



ENSOLUM

April 7, 2025

New Mexico Oil Conservation Division

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

Re: Site Summary Report and Closure Request

Allison #110S
San Juan County, New Mexico
Hilcorp Energy Company
NMOCD Incident No: nAPP2502828537

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Site Summary Report and Closure Request* associated with a produced water release at Allison #110S natural gas production well (Site, Figure 1). The Site is located on surface managed by the Bureau of Land Management (BLM) in Unit O, Section 17, Township 32 North, Range 6 West, San Juan County, New Mexico (36.975409°, -107.478648°).

SITE BACKGROUND

On January 25, 2025, a Hilcorp operator discovered the transfer pump suction filter had frozen and broken inside the transfer building, resulting in the release of 8 barrels (bbls) of produced water. Upon discovery, the source of the release was stopped, and the impacted area was secured. Released fluids were contained within the raised berm and no fluids were recovered (Figure 2). Hilcorp notified the New Mexico Oil Conservation Division (NMOCD) and submitted an initial *Notification of Release* on January 28, 2025. NMOCD assigned the release incident number nAPP2502828537.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As part of the Site investigation, local geology/hydrogeology and nearby sensitive receptors were assessed in accordance with Title 19, Chapter 15, Part 29, Sections 11 and 12 (19.15.29.11 and 12) of the New Mexico Administrative Code (NMAC).

The Site is located within the San Jose Geologic Formation. In the report titled "*Geologic framework of pre-Cretaceous rocks in the Southern Ute Indian Reservation and adjacent areas, southwestern Colorado and northwestern New Mexico*" (Condon, S.M., 1992), the San Jose Formation is comprised primarily of sandstone, shale, and minor conglomerate. Sandstone is brown to greyish-yellow, fine-grained, medium to thickly bedded, arkosic, cross-bedded, and conglomeratic. Gray, red, and brown sandy shales and white and gray tuff are interbedded. The unit results from a fluvial and lacustrine depositional environment, and ranges in thickness from 1,100 feet to 2,500 feet. The hydrogeologic properties of the San Jose Formation display variable hydrogeologic properties dependent on location. Where sufficient yield is present, the primary use of water from this formation is for domestic and/or livestock supply. The San Jose Formation is underlain by the Ojo Alamo sandstone.

The closest significant watercourse is an unnamed dry wash located 780 feet south of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake, and is approximately 780 feet from a wetland (Figure 1, shown to the south of Site). The nearest fresh-water well is New Mexico Office of the State Engineer (NMOSE) permitted well SJ-03055 (Appendix A), located approximately 1,650 feet southwest of the Site. The recorded depth to water on the NMOSE database is 100 feet below ground surface (bgs). The ground surface at well SJ-03055 is approximately 32 feet lower in elevation than the Site, therefore groundwater at the Site is estimated to be greater than 100 feet bgs. No wellhead protection areas, springs, or domestic/stock wells are located within a ½-mile radius from the Site. The Site is not within a 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area designated as low potential karst by the BLM). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site.

SITE CLOSURE CRITERIA

Based on the information presented above and in accordance with *Table I, Closure Criteria for Soils Impacted by a Release* (19.15.29.12 NMAC), the following Closure Criteria for constituents of concern (COCs) should be applied to the Site:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) as a combination of gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO): 2,500 mg/kg
- TPH as a combination of GRO+DRO: 1,000 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES

To assess potential soil impacts from the release, Ensolum advanced six hand auger borings (HA01 through HA06) on February 26, 2025 (Figure 2). The NMOCD was notified at least two business days prior to commencing on-Site activities (Appendix B). Hand auger borings were advanced to depths between 4 feet and 4.75 feet bgs, with soil field screened for petroleum hydrocarbon staining, odors, and chloride crusting during advancement. Soil samples were additionally field screened for the presence of organic vapors using a calibrated photoionization detector (PID) and chloride using Hach® QuanTab® test strips, with results recorded in the field notes and chloride results summarized in Table 1.

Two soil samples were collected from each boring for laboratory analysis: one sample from the depth interval indicating the highest field screening results and one from the terminus of the boring. Samples were collected directly into laboratory-provided jars, immediately placed on ice, and submitted to Green Analytical Laboratories for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B, TPH-GRO, TPH-DRO, and TPH-MRO following EPA Method 8015, and chloride following EPA Method 300.0. Field indications of petroleum hydrocarbons and/or chloride, including staining, odors, elevated PID readings and/or chloride crusting, were not observed in any of the samples during the field work. Photographs taken during field activities are attached as Appendix C.

Laboratory analytical results indicated BTEX, TPH, and chloride were not detected above the NMOCD Table I Closure Criteria in any of the soil samples collected during the February 2025 assessment. Soil sample analytical results are summarized in Table 1 and Figure 2, with complete laboratory analytical reports attached as Appendix D.

CONCLUSIONS AND CLOSURE REQUEST

Based on the soil sampling activities and analytical results described above, petroleum hydrocarbon and/or chloride contaminants were not detected in any of the samples collected at the Site above the NMOCD Table I Closure Criteria. The Site appears to be absent of soil impacts and waste-containing soil. As such, Site conditions appear to be protective of human health, the environment, and groundwater, and Hilcorp respectfully requests closure for Incident Number nAPP2502828537.

REFERENCES

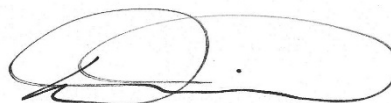
Condon, S.M., 1992, Geologic framework of pre-Cretaceous rocks in the Southern Ute Indian Reservation and adjacent areas, southwestern Colorado and northwestern New Mexico, U.S. Geological Survey, Professional Paper 1505-A, 1:100,000.

