)	ORP (mV)	Cond. (mS/cm)	GW Depth	Comments:
	6.16		78	0.1	15-1 15.0 14-91 14-87 14-83 14-72 14-71	6.32 6.47 6.55 6.63 6.73 6.73 6.73	NR	NR V	7.55 7.54 7.57 7.60 7.61 7.61 7.62 7.62 7.62	NK V	NR = Not Recorded  TOUBID, 16. Brown

Proje Proje Proje Date Total Scree	act Name: LCL t act Location: act Manager: B - H  SAMI  Completed: 5 - I Depth of Monitor Well: act Interval: ple Tubing Intake Depth: ogist: E - CO	PLING INFORMATION  G-22  8-20		Project #:  Type of Wate  Date Calibrate	r Quality Meter:_ ed:5 - c	nber:			DWATER :	SAMPLING	GFORM	
Menitor Well Detail	Tubing Placement	GW Depth (static)	After Purge	Time (minutes)	Purge Rate (L/min)	Temp.	pH (unitless)	DO (mg/L)	ORP (mV)	Cond. (mS/cm)	GW Depth	Comments:
	Tuong Placement	5-88	Atter Fulge	1 2 3 4 3 6 7 8 9	0.1	15,20	6-83 6-85 6-85 6-83 6-83			7.01 7.04 7.09 7.00 7.05 7.04 7.04 7.04 7.04	NR VR	R = Not Recorded  ENSOLUM

MW-1

MA- HARDER STANDER STA

46 Location Lateral H-21	
Project / Client 11	Location -
124. 2020 Taken Nobel 1.	Localia / C
124, 2020 Tocone, Metal detector 10WES	
1115 21	MW
after ran event + evaluate ( )	300
of MW's	condi
91 710	Vel
MW08- not buil	MW-
NW08- not buried, appears to be in	100
normal condition, plant stake w	
MWO7 - b wird under 1-2" sed: nest, 1sts	MW-
of seds must in casing box, cleaned out,	
placed state we green flagger,	
MW02 - build under 3-5" selsnet, some	- MW
Sediment in casing box, cleaned out, place &	Har
	hw
MWG- gortially burkly good condition, placed	d
stake we given flagsing	h
MUOI - build made ~ 2" seliment, cap still	de
intent, good condition. Placed stake w	11
0.00	m
MW 12- not buried good condition	.W
Mwo3 - 6 wied under 12" sediment, pin Flag visible	7
Some mud in casing lox, good condition,	1
- L. A (Like I am Hans ha	1
MWOOT- good anditing unburied, places	
Myon- gid unditin unburied, placed green flagging in existing state9 col	-
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Rel

	Lateral H-21 continued Date 8/25/22 47
25/22	Later
1	
'5	MWP and in casing
adition	Condition
	Jell DTW BTTD Bail ~ 6 gal brown 18.37 8.30 130:1~ 6 gal brown 18.37 8.30 1- 5:117 water, 9.30
>	MW Charge
lots	1W-03 4.30 6.22 Bail ~ 0. 1 galdark
<i>t</i> ,	recharge
ne	MW-09 5.60 8.08 Bail ~ Bgal 1 (1000 5.14 1+20, Jecent recharge
u d	1/278 5.93 Bail ~ 0.7991
ned	dark gray 1+20 301 ~ 0.3 201
51:1/	dwk gray 1/20, poor recharge  dwk gray 1/20, poor recharge  nul 08 3.26 5.97 Bail v 0.4 gal
	md. 2my 5:1tg/mully 1tg 0, 13 ~ 0.5 9-1
	MW02 4.05 3. 14 mudy 140 , 300 re-charge ond. grey 5:14/mudy 140, 300 re-charge
1:3:614	MW06 2.62 3.50 deent recharge
	md. 5:173/ 7 28 4.98 Bail NO. 27 50
Released to Imag	ing: 5/15/2023 10:41:58 AM   20, Pool recharge 2H 1FC 4: 10 Rite in the 1

Project  10:20  10:20  TMW 01  TMW02  TMW03  TMW07  TMW07  TMW07  TMW07  TMW07  TMW07  TMW07  TMW10  TMW10  TMW10	125 Sumple 125 Sumple 1247 1130 104 138 15 24 15	wells	bailed temp.	down of the same	on Swamp
1215 6	A CONTRACTOR	site	<b>3</b>	argall	W

Location -

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Released to Imaging: 5/15/2023 10:41:58 AM

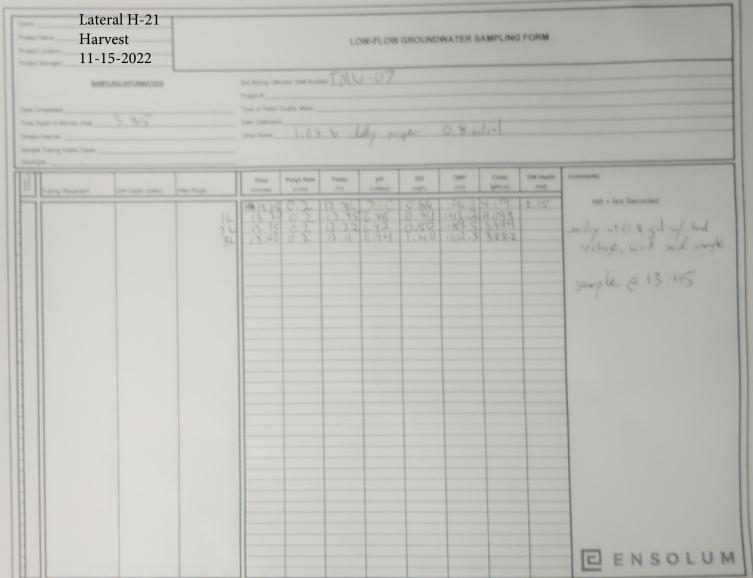
SAMPLING INFORMATION  Bott Borling / Movitor Well Number TWW - 0    Project #  Type of Water Quality Meller  Type of Water Qua												
icement ()			Time (minutes)	Purpe Rate (Lines)	Temp.	pH (unificate)	200 (mg/s) 12/13/13/13/13/13/13/13/13/13/13/13/13/13/	ORP (mV)	Cond. (mS/tm)	GW Depth (feet)	comments:  O NR = Not Recorded  - S no additional  rechange sanded  O . 5 sal  - Slow rechange  Sample (2) 11:55	

Lateral Harvest				LOW-FLOW GROUNDWATER SAMPLING FORM									
11-15-2 SAMPS  ate Completed	022 ING INFORMATION	Pr	Soil Boring / Monitor Well Number 1 1/1 W - 02  Project #										
Tubing Placement	GW Cepth (static)	After Purgs	JL 3L	Time (minutes)	Purge Rate (Umin)	7emp. (°C)	PH (unitera) (4.82-6.83 (4.95	00 (mpt)	-79.6 -70.5 -71.6	Cond. (m5/cm) 4 2 0 0 4 0 3 0 3 3 1 3	GW Depth (held)	comments:  NR = Not Recorded  Aday At 21/05 sol wat  The recluye and sample  Sample @ (3:20)	
												□ ENSOLUN	

Lateral H-21 Harvest 11-15-2022		LOW-FLOW GROUNDWATER SAMPLING FORM  Soil Bering / Monitor Well Number: TW W - 0 3  Project #_										
hate Completed. Total Depth of Moristor Well: (2)		Type of Water Quality Meter  Oute Celibrated  Other Notes  Other Notes  Other Notes  Other Notes										
Opothopist  Tubing Placement OW Depth (static)	After Purge	Time (mandes)	Purge Rate (Limit)	Temp. (°C)	pH (nilleas) 7. 31 7. 0	DO (mg/s)	ORP (m/s)	Cond. (infivin)		NR = Not Recorded  NR = Not Recorded  Policy at 1.5 L, pour rechise want for rechise and sample  14:30 sample time		
										E ENSOLUI		

Lateral H-21 Harvest 11-15-2022	LOW-FLOW GROUNDWATER SAMPLING FORM										
SAMPLING INFORMATION  Date Completed  Total Depth of Monitor Welt  Screen Inservat  Sample Tubing Insaks Depth:  Geologist	Soil Boring / Maritor Well Number: TMW - 0 4 Project # Type of Weller Quality Meter: Date Calibrated: Other Notes: 1,07 to purgle 0.4 a.s.tu.a.										
Tubing Placement GW Depth (static) After Purge	Time   Purper Plate   Temps   pit   DO   GRP   Cond.   GW Depth   Commercia: W., ody										
leased to Imaging: 5/15/2023 10:41:58 A	E ENSOLUM										

Date Comple Total Depth of Screen interv	Harv sper 11-1: SAMPL sted of Monitor Well	5-2022 ING INFORMATION	Soil Boring / Monster Well Number TMW - 06  Project #  Type of Water Quality Meter  Date Calibrated  Other Notes (914) to cles by page 1.0 actual garge											
1311			Time	Purge Rate	Temp.	pH (unitiess)	DO (mg/L)	ORP (mV)	Cond.	GW Depth	Comments:			
TUDA	ng Placement	GW Depth (static)	(minutes) (2:00) (3:40) (12:20)	(Umin)						3.15	NR = Not Recorded  - dry at 4 L wait for recharge and semple			
											sample at 12:25			
											■ ENSOLUM			



Clerk Lateral H-2 Project Name Harvest Project Loading 11-15-2022  SAMPLING INFORMATIX  Date Completed Total Depth of Montor Well 5, 17 Screen Interval Search Tuting Inteke Depth.	Project if Type of Wate Date Calibrate	r Quality Meter,	meer_TM	LW-08					actually
Tubing Placement GW Depth (state	Time (min.das)  12:50 13:35 13:40	Purge Rate (Limin)	(°C)	pH (withers)  6.65  6.83  6.28	00 (mot) (0.87 4, % 6 5.10	ORP (11/1) -16/10 28/11/21/21/21/21/21/21/21/21/21/21/21/21/	Cond. Water) 2.3.74(1,7.2.1,1.9.20	GW Depth (feet)	R= Not Recorded  -> backed dry w/ mm mal recharge and 22/.5521 want for recharge and sample  Sample Q Affer 13:00

roject Name:Harv	ral H-21 vest 5-2022						OW-FLOW		OWATER S	SAMPLING	G FORM		
SAMP ate Completed: otal Depth of Monitor Welt: creen Interval: ample Tubing Intake Depth: eologist	E-08			Soil Boring / Monitor Well Number. TMW - OT Project #: Type of Water Quality Meter: Date Calibrated Other Notes: 1 2 to 3 cg.									
Tubing Placement	GW Depth (static)	After Purge	2L 4L 5L	Time (minutes)  13 15  13 35  15 40	Purge Rate (Umin)  12 - 2	Temp. (c)	pH (unitess)  6.77  6.70  7.71  6.77	DO (mgt)  3,06 0,75 1,11 0,86	15.2	Cond. Usom) 5774 4517 4354 4354	GW Depth (heet)	Comments: CLECY  NR = Not Recorded  Simple @ 15:40	
												□ ENSOLU	

Project Name	eral H-21 rvest 15-2022	LOW-FLOW GROUNDWATER SAMPLING FORM											
SAM  Date Completed  Total Depth of Monitor Well:  Screen Interval:  Sample Tubing Intake Depth:  Geologist:			Soil Boring / Monitor Well Number										
Tubing Placement	GW Depth (etatic)			Purge Rate (L/min)	Temp. (°C)	pH (initias)  6.83  6.50  6.61	00 (mpl) 0.42 0.54 0.55	ORP (m/)13.223.420.322.0	Cond. (m8t/m)	GW Depth (feet)	NR = Not Recorded  Clear  Sample @ 15:10		
											□ ENSOLUM		

