ENSOLUM

April 23, 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
CA McAdams C 2E
Hilcorp Energy Company
NMOCD Incident No: nAPP2505937309

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 the CA McAdams C 2E natural gas production well (Site, Figure 1). The Site is located on surface managed by the Bureau of Land Management (BLM) in Unit F, Section 5, Township 27 North, Range 10 West, in San Juan County, New Mexico (36.607172°, -107.923134°).

SITE BACKGROUND

On February 27, 2025, Hilcorp personnel discovered a release of 10 barrels (bbls) of produced water at the Site. Specifically, while conducting a routine Site inspection, a Hilcorp operator observed small pools of produced water on the witness liner within the below grade tank (BGT) cribbing and noted the BGT was mostly empty. Upon discovery, Hilcorp inspected and repaired the BGT tank to prevent potential future releases. Due to no obvious leaks on the outside of the BGT, it was determined a hole formed on the bottom of the tank, likely due to corrosion. The spilled fluids did not migrate horizontally outside of secondary containment; however, fluids were not recovered and were absorbed by soils underlying the BGT. Hilcorp notified the New Mexico Oil Conservation Division (NMOCD) within 15 days of discovery and submitted an initial *Notification of Release* on February 28, 2025. NMOCD assigned the Site Incident Number nAPP2505937309.

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).

In the report titled “Hydrogeology and Water Resources of San Juan Basin, New Mexico” (Stone, et. al., 1983), the Nacimiento Formation is characterized by interbedded black carbonaceous mudstones and white, coarse-grained sandstones. This formation ranges in thickness from 418 feet to 2,232 feet. The Nacimiento Formation is underlain by the Ojo Alamo sandstone (Stone et. al., 1983). The hydrogeologic properties of the Nacimiento Formation display variable hydrogeologic properties dependent on location.

The closest significant watercourse is an unnamed dry wash located 115 feet south of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake, and is approximately 115 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-00032 (Appendix A), located approximately 5,427 feet south of the Site. The recorded depth to water on the NMOSE database is 60 feet below ground surface (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 no 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): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES

To assess potential soil impacts from the release, Ensolum advanced five hand auger borings (HA-01 through HA-05) on March 24, 2025 (Figure 2). The NMOCD was notified at least two business days prior to commencing on-Site activities (Appendix B). Because the base of the BGT was set at a depth of approximately 6 feet bgs, all hand auger borings were advanced to depths of 8 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 PID results summarized in Table 1. Of note, chloride field screening results were less than the minimum test strip limits, therefore sampling depth intervals were based on PID results.

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 Eurofins Environment Testing in Albuquerque, New Mexico for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B, TPH-GRO, TPH-DRO, and TPH-MRO following EPA Method 8015D, 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 March 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 nAPP2505937309.

REFERENCES

Stone, W., Lyford, F., Frenzel, P., Mizell, N., & Padgett, E. (1983). Hydrogeology and Water Resources of San Juan Basin, New Mexico. New Mexico Bureau of Mines & Mineral Resources.

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

Tracy Dembrowski
Project Geologist
(720) 989-6175
tdembrowski@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