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

Sincerely,
Ensolum, LLC



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



Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist
(303) 887-2946
dmoir@ensolum.com

Attachments:

- Figure 1: Site Receptor Map
- Figure 2: Soil Sample Location Map

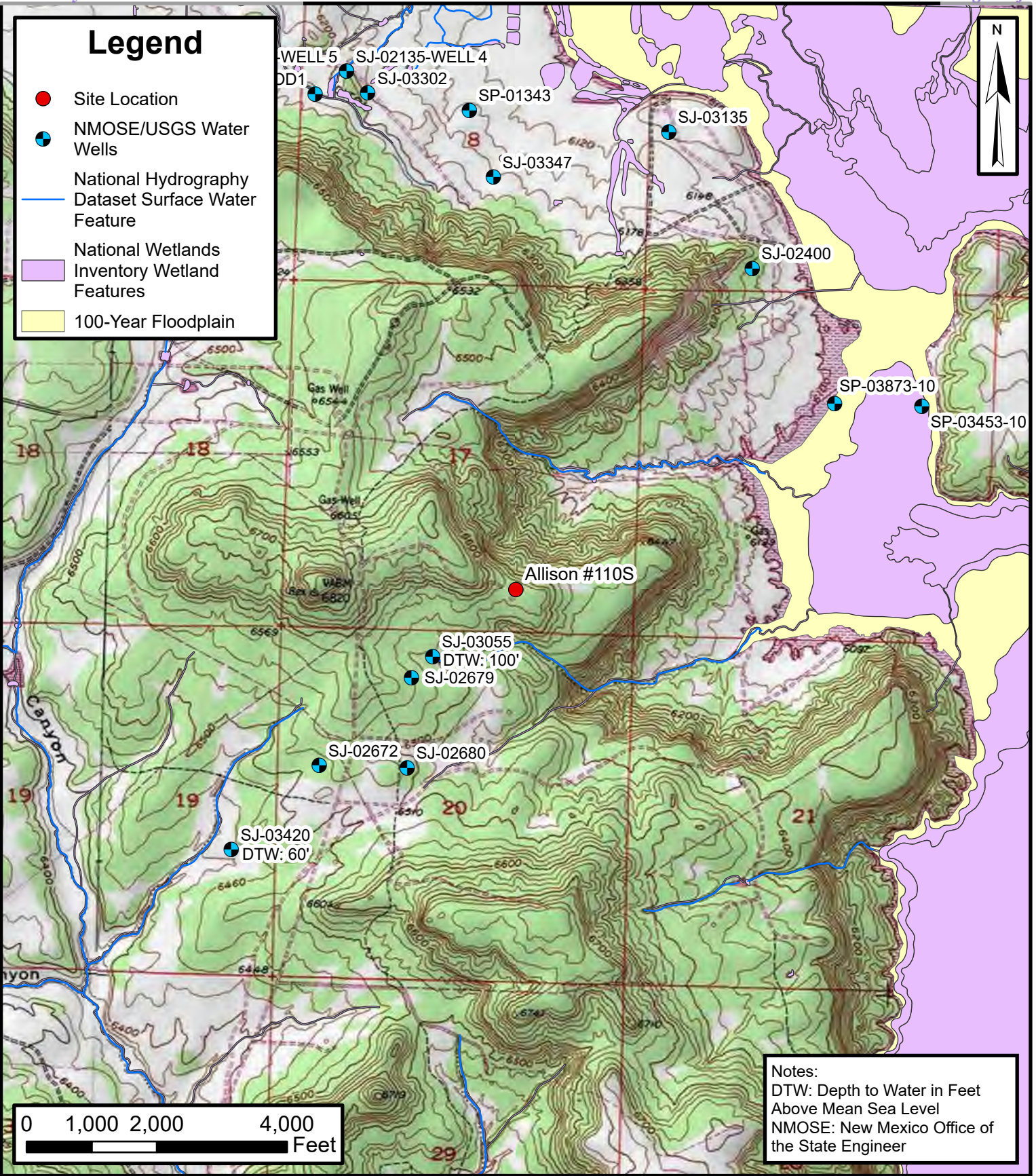
- Table 1: Soil Sample Analytical Results

- Appendix A: NMOSE Point of Diversion Summary
- Appendix B: Agency Sampling Notification
- Appendix C: Photographic Log
- Appendix D: Laboratory Analytical Reports



FIGURES





Default Folder: C:\Users\Greg Palese\OneDrive - ENSOLUM, LLC\Desktop\ENSOLUM GIS\1 - Durango\Hilcorp\Allison #110S



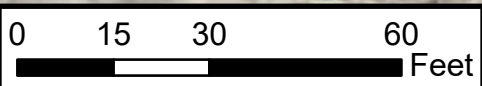
Site Receptor Map

Allison #110S
 Hilcorp Energy Company
 36.975409, -107.478648
 San Juan County, New Mexico

FIGURE
1

Legend

- Soil Sample Location in Compliance with NMOCD Closure Criteria
- ▨ Release Extent



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Soil Sample Location Map
 Allison #110S
 Hilcorp Energy Company
 36.975409, -107.478648
 San Juan County, New Mexico

FIGURE
2



TABLES

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Allison #110S
 Hilcorp Energy Company
 San Juan County, New Mexico

Sample Identification	Date	Depth (feet bgs)	Chloride Field Screening (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release			NE	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
HA01 @ 1'	2/26/2025	1	436	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA01 @ 2'	2/26/2025	2	356	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA01 @ 3'	2/26/2025	3	356	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA01 @ 4'	2/26/2025	4	576	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	687
HA01 @ 4.75'	2/26/2025	4.75	480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	944
HA02 @ 1'	2/26/2025	1	<112	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA02 @ 2'	2/26/2025	2	112	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA02 @ 3'	2/26/2025	3	164	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	214
HA02 @ 3.5'	2/26/2025	3.5	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	277
HA02 @ 4'	2/26/2025	4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA03 @ 1'	2/26/2025	1	<112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	72.7
HA03 @ 2'	2/26/2025	2	<112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	52.3
HA03 @ 3'	2/26/2025	3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA03 @ 4'	2/26/2025	4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA04 @ 1'	2/26/2025	1	<112	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA04 @ 2'	2/26/2025	2	<112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	18.4
HA04 @ 3'	2/26/2025	3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA04 @ 4'	2/26/2025	4	NS	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	60.8
HA05 @ 1'	2/26/2025	1	<112	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA05 @ 2'	2/26/2025	2	<112	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA05 @ 3'	2/26/2025	3	<112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.9
HA05 @ 4'	2/26/2025	4	<112	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA05 @ 5'	2/26/2025	5	<112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	66.0
HA06 @ 1'	2/26/2025	1	<112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<11.3
HA06 @ 2'	2/26/2025	2	<112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<11.4
HA06 @ 3'	2/26/2025	3	<112	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA06 @ 4'	2/26/2025	4	<112	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

- bgs: Below ground surface
- BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
- mg/kg: Milligrams per kilogram
- NE: Not Established
- NS: Not Sampled
- NMOCD: New Mexico Oil Conservation Division
- ppm: Parts per million
- GRO: Gasoline Range Organics
- DRO: Diesel Range Organics
- MRO: Motor Oil/Lube Oil Range Organics
- TPH: Total Petroleum Hydrocarbon
- ': Feet
- <: Indicates result less than the stated laboratory reporting limit (RL)