Page 56 of 133

Client Harvert	
Project Name Locton   H-21	
Project Location Large Canger	LOW-FLOW GROUNDWATER SAMPLING FORM
Project Manager Brache Herb	
SAMPLING INFORMATION	Soil Boring / Monitor Well Number TM W - 0
Date Completed. 1-19-23	Project # 0702007010
	Type of Water Quality Meter_ Oak by
Total Depth of Monitor Well: 5.30	Date Calibrated   -   1 - 2 - 3
Screen Interval.	Other Notes
Sample Tubing Intake Depth 5,30 TV	

	and Des	Tubing Placement	GW Depth (static)	After Purge	Time (minutes)	Purge Rate (Umin)	Temp. (℃)	pH (unitless)	(mg/L)	ORP (mV)	Cond.	GW Depth (feet)	Comments:
					ONO ONO	0.23	6.2 5.9 5.0	7.78		15.2 -31.6 -429	6.83 7.02 7.16	3.05	NR = Not Recorded
													Dry @ 0.6591  Sample = 7 11:25  · Slow recharge.  Clearish slyntly closely  swamp ider
													·Slow recharge.
													Swamp when
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Project Name Laten H2 Project Location Large Canyon Project Manager Backs Hob  SAMPLING INFORMATION	Soil Boring / Monitor Well Number 1000 2000 70 100 Type of Water Quality Meter 2000 70 100											
Date Completed 9-23  Total Depth of Monitor Well 5.30  Screen Interval Sample Tubing Intake Depth.  Geologist 2W	Date	Type of Water Quality Meter Oeld fon  Date Calibrated 1 (9 - 23										
Tubing Placement GW Depth (static)	ther Purge (m	Time Purge Rate (Limin)	Temp. (co)	pH (unites)  7.62  7.62  7.62	(mg/L)	ORP (mV)	Cond. (m) cm)	GW Depth (feet)	NR = Not Recorded  10.92 5-1 to porge  18 Dry at 0.5 5-1  Slow recharge  Class, swamp oder  Sanyae at 12:20			

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Pro	nt Hove ect Name Lo ect Location L ect Manager A	+46	H-21					OW-FLOW	GROUND	WATER S	AMPLING	FORM			
Sor Sar	a Completed al Depth of Monit een Interval nple Tubino Intal	lor Well													
Ge	П		GW Depth (static)	After Purge	Time (minutes)	Purge Rate (∪min)	Temp.	pH (unitless)	<b>99</b>	ORP (mV)	Cond.	GW Depth (feet)	comments: 1.050 to page		
						0.19	<b>5</b> .9 <b>5</b> .9 <b>6</b> .9	792 792 7.88		57.3 -29.3 -31.4	9.0 9.47 9.58		NR = Not Recorded  Nucley, Swang ador  - Slow racharge  dry at 0.5 gal  Sample at 14:00		
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Proje	d Name Lateral of Location Location Comments of Manager Books	mon		LOW-FLOW GROUNDWATER SAMPLING FORM										
Sampling Information  Date Completed				Soil Boring / Monitor Well Number TWW - 0 4  Project # 070 2007 0 L 0  Type of Water Quality Meter Oak to  Date Calibrated 1 - 19 - 23  Other Notes										
Mante Dated	Tubing Placement	GW Depth (static)	After Purge	Time (minutes)	Purge Rate (L/min)	Temp.	pH (unitless)	Dg/ (mg/L)	ORP (mV)	Cond.	GW Depth	comments: 0.95 gal to purge		
				5 (0	0,19	5.3	G.64 G.72 G.68		4.3 -14.2 -28.4	2.83 3.91 m 4.3		NR= Not Recorded - Mud aly Sulamp oder - Slow recharge  dry at 0.5 gal  Sample at 13:20		
												<b>ENSOLUM</b>		

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Cherk Harver Time Laster H-21  Project Name Laster H-21  Project Manager  Soll Boring / Monitor Well Number TIM - 26											
SAMPLING INFORMATION  Date Completed _ = 9 - 23  Total Depth of Monstor Weil _ 5 o 50  Screen Interval Sample Tubing Intake Depth Geologist											
Tubing Placement GW Depth (static) After Purge	Time   Purp Rate   Timp   pH   000   ORP   Cond.   Commerce:   57 gal to parge										

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Pro	Project Name Latera Hall Project Location Lago Cawyn Project Manager Brooke Halo													
San	SAMPLING INFORMATION  Date Completed 1- 14-23  Total Depth of Monitor Well 5,35				Soil Boring / Monitor Well Number									
ments	Tubing Placement	GW Depth (static)	After Purge	Time (minutes)	Purge Rate (Umin)  O 2  O 2  O 2  O 2	Temp. (%) 5.8 5.9 5.4 5.2	PH (unitiess)  2.24  7.42  7.56  7.61		- 38.4 - 41.7 - 47.3 - 48.1	Cond. (m) vem)	GW Depth (feet)	NR = Not Recorded  NR = Not Recorded  No muddy sumpodor slow recharge  dry at 0.85%  Somple at 13:00		
-												□ ENSOLUM		

Project Name Later H-2	LOW-FLOW GROUNDWATER SAMPLING FORM								
	Soil Boring / Monitor Well Number								
Tubing Placement GW Depth (static)	Time (umass) Purge Rate (umass) (umass								

Client	Project # 076 200 70 10  Type of Water Quality Meter Oak ton  Date Calibrated   - 19 - 23									
d d Dad	After Purpe	Time	Purge Rate	Temp.	pH	00	ORP	Cond.	GW Depth	comments: 1. 4 grl to pury
Tubing Placement GW Depth (static)	After Purge	(minutes)	(Lmin)	(c) 7.7 7.1 6.4 5.3	(Miles)  7. 12 6. 92 6. 93 6. 83	Mol	(mv) -1.2 14.1 28.2 31.2	(m)cm)  1003 -1.77 -1.51 -1.83 -10.00		NR = Not Recorded cloudy, swamp och slow recharge dry at 1.2 grl  Sample at 13:40

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Project Name Lateral H21 Project Location Largo Conyan Project Manager Braite Herb  SAMPLING INFORMATION	LOW-FLOW GROUNDWATER SAMPLING FORM  Soil Boring / Monitor Well Number									
	_ Date Calibrate _ Other Notes _	Type of Water Quality Meter O6k ton  Date Calibrated 1-19-23								
Tubing Placement GW Depth (static)	After Purge	Time (minutes)	Purge Rate (Umin)  0.3/ 0.3/ 0.3/ 0.3/ 0.3/ 0.3/	Temp. (c)  7. (6, 7, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	pH (unitiess)  7. 2-1  2. 3. 4  5. 15  6. 15		ORP (mV) -35.1 -3(.2 23.7 -24.3 -21.7	Cond. (majem)	GW Depth (feet)	NR = Not Recorded  clerr  1.65gel/3x resim pergel  Soumple at 14:30

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# **APPENDIX B**

**Laboratory Analytical Reports** 



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

February 09, 2022

Brooke Herb

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413 TEL: (505) 632-4475

FAX:

RE: Lateral H21 OrderNo.: 2201B37

#### Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 9 sample(s) on 1/28/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **2201B37**Date Reported: **2/9/2022** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: TMW-01

 Project:
 Lateral H21
 Collection Date: 1/27/2022 3:15:00 PM

 Lab ID:
 2201B37-001
 Matrix: GROUNDWA
 Received Date: 1/28/2022 9:00:00 AM

Analyses	Result	RL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	1.0	μg/L	1	2/3/2022 1:50:00 PM	R85592
Toluene	ND	1.0	μg/L	1	2/3/2022 1:50:00 PM	R85592
Ethylbenzene	ND	1.0	μg/L	1	2/3/2022 1:50:00 PM	R85592
Xylenes, Total	ND	2.0	μg/L	1	2/3/2022 1:50:00 PM	R85592
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	1	2/3/2022 1:50:00 PM	R85592

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

Qualifiers:

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

Page 1 of 10

Lab Order **2201B37**Date Reported: **2/9/2022** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: TMW-02

 Project:
 Lateral H21
 Collection Date: 1/27/2022 2:42:00 PM

 Lab ID:
 2201B37-002
 Matrix: GROUNDWA
 Received Date: 1/28/2022 9:00:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	1.0	μg/L	1	2/3/2022 2:10:00 PM	R85592
Toluene	ND	1.0	μg/L	1	2/3/2022 2:10:00 PM	R85592
Ethylbenzene	ND	1.0	μg/L	1	2/3/2022 2:10:00 PM	R85592
Xylenes, Total	ND	2.0	μg/L	1	2/3/2022 2:10:00 PM	R85592
Surr: 4-Bromofluorobenzene	99.0	70-130	%Rec	1	2/3/2022 2:10:00 PM	R85592

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

Qualifiers:

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

Page 2 of 10

Lab Order **2201B37**Date Reported: **2/9/2022** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: TMW-03

 Project:
 Lateral H21
 Collection Date: 1/27/2022 3:32:00 PM

 Lab ID:
 2201B37-003
 Matrix: GROUNDWA
 Received Date: 1/28/2022 9:00:00 AM

Analyses	Result	RL Qı	ial Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	1.0	μg/L	1	2/3/2022 3:08:00 PM	R85592
Toluene	ND	1.0	μg/L	1	2/3/2022 3:08:00 PM	R85592
Ethylbenzene	ND	1.0	μg/L	1	2/3/2022 3:08:00 PM	R85592
Xylenes, Total	ND	2.0	μg/L	1	2/3/2022 3:08:00 PM	R85592
Surr: 4-Bromofluorobenzene	96.7	70-130	%Rec	1	2/3/2022 3:08:00 PM	R85592

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

Qualifiers:

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

Page 3 of 10

Lab Order **2201B37**Date Reported: **2/9/2022** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: TMW-04

 Project:
 Lateral H21
 Collection Date: 1/27/2022 1:15:00 PM

 Lab ID:
 2201B37-004
 Matrix: GROUNDWA
 Received Date: 1/28/2022 9:00:00 AM

Analyses	Result	RL Qı	ial Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	1.0	μg/L	1	2/3/2022 3:28:00 PM	R85592
Toluene	ND	1.0	μg/L	1	2/3/2022 3:28:00 PM	R85592
Ethylbenzene	ND	1.0	μg/L	1	2/3/2022 3:28:00 PM	R85592
Xylenes, Total	ND	2.0	μg/L	1	2/3/2022 3:28:00 PM	R85592
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	2/3/2022 3:28:00 PM	R85592

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

Qualifiers:

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

Page 4 of 10

Lab Order **2201B37**Date Reported: **2/9/2022** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: TMW-06

 Project:
 Lateral H21
 Collection Date: 1/27/2022 2:50:00 PM

 Lab ID:
 2201B37-005
 Matrix: GROUNDWA
 Received Date: 1/28/2022 9:00:00 AM

Analyses	Result	RL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	:: RAA
Benzene	ND	1.0	μg/L	1	2/3/2022 3:48:00 PM	R85592
Toluene	ND	1.0	μg/L	1	2/3/2022 3:48:00 PM	R85592
Ethylbenzene	ND	1.0	μg/L	1	2/3/2022 3:48:00 PM	R85592
Xylenes, Total	ND	2.0	μg/L	1	2/3/2022 3:48:00 PM	R85592
Surr: 4-Bromofluorobenzene	99.9	70-130	%Rec	1	2/3/2022 3:48:00 PM	R85592

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

Qualifiers:

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

Page 5 of 10

Lab Order **2201B37**Date Reported: **2/9/2022** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: TMW-07

 Project:
 Lateral H21
 Collection Date: 1/27/2022 1:53:00 PM

 Lab ID:
 2201B37-006
 Matrix: GROUNDWA
 Received Date: 1/28/2022 9:00:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	:: RAA
Benzene	ND	1.0	μg/L	1	2/3/2022 12:51:00 PM	R85592
Toluene	ND	1.0	μg/L	1	2/3/2022 12:51:00 PM	R85592
Ethylbenzene	ND	1.0	μg/L	1	2/3/2022 12:51:00 PM	R85592
Xylenes, Total	ND	2.0	μg/L	1	2/3/2022 12:51:00 PM	R85592
Surr: 4-Bromofluorobenzene	94.5	70-130	%Rec	1	2/3/2022 12:51:00 PM	R85592

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

Qualifiers:

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

Page 6 of 10

**CLIENT:** Harvest

### **Analytical Report**

Lab Order **2201B37**Date Reported: **2/9/2022** 

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: TMW-08

 Project:
 Lateral H21
 Collection Date: 1/27/2022 2:21:00 PM

 Lab ID:
 2201B37-007
 Matrix: GROUNDWA
 Received Date: 1/28/2022 9:00:00 AM

Result **RL Qual Units Analyses DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: RAA ND 2/3/2022 4:07:00 PM R85592 Benzene 1.0 μg/L Toluene ND 1.0 μg/L 2/3/2022 4:07:00 PM R85592 Ethylbenzene ND μg/L 2/3/2022 4:07:00 PM R85592 1.0 Xylenes, Total ND 2.0 μg/L 2/3/2022 4:07:00 PM R85592 R85592 Surr: 4-Bromofluorobenzene 94.3 %Rec 2/3/2022 4:07:00 PM 70-130

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

Qualifiers:

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

Page 7 of 10

### **Analytical Report**

Lab Order **2201B37**Date Reported: **2/9/2022** 

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: TMW-09

 Project:
 Lateral H21
 Collection Date: 1/27/2022 12:57:00 PM

 Lab ID:
 2201B37-008
 Matrix: GROUNDWA
 Received Date: 1/28/2022 9:00:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	1.0	μg/L	1	2/3/2022 4:27:00 PM	R85592
Toluene	ND	1.0	μg/L	1	2/3/2022 4:27:00 PM	R85592
Ethylbenzene	ND	1.0	μg/L	1	2/3/2022 4:27:00 PM	R85592
Xylenes, Total	ND	2.0	μg/L	1	2/3/2022 4:27:00 PM	R85592
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	1	2/3/2022 4:27:00 PM	R85592

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

Qualifiers:

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

Page 8 of 10

### **Analytical Report**

Lab Order **2201B37**Date Reported: **2/9/2022** 

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: TMW-10

 Project:
 Lateral H21
 Collection Date: 1/27/2022 12:31:00 PM

 Lab ID:
 2201B37-009
 Matrix: GROUNDWA
 Received Date: 1/28/2022 9:00:00 AM

Analyses	Result	RL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	:: RAA
Benzene	ND	1.0	μg/L	1	2/3/2022 4:46:00 PM	R85592
Toluene	ND	1.0	μg/L	1	2/3/2022 4:46:00 PM	R85592
Ethylbenzene	ND	1.0	μg/L	1	2/3/2022 4:46:00 PM	R85592
Xylenes, Total	ND	2.0	μg/L	1	2/3/2022 4:46:00 PM	R85592
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	2/3/2022 4:46:00 PM	R85592

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

Qualifiers:

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

Page 9 of 10

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2201B37** 

09-Feb-22

Client: Harvest
Project: Lateral H21

Sample ID: 100ng btex lcs	SampT	ype: <b>LC</b>	s	Tes						
Client ID: LCSW	Batch	n ID: <b>R8</b>	5592	F	RunNo: 8	5592				
Prep Date:	Analysis D	ate: <b>2/</b> 3	3/2022	S	SeqNo: 30	013049	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.6	80	120			
Toluene	19	1.0	20.00	0	95.9	80	120			
Ethylbenzene	19	1.0	20.00	0	97.0	80	120			
Xylenes, Total	57	2.0	60.00	0	95.3	80	120			
Surr: 4-Bromofluorobenzene	19		20.00		94.1	70	130			

Sample ID: <b>mb</b>	BLK	TestCode: EPA Method 8021B: Volatiles										
Client ID: PBW	Client ID: PBW Batch ID: R85592 RunNo: 85592											
Prep Date:	Analysis Date: <b>2/3/2022</b>			S	SeqNo: 30	013050	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	2.0										
Surr: 4-Bromofluorobenzene	17		20.00		86.7	70	130					

Sample ID: 2201b37-002a ms	SampT	ype: <b>MS</b>	;	Tes	tCode: El	PA Method	8021B: Volati	les		
Client ID: TMW-02	Batch	ID: <b>R8</b>	5592	F	RunNo: 8	5592				
Prep Date:	Analysis D	ate: <b>2/</b> 3	3/2022	8	SeqNo: 30	013505	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	80	120			
Toluene	20	1.0	20.00	0	102	80	120			
Ethylbenzene	20	1.0	20.00	0	99.9	80	120			
Xylenes, Total	60	2.0	60.00	0	99.4	80	120			
Surr: 4-Bromofluorobenzene	18		20.00		90.3	70	130			

Sample ID: 2201B37-002A MS	SD SampT	ype: MS	D	Tes	tCode: <b>EF</b>	PA Method	8021B: Volati	les		
Client ID: TMW-02	Batch	ID: <b>R8</b>	5592	F	RunNo: 8	5592				
Prep Date:	Analysis D	ate: <b>2/</b> :	3/2022	8	SeqNo: 30	013506	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.6	80	120	4.75	20	
Toluene	20	1.0	20.00	0	97.7	80	120	4.03	20	
Ethylbenzene	20	1.0	20.00	0	98.2	80	120	1.69	20	
Xylenes, Total	59	2.0	60.00	0	98.0	80	120	1.37	20	
Surr: 4-Bromofluorobenzene	18		20.00		90.2	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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 10



ENVIRONMENTAL ANALYSIS LABORATORY Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

# Sample Log-In Check List

Client Name:	Harvest		Wor	k Order Nun	nber: 22	01B	37				Rcpti	No: 1		
Received By:	Sean Living	ston	1/28/2	022 9:00:00	АМ			5.	_/_	note				
Completed By:	Cheyenne C	ason	1/31/2	022 8:52:09	АМ		,	1/2	1	yota				
Reviewed By:	Po 1.31.22						Ĺ	Alm						
Chain of Cust														
1. Is Chain of Cu	istody complete	e?			Υe	s		No		Not	Present [			
2. How was the s	sample delivere	ed?			Co	urier								
Log In														
3. Was an attemp	pt made to coo	I the samples	•		Ye	s 🗸	•	No			NA 🗆			
4. Were all sample	les received at	a temperature	of >0° C	to 6.0°C	Ye	s 🗸	]	No			NA 🗆	]		
5. Sample(s) in p	roper container	r(s)?			Ye	s <b>V</b>	]	No						
6. Sufficient samp	ole volume for i	ndicated test(s	s)?		Yes	<b>V</b>		No						
7. Are samples (e	xcept VOA and	d ONG) proper	ly preserv	ed?	Yes	<b>V</b>		No						
8. Was preservati	ve added to bo	ttles?			Yes			No	<b>✓</b>		NA 🗌			
9. Received at lea	st 1 vial with he	eadspace <1/4	I" for AQ \	VOA?	Yes	<b>V</b>		No			NA 🗌			
10. Were any sam	ple containers i	received broke	en?		Yes	, 🗆		No	<b>~</b>			<del>-</del>	TO	
11. Does paperwork					Yes	<b>V</b>		No		# of pre bottles for pH:	checked		1/31/2	
12. Are matrices co			Custody?		Yes	<b>V</b>		No	$\neg$	A	<2> djusted?	or >12	unless not	ted)
13. Is it clear what a			oustouy!		Yes			No			ajaotoa.			
14. Were all holding	times able to	be met?			Yes	_		No [		Ch	ecked by:			
(If no, notify cus	stomer for author	orization.)												
Special Handlir	ng (if applic	able)												
15. Was client notif	fied of all discre	epancies with	this order	?	Yes	; []		No			NA 🗹			
Person N	otified:	V THE ROLL ASSESSMENT OF THE PARTY.	LATE AND DESIGNATION OF THE PARTY OF THE PAR	Date:	7	TANKSON.		NEW COLUMN	MINERAL PROPERTY.					
By Whom	n:	CONTRACTOR OF THE PARTY OF THE		Via:	eN	lail	Phone	е П	Fax	In Pe	rson			
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Client Ins						NOTE SALVE			Personal Section Secti		THE OWNER OF THE OWNER OF			
16. Additional remains	arks:													
17. Cooler Inform														
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Terrories (in particular passes)	1.5 G0	od Yes												

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QA/QC	Package:			]		J	151001	le Iterb	424	DRO / MRO)	3's		ত		, SO <sub>4</sub>			seni					1:57
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Date	Time	Matrix	Sample Name		tainer e and #	Pres Type	ervative	HEAL No. 2201837	(BTEX)	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method	PAHs by 8310	RCRA 8 Metals	CI, F, Br, NO <sub>3</sub> ,	8260 (VOA)	8270 (Semi-VOA)	Total					
124/22	1515	GW	TMW-01		VOA	1+0		001	×		ω			ш.			8	-			+	+	
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	1450		TMW-06					005	X				$\dashv$							$\dashv$	+	+	+
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 19, 2022

Monica Smith

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413 TEL: (505) 632-4475

FAX:

RE: Lateral H-21 OrderNo.: 2205492

#### Dear Monica Smith:

Hall Environmental Analysis Laboratory received 9 sample(s) on 5/11/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/19/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: MW01

 Project:
 Lateral H-21
 Collection Date: 5/6/2022 12:37:00 PM

 Lab ID:
 2205492-001
 Matrix: WASTE WAT
 Received Date: 5/11/2022 7:10:00 AM

Analyses	Result RL Qual Units				DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst	: CCM
Benzene	ND	1.0	Р	μg/L	1	5/13/2022 2:18:00 PM	R87985
Toluene	ND	1.0	Р	μg/L	1	5/13/2022 2:18:00 PM	R87985
Ethylbenzene	ND	1.0	Р	μg/L	1	5/13/2022 2:18:00 PM	R87985
Xylenes, Total	ND	2.0	Р	μg/L	1	5/13/2022 2:18:00 PM	R87985
Surr: 4-Bromofluorobenzene	98.6	70-130	Р	%Rec	1	5/13/2022 2:18:00 PM	R87985

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

Qualifiers:

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

Page 1 of 10

Date Reported: 5/19/2022

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest Client Sample ID: MW02

**Project: Collection Date:** 5/6/2022 1:00:00 PM Lateral H-21 Lab ID: 2205492-002 Matrix: WASTE WAT Received Date: 5/11/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	5/13/2022 2:37:00 PM	R87985
Toluene	ND	1.0	μg/L	1	5/13/2022 2:37:00 PM	R87985
Ethylbenzene	ND	1.0	μg/L	1	5/13/2022 2:37:00 PM	R87985
Xylenes, Total	ND	2.0	μg/L	1	5/13/2022 2:37:00 PM	R87985
Surr: 4-Bromofluorobenzene	95.8	70-130	%Rec	1	5/13/2022 2:37:00 PM	R87985

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

Not Detected at the Reporting Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Estimated value

Analyte detected below quantitation limits

Sample pH Not In Range

Page 2 of 10 RLReporting Limit

Date Reported: 5/19/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: MW03

 Project:
 Lateral H-21
 Collection Date: 5/6/2022 1:50:00 PM

 Lab ID:
 2205492-003
 Matrix: WASTE WAT
 Received Date: 5/11/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	5/13/2022 2:57:00 PM	R87985
Toluene	ND	1.0	μg/L	1	5/13/2022 2:57:00 PM	R87985
Ethylbenzene	ND	1.0	μg/L	1	5/13/2022 2:57:00 PM	R87985
Xylenes, Total	ND	2.0	μg/L	1	5/13/2022 2:57:00 PM	R87985
Surr: 4-Bromofluorobenzene	98.0	70-130	%Rec	1	5/13/2022 2:57:00 PM	R87985

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

Qualifiers:

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

Page 3 of 10

Date Reported: 5/19/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: MW04

 Project:
 Lateral H-21
 Collection Date: 5/6/2022 1:35:00 PM

 Lab ID:
 2205492-004
 Matrix: WASTE WAT
 Received Date: 5/11/2022 7:10:00 AM

Analyses	Result	RL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	1.0	μg/L	1	5/17/2022 12:26:00 PI	Л R87985
Toluene	ND	1.0	μg/L	1	5/17/2022 12:26:00 Pf	/I R87985
Ethylbenzene	ND	1.0	μg/L	1	5/17/2022 12:26:00 Pf	/I R87985
Xylenes, Total	ND	2.0	μg/L	1	5/17/2022 12:26:00 PI	/I R87985
Surr: 4-Bromofluorobenzene	96.9	70-130	%Rec	1	5/17/2022 12:26:00 PI	Л R87985

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

Qualifiers:

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

Page 4 of 10

Date Reported: 5/19/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: MW06

 Project:
 Lateral H-21
 Collection Date: 5/6/2022 12:45:00 PM

 Lab ID:
 2205492-005
 Matrix: WASTE WAT
 Received Date: 5/11/2022 7:10:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	1.0	μg/L	1	5/13/2022 3:36:00 PM	R87985
Toluene	ND	1.0	μg/L	1	5/13/2022 3:36:00 PM	R87985
Ethylbenzene	ND	1.0	μg/L	1	5/13/2022 3:36:00 PM	R87985
Xylenes, Total	ND	2.0	μg/L	1	5/13/2022 3:36:00 PM	R87985
Surr: 4-Bromofluorobenzene	96.9	70-130	%Rec	1	5/13/2022 3:36:00 PM	R87985

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

Qualifiers:

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

Page 5 of 10

Date Reported: 5/19/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: MW07

 Project:
 Lateral H-21
 Collection Date: 5/6/2022 1:20:00 PM

 Lab ID:
 2205492-006
 Matrix: WASTE WAT
 Received Date: 5/11/2022 7:10:00 AM

Analyses	Result	RL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	5/13/2022 3:56:00 PM	R87985
Toluene	ND	1.0	μg/L	1	5/13/2022 3:56:00 PM	R87985
Ethylbenzene	ND	1.0	μg/L	1	5/13/2022 3:56:00 PM	R87985
Xylenes, Total	ND	2.0	μg/L	1	5/13/2022 3:56:00 PM	R87985
Surr: 4-Bromofluorobenzene	97.4	70-130	%Rec	1	5/13/2022 3:56:00 PM	R87985

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

Qualifiers:

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

Page 6 of 10

Date Reported: 5/19/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: MW08

 Project:
 Lateral H-21
 Collection Date: 5/6/2022 1:10:00 PM

 Lab ID:
 2205492-007
 Matrix: WASTE WAT
 Received Date: 5/11/2022 7:10:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	1.0	μg/L	1	5/13/2022 4:15:00 PM	R87985
Toluene	ND	1.0	μg/L	1	5/13/2022 4:15:00 PM	R87985
Ethylbenzene	ND	1.0	μg/L	1	5/13/2022 4:15:00 PM	R87985
Xylenes, Total	ND	2.0	μg/L	1	5/13/2022 4:15:00 PM	R87985
Surr: 4-Bromofluorobenzene	97.8	70-130	%Rec	1	5/13/2022 4:15:00 PM	R87985

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

Qualifiers:

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

Page 7 of 10

Date Reported: 5/19/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: MW09

 Project:
 Lateral H-21
 Collection Date: 5/6/2022 12:30:00 PM

 Lab ID:
 2205492-008
 Matrix: WASTE WAT
 Received Date: 5/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst	: CCM
Benzene	ND	1.0	Р	μg/L	1	5/13/2022 4:35:00 PM	R87985
Toluene	ND	1.0	Р	μg/L	1	5/13/2022 4:35:00 PM	R87985
Ethylbenzene	ND	1.0	Р	μg/L	1	5/13/2022 4:35:00 PM	R87985
Xylenes, Total	ND	2.0	Р	μg/L	1	5/13/2022 4:35:00 PM	R87985
Surr: 4-Bromofluorobenzene	99.5	70-130	Ρ	%Rec	1	5/13/2022 4:35:00 PM	R87985

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

Qualifiers:

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

Page 8 of 10

Date Reported: 5/19/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: MW10

 Project:
 Lateral H-21
 Collection Date: 5/6/2022 12:15:00 PM

 Lab ID:
 2205492-009
 Matrix: WASTE WAT
 Received Date: 5/11/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst	CCM
Benzene	ND	1.0	Р	μg/L	1	5/13/2022 5:15:00 PM	R87985
Toluene	ND	1.0	Р	μg/L	1	5/13/2022 5:15:00 PM	R87985
Ethylbenzene	ND	1.0	Р	μg/L	1	5/13/2022 5:15:00 PM	R87985
Xylenes, Total	ND	2.0	Р	μg/L	1	5/13/2022 5:15:00 PM	R87985
Surr: 4-Bromofluorobenzene	99.6	70-130	Р	%Rec	1	5/13/2022 5:15:00 PM	R87985

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

Qualifiers:

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

Page 9 of 10

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2205492 19-May-22** 

Client: Harvest
Project: Lateral H-21

Sample ID: 100ng btex Ics	SampT	ype: <b>LC</b>	S	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSW	Batch ID: <b>R87985</b> RunNo: <b>87985</b>									
Prep Date:	Analysis D	oate: <b>5/</b>	13/2022	8	SeqNo: 3	118840	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.2	80	120			
Toluene	19	1.0	20.00	0	92.6	80	120			
Ethylbenzene	19	1.0	20.00	0	93.5	80	120			
Xylenes, Total	56	2.0	60.00	0	93.5	80	120			
Surr: 4-Bromofluorobenzene	19		20.00		97.0	70	130			

Sample ID: mb	SampT	ype: <b>ME</b>	BLK	Tes						
Client ID: PBW	Batch	ID: <b>R8</b>	7985	R	RunNo: 8	7985				
Prep Date:	Analysis D	ate: 5/	13/2022	S	SeqNo: 3	118841	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	2.0								
Surr: 4-Bromofluorobenzene	19		20.00		96.9	70	130			

Sample ID: 2205492-002a ms	SampT	SampType: MS TestCode: EPA Method 8021B: Volatiles								
Client ID: MW02	Batch	Batch ID: <b>R87985</b> RunNo: <b>87985</b>								
Prep Date:	Analysis D	s Date: 5/13/2022 SeqNo: 3118853 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.8	80	120			
Toluene	19	1.0	20.00	0	97.2	80	120			
Ethylbenzene	19	1.0	20.00	0	97.0	80	120			
Xylenes, Total	58	2.0	60.00	0	97.2	80	120			
Surr: 4-Bromofluorobenzene	19		20.00		96.6	70	130			

Sample ID: 2205492-002A M	MSD SampType: MSD TestCode: EPA Method 8021B: Volatiles									
Client ID: MW02	Batch	ID: <b>R8</b>	7985	F	RunNo: 87	7985				
Prep Date:	Analysis D	ate: <b>5/</b>	13/2022	8	SeqNo: 3	118854	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.0	80	120	5.20	20	
Toluene	18	1.0	20.00	0	92.0	80	120	5.44	20	
Ethylbenzene	19	1.0	20.00	0	93.2	80	120	4.04	20	
Xylenes, Total	56	2.0	60.00	0	93.5	80	120	3.80	20	
Surr: 4-Bromofluorobenzene	20		20.00		98.8	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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

# Sample Log-In Check List

Client Name: Ha	rvest	Work Order Nu	mber: 2205492		RcptNo: 1	
Received By: Ju	uan Rojas	5/11/2022 7:10:00	O AM	Guara g		
Completed By: Ti	racy Casarrubias	5/11/2022 8:38:03	3 AM			
Reviewed By: CM		5/11/2C				
Chain of Custod	<u>'Y</u>					
1. Is Chain of Custo	dy complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sam	ple delivered?		Courier			
Log In						
<ol><li>Was an attempt m</li></ol>	nade to cool the sam	ples?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samples i	received at a temper	ature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
5. Sample(s) in prope	er container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample v	olume for indicated	test(s)?	Yes 🗹	No 🗆		
7. Are samples (exce	pt VOA and ONG) p	operly preserved?	Yes 🗸	No 🗌		
8. Was preservative a	added to bottles?		Yes	No 🗹	NA 🗆	
9. Received at least 1			Yes 🗸	No 🗌	NA 🗆	
0. Were any sample	containers received	oroken?	Yes	No 🗹	# - 1	/
1 Doos nonenweek	-4-1-1-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1				# of preserved bottles checked	
<ol> <li>Does paperwork management</li> <li>(Note discrepancies)</li> </ol>	atch bottle labels? s on chain of custod	()	Yes 🗸	No 🗌	for pH:	unless noted)
2. Are matrices correct			Yes 🗸	No 🗆	Adjusted?	unless noted)
3. Is it clear what anal			Yes 🗸	No 🗆		
<ol> <li>Were all holding tim (If no, notify custom</li> </ol>	nes able to be met? ner for authorization.		Yes 🗹	No 🗆	Checked by:	6 5.11.2
pecial Handling (	(if applicable)					
5. Was client notified	of all discrepancies	with this order?	Yes	No 🗌	NA 🗹	
Person Notifi	ed:	Date	: [			
By Whom:		Via:	eMail P	none  Fax	In Person	
Regarding: Client Instruc	tions:					
6. Additional remarks	,					
7. Cooler Informatio  Cooler No Te	mp °C   Condition	Soul Intent   C. I.I.		25/Williamship to cooping		
1 1.1	Good	Seal Intact Seal No Yes	Seal Date	Signed By		

Turn-Around Time: Chain-of-Custody Record HALL ENVIRONMENTAL Client: Harvest Four corners Standard ☐ Rush ANALYSIS LABORATORY Project Name: Monica Smith www.hallenvironmental.com Mailing Address: Lateral L-2 4901 Hawkins NE - Albuquerque, NM 87109 Project #: Tel. 505-345-3975 Fax 505-345-4107 Phone #: **Analysis Request** email or Fax#: m Smith Charvest mid Stream. com Project Manager:  $SO_4$ TPH:8015D(GRO / DRO / MRO) Coliform (Present/Absent) BIEX/ MTBE/ TMB's (8021) QA/QC Package: PAHs by 8310 or 8270SIMS PO<sub>4</sub>, Brooke Herb □ Standard ☐ Level 4 (Full Validation)  $NO_2$ Accreditation: 

Az Compliance Sampler: E. Cerroll ☐ NELAC □ Other On Ice: D-Yes □ No 8270 (Semi-VOA) Br, NO<sub>3</sub>, RCRA 8 Metals ☐ EDD (Type) # of Coolers: (Method 8260 (VOA) (°C) Cooler Temp(including CF): CI, F, EDB ( Container Preservative HEAL No. Sample Name 7205492 Time Matrix Date Type and # Type 5-6 G-W MWOI HOI 3 VOA 001 13:00 MW02 002 13:50 003 mwo3 13:35 mw04 004 12:45 miroG 005 13:20 mwo7 006 13:10 mwog 007 12:30 mwo9 0091

Date: Time: Relinquished by:

S/10 1447

Exact cascall

Received by: Via: Date Time

S/10/21 144

Date: Time: Relinquished by: Received by: Via: Date Time

S/10/21 1812

12:15

mulo

Remarks:

5/10/22 1447

Date Time Please CC: ecorroll@ensolam.com

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

009



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

September 01, 2022

Brooke Herb Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413 TEL: (505) 632-4475

FAX:

RE: Lateral H 21 OrderNo.: 2208H05

#### Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 9 sample(s) on 8/27/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

# Analytical Report Lab Order 2208H05

Date Reported: 9/1/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: TMW01

 Project:
 Lateral H 21
 Collection Date: 8/26/2022 11:47:00 AM

 Lab ID:
 2208H05-001
 Matrix: AQUEOUS
 Received Date: 8/27/2022 9:35:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	1.0	μg/L	1	8/31/2022 9:09:44 PM	D90700
Toluene	ND	1.0	μg/L	1	8/31/2022 9:09:44 PM	D90700
Ethylbenzene	ND	1.0	μg/L	1	8/31/2022 9:09:44 PM	D90700
Xylenes, Total	ND	2.0	μg/L	1	8/31/2022 9:09:44 PM	D90700
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	1	8/31/2022 9:09:44 PM	D90700

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

Qualifiers:

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

Page 1 of 10

Xylenes, Total

Surr: 4-Bromofluorobenzene

# Analytical Report Lab Order 2208H05

Date Reported: 9/1/2022

8/31/2022 10:20:07 PM

8/31/2022 10:20:07 PM D90700

D90700

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: TMW02

 Project:
 Lateral H 21
 Collection Date: 8/26/2022 11:30:00 AM

 Lab ID:
 2208H05-002
 Matrix: AQUEOUS
 Received Date: 8/27/2022 9:35:00 AM

ND

93.9

**Analyses** Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 1.0 μg/L 8/31/2022 10:20:07 PM D90700 Toluene ND 1.0 μg/L 8/31/2022 10:20:07 PM D90700 Ethylbenzene ND 1.0 μg/L 8/31/2022 10:20:07 PM D90700