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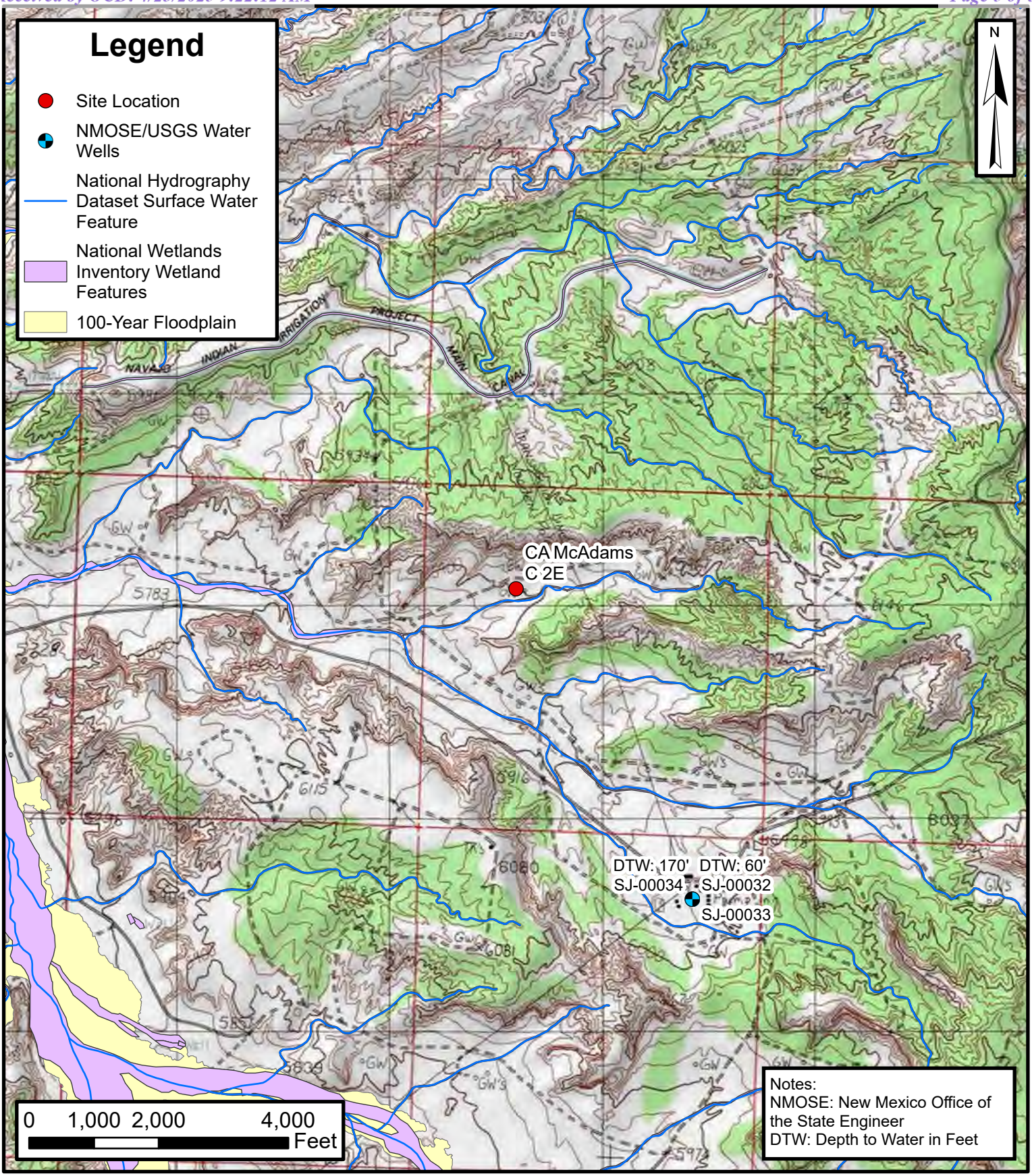
FIGURES



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Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

CA McAdams C 2E
Hilcorp Energy Company
36.607172, -107.923134
San Juan County, New Mexico

FIGURE
1

Default Folder: C:\Users\Greg Pates\OneDrive - ENSOLUM, LLC\Desktop\Ensolum GIS\Ensolum GIS\1 - Durango\Hilcorp\CA McAdams

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Environmental, Engineering and Hydrogeologic Consultants

Soil Sample Location Map

CA McAdams C 2E
Hilcorp Energy Company

36.607172, -107.923134
San Juan County, New Mexico

FIGURE
2

Sources: Google Earth (2019)

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
CA McAdams C 2E
Hilcorp Energy Company
San Juan County, New Mexico

Sample Identification	Date	Depth (feet bgs)	PID (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)	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	**100**	**600**
HA-01@6-7'	3/24/2025	6-7	0.3	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.3	<46	<46	<60
HA-01@7-8'	3/24/2025	7-8	0.2	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.5	<47	<47	<60
HA-02@2-3'	3/24/2025	2-3	0.6	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.6	<48	<48	<60
HA-02@7-8'	3/24/2025	7-8	0.4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.3	<47	<47	<60
HA-03@4-5'	3/24/2025	4-5	0.7	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.2	<46	<46	<60
HA-03@7-8'	3/24/2025	7-8	0.1	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.2	<46	<46	<60
HA-04@0-1'	3/24/2025	0-1	0.7	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<46	<46	130
HA-04@7-8'	3/24/2025	7-8	0.0	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<49	<60
HA-05@6-7'	3/24/2025	6-7	0.0	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<50	<50	<60
HA-05@7-8'	3/24/2025	7-8	0.1	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.2	<46	<46	<60

Notes:

bgs: Below ground surface
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
mg/kg: Milligrams per kilogram
ppm: Parts per million
NE: Not Established
NMOCD: New Mexico Oil Conservation Division
PID: Photoionization detector
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)
*Concentrations in **bold** and shaded exceed the New Mexico Oil Conservation Division Table I Closure Criteria for Soils Impacted by a Release*

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APPENDIX A

NMOSE Point of Diversion Summary

Peak Water Well #3

221826

(This form is to be executed in triplicate)

WELL RECORD

Misc. 1-SJ-32

Date of Receipt December 16, 1953 Permit No. ~~Misc. 1-SJ-32~~

Name of permitee, El Paso Natural Gas Company

Street or P. O. Box 997, City and State Farmington, New Mexico

1. Well location and description: The shallow (shallow or artesian) well is located in SW ¼, NE ¼, NE ¼ of Section 8, Township 27N, Range 10W; Elevation of top of casing above sea level, 5962 Gr. feet; diameter of hole, 12 inches; total depth, 235 feet; depth to water upon completion, 60 feet; drilling was commenced 7-5, 19 53 and completed 7-11, 19 53; name of drilling contractor Conley Cox Box 785; Address, Aztec, N. M.; Driller's License No. 85-0106595