APPENDIX A

NMOSE Point of Diversion Summary

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
 quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
SJ 03055	NE	NE	NW	20	32N	06W	278939.0	4094657.0 *		

* UTM location was derived from PLSS - see Help

Driller License:	1345	Driller Company:	TIERRA CORROSION CONTROL, INC.		
Driller Name:					
Drill Start Date:	2001-10-01	Drill Finish Date:	2001-10-01	Plug Date:	
Log File Date:	2002-03-28	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	1
Casing Size:	5.00	Depth Well:	290	Depth Water:	100

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

4/1/25 9:54 AM MST

Point of Diversion Summary

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APPENDIX B

Agency Sampling Notificaiton



FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 433462

From Stuart Hyde <shyde@ensolum.com>
Date Thu 3/27/2025 1:25 PM
To Tracy Dembrowski <tdembrowski@ensolum.com>



Stuart Hyde, PG

(Licensed in WA/TX)
Senior Managing Geologist
970-903-1607

[Ensolum, LLC](#)
in f X

"If you want to go fast, go alone. If you want to go far, go together." – African Proverb

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, February 19, 2025 10:21 AM
To: Stuart Hyde <shyde@ensolum.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 433462

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2502828537.

The sampling event is expected to take place:

When: 02/26/2025 @ 09:00

Where: O-17-32N-06W 785 FSL 1895 FEL (36.97521,-107.47861)

Additional Information: Contact PM Stuart Hyde: 970-903-1607

Additional Instructions: Allison #110S well pad: Site Coordinates 36.97500, -107.47911

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505



APPENDIX C

Photographic Log



Photographic Log
Hilcorp Energy Company
Allison #110S
San Juan County, New Mexico



Photograph: 1 Date: 2/26/2025
Description: HA01, directly West of release source
View: Northeast

Photograph: 2 Date: 2/26/2025
Description: HA02, ~30 feet East of HA01
View: Southwest



Photograph: 3 Date: 2/26/2025
Description: HA05, ~30 feet South of HA01
View: North

Photograph: 4 Date: 2/26/2025
Description: Source of release, inside shed in berm
View: N/A



APPENDIX D

Laboratory Analytical Reports



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
jeremy.allen@greenanalytical.com

07 March 2025

Kate Kaufman
Hilcorp
382 CR 3100
Aztec, NM 87410
RE: Allison Unit #110S

Enclosed are the results of analyses for samples received by the laboratory on 02/26/25 16:06. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen
Laboratory Director

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: TX-C25-00012

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C24-00112

Table of Contents

Samples in Report	3
Sample Results	4
2502251-01: HA01 @ 4'	4
2502251-02: HA01 @ 4.75'	5
2502251-03: HA02 @ 3'	6
2502251-04: HA02 @ 3.5'	7
2502251-05: HA03 @ 2'	8
2502251-06: HA03 @ 1'	9
2502251-07: HA04 @ 2'	10
2502251-08: HA04 @ 4'	11
2502251-09: HA05 @ 3'	12
2502251-10: HA05 @ 5"	13
2502251-11: HA06 @ 1	14
2502251-12: HA06 @ 2	15
Quality Assurance Results	16
Notes and Definitions	20
Qualifier Summary	21
Chain of Custody & Attachments	22



Hilcorp
382 CR 3100
Aztec NM, 87410

Project: NM Oil and Gas Tests (Ensolum)
Project Name / Number: Allison Unit #110S
Project Manager: Kate Kaufman

Reported:
03/07/25 16:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
HA01 @ 4'	2502251-01	Solid	02/26/25 10:50	02/26/25 16:06	
HA01 @ 4.75'	2502251-02	Solid	02/26/25 10:50	02/26/25 16:06	
HA02 @ 3'	2502251-03	Solid	02/26/25 11:45	02/26/25 16:06	
HA02 @ 3.5'	2502251-04	Solid	02/26/25 11:48	02/26/25 16:06	
HA03 @ 2'	2502251-05	Solid	02/26/25 12:05	02/26/25 16:06	
HA03 @ 1'	2502251-06	Solid	02/26/25 11:59	02/26/25 16:06	
HA04 @ 2'	2502251-07	Solid	02/26/25 13:00	02/26/25 16:06	
HA04 @ 4'	2502251-08	Solid	02/26/25 13:05	02/26/25 16:06	
HA05 @ 3'	2502251-09	Solid	02/26/25 13:35	02/26/25 16:06	
HA05 @ 5"	2502251-10	Solid	02/26/25 13:40	02/26/25 16:06	
HA06 @ 1	2502251-11	Solid	02/26/25 13:50	02/26/25 16:06	
HA06 @ 2	2502251-12	Solid	02/26/25 13:53	02/26/25 16:06	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



Hilcorp 382 CR 3100 Aztec NM, 87410	Project: NM Oil and Gas Tests (Ensolum) Project Name / Number: Allison Unit #110S Project Manager: Kate Kaufman	Reported: 03/07/25 16:06
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HA01 @ 4'

2502251-01 (Soil)

Sampled Date: 02/26/25 10:50

Sampled By: Peter Anderson

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Soluble (DI Water Extraction)

Chloride	687	12.6	6.25	mg/kg dry	10	03/06/25 12:35	EPA 300.0		AWG
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Inorganic Compounds

% Solids	79.5			%	1	03/06/25 16:32	D2216		BB
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 11:39	8021B		JH
Ethylbenzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 11:39	8021B		JH
Toluene*	<0.050	0.050	0.009	mg/kg	50	03/04/25 11:39	8021B		JH
Total BTEX	<0.300	0.300	0.062	mg/kg	50	03/04/25 11:39	8021B		JH
Total Xylenes*	<0.150	0.150	0.032	mg/kg	50	03/04/25 11:39	8021B		JH

Surrogate: 4-Bromofluorobenzene (PID)		123 %	71.5-134			03/04/25 11:39	8021B		JH
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Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	03/03/25 23:34	8015B		ms
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	03/03/25 23:34	8015B		ms
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	03/03/25 23:34	8015B		ms

Surrogate: 1-Chlorooctadecane		110 %	63.9-155			03/03/25 23:34	8015B		ms
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Surrogate: 1-Chlorooctane		105 %	71.8-148			03/03/25 23:34	8015B		ms
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Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



Hilcorp 382 CR 3100 Aztec NM, 87410	Project: NM Oil and Gas Tests (Ensolium) Project Name / Number: Allison Unit #110S Project Manager: Kate Kaufman	Reported: 03/07/25 16:06
---	--	------------------------------------

