

December 23, 2024

APPROVED

By Mike Buchanan at 8:56 am, Jan 09, 2025

New Mexico Oil Conservation Division

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

		The Vadose Zone Sampling Plan for the Lateral L-2
Re:	Vadose Zone Sampling Plan	Pipeline Release is approved to include the following
	Lateral L-2 Pipeline Release	conditions of approval (COAs):
	San Juan County, New Mexico	1. Please submit a variance request for the less than
	Harvest Four Corners, LLC	eight (8) sampling events with justification for why they
	NMOCD Incident Number: NVF1724832528	are not consecutive. In addition to the proposed
	Remediation Permit 3RP-1061	hydropunch, include a second hydropunch for a
		groundwater sample in between MW-3 and MW-4 and
To Whom it May Concern:		also one 5 feet south of MW-7, as these wells have either
		remained dry or were destroyed in 2022.
Ensolum, LLC (Ensolum), on behalf of Harvest F <i>Vadose Zone Sampling Plan,</i> detailing the proposed 2 pipeline (Site) in 2025.		2. Include three (3) additional soil borings in the following
		areas: 1. In between MW-3 and MW-4, as these areas
		haven't been sampled since calendar year 2022; 2.
		Advance a soil boring in between MW-6 and MW-7 as
LOCATION		there have been no samples collected in this area since
		2022. 3. Advance a soil boring 10 feet in the northeast
	Site is leasted ediscent to American Conversion	direction of MW-2.
The S	site is located adjacent to Armenta Canyon	3. Collect a minimum of 2 samples per soil boring for lab
Longit	ude -107.85856) in the northeast quarter of the	analysis, based on PID screening results.
28 No	rth. Range 10 West, in San Juan County, Nev	4 Submit results to the OCD in sixty days from the receipt

of Blanco, a census-designated place (CDP) (Fig of this approval. transports natural gas operated by Harvest, which was acquired from Williams Four Corners, LLC (Williams).

BACKGROUND

A *Revised Stage 1 Abatement Plan (Abatement Plan)* was submitted by WSP Inc. (WSP) to the New Mexico Oil Conservation Division (NMOCD) in March 2022. The *Abatement Plan* details remediation and groundwater monitoring activities previously performed at the Site between 2018 through 2021. Following the submittal of the *Abatement Plan*, Ensolum continued groundwater monitoring activities starting in March 2022. Ensolum visited the Site on a quarterly basis and conducted groundwater elevation measurements and sampled for benzene, toluene, ethylbenzene, and total xylenes (BTEX) analysis.

Based on the quarterly groundwater analytical results collected in 2022 and 2023, Ensolum submitted an *Abatement Completion Report* to the NMOCD on May 30, 2024. Due to a destroyed monitoring well (MW-5), only seven consecutive sampling events with results in compliance with New Mexico Water Quality Control Commission (NMWQCC) standards were reached for this well. The other two remaining monitoring wells at the Site, MW-1R and MW-2, were in compliance with NMWQCC standards for eight and nine consecutive quarters, respectively. Per the comments received via email on November 5, 2024, the NMOCD requested that Harvest submit a one-time, solid matrix, soil boring sampling plan in accordance with the New Mexico Administrative Code

VADOSE ZONE SOIL SAMPLING PLAN

To fulfill the NMOCD request described above, Ensolum proposes to advance two soil borings via hand auger at locations between MW-1R and MW-5 (Figure 2). The borings will be advanced to the depth of the water table, and two soil samples will be collected per boring within the vadose zone. An Ensolum geologist will screen the soil at one-foot intervals for petroleum hydrocarbons by noting any staining or odors and will field screen for volatile organic compounds (VOCs) using a photoionization detector (PID). Soils with the highest field screening readings will be collected directly into laboratory supplied jars and immediately placed on ice. Samples will be submitted to Eurofins Environmental Laboratory in Albuquerque, New Mexico for analysis of BTEX, total petroleum hydrocarbons (TPH), and chloride.

PROPOSED 2025 ACTIVITIES

Pending NMOCD approval of this *Vadose Zone Sampling Plan*, Ensolum will perform soil sampling activities during the first quarter of 2025. Additionally, Ensolum will also collect an additional groundwater sample near the destroyed well MW-5 utilizing a hydopunch groundwater sampler. The groundwater sample will be submitted to Eurofins for analysis of BTEX and results will be used as the eighth missing quarterly data point for well MW-5. If all soil and groundwater samples are in compliance with applicable NMOCD and NMWQCC standards, a revised abatement completion report will be submitted in 2025.

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

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Reece Hanson Project Geologist (970) 970-9803 rhanson@ensolum.com

Stuart Hyde, PG (licensed in WA & TX) Senior Managing Geologist (970) 903-1607 shyde@ensolum.com

Attachments:

Figure 1:	Site Location Map
Figure 2:	Vadose Zone Soil Sampling Locations



Page 2

Page 2 of 5



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Sources: Google Earth

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

CONDITIONS

Page 5 of 5

Action 415756

CONDITIONS					
Operator:	OGRID:				
Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	373888				
	Action Number:				
	415756				
	Action Type:				
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)				

CONDITIONS						
	Created By	Condition	Condition Date			
	michael.buchanan	The Vadose Zone Sampling Plan for the Lateral L-2 Pipeline Release is approved to include the following conditions of approval (COAs): 1. Please submit a variance request for the less than eight (8) sampling events with justification for why they are not consecutive. In addition to the proposed hydropunch, include a second hydropunch for a groundwater sample in between MW-3 and MW-4 and also one 5 feet south of MW-7, as these wells have either remained dry or were destroyed in 2022. 2. Include three (3) additional soil borings in the following areas: 1. In between MW-3 and MW-4, as these areas haven't been sampled since calendar year 2022; 2. Advance a soil boring in between MW-6 and MW-7 as there have been no samples collected in this area since 2022. 3. Advance a soil boring 10 feet in the northeast direction of MW-2.	1/9/2025			
	michael.buchanan	3. Collect a minimum of 2 samples per soil boring for lab analysis, based on PID screening results. 4. Submit results to the OCD in sixty days from the receipt of this approval.	1/9/2025			