2.0

70-130

μg/L

%Rec

1

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

Qualifiers:

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

Page 2 of 10

**CLIENT:** Harvest

# **Analytical Report**

Lab Order **2208H05**Date Reported: **9/1/2022** 

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: TMW03

 Project:
 Lateral H 21
 Collection Date: 8/26/2022 10:48:00 AM

 Lab ID:
 2208H05-003
 Matrix: AQUEOUS
 Received Date: 8/27/2022 9:35:00 AM

**Analyses** Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 1.0 μg/L 8/31/2022 10:43:36 PM D90700 Toluene ND 1.0 μg/L 8/31/2022 10:43:36 PM D90700 Ethylbenzene ND 1.0 μg/L 8/31/2022 10:43:36 PM D90700 Xylenes, Total ND 2.0 μg/L 1 8/31/2022 10:43:36 PM D90700 Surr: 4-Bromofluorobenzene 91.2 70-130 %Rec 8/31/2022 10:43:36 PM D90700

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

Qualifiers:

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

Page 3 of 10

**CLIENT:** Harvest

# **Analytical Report**

Lab Order **2208H05**Date Reported: **9/1/2022** 

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: TMW04

**Lab ID:** 2208H05-004 **Matrix:** AQUEOUS **Received Date:** 8/27/2022 9:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	1.0	μg/L	1	8/31/2022 11:07:05 PM	D90700
Toluene	ND	1.0	μg/L	1	8/31/2022 11:07:05 PM	D90700
Ethylbenzene	ND	1.0	μg/L	1	8/31/2022 11:07:05 PM	D90700
Xylenes, Total	ND	2.0	μg/L	1	8/31/2022 11:07:05 PM	D90700
Surr: 4-Bromofluorobenzene	92.5	70-130	%Rec	1	8/31/2022 11:07:05 PM	D90700

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

Qualifiers:

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

Page 4 of 10

# **Analytical Report**

Lab Order **2208H05**Date Reported: **9/1/2022** 

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: TMW06

 Project:
 Lateral H 21
 Collection Date: 8/26/2022 11:38:00 AM

 Lab ID:
 2208H05-005
 Matrix: AQUEOUS
 Received Date: 8/27/2022 9:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	1.0	μg/L	1	8/31/2022 11:30:26 PM	D90700
Toluene	ND	1.0	μg/L	1	8/31/2022 11:30:26 PM	D90700
Ethylbenzene	ND	1.0	μg/L	1	8/31/2022 11:30:26 PM	D90700
Xylenes, Total	ND	2.0	μg/L	1	8/31/2022 11:30:26 PM	D90700
Surr: 4-Bromofluorobenzene	92.2	70-130	%Rec	1	8/31/2022 11:30:26 PM	D90700

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

Qualifiers:

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

Page 5 of 10

**CLIENT:** Harvest

# **Analytical Report**

Lab Order **2208H05**Date Reported: **9/1/2022** 

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: TMW07

 Project:
 Lateral H 21
 Collection Date: 8/26/2022 11:15:00 AM

 Lab ID:
 2208H05-006
 Matrix: AQUEOUS
 Received Date: 8/27/2022 9:35:00 AM

**Analyses** Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 1.0 μg/L 8/31/2022 11:53:48 PM D90700 Toluene ND 1.0 μg/L 1 8/31/2022 11:53:48 PM D90700 Ethylbenzene ND 1.0 μg/L 8/31/2022 11:53:48 PM D90700 Xylenes, Total ND 2.0 μg/L 1 8/31/2022 11:53:48 PM D90700 Surr: 4-Bromofluorobenzene 90.5 70-130 %Rec 8/31/2022 11:53:48 PM D90700

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

Qualifiers:

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

Page 6 of 10

# **Analytical Report**

Lab Order **2208H05** 

Date Reported: 9/1/2022

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: TMW08

 Project:
 Lateral H 21
 Collection Date: 8/26/2022 11:24:00 AM

 Lab ID:
 2208H05-007
 Matrix: AQUEOUS
 Received Date: 8/27/2022 9:35:00 AM

Analyses	Result	RL Qu	RL Qual Units		Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	1.0	μg/L	1	9/1/2022 12:17:15 AM	D90700
Toluene	ND	1.0	μg/L	1	9/1/2022 12:17:15 AM	D90700
Ethylbenzene	ND	1.0	μg/L	1	9/1/2022 12:17:15 AM	D90700
Xylenes, Total	ND	2.0	μg/L	1	9/1/2022 12:17:15 AM	D90700
Surr: 4-Bromofluorobenzene	90.9	70-130	%Rec	1	9/1/2022 12:17:15 AM	D90700

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

Qualifiers:

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

Page 7 of 10

Analytical Report
Lab Order 2208H05

Date Reported: 9/1/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: TMW09

 Project:
 Lateral H 21
 Collection Date: 8/26/2022 10:56:00 AM

 Lab ID:
 2208H05-008
 Matrix: AQUEOUS
 Received Date: 8/27/2022 9:35:00 AM

**Analyses** Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 1.0 μg/L 9/1/2022 12:40:40 AM D90700 Toluene ND 1.0 μg/L 1 9/1/2022 12:40:40 AM D90700 Ethylbenzene ND 1.0 μg/L 9/1/2022 12:40:40 AM D90700 Xylenes, Total ND 2.0 μg/L 1 9/1/2022 12:40:40 AM D90700 Surr: 4-Bromofluorobenzene 91.7 70-130 %Rec 9/1/2022 12:40:40 AM D90700

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

Qualifiers:

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

Page 8 of 10

Analytical Report
Lab Order 2208H05

Date Reported: 9/1/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: TMW10

 Project:
 Lateral H 21
 Collection Date: 8/26/2022 10:38:00 AM

 Lab ID:
 2208H05-009
 Matrix: AQUEOUS
 Received Date: 8/27/2022 9:35:00 AM

**Analyses** Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 1.0 μg/L 9/1/2022 1:04:05 AM D90700 Toluene ND 1.0 μg/L 1 9/1/2022 1:04:05 AM D90700 Ethylbenzene ND 1.0 μg/L 9/1/2022 1:04:05 AM D90700 Xylenes, Total ND 2.0 μg/L 1 9/1/2022 1:04:05 AM D90700 Surr: 4-Bromofluorobenzene 91.3 70-130 %Rec 9/1/2022 1:04:05 AM D90700

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

Qualifiers:

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

Page 9 of 10

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2208H05** *01-Sep-22* 

Client: Harvest
Project: Lateral H 21

Sample ID: mb-II	SampT	уре: МЕ	BLK	Tes						
Client ID: PBW	Batch	Batch ID: <b>D90700</b> RunNo: <b>90700</b>								
Prep Date:	Analysis D	ate: <b>8/</b> 3	31/2022	SeqNo: <b>3241915</b>			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	2.0								
Surr: 4-Bromofluorobenzene	18		20.00		92.0	70	130			

Sample ID: 100ng btex lcs-II	Samp	ype: <b>LC</b>	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSW	Batcl	Batch ID: <b>D90700</b> RunNo: <b>90700</b>								
Prep Date:	Analysis [	Date: 8/3	31/2022	9	SeqNo: 32	241916	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val %REC LowLimit		HighLimit	%RPD	RPDLimit	Qual	
Benzene	18	1.0	20.00	0	89.5	70	130			
Toluene	18	1.0	20.00	0	92.3	70	130			
Ethylbenzene	18	1.0	20.00	0	91.4	70	130			
Xylenes, Total	55	2.0	60.00	0 91.1 70			130			
Surr: 4-Bromofluorobenzene	19		20.00		93.8	70	130			

Sample ID: 2208h05-001ams	SampType: MS			1ams SampType: MS TestCode: EPA Method 8021B: Volatiles					TestCode: EPA Method 8021B: Volatiles						
Client ID: TMW01	Batch	n ID: <b>D9</b>	0700	F	RunNo: 90	0700									
Prep Date:	Analysis D	Date: 8/3	31/2022	5	SeqNo: 32	241918	Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Benzene	18	1.0	20.00	0.2880	87.8	70	130								
Toluene	19	1.0	20.00	0	93.2	70	130								
Ethylbenzene	19	1.0	20.00	0	92.6	70	130								
Xylenes, Total	55	2.0	60.00	0	92.0	70	130								
Surr: 4-Bromofluorobenzene	20		20.00		97.6	70	130								

Sample ID: 2208h05-001amsd	Samp1	Type: MSD TestCode: EPA Method 8021B: Volatiles								
Client ID: TMW01	Batcl	h ID: <b>D9</b>	0700	F	0700					
Prep Date:	Analysis [	Date: <b>8/</b> 3	31/2022	5	SeqNo: 32	241919	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0.2880	84.9	70	130	3.23	20	
Toluene	18	1.0	20.00	0	88.4	70	130	5.28	20	
Ethylbenzene	18	1.0	20.00	0	88.6	70	130	4.32	20	
Xylenes, Total	53	2.0	60.00	0	88.8	70	130	3.53	20	
Surr: 4-Bromofluorobenzene	19		20.00		94.1	70	130	0	0	

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 10

Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

# Sample Log-In Check List

LABORATORY Website: www.hallenvironmental.com Client Name: Harvest Work Order Number: 2208H05 RcptNo: 1 Received By: Tracy Casarrubias 8/27/2022 9:35:00 AM Completed By: Tracy Casarrubias 8/27/2022 12:14:37 PM Reviewed By: Jn 8/29/22 Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 NA  $\square$ 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA  $\square$ Sample(s) in proper container(s)? Yes 🗸 No 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No 🗌 8. Was preservative added to bottles? Yes No 🗸 NA  $\square$ 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No 🗌 NA 🗸 Yes 10. Were any sample containers received broken? No 🗸 # of preserved bottles checked 11. Does paperwork match bottle labels? No  $\square$ Yes 🗸 for pH: (Note discrepancies on chain of custody) (<2 or 12 unless noted) Adjusted<sup>2</sup> 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No  $\square$ 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 Checked by: WM 8-29.22 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By

2.8

Good

Yes

Chain-of-Custody Record	Turn-Around Time:	HALL ENVIRONMENTAL							
Client: Harvest Midstream	Standard   Rush	ANALYSIS LABORATORY							
Monica Smith	Project Name:								
Mailing Address:	- Lateral H-21	100							
	Project #:	4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107							
Phone #:		Analysis Request							
email or Fax#: manica. Smith @ harvest modecore	Project Manager:								
QA/QC Package:	Brooke Herb	MRO) MRO) 3's 3's 4, SO <sub>4</sub> 4, SO <sub>4</sub> 5:TF6							
Standard	Statis Maria	TMB's (8021) / DRO / MRO) 8082 PCB's 8270SIMS NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> () () () () () () () () () () () () ()							
Accreditation:   Accred									
□ NELAC □ Other  ▼EDD (Type) PDF	On Ice: Yes □ No	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 <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> 8260 (VOA) Total Coliform (Present/Absent)							
X EDD (Type) PDF	# of Coolers:   Cooler Temp(including CF): $2.8 - \emptyset = 2.8$ (°C)	BTEX MTBE / TPH:8015D(GRO 8081 Pesticides/8 EDB (Method 504 PAHs by 8310 or RCRA 8 Metals CI, F, Br, NO <sub>3</sub> , N 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Protal							
	333131 1 311 pincadang 6-7. 2. () - () - () - () - () - () - () - ()	Sol (Ser (VO Br, 18 Br) Br)							
Data Time Matrix Comple Nome	Container Preservative HEAL No.	BTEX MT TPH:8015D 8081 Pestic EDB (Metho PAHS by 83 RCRA 8 Me Cl, F, Br, N 8260 (VOA) 8270 (Semi-							
Date Time Matrix Sample Name  Sample Name  Thus of	Type and # Type 2708H65								
	110.								
11:30 IM W 05	Hgc12 002								
10:48 IMW 03	HC1 003								
11:04 TMW 04	HCI OOU								
MWOS									
11:38 TMW 06	HgCla 005	X							
11:15 TMW 07	Halla 006	$\times$							
11:24 TMW 08	Hgc12 007	$\times$							
V 10:56 V TMW 09	HCI OUB								
V 10:38 V TMW10	V HCI 009								
7									
Date: Time: Relinquished by: Pallun  Date: Time: Relinquished by:  Relinquished by:	Received by: Via: Date Time 1442 Received by: Via: Com. Date Time	Remarks: (C: bherb @ ensolum.com  apalese @ ensolum.com							
8/24/2 753 Matheballa	8/27/2- 9:35	O' 104 of 1							