HA01 @ 4.75'

2502251-02 (Soil)

Sampled Date: 02/26/25 10:50

Sampled By: Peter Anderson

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Soluble (DI Water Extraction)

Chloride	944	12.0	5.98	mg/kg dry	10	03/06/25 13:48	EPA 300.0	M5	AWG
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Inorganic Compounds

% Solids	83.1			%	1	03/06/25 16:32	D2216		BB
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 05:29	8021B		JH
Ethylbenzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 05:29	8021B		JH
Toluene*	<0.050	0.050	0.009	mg/kg	50	03/04/25 05:29	8021B		JH
Total BTEX	<0.300	0.300	0.062	mg/kg	50	03/04/25 05:29	8021B		JH
Total Xylenes*	<0.150	0.150	0.032	mg/kg	50	03/04/25 05:29	8021B		JH

Surrogate: 4-Bromofluorobenzene (PID)		110 %	71.5-134			03/04/25 05:29	8021B		JH
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Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	03/03/25 16:29	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	03/03/25 16:29	8015B		MS
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	03/03/25 16:29	8015B		MS

Surrogate: 1-Chlorooctadecane		110 %	63.9-155			03/03/25 16:29	8015B		MS
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Surrogate: 1-Chlorooctane		96.0 %	71.8-148			03/03/25 16:29	8015B		MS
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Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Hilcorp 382 CR 3100 Aztec NM, 87410	Project: NM Oil and Gas Tests (Ensolum) Project Name / Number: Allison Unit #110S Project Manager: Kate Kaufman	Reported: 03/07/25 16:06
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HA02 @ 3'

2502251-03 (Soil)

Sampled Date: 02/26/25 11:45

Sampled By: Peter Anderson

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Soluble (DI Water Extraction)

Chloride	214	11.7	5.81	mg/kg dry	10	03/06/25 15:01	EPA 300.0		AWG
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Inorganic Compounds

% Solids	85.6			%	1	03/06/25 16:32	D2216		BB
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 05:41	8021B		JH
Ethylbenzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 05:41	8021B		JH
Toluene*	<0.050	0.050	0.009	mg/kg	50	03/04/25 05:41	8021B		JH
Total BTEX	<0.300	0.300	0.062	mg/kg	50	03/04/25 05:41	8021B		JH
Total Xylenes*	<0.150	0.150	0.032	mg/kg	50	03/04/25 05:41	8021B		JH

Surrogate: 4-Bromofluorobenzene (PID)		106 %	71.5-134			03/04/25 05:41	8021B		JH
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Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	03/03/25 16:52	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	03/03/25 16:52	8015B		MS
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	03/03/25 16:52	8015B		MS

Surrogate: 1-Chlorooctadecane		130 %	63.9-155			03/03/25 16:52	8015B		MS
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Surrogate: 1-Chlorooctane		113 %	71.8-148			03/03/25 16:52	8015B		MS
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Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Hilcorp 382 CR 3100 Aztec NM, 87410	Project: NM Oil and Gas Tests (Ensolum) Project Name / Number: Allison Unit #110S Project Manager: Kate Kaufman	Reported: 03/07/25 16:06
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HA02 @ 3.5'

2502251-04 (Soil)

Sampled Date: 02/26/25 11:48

Sampled By: Peter Anderson

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Soluble (DI Water Extraction)

Chloride	277	12.9	6.40	mg/kg dry	10	03/06/25 16:14	EPA 300.0		AWG
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Inorganic Compounds

% Solids	77.7			%	1	03/06/25 16:32	D2216		BB
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 05:53	8021B		JH
Ethylbenzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 05:53	8021B		JH
Toluene*	<0.050	0.050	0.009	mg/kg	50	03/04/25 05:53	8021B		JH
Total BTEX	<0.300	0.300	0.062	mg/kg	50	03/04/25 05:53	8021B		JH
Total Xylenes*	<0.150	0.150	0.032	mg/kg	50	03/04/25 05:53	8021B		JH

Surrogate: 4-Bromofluorobenzene (PID)		107 %	71.5-134			03/04/25 05:53	8021B		JH
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Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	03/03/25 17:16	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	03/03/25 17:16	8015B		MS
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	03/03/25 17:16	8015B		MS

Surrogate: 1-Chlorooctadecane		98.2 %	63.9-155			03/03/25 17:16	8015B		MS
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Surrogate: 1-Chlorooctane		87.1 %	71.8-148			03/03/25 17:16	8015B		MS
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Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Hilcorp
382 CR 3100
Aztec NM, 87410

Project: NM Oil and Gas Tests (Ensolum)
Project Name / Number: Allison Unit #110S
Project Manager: Kate Kaufman

Reported:
03/07/25 16:06

HA03 @ 2'

2502251-05 (Soil)

Sampled Date: 02/26/25 12:05

Sampled By: Peter Anderson

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Soluble (DI Water Extraction)

Chloride	52.3	11.7	5.81	mg/kg dry	10	03/06/25 16:39	EPA 300.0		AWG
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Inorganic Compounds

% Solids	85.6			%	1	03/06/25 16:32	D2216		BB
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 11:00	8021B		JH
Ethylbenzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 11:00	8021B		JH
Toluene*	<0.050	0.050	0.009	mg/kg	50	03/04/25 11:00	8021B		JH
Total BTEX	<0.300	0.300	0.062	mg/kg	50	03/04/25 11:00	8021B		JH
Total Xylenes*	<0.150	0.150	0.032	mg/kg	50	03/04/25 11:00	8021B		JH

Surrogate: 4-Bromofluorobenzene (PID)		96.5 %	71.5-134			03/04/25 11:00	8021B		JH
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Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	03/03/25 17:39	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	03/03/25 17:39	8015B		MS
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	03/03/25 17:39	8015B		MS

Surrogate: 1-Chlorooctadecane		114 %	63.9-155			03/03/25 17:39	8015B		MS
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Surrogate: 1-Chlorooctane		102 %	71.8-148			03/03/25 17:39	8015B		MS
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Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Hilcorp
382 CR 3100
Aztec NM, 87410

Project: NM Oil and Gas Tests (Ensolum)
Project Name / Number: Allison Unit #110S
Project Manager: Kate Kaufman

Reported:
03/07/25 16:06

HA03 @ 1'

2502251-06 (Soil)

Sampled Date: 02/26/25 11:59

Sampled By: Peter Anderson

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Soluble (DI Water Extraction)

Chloride	72.7	11.4	5.69	mg/kg dry	10	03/06/25 17:03	EPA 300.0		AWG
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Inorganic Compounds

% Solids	87.4			%	1	03/06/25 16:32	D2216		BB
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 11:11	8021B		JH
Ethylbenzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 11:11	8021B		JH
Toluene*	<0.050	0.050	0.009	mg/kg	50	03/04/25 11:11	8021B		JH
Total BTEX	<0.300	0.300	0.062	mg/kg	50	03/04/25 11:11	8021B		JH
Total Xylenes*	<0.150	0.150	0.032	mg/kg	50	03/04/25 11:11	8021B		JH

Surrogate: 4-Bromofluorobenzene (PID)		95.7 %	71.5-134			03/04/25 11:11	8021B		JH
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Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	03/03/25 18:02	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	03/03/25 18:02	8015B		MS
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	03/03/25 18:02	8015B		MS

Surrogate: 1-Chlorooctadecane		111 %	63.9-155			03/03/25 18:02	8015B		MS
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Surrogate: 1-Chlorooctane		98.6 %	71.8-148			03/03/25 18:02	8015B		MS
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Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Hilcorp
382 CR 3100
Aztec NM, 87410

Project: NM Oil and Gas Tests (Ensolium)
Project Name / Number: Allison Unit #110S
Project Manager: Kate Kaufman

Reported:
03/07/25 16:06

HA04 @ 2'

2502251-07 (Soil)

Sampled Date: 02/26/25 13:00

Sampled By: Peter Anderson

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Soluble (DI Water Extraction)

Chloride	18.4	11.8	5.85	mg/kg dry	10	03/06/25 17:28	EPA 300.0		AWG
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Inorganic Compounds

% Solids	84.9			%	1	03/06/25 16:32	D2216		BB
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 11:22	8021B		JH
Ethylbenzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 11:22	8021B		JH
Toluene*	<0.050	0.050	0.009	mg/kg	50	03/04/25 11:22	8021B		JH
Total BTEX	<0.300	0.300	0.062	mg/kg	50	03/04/25 11:22	8021B		JH
Total Xylenes*	<0.150	0.150	0.032	mg/kg	50	03/04/25 11:22	8021B		JH

Surrogate: 4-Bromofluorobenzene (PID)		94.8 %	71.5-134			03/04/25 11:22	8021B		JH
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Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	03/03/25 18:25	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	03/03/25 18:25	8015B		MS
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	03/03/25 18:25	8015B		MS

Surrogate: 1-Chlorooctadecane		113 %	63.9-155			03/03/25 18:25	8015B		MS
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Surrogate: 1-Chlorooctane		98.6 %	71.8-148			03/03/25 18:25	8015B		MS
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Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Hilcorp 382 CR 3100 Aztec NM, 87410	Project: NM Oil and Gas Tests (Ensolum) Project Name / Number: Allison Unit #110S Project Manager: Kate Kaufman	Reported: 03/07/25 16:06
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HA04 @ 4'

2502251-08 (Soil)

Sampled Date: 02/26/25 13:05

Sampled By: Peter Anderson

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Soluble (DI Water Extraction)

Chloride	60.8	11.6	5.79	mg/kg dry	10	03/06/25 17:52	EPA 300.0		AWG
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Inorganic Compounds

% Solids	85.9			%	1	03/06/25 16:32	D2216		BB
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 11:34	8021B		JH
Ethylbenzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 11:34	8021B		JH
Toluene*	<0.050	0.050	0.009	mg/kg	50	03/04/25 11:34	8021B		JH
Total BTEX	<0.300	0.300	0.062	mg/kg	50	03/04/25 11:34	8021B		JH
Total Xylenes*	<0.150	0.150	0.032	mg/kg	50	03/04/25 11:34	8021B		JH

Surrogate: 4-Bromofluorobenzene (PID)		94.0 %	71.5-134			03/04/25 11:34	8021B		JH
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Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	03/03/25 18:48	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	03/03/25 18:48	8015B		MS
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	03/03/25 18:48	8015B		MS

Surrogate: 1-Chlorooctadecane		101 %	63.9-155			03/03/25 18:48	8015B		MS
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Surrogate: 1-Chlorooctane		89.6 %	71.8-148			03/03/25 18:48	8015B		MS
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Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Hilcorp
382 CR 3100
Aztec NM, 87410

Project: NM Oil and Gas Tests (Ensolium)
Project Name / Number: Allison Unit #110S
Project Manager: Kate Kaufman

Reported:
03/07/25 16:06

HA05 @ 3'

2502251-09 (Soil)

Sampled Date: 02/26/25 13:35

Sampled By: Peter Anderson

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Soluble (DI Water Extraction)

Chloride	<10.9	10.9	5.42	mg/kg dry	10	03/06/25 18:16	EPA 300.0		AWG
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Inorganic Compounds

% Solids	91.7			%	1	03/06/25 16:32	D2216		BB
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 11:45	8021B		JH
Ethylbenzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 11:45	8021B		JH
Toluene*	<0.050	0.050	0.009	mg/kg	50	03/04/25 11:45	8021B		JH
Total BTEX	<0.300	0.300	0.062	mg/kg	50	03/04/25 11:45	8021B		JH
Total Xylenes*	<0.150	0.150	0.032	mg/kg	50	03/04/25 11:45	8021B		JH

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134 03/04/25 11:45 8021B JH

Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	03/03/25 19:11	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	03/03/25 19:11	8015B		MS
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	03/03/25 19:11	8015B		MS

Surrogate: 1-Chlorooctadecane 103 % 63.9-155 03/03/25 19:11 8015B MS

Surrogate: 1-Chlorooctane 91.8 % 71.8-148 03/03/25 19:11 8015B MS

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Hilcorp
382 CR 3100
Aztec NM, 87410

Project: NM Oil and Gas Tests (Ensolum)
Project Name / Number: Allison Unit #110S
Project Manager: Kate Kaufman

Reported:
03/07/25 16:06

HA05 @ 5"

2502251-10 (Soil)

Sampled Date: 02/26/25 13:40

Sampled By: Peter Anderson

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Soluble (DI Water Extraction)

Chloride	66.0	10.8	5.39	mg/kg dry	10	03/06/25 18:41	EPA 300.0		AWG
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Inorganic Compounds

% Solids	92.2			%	1	03/06/25 16:32	D2216		BB
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 11:57	8021B		JH
Ethylbenzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 11:57	8021B		JH
Toluene*	<0.050	0.050	0.009	mg/kg	50	03/04/25 11:57	8021B		JH
Total BTEX	<0.300	0.300	0.062	mg/kg	50	03/04/25 11:57	8021B		JH
Total Xylenes*	<0.150	0.150	0.032	mg/kg	50	03/04/25 11:57	8021B		JH