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

November 21, 2022

Brooke Herb Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413 TEL: (505) 632-4475

FAX

RE: Lateral H-21 OrderNo.: 2211876

#### Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 9 sample(s) on 11/16/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 11/21/2022

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest Client Sample ID: TMW-01

Project: Lateral H-21 **Collection Date:** 11/15/2022 11:55:00 AM 2211876-001 Lab ID: Matrix: AQUEOUS Received Date: 11/16/2022 6:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst	: JR
Benzene	ND	2.0	D	μg/L	2	11/17/2022 5:43:43 PM	SL92675
Toluene	ND	2.0	D	μg/L	2	11/17/2022 5:43:43 PM	SL92675
Ethylbenzene	ND	2.0	D	μg/L	2	11/17/2022 5:43:43 PM	SL92675
Methyl tert-butyl ether (MTBE)	ND	2.0	D	μg/L	2	11/17/2022 5:43:43 PM	SL92675
1,2,4-Trimethylbenzene	ND	2.0	D	μg/L	2	11/17/2022 5:43:43 PM	SL92675
1,3,5-Trimethylbenzene	ND	2.0	D	μg/L	2	11/17/2022 5:43:43 PM	SL92675
Xylenes, Total	ND	3.0	D	μg/L	2	11/17/2022 5:43:43 PM	SL92675
Surr: 1,2-Dichloroethane-d4	110	70-130	D	%Rec	2	11/17/2022 5:43:43 PM	SL92675
Surr: 4-Bromofluorobenzene	93.4	70-130	D	%Rec	2	11/17/2022 5:43:43 PM	SL92675
Surr: Dibromofluoromethane	110	70-130	D	%Rec	2	11/17/2022 5:43:43 PM	SL92675
Surr: Toluene-d8	88.3	70-130	D	%Rec	2	11/17/2022 5:43:43 PM	SL92675

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 1 of 10

Date Reported: 11/21/2022

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest **Client Sample ID:** TMW-02

Project: Lateral H-21 **Collection Date:** 11/15/2022 1:20:00 PM 2211876-002 Lab ID: Matrix: AQUEOUS Received Date: 11/16/2022 6:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: JR
Benzene	ND	1.0	μg/L	1	11/17/2022 6:12:27 PM	SL92675
Toluene	ND	1.0	μg/L	1	11/17/2022 6:12:27 PM	SL92675
Ethylbenzene	ND	1.0	μg/L	1	11/17/2022 6:12:27 PM	SL92675
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	11/17/2022 6:12:27 PM	SL92675
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	11/17/2022 6:12:27 PM	SL92675
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	11/17/2022 6:12:27 PM	SL92675
Xylenes, Total	ND	1.5	μg/L	1	11/17/2022 6:12:27 PM	SL92675
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	1	11/17/2022 6:12:27 PM	SL92675
Surr: 4-Bromofluorobenzene	89.8	70-130	%Rec	1	11/17/2022 6:12:27 PM	SL92675
Surr: Dibromofluoromethane	110	70-130	%Rec	1	11/17/2022 6:12:27 PM	SL92675
Surr: Toluene-d8	87.9	70-130	%Rec	1	11/17/2022 6:12:27 PM	SL92675

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 2 of 10

Date Reported: 11/21/2022

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest **Client Sample ID:** TMW-03

Project: Lateral H-21 **Collection Date:** 11/15/2022 2:30:00 PM 2211876-003 Lab ID: Matrix: AQUEOUS Received Date: 11/16/2022 6:25:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: JR
Benzene	ND	1.0	μg/L	1	11/17/2022 6:41:10 PM	SL92675
Toluene	ND	1.0	μg/L	1	11/17/2022 6:41:10 PM	SL92675
Ethylbenzene	ND	1.0	μg/L	1	11/17/2022 6:41:10 PM	SL92675
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	11/17/2022 6:41:10 PM	SL92675
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	11/17/2022 6:41:10 PM	SL92675
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	11/17/2022 6:41:10 PM	SL92675
Xylenes, Total	ND	1.5	μg/L	1	11/17/2022 6:41:10 PM	SL92675
Surr: 1,2-Dichloroethane-d4	107	70-130	%Rec	1	11/17/2022 6:41:10 PM	SL92675
Surr: 4-Bromofluorobenzene	94.0	70-130	%Rec	1	11/17/2022 6:41:10 PM	SL92675
Surr: Dibromofluoromethane	112	70-130	%Rec	1	11/17/2022 6:41:10 PM	SL92675
Surr: Toluene-d8	89.2	70-130	%Rec	1	11/17/2022 6:41:10 PM	SL92675

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 3 of 10

Date Reported: 11/21/2022

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest Client Sample ID: TMW-04

Project: Lateral H-21 **Collection Date:** 11/15/2022 2:05:00 PM 2211876-004 Lab ID: Matrix: AQUEOUS Received Date: 11/16/2022 6:25:00 AM

Analyses	Result	RL	RL Qual Units DF Date Analyzed					
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst	: JR	
Benzene	ND	2.0	D	μg/L	2	11/17/2022 7:09:52 PM	SL92675	
Toluene	ND	2.0	D	μg/L	2	11/17/2022 7:09:52 PM	SL92675	
Ethylbenzene	ND	2.0	D	μg/L	2	11/17/2022 7:09:52 PM	SL92675	
Methyl tert-butyl ether (MTBE)	ND	2.0	D	μg/L	2	11/17/2022 7:09:52 PM	SL92675	
1,2,4-Trimethylbenzene	ND	2.0	D	μg/L	2	11/17/2022 7:09:52 PM	SL92675	
1,3,5-Trimethylbenzene	ND	2.0	D	μg/L	2	11/17/2022 7:09:52 PM	SL92675	
Xylenes, Total	ND	3.0	D	μg/L	2	11/17/2022 7:09:52 PM	SL92675	
Surr: 1,2-Dichloroethane-d4	108	70-130	D	%Rec	2	11/17/2022 7:09:52 PM	SL92675	
Surr: 4-Bromofluorobenzene	93.0	70-130	D	%Rec	2	11/17/2022 7:09:52 PM	SL92675	
Surr: Dibromofluoromethane	113	70-130	D	%Rec	2	11/17/2022 7:09:52 PM	SL92675	
Surr: Toluene-d8	87.8	70-130	D	%Rec	2	11/17/2022 7:09:52 PM	SL92675	

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 4 of 10

Date Reported: 11/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: TMW-06

 Project:
 Lateral H-21
 Collection Date: 11/15/2022 12:25:00 PM

 Lab ID:
 2211876-005
 Matrix: AQUEOUS
 Received Date: 11/16/2022 6:25:00 AM

Analyses	Result RL Qual Units DF Date Ar					
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst:	JR
Benzene	ND	1.0	μg/L	1	11/17/2022 7:38:30 PM	SL92675
Toluene	ND	1.0	μg/L	1	11/17/2022 7:38:30 PM	SL92675
Ethylbenzene	ND	1.0	μg/L	1	11/17/2022 7:38:30 PM	SL92675
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	11/17/2022 7:38:30 PM	SL92675
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	11/17/2022 7:38:30 PM	SL92675
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	11/17/2022 7:38:30 PM	SL92675
Xylenes, Total	ND	1.5	μg/L	1	11/17/2022 7:38:30 PM	SL92675
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	11/17/2022 7:38:30 PM	SL92675
Surr: 4-Bromofluorobenzene	91.8	70-130	%Rec	1	11/17/2022 7:38:30 PM	SL92675
Surr: Dibromofluoromethane	109	70-130	%Rec	1	11/17/2022 7:38:30 PM	SL92675
Surr: Toluene-d8	88.6	70-130	%Rec	1	11/17/2022 7:38:30 PM	SL92675

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

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- L Reporting Limit

Page 5 of 10

Date Reported: 11/21/2022

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest Client Sample ID: TMW-07

Project: Lateral H-21 **Collection Date:** 11/15/2022 1:45:00 PM Lab ID: 2211876-006 Matrix: AQUEOUS Received Date: 11/16/2022 6:25:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: JR
Benzene	ND	1.0	μg/L	1	11/17/2022 8:07:06 PM	SL92675
Toluene	ND	1.0	μg/L	1	11/17/2022 8:07:06 PM	SL92675
Ethylbenzene	ND	1.0	μg/L	1	11/17/2022 8:07:06 PM	SL92675
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	11/17/2022 8:07:06 PM	SL92675
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	11/17/2022 8:07:06 PM	SL92675
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	11/17/2022 8:07:06 PM	SL92675
Xylenes, Total	ND	1.5	μg/L	1	11/17/2022 8:07:06 PM	SL92675
Surr: 1,2-Dichloroethane-d4	111	70-130	%Rec	1	11/17/2022 8:07:06 PM	SL92675
Surr: 4-Bromofluorobenzene	92.6	70-130	%Rec	1	11/17/2022 8:07:06 PM	SL92675
Surr: Dibromofluoromethane	112	70-130	%Rec	1	11/17/2022 8:07:06 PM	SL92675
Surr: Toluene-d8	89.6	70-130	%Rec	1	11/17/2022 8:07:06 PM	SL92675

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 6 of 10

Date Reported: 11/21/2022

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest Client Sample ID: TMW-08

Project: Lateral H-21 **Collection Date:** 11/15/2022 1:00:00 PM 2211876-007 Lab ID: Matrix: AQUEOUS Received Date: 11/16/2022 6:25:00 AM

Analyses	Result	RL Qu	RL Qual Units DF Date Analyz					
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: JR		
Benzene	ND	1.0	μg/L	1	11/17/2022 8:35:42 PM	SL92675		
Toluene	ND	1.0	μg/L	1	11/17/2022 8:35:42 PM	SL92675		
Ethylbenzene	ND	1.0	μg/L	1	11/17/2022 8:35:42 PM	SL92675		
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	11/17/2022 8:35:42 PM	SL92675		
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	11/17/2022 8:35:42 PM	SL92675		
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	11/17/2022 8:35:42 PM	SL92675		
Xylenes, Total	ND	1.5	μg/L	1	11/17/2022 8:35:42 PM	SL92675		
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	11/17/2022 8:35:42 PM	SL92675		
Surr: 4-Bromofluorobenzene	95.4	70-130	%Rec	1	11/17/2022 8:35:42 PM	SL92675		
Surr: Dibromofluoromethane	109	70-130	%Rec	1	11/17/2022 8:35:42 PM	SL92675		
Surr: Toluene-d8	89.5	70-130	%Rec	1	11/17/2022 8:35:42 PM	SL92675		

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 7 of 10

Date Reported: 11/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: TMW-09

 Project:
 Lateral H-21
 Collection Date: 11/15/2022 3:40:00 PM

 Lab ID:
 2211876-008
 Matrix: AQUEOUS
 Received Date: 11/16/2022 6:25:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analys	:: JR
Benzene	ND	1.0	μg/L	1	11/17/2022 9:04:18 PM	SL92675
Toluene	ND	1.0	μg/L	1	11/17/2022 9:04:18 PM	SL92675
Ethylbenzene	ND	1.0	μg/L	1	11/17/2022 9:04:18 PM	SL92675
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	11/17/2022 9:04:18 PM	SL92675
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	11/17/2022 9:04:18 PM	SL92675
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	11/17/2022 9:04:18 PM	SL92675
Xylenes, Total	ND	1.5	μg/L	1	11/17/2022 9:04:18 PM	SL92675
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	1	11/17/2022 9:04:18 PM	SL92675
Surr: 4-Bromofluorobenzene	94.8	70-130	%Rec	1	11/17/2022 9:04:18 PM	SL92675
Surr: Dibromofluoromethane	113	70-130	%Rec	1	11/17/2022 9:04:18 PM	SL92675
Surr: Toluene-d8	85.8	70-130	%Rec	1	11/17/2022 9:04:18 PM	SL92675