Surrogate: 4-Bromofluorobenzene (PID)		97.1 %	71.5-134			03/04/25 11:57	8021B		JH
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Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	03/03/25 19:34	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	03/03/25 19:34	8015B		MS
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	03/03/25 19:34	8015B		MS

Surrogate: 1-Chlorooctadecane		115 %	63.9-155			03/03/25 19:34	8015B		MS
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Surrogate: 1-Chlorooctane		102 %	71.8-148			03/03/25 19:34	8015B		MS
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Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Hilcorp 382 CR 3100 Aztec NM, 87410	Project: NM Oil and Gas Tests (Ensolum) Project Name / Number: Allison Unit #110S Project Manager: Kate Kaufman	Reported: 03/07/25 16:06
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HA06 @ 1

2502251-11 (Soil)

Sampled Date: 02/26/25 13:50

Sampled By: Peter Anderson

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Soluble (DI Water Extraction)

Chloride	<11.3	11.3	5.60	mg/kg dry	10	03/06/25 19:05	EPA 300.0		AWG
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Inorganic Compounds

% Solids	88.7			%	1	03/06/25 16:32	D2216		BB
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 12:08	8021B		JH
Ethylbenzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 12:08	8021B		JH
Toluene*	<0.050	0.050	0.009	mg/kg	50	03/04/25 12:08	8021B		JH
Total BTEX	<0.300	0.300	0.062	mg/kg	50	03/04/25 12:08	8021B		JH
Total Xylenes*	<0.150	0.150	0.032	mg/kg	50	03/04/25 12:08	8021B		JH

Surrogate: 4-Bromofluorobenzene (PID)		96.0 %	71.5-134			03/04/25 12:08	8021B		JH
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Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	03/03/25 19:57	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	03/03/25 19:57	8015B		MS
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	03/03/25 19:57	8015B		MS

Surrogate: 1-Chlorooctadecane		123 %	63.9-155			03/03/25 19:57	8015B		MS
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Surrogate: 1-Chlorooctane		108 %	71.8-148			03/03/25 19:57	8015B		MS
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Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Hilcorp 382 CR 3100 Aztec NM, 87410	Project: NM Oil and Gas Tests (Ensolum) Project Name / Number: Allison Unit #110S Project Manager: Kate Kaufman	Reported: 03/07/25 16:06
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HA06 @ 2

2502251-12 (Soil)

Sampled Date: 02/26/25 13:53

Sampled By: Peter Anderson

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Soluble (DI Water Extraction)

Chloride	<11.4	11.4	5.66	mg/kg dry	10	03/06/25 19:30	EPA 300.0		AWG
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Inorganic Compounds

% Solids	87.8			%	1	03/06/25 16:32	D2216		BB
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 12:20	8021B		JH
Ethylbenzene*	<0.050	0.050	0.011	mg/kg	50	03/04/25 12:20	8021B		JH
Toluene*	<0.050	0.050	0.009	mg/kg	50	03/04/25 12:20	8021B		JH
Total BTEX	<0.300	0.300	0.062	mg/kg	50	03/04/25 12:20	8021B		JH
Total Xylenes*	<0.150	0.150	0.032	mg/kg	50	03/04/25 12:20	8021B		JH

Surrogate: 4-Bromofluorobenzene (PID)		95.8 %	71.5-134			03/04/25 12:20	8021B		JH
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Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	03/03/25 20:20	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	03/03/25 20:20	8015B		MS
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	03/03/25 20:20	8015B		MS

Surrogate: 1-Chlorooctadecane		115 %	63.9-155			03/03/25 20:20	8015B		MS
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Surrogate: 1-Chlorooctane		101 %	71.8-148			03/03/25 20:20	8015B		MS
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Hilcorp 382 CR 3100 Aztec NM, 87410	Project: NM Oil and Gas Tests (Ensolum) Project Name / Number: Allison Unit #110S Project Manager: Kate Kaufman	Reported: 03/07/25 16:06
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Soluble (DI Water Extraction) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250507 - IC- Ion Chromatograph										
Blank (B250507-BLK1) Prepared: 03/03/25 Analyzed: 03/06/25										
Chloride	ND	10.0	mg/kg wet							
LCS (B250507-BS1) Prepared: 03/03/25 Analyzed: 03/06/25										
Chloride	243	10.0	mg/kg wet	250		97.3	85-115			
LCS Dup (B250507-BSD1) Prepared: 03/03/25 Analyzed: 03/06/25										
Chloride	249	10.0	mg/kg wet	250		99.4	85-115	2.14	20	

Inorganic Compounds - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030640 - General Prep - Wet Chem										
Blank (5030640-BLK1) Prepared & Analyzed: 03/06/25										
% Solids	100		%							

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Hilcorp
382 CR 3100
Aztec NM, 87410

Project: NM Oil and Gas Tests (Ensolum)
Project Name / Number: Allison Unit #110S
Project Manager: Kate Kaufman

Reported:
03/07/25 16:06

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5030103 - Volatiles

Blank (5030103-BLK1)

Prepared: 03/01/25 Analyzed: 03/04/25

Surrogate: 4-Bromofluorobenzene (PID)	0.0532		mg/kg	0.0500		106	71.5-134			
Benzene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

LCS (5030103-BS1)

Prepared: 03/01/25 Analyzed: 03/04/25

Surrogate: 4-Bromofluorobenzene (PID)	0.0511		mg/kg	0.0500		102	71.5-134			
Benzene	2.03	0.050	mg/kg	2.00		101	82.8-130			
Ethylbenzene	2.19	0.050	mg/kg	2.00		109	85.9-128			
m,p-Xylene	4.60	0.100	mg/kg	4.00		115	89-129			
o-Xylene	2.16	0.050	mg/kg	2.00		108	86.1-125			
Toluene	2.15	0.050	mg/kg	2.00		107	86-128			
Total Xylenes	6.76	0.150	mg/kg	6.00		113	88.2-128			

LCS Dup (5030103-BSD1)

Prepared: 03/01/25 Analyzed: 03/04/25

Surrogate: 4-Bromofluorobenzene (PID)	0.0505		mg/kg	0.0500		101	71.5-134			
Benzene	2.00	0.050	mg/kg	2.00		100	82.8-130	1.32	15.8	
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	85.9-128	3.15	16	
m,p-Xylene	4.47	0.100	mg/kg	4.00		112	89-129	2.68	16.2	
o-Xylene	2.09	0.050	mg/kg	2.00		104	86.1-125	3.54	16.7	
Toluene	2.10	0.050	mg/kg	2.00		105	86-128	2.14	15.9	
Total Xylenes	6.56	0.150	mg/kg	6.00		109	88.2-128	2.95	16.3	

Batch 5030104 - Volatiles

Blank (5030104-BLK1)

Prepared: 03/01/25 Analyzed: 03/04/25

Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		95.2	71.5-134			
Benzene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

LCS (5030104-BS1)

Prepared: 03/01/25 Analyzed: 03/04/25

Surrogate: 4-Bromofluorobenzene (PID)	0.0466		mg/kg	0.0500		93.2	71.5-134			
Benzene	1.85	0.050	mg/kg	2.00		92.6	82.8-130			
Ethylbenzene	1.95	0.050	mg/kg	2.00		97.4	85.9-128			

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Hilcorp
382 CR 3100
Aztec NM, 87410

Project: NM Oil and Gas Tests (Ensolum)
Project Name / Number: Allison Unit #110S
Project Manager: Kate Kaufman

Reported:
03/07/25 16:06

**Volatile Organic Compounds by EPA Method 8021 - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5030104 - Volatiles (Continued)

LCS (5030104-BS1) (Continued)

Prepared: 03/01/25 Analyzed: 03/04/25

m,p-Xylene	3.85	0.100	mg/kg	4.00		96.2	89-129			
o-Xylene	1.93	0.050	mg/kg	2.00		96.7	86.1-125			
Toluene	1.96	0.050	mg/kg	2.00		98.0	86-128			
Total Xylenes	5.78	0.150	mg/kg	6.00		96.4	88.2-128			

LCS Dup (5030104-BSD1)

Prepared: 03/01/25 Analyzed: 03/04/25

Surrogate: 4-Bromofluorobenzene (PID)	0.0467		mg/kg	0.0500		93.4	71.5-134			
Benzene	1.83	0.050	mg/kg	2.00		91.4	82.8-130	1.34	15.8	
Ethylbenzene	1.93	0.050	mg/kg	2.00		96.5	85.9-128	0.992	16	
m,p-Xylene	3.79	0.100	mg/kg	4.00		94.8	89-129	1.44	16.2	
o-Xylene	1.91	0.050	mg/kg	2.00		95.5	86.1-125	1.30	16.7	
Toluene	1.95	0.050	mg/kg	2.00		97.3	86-128	0.770	15.9	
Total Xylenes	5.70	0.150	mg/kg	6.00		95.0	88.2-128	1.39	16.3	

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Hilcorp
382 CR 3100
Aztec NM, 87410

Project: NM Oil and Gas Tests (Ensolium)
Project Name / Number: Allison Unit #110S
Project Manager: Kate Kaufman

Reported:
03/07/25 16:06

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5022846 - General Prep - Organics

Blank (5022846-BLK1)

Prepared: 02/28/25 Analyzed: 03/03/25

Surrogate: 1-Chlorooctadecane	56.4		mg/kg	50.0		113	63.9-155			
Surrogate: 1-Chlorooctane	53.0		mg/kg	50.0		106	71.8-148			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

LCS (5022846-BS1)

Prepared: 02/28/25 Analyzed: 03/03/25

Surrogate: 1-Chlorooctadecane	59.1		mg/kg	50.0		118	63.9-155			
Surrogate: 1-Chlorooctane	57.2		mg/kg	50.0		114	71.8-148			
DRO >C10-C28	202	10.0	mg/kg	200		101	77.7-122			
GRO C6-C10	206	10.0	mg/kg	200		103	81.5-123			
Total TPH C6-C28	408	10.0	mg/kg	400		102	80.9-121			

LCS Dup (5022846-BSD1)

Prepared: 02/28/25 Analyzed: 03/03/25

Surrogate: 1-Chlorooctadecane	61.4		mg/kg	50.0		123	63.9-155			
Surrogate: 1-Chlorooctane	59.9		mg/kg	50.0		120	71.8-148			
DRO >C10-C28	200	10.0	mg/kg	200		100	77.7-122	1.22	15.6	
GRO C6-C10	197	10.0	mg/kg	200		98.7	81.5-123	4.14	13	
Total TPH C6-C28	397	10.0	mg/kg	400		99.3	80.9-121	2.68	18.5	

Batch 5022847 - General Prep - Organics

Blank (5022847-BLK1)

Prepared: 02/28/25 Analyzed: 03/03/25

Surrogate: 1-Chlorooctadecane	65.9		mg/kg	50.0		132	63.9-155			
Surrogate: 1-Chlorooctane	57.8		mg/kg	50.0		116	71.8-148			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

LCS (5022847-BS1)

Prepared: 02/28/25 Analyzed: 03/03/25

Surrogate: 1-Chlorooctadecane	61.6		mg/kg	50.0		123	63.9-155			
Surrogate: 1-Chlorooctane	57.3		mg/kg	50.0		115	71.8-148			
DRO >C10-C28	191	10.0	mg/kg	200		95.5	77.7-122			
GRO C6-C10	187	10.0	mg/kg	200		93.6	81.5-123			
Total TPH C6-C28	378	10.0	mg/kg	400		94.5	80.9-121			

LCS Dup (5022847-BSD1)

Prepared: 02/28/25 Analyzed: 03/03/25

Surrogate: 1-Chlorooctadecane	67.5		mg/kg	50.0		135	63.9-155			
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Jeremy D Allen, Laboratory Director

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Hilcorp
382 CR 3100
Aztec NM, 87410

Project: NM Oil and Gas Tests (Ensolum)
Project Name / Number: Allison Unit #110S
Project Manager: Kate Kaufman

Reported:
03/07/25 16:06

**Petroleum Hydrocarbons by GC FID - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5022847 - General Prep - Organics (Continued)

LCS Dup (5022847-BSD1) (Continued)

Prepared: 02/28/25 Analyzed: 03/03/25

Surrogate: 1-Chlorooctane	62.4		mg/kg	50.0		125	71.8-148			
DRO >C10-C28	204	10.0	mg/kg	200		102	77.7-122	6.38	15.6	
GRO C6-C10	199	10.0	mg/kg	200		99.5	81.5-123	6.11	13	
Total TPH C6-C28	402	10.0	mg/kg	400		101	80.9-121	6.25	18.5	

Notes and Definitions

- M5 Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Hilcorp 382 CR 3100 Aztec NM, 87410	Project: NM Oil and Gas Tests (Ensolum) Project Name / Number: Allison Unit #110S Project Manager: Kate Kaufman	Reported: 03/07/25 16:06
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Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
2502251-02	Chloride [IC]	Chloride	M5	Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.