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

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

of In Range Page 8 of 10

Date Reported: 11/21/2022

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest **Client Sample ID:** TMW-10

Project: Lateral H-21 **Collection Date:** 11/15/2022 3:10:00 PM 2211876-009 Lab ID: Matrix: AQUEOUS Received Date: 11/16/2022 6:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: JR
Benzene	ND	1.0	μg/L	1	11/17/2022 9:32:51 PM	SL92675
Toluene	ND	1.0	μg/L	1	11/17/2022 9:32:51 PM	SL92675
Ethylbenzene	ND	1.0	μg/L	1	11/17/2022 9:32:51 PM	SL92675
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	11/17/2022 9:32:51 PM	SL92675
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	11/17/2022 9:32:51 PM	SL92675
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	11/17/2022 9:32:51 PM	SL92675
Xylenes, Total	ND	1.5	μg/L	1	11/17/2022 9:32:51 PM	SL92675
Surr: 1,2-Dichloroethane-d4	111	70-130	%Rec	1	11/17/2022 9:32:51 PM	SL92675
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	1	11/17/2022 9:32:51 PM	SL92675
Surr: Dibromofluoromethane	108	70-130	%Rec	1	11/17/2022 9:32:51 PM	SL92675
Surr: Toluene-d8	88.4	70-130	%Rec	1	11/17/2022 9:32:51 PM	SL92675

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 9 of 10

## **QC SUMMARY REPORT**

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2211876** 

21-Nov-22

Client: Harvest
Project: Lateral H-21

Sample ID: 100ng Ics	SampT	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	8260: Volatile	es Short L	.ist	
Client ID: LCSW	Batch	ID: SL	92675	F	RunNo: 9	2675				
Prep Date:	Analysis D	ate: 11	/17/2022	9	SeqNo: 3	334460	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	19	1.0	20.00	0	96.0	70	130			
Surr: 1,2-Dichloroethane-d4	8.8		10.00		87.9	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.5	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	8.9		10.00		88.6	70	130			

Sample ID: mb	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260: Volatile	latiles Short List						
Client ID: PBW	Batch	ID: SL	92675	F	RunNo: 9	2675								
Prep Date:	Analysis D	ate: <b>1</b> 1	1/17/2022	9	SeqNo: 3	334470	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												
Methyl tert-butyl ether (MTBE)	ND	1.0												
1,2,4-Trimethylbenzene	ND	1.0												
1,3,5-Trimethylbenzene	ND	1.0												
Xylenes, Total	ND	1.5												
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130							
Surr: 4-Bromofluorobenzene	9.2		10.00		92.1	70	130							
Surr: Dibromofluoromethane	11		10.00		108	70	130							
Surr: Toluene-d8	8.7		10.00		86.6	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
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

# Sample Log-In Check List

Released to Imaging: 5/15/2023 10:41:58 AM

	Website: www.hai	uenvironmen	ai.com		
Client Name: Harvest	Work Order Number:	2211876		RcptNo	: 1
Received By: Tracy Casarrubias 1	1/16/2022 6:25:00 AN	Ī			
	1/16/2022 6:53:46 AM				
Reviewed By: See 11/16/20	17 (3/2322 0.30.40 Alv				
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In 3. Was an attempt made to cool the samples?		Yes 🗹	No 🗆	NA 🗌	
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes 🗌	No 🔽	na 🗆	
5. Sample(s) in proper container(s)?		Samples n Yes ✓	ot Frozen No		
6. Sufficient sample volume for indicated test(s)?		Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) properly pr	reserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. Received at least 1 vial with headspace <1/4" fo		Yes 🗹	No 🗌	NA 🗆	
10. Were any sample containers received broken?		Yes	No 🗹	# of preserved bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	for pH:	r >12 unless neted)
12 Are matrices correctly identified on Chain of Cus	tody?	Yes 🗹	No 🗌	Adjusted?	
3. Is it clear what analyses were requested?		Yes 🗸	No 🗌		
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:	mu/16/2
Special Handling (if applicable)					
15. Was client notified of all discrepancies with this	order?	Yes 🗌	No 🗌	NA <b>☑</b>	_
Person Notified:	Date:		SECURITY AND ADDRESS OF THE PERSON OF THE PE		
By Whom:	Via:	eMail 🔲	Phone  Fax	☐ In Person	
Regarding:					
Client Instructions:			-		
16. Additional remarks:					
17. <u>Cooler Information</u>					
Cooler No Temp °C Condition Seal	ntact Seal No Se	eal Date	Signed By		
1 -0.1 Good Yes					

Onami-or-oustous record			Turn-Around	Time:								-		,	-						
Client:	Harve	ost Mi	dstream	Standard	□ Rush	1		100											NT.		
Man		Smith		Project Name				S)	2000							tal.co					
Mailing	Address			Lateral	H-21			40	04 LI								лп М 87	100			
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email o	r Fax#: į	monica	a. Smith Pharvest.com	Project Mana	iger: Brook	e Herb		<u> </u>					SO4			£			-		T
	Package:			Ensolum	No. of the last of	practice of an inches	(8021)	MR	PCB's		SI					psei				23.03	
☐ Stan	dard		☐ Level 4 (Full Validation)	cc: bherb@ensolum.com			3's (	<u>ک</u>			ls0.		, PO4,			lt.					
	tation:		ompliance	Sampler: Z	ach Mye	7/5	TMB's		808	<del>(</del> +	827		NO <sub>2</sub> ,			(Present/Absent)			-		
□ NEL		□ Other		On Ice: ☑ Yes ′ ☐ No # of Coolers: \			<u>,</u>	3RO	Jes/	20	0 0	als	NO <sub>3</sub> ,		\Q		1- [			-	
	(1)00/		Fig. 190			1-0= -0.1 (°C)	MTBE	)QS	sticić	ğ.	831	Met		Æ	-imi	Coliform	×-1			Ì	
				0	making Change		1 ~	801	P.	ž	s by	A 8	B,	اخ	S) (Se		010 1.1.100	7.5			
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	CI, F	8260 (VOA)	8270 (Semi-VOA)	Total	0-10-1	-6	To the second		
11/15	11:55	wert	TMW-01	3× VO.A	HCI	001	V									1		<i>p</i>			T
11/15	13:20	wall	TMW-02	3×VOA	HCI	002	$\checkmark$					2		No.	w Vi		1				
1/15	14:30		TMW-03	3× VOA	114	003	$\checkmark$	Ė			1	T.	7			1 to 1 to 1	1				T
11/15	14:05		TMW-04	3× XOA	HCI	004				115	3	in other		cost,	1115-75	V = 1	- 46		CF LAT		
			IMW 050	16 mm	HCI	Circle Service 4-	$\vee$				-p	a stin	11	E-547 (A.C.	11471	190	41.1		g schile Maria		
11/15	12:25		TMW-06	3×1/0A	HCI	005	$\checkmark$				=(1)	lt er	1	Dig:	lot on		dien .	ed pa			
11/15	13:45		TMW-07	3x VOA	110/	006	$\checkmark$	ıÉ											ed La		
11/15	13200		TMW-08	3x VOA	1	००२	$\checkmark$				- 919	1-136	111	Settle	0.9131	-	and the	pioni.	r. arabi		
	15:40		TMW-09	3, VOA	1101	00%	$\sqrt{}$		$\neg$		n ynyd			y Z					10	$\top$	T
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 27, 2023

**Brooke Herb** 

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413 TEL: (505) 632-4475

FAX

RE: Lateral H 21 OrderNo.: 2301790

#### Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 9 sample(s) on 1/20/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 1/27/2023

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest Client Sample ID: TMW-01

Project: Lateral H 21 Collection Date: 1/19/2023 11:25:00 AM 2301790-001 Lab ID: Matrix: AQUEOUS Received Date: 1/20/2023 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST				CCM		
Benzene	ND	1.0	μg/L	1	1/25/2023 5:07:00 PM	SL94167
Toluene	ND	1.0	μg/L	1	1/25/2023 5:07:00 PM	SL94167
Ethylbenzene	ND	1.0	μg/L	1	1/25/2023 5:07:00 PM	SL94167
Xylenes, Total	ND	1.5	μg/L	1	1/25/2023 5:07:00 PM	SL94167
Surr: 1,2-Dichloroethane-d4	116	70-130	%Rec	1	1/25/2023 5:07:00 PM	SL94167
Surr: Dibromofluoromethane	110	70-130	%Rec	1	1/25/2023 5:07:00 PM	SL94167
Surr: Toluene-d8	94.3	70-130	%Rec	1	1/25/2023 5:07:00 PM	SL94167

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 1 of 10

Date Reported: 1/27/2023

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest **Client Sample ID:** TMW-02

Project: Lateral H 21 **Collection Date:** 1/19/2023 12:20:00 PM 2301790-002 Lab ID: Matrix: AQUEOUS **Received Date:** 1/20/2023 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	1/25/2023 5:31:00 PM	SL94167
Toluene	ND	1.0	μg/L	1	1/25/2023 5:31:00 PM	SL94167
Ethylbenzene	ND	1.0	μg/L	1	1/25/2023 5:31:00 PM	SL94167
Xylenes, Total	ND	1.5	μg/L	1	1/25/2023 5:31:00 PM	SL94167
Surr: 1,2-Dichloroethane-d4	117	70-130	%Rec	1	1/25/2023 5:31:00 PM	SL94167
Surr: Dibromofluoromethane	109	70-130	%Rec	1	1/25/2023 5:31:00 PM	SL94167
Surr: Toluene-d8	96.3	70-130	%Rec	1	1/25/2023 5:31:00 PM	SL94167

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 2 of 10

Date Reported: 1/27/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: TMW-03

 Project:
 Lateral H 21
 Collection Date: 1/19/2023 2:00:00 PM

 Lab ID:
 2301790-003
 Matrix: AQUEOUS
 Received Date: 1/20/2023 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	1/25/2023 5:54:00 PM	SL94167
Toluene	ND	1.0	μg/L	1	1/25/2023 5:54:00 PM	SL94167
Ethylbenzene	ND	1.0	μg/L	1	1/25/2023 5:54:00 PM	SL94167
Xylenes, Total	ND	1.5	μg/L	1	1/25/2023 5:54:00 PM	SL94167
Surr: 1,2-Dichloroethane-d4	119	70-130	%Rec	1	1/25/2023 5:54:00 PM	SL94167
Surr: Dibromofluoromethane	116	70-130	%Rec	1	1/25/2023 5:54:00 PM	SL94167
Surr: Toluene-d8	95.8	70-130	%Rec	1	1/25/2023 5:54:00 PM	SL94167

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

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 10

Date Reported: 1/27/2023

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest Client Sample ID: TMW-04

**Project:** Lateral H 21 Collection Date: 1/19/2023 1:20:00 PM 2301790-004 Lab ID: Matrix: AQUEOUS Received Date: 1/20/2023 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	CCM
Benzene	ND	1.0	μg/L	1	1/25/2023 6:17:00 PM	SL94167
Toluene	ND	1.0	μg/L	1	1/25/2023 6:17:00 PM	SL94167
Ethylbenzene	ND	1.0	μg/L	1	1/25/2023 6:17:00 PM	SL94167
Xylenes, Total	ND	1.5	μg/L	1	1/25/2023 6:17:00 PM	SL94167
Surr: 1,2-Dichloroethane-d4	117	70-130	%Rec	1	1/25/2023 6:17:00 PM	SL94167
Surr: Dibromofluoromethane	110	70-130	%Rec	1	1/25/2023 6:17:00 PM	SL94167
Surr: Toluene-d8	93.1	70-130	%Rec	1	1/25/2023 6:17:00 PM	SL94167

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits P Sample pH Not In Range
- Reporting Limit

Page 4 of 10

Date Reported: 1/27/2023

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest **Client Sample ID:** TMW-06

**Project:** Lateral H 21 Collection Date: 1/19/2023 11:55:00 AM 2301790-005 Matrix: AQUEOUS Lab ID: **Received Date:** 1/20/2023 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	CCM
Benzene	ND	1.0	μg/L	1	1/25/2023 6:40:00 PM	SL94167
Toluene	ND	1.0	μg/L	1	1/25/2023 6:40:00 PM	SL94167
Ethylbenzene	ND	1.0	μg/L	1	1/25/2023 6:40:00 PM	SL94167
Xylenes, Total	ND	1.5	μg/L	1	1/25/2023 6:40:00 PM	SL94167
Surr: 1,2-Dichloroethane-d4	116	70-130	%Rec	1	1/25/2023 6:40:00 PM	SL94167
Surr: Dibromofluoromethane	111	70-130	%Rec	1	1/25/2023 6:40:00 PM	SL94167
Surr: Toluene-d8	96.1	70-130	%Rec	1	1/25/2023 6:40:00 PM	SL94167

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 5 of 10

Date Reported: 1/27/2023

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest Client Sample ID: TMW-07

Project: Lateral H 21 Collection Date: 1/19/2023 1:00:00 PM 2301790-006 Lab ID: Matrix: AQUEOUS Received Date: 1/20/2023 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	CCM
Benzene	ND	1.0	μg/L	1	1/25/2023 7:03:00 PM	SL94167
Toluene	ND	1.0	μg/L	1	1/25/2023 7:03:00 PM	SL94167
Ethylbenzene	ND	1.0	μg/L	1	1/25/2023 7:03:00 PM	SL94167
Xylenes, Total	ND	1.5	μg/L	1	1/25/2023 7:03:00 PM	SL94167
Surr: 1,2-Dichloroethane-d4	116	70-130	%Rec	1	1/25/2023 7:03:00 PM	SL94167
Surr: Dibromofluoromethane	113	70-130	%Rec	1	1/25/2023 7:03:00 PM	SL94167
Surr: Toluene-d8	97.4	70-130	%Rec	1	1/25/2023 7:03:00 PM	SL94167

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 6 of 10

Date Reported: 1/27/2023

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: TMW-08

 Project:
 Lateral H 21
 Collection Date: 1/19/2023 12:40:00 PM

 Lab ID:
 2301790-007
 Matrix: AQUEOUS
 Received Date: 1/20/2023 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	1/25/2023 7:26:00 PM	SL94167
Toluene	ND	1.0	μg/L	1	1/25/2023 7:26:00 PM	SL94167
Ethylbenzene	ND	1.0	μg/L	1	1/25/2023 7:26:00 PM	SL94167
Xylenes, Total	ND	1.5	μg/L	1	1/25/2023 7:26:00 PM	SL94167
Surr: 1,2-Dichloroethane-d4	114	70-130	%Rec	1	1/25/2023 7:26:00 PM	SL94167
Surr: Dibromofluoromethane	114	70-130	%Rec	1	1/25/2023 7:26:00 PM	SL94167
Surr: Toluene-d8	96.3	70-130	%Rec	1	1/25/2023 7:26:00 PM	SL94167

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 10

Date Reported: 1/27/2023

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest Client Sample ID: TMW-09

**Project:** Lateral H 21 **Collection Date:** 1/19/2023 1:40:00 PM 2301790-008 Lab ID: Matrix: AQUEOUS Received Date: 1/20/2023 7:10:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	1/25/2023 7:49:00 PM	SL94167
Toluene	ND	1.0	μg/L	1	1/25/2023 7:49:00 PM	SL94167
Ethylbenzene	ND	1.0	μg/L	1	1/25/2023 7:49:00 PM	SL94167
Xylenes, Total	ND	1.5	μg/L	1	1/25/2023 7:49:00 PM	SL94167
Surr: 1,2-Dichloroethane-d4	118	70-130	%Rec	1	1/25/2023 7:49:00 PM	SL94167
Surr: Dibromofluoromethane	114	70-130	%Rec	1	1/25/2023 7:49:00 PM	SL94167
Surr: Toluene-d8	94.8	70-130	%Rec	1	1/25/2023 7:49:00 PM	SL94167

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 8 of 10

Date Reported: 1/27/2023

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest **Client Sample ID:** TMW-10

**Project:** Lateral H 21 **Collection Date:** 1/19/2023 2:30:00 PM 2301790-009 Lab ID: Matrix: AQUEOUS Received Date: 1/20/2023 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	1/25/2023 8:12:00 PM	SL94167
Toluene	ND	1.0	μg/L	1	1/25/2023 8:12:00 PM	SL94167
Ethylbenzene	ND	1.0	μg/L	1	1/25/2023 8:12:00 PM	SL94167
Xylenes, Total	ND	1.5	μg/L	1	1/25/2023 8:12:00 PM	SL94167
Surr: 1,2-Dichloroethane-d4	114	70-130	%Rec	1	1/25/2023 8:12:00 PM	SL94167
Surr: Dibromofluoromethane	112	70-130	%Rec	1	1/25/2023 8:12:00 PM	SL94167
Surr: Toluene-d8	94.9	70-130	%Rec	1	1/25/2023 8:12:00 PM	SL94167

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 9 of 10

## **QC SUMMARY REPORT**

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2301790** 

27-Jan-23

Client: Harvest
Project: Lateral H 21

Sample ID: 100ng Ics	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8260: Volatile	s Short L	.ist	
Client ID: LCSW	Batch	ID: SL	94167	F	RunNo: <b>9</b>	4167				
Prep Date:	Analysis D	ate: 1/	25/2023	9	SeqNo: 3	401647	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	115	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		115	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	11		10.00		112	70	130			
Surr: Toluene-d8	9.6		10.00		95.7	70	130			

Sample ID: mb	Samp1	ype: ME	BLK	Tes	tCode: E	PA Method	8260: Volatile	es Short L	_ist	
Client ID: PBW	Batcl	h ID: SL	.94167	F	RunNo: 9	4167				
Prep Date:	Analysis D	Date: 1/	25/2023	9	SeqNo: 3	401648	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	11		10.00		114	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	11		10.00		111	70	130			
Surr: Toluene-d8	9.5		10.00		95.4	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
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 10

#### Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

## Sample Log-In Check List

Released to Imaging: 5/15/2023 10:41:58 AM

Client Name:	Harvest	Work Order Num	ber: 2301790		RcptNo	: 1
Received By:	Juan Rojas	1/20/2023 7:10:00	AM	Hansay		
Completed By:	Sean Livingston	1/20/2023 10:41:11	AM	Juniany Sal	,	
Reviewed By:	\$ 1-2023			JW	701-	
Chain of Cus	stody					
1. Is Chain of C	ustody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
Log In					_	
3. Was an atten	npt made to cool the sam	ples?	Yes 🗹	No 🗌	NA 🗌	
4. Were all sam	ples received at a temper	rature of >0° C to 6.0°C	Yes 🗹	No 🗆	na 🗆	
5. Sample(s) in	proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sam	nple volume for indicated	test(s)?	Yes 🗹	No 🗌		
7. Are samples (	(except VOA and ONG) p	roperly preserved?	Yes 🗸	No 🗌		
8. Was preserva	tive added to bottles?		Yes 🗌	No 🔽	NA 🗌	
9. Received at le	east 1 vial with headspace	e <1/4" for AQ VOA?	Yes 🗹	No 🗌	na 🗆	
10. Were any sar	mple containers received	broken?	Yes	No 🗹	# of preserved	
	ork match bottle labels? ancies on chain of custod	ly)	Yes 🗹	No 🗆	bottles checked for pH: (<2 o	r >12 unless noted)
12. Are matrices	correctly identified on Cha	ain of Custody?	Yes 🔽	No 🗌	Adjusted?	
13. Is it clear wha	t analyses were requeste	d?	Yes 🗹	No 🗌		10.10
	ng times able to be met? ustomer for authorization		Yes 🗹	No 🗆	Checked by:	9~ (12012)
Special Handl	ling (if applicable)					
15. Was client no	otified of all discrepancies	with this order?	Yes 🗌	No 🗆	NA 🗹	-
Person	Notified:	Date:	Г			
By Who	om:	Via:	eMail 1	Phone 🗌 Fax	In Person	
Regard		A THE RESIDENCE OF THE PARTY OF				
Client I	nstructions:					
16. Additional re	marks:					
17. Cooler Infor		*				
Cooler No			Seal Date	Signed By		
1	0.4 Good	Not Present YOGI	8			

C	hain	-of-Cເ	istody Record	Turn-Around	Time:	5				-					, alle			¥.	u 10	_
Client:	Harve	ost M	idstream	□ Standard	l □ Rush	<u>(</u>						A 40.00-0							NTA	
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Mailing	Address	<u> </u>	III/	1 store	1 H-21								4		10.00	tal.cc				
				Project #:	1 4.91	Porton Total	-	49	01 H	awk	ins N	1E -	Alb	uqu	erqu	e, M	vi 871	09		
<u> </u>				-	47			Te	el. 50	5-34	15-3						4107			
Phone		. 2274	C. IN all		7.0	de la companie de la			Pet			A		/sis	Req	uest				
email o	r Fax#: \	monica	. Smith @ harvest.com	Project Mana	ager: Brooks	e Herb	2	(Ç	ا ۱				SO4			ent)				
				co. bhe	erb@enso	1010 0000	(80%	Ĭ.	PCB's		MS	-	PO4,			Abse				
□ Stan		- A- O-	☐ Level 4 (Full Validation)				TMB's (8021)	잁			8270SIMS		2, P			Jue //				
Accredi		☐ Other	mpliance	Sampler: /	ach Mi	vers No	≥	0/0	808,	4.1		14   10	NO <sub>2</sub> ,		~	res				
□ EDD				# of Coolers:		909.	<u>۳</u>	GR(	des/	d 50	00	als	ဝိ		VO/	л Р				
				Cooler Temp	(including CF):	60.7=0.4 (°C)	MTBE,	5D(	stici	욅	83	Me	Br, NO <sub>3</sub> ,	₹	-im	lifori				
			e7"	Contoine			I 👡 I	801	Pe	Š	s by	A 8	ā,	Š	S	ပိ				
-			Sample Name	Container Type and #	Preservative Type	HEAL No. 230(790	втех,	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or	RCRA 8 Metals	CI, F,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)				
1/14/23	11:25	Water	TMW-01	3×VOA	HCI	100	V				2,		W.	- 1						
	12:20		TMW-02	I R F	(F) (100)	ರುನ	V				170	15,19			ŭ.	1	13			
	14:00		TMW-03			003	V				##10.00   == 1 = 1	(1 a/s)	afi na ggodi		1 (6)				(m)	
	13:20		TMW-04			224	J						TI.	E.	ZT 19	11-14				10.0
	11:55		TMW-06	1000		005	V			2		v.d.	er in	1-119						
	13:00		TMW-07	Gred Vi		a.	J		$\neg$						-, 771	4-17	111			
	12:40	348	TMW-08				V				$\neg$						_	i ii.	D 4	
	13:40		TMW-09			208	1		$\neg$											
A	14:30		TMW-10	W	V	2001	V	$\neg$						77.19						
				4		The second					$\neg$			$\neg$	1771	1 - 10		telli.		
		100	Carlotter E							117			line e	7/2					301	
		74	*		10-11-0			ing in			TWEET		-			Variety in			(4)-10	$\vdash\vdash$
Date:	Time:	Relinquish	ed by: / /	Received by:	Via:	Date Time	Ren	narks	L S:											
114/23	1733		ah C	1 Sur	NA	1/19/23 1737														
Date:		Relinquishe	ed by:	Received by:	Via:	Date Time														
119/23	181	10	TWO		Frourier.	120/23 7/10										1931			<u> </u>	



**APPENDIX C** 

Photographic Log



#### **Photographic Log**

Harvest Four Corners, LLC Lateral H-21





Date: 4/22/2019

Photograph: 1

Description: Open excavation

View: Southwest

Date:

4/22/2019 Photograph: 2

Description: Open excavation

View: Southeast

Photograph: 3

Description: Site overview

View: North

Date: 3/4/2021

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

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

Action 199664

#### **CONDITIONS**

Operator:	OGRID:
Harvest Four Corners, LLC	373888
1755 Arroyo Dr	Action Number:
Bloomfield, NM 87413	199664
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
nvelez	None	5/15/2023