Green Analytical Laboratories

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Durango, CO 81303
(970) 247-4220

Note: Wire-Out™ or similar products cannot be used on the Chain of Custody

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
FORM-006, R 8.0

Company or Client: Hilcorp		ATTN: Kate Kaufman		Bill to (if different):		ANALYSIS REQUEST	
Address:		State:		Zip:			
Phone #:		Contact Person: Stuart Hyde		P.O. #:			
Email Report to: K. Kaufman@hilcorp.com / Shyde@ensium.com		Project Name(optional): Allison Unit # 1108		Rush? N		TAT Needed?	
Sampler Name (Print): Peter Anderson		Lab I.D. 2502-251		Matrix (check one)		# of containers	
Sample Name or Location		Collected		Groundwater			
		Date		Surface Water			
		Time		Wastewater			
				Produced Water			
				Drinking Water			
				Soil			
				Other:			
				No preservation			
				Nitric Acid			
				Hydrochloric Acid			
				Sulfuric Acid			
				Sodium Hydroxide			
				Other:			

Lab I.D.	Sample Name or Location	Date	Time	Matrix	No preservation	Nitric Acid	Hydrochloric Acid	Sulfuric Acid	Sodium Hydroxide	Other	Temperature at receipt:	Checked by:	On Ice?	Therm. used:
01	HA01@ 4'	2/16/25	10:50											
02	HA01@ 4.75'		10:56											
03	HA02@ 3'		11:45											
04	HA02@ 3.5'		11:48											
05	HA03@ 2'		12:05											
06	HA03@ 1'		11:54											
07	HA04@ 2'		13:00											
08	HA04@ 4'		13:05											
09	HA05@ 3'		13:35											
10	HA05@ 5'		13:40											

REMARKS: BTEX 8021B new per email S.H. TPH + Full CI

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion of the applicable service. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]* Date: 2/24/25 Time: 16:06 Received By: *[Signature]* Date: 2/24/25 Time: 16:06

Relinquished By: *[Signature]* Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.
 † GAL cannot accept verbal changes. Please email changes to receiving@greenanalytical.com
 Page 1 of 2



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
FORM-006, R 8.0

Company or Client: Hilcorp		App: Kate Kaufman		Bill to (if different):		ANALYSIS REQUEST				
Address:		State:		Zip:						
Phone #:										
Contact Person: Stunt Hyde										
Email Report to: Kate Kaufman										
Project Name (optional): Allison unit #1105										
Sampler Name (Print): Peter Anderson										
Lab I.D. Lab Use Only 2502-251	Sample Name or Location	Collected		Matrix (check one)				# of containers No preservation Nitric Acid Hydrochloric Acid Sulfuric Acid Sodium Hydroxide OTHER:		
		11	1) HA06@1	Date	Time	GROUNDWATER				
		12	2) HA06@2	2/26/25	1350	SURFACE WATER				
		3)				WASTEWATER				
		4)				PRODUCED WATER				
		5)				DRINKING WATER				
		6)				SOIL				
		7)				OTHER:				
		8)								
		9)								
		10)								

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion of the applicable service. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>[Signature]</i>	Date: 2/24/25	Received By: <i>[Signature]</i>	Date: 2/26/25	ADDITIONAL REMARKS: Temperature at receipt: 83/8.5 °C Checked by: <i>[Signature]</i> On Ice? (Y) N Therm. used: <i>[Signature]</i>
Relinquished By: <i>[Signature]</i>	Date: 1606	Received By: <i>[Signature]</i>	Date: 16106	
Relinquished By: <i>[Signature]</i>	Date: 1606	Received By: <i>[Signature]</i>	Date: 16106	

* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.
 † GAL cannot accept verbal changes. Please email changes to receiving@greenanalytical.com



SAMPLE CONDITION RECEIPT FORM

Date/Initials of person examining contents: 2.26.25
CPN

Labeled by initials: _____
 (if different than above)

Client Name: Hilcorp

Work Order # 2502-251

Courier: Fed Ex UPS USPS Client Kangaroo Third Party Other

Custody Seals on Box/Cooler Present: Yes No Seals Intact: Yes No GAL Cooler #: _____

Thermometer Used: #2 Samples on ice, cooling process has begun: Yes No

Type of Ice: Wet Blue None Cooler Temp: Observed Temp: 8.3 °C Correction Factor: +2.2 °C Final Temp: 8.5 °C

*Temp should be above freezing 6°C

Compliance: Yes No

Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
COC Signed when Relinquished and Received:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and Signature on COC: *Required for compliance	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Samples arrived within hold time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Correct Containers Used & Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. <u>Limited volume</u>
pH's acceptable upon receipt, where applicable: *Not including metals bottles	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9.
Dissolved Testing Needed: Field Filtered: <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10.
Sample Labels match COC: -Includes Date/Time/ID Matrix: WT <u>SL</u> OT	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
VOA's meet headspace requirement (<6mm bubbles)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Non-Conformance(s):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	13.

Client Notification/Resolution:

Person Contacted: Stuart Hyde

Date/Time: 2-27-25 email

Comments/Resolution: user confirmed BTEX method.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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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

QUESTIONS

Action 449390

QUESTIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 449390
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2502828537
Incident Name	NAPP2502828537 ALLISON #110S @ 30-045-33272
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-045-33272] ALLISON UNIT #110S

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Allison #110S
Date Release Discovered	01/25/2025
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Freeze Pump Produced Water Released: 8 BBL Recovered: 0 BBL Lost: 8 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 449390

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 449390
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 04/07/2025
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QUESTIONS, Page 3

Action 449390

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 449390
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	944
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	02/26/2025
On what date will (or did) the final sampling or liner inspection occur	02/26/2025
On what date will (or was) the remediation complete(d)	02/26/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 449390

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 449390
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	No remediation needed

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 04/07/2025
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 449390

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 449390
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 449390

QUESTIONS (continued)

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	Action Number: 449390
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	433462
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/26/2025
What was the (estimated) number of samples that were to be gathered	12
What was the sampling surface area in square feet	1000

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Not applicable

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 (in .pdf format) 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.

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

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 04/07/2025
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QUESTIONS, Page 7

Action 449390

QUESTIONS (continued)

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	Action Number: 449390
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 449390

CONDITIONS

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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	7/11/2025