2. Principal Water-bearing Strata:

	Depth in Feet From	To	Thickness	Description of Water-bearing Formation
No. 1	55	67	12	buff med. gr. sd. v. little water
No. 2	165	195	30	W. to buff med. gr. sd.
No. 3				
No. 4				
No. 5				

3. Casing Record:

Diameter in inches	Pounds per ft.	Threads per inch	Depth of Casing or Liner Top	Bottom	Feet of Casing	Type of Shoe	Perforation From	To
8-5/8					235		55	67
							165	195

4. If above construction replaces old well to be abandoned, give location: ¼, ¼, ¼ of Section, Township, Range; name and address of plugging contractor,

5. Log of Well:

Depth in Feet From	Depth in Feet To	Thickness in feet	Description of Formation
0	11	11	Alluvium.
11	52	45	W. med. gr. sd.
56	87	31	Buff med. gr. sd. (Water).
87	90	3	Sdy. sh.
90	128	38	Med. to fn. gr. sd. w/sh. streaks.
128	201	73	Med. gr. sd. (Water).
201	235	34	W. to buff med. gr. sd. (Water).

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

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APPENDIX B

Agency Sampling Notification

From: OCDOnline@state.nm.us
To: Stuart Hyde
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 443516
Date: Tuesday, March 18, 2025 10:28:42 AM

[**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#) nAPP2505937309.

The sampling event is expected to take place:

When: 03/24/2025 @ 09:00
Where: F-05-27N-10W 1560 FNL 1530 FWL (36.60729,-107.92215)

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

Additional Instructions: C A McAdams C 2E well pad, coordinates 36.607288, -107.923126

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

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APPENDIX C

Photographic Log

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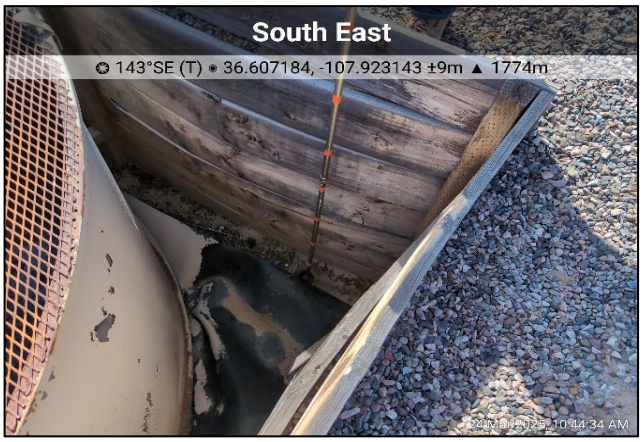
Photographic Log
Hilcorp Energy Company
CA McAdams C 2E
nAPP2505937309

Photograph: 1 Date: 3/24/2025
Description: Site information sign; bgt and release was far left
View: Southwest

Photograph: 2 Date: 3/24/2025
Description: Below ground tank where release occurred
View: Southeast



Photograph: 3 Date: 3/24/2025
Description: Liner of bgt & hand auger sample HA-01
View: Southeast

Photograph: 4 Date: 3/24/2025
Description: Darker center was HA-05, south of release
View: East

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APPENDIX D

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mitch Killough
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499

Generated 4/1/2025 2:45:23 PM

JOB DESCRIPTION

CA McAdams

JOB NUMBER

885-22001-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
4/1/2025 2:45:23 PM

Authorized for release by
Michelle Garcia, Project Manager
michelle.garcia@et.eurofinsus.com
(505)345-3975

Client: Hilcorp Energy
Project/Site: CA McAdams

Laboratory Job ID: 885-22001-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Hilcorp Energy
Project: CA McAdams

Job ID: 885-22001-1

Job ID: 885-22001-1 Eurofins Albuquerque

Job Narrative
885-22001-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/25/2025 7:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C.

Gasoline Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

Client Sample ID: HA-01@6-7'

Lab Sample ID: 885-22001-1

Date Collected: 03/24/25 11:00
Matrix: Solid
Date Received: 03/25/25 07:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		03/25/25 17:15	03/28/25 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*03/25/25 17:15*	*03/28/25 16:38*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/25/25 17:15	03/27/25 20:08	1
Ethylbenzene	ND		0.050		mg/Kg		03/25/25 17:15	03/27/25 20:08	1
Toluene	ND		0.050		mg/Kg		03/25/25 17:15	03/27/25 20:08	1
Xylenes, Total	ND		0.10		mg/Kg		03/25/25 17:15	03/27/25 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*03/25/25 17:15*	*03/27/25 20:08*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		03/27/25 07:45	03/27/25 12:20	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		03/27/25 07:45	03/27/25 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*122*		*62 - 134*	*03/27/25 07:45*	*03/27/25 12:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/27/25 12:09	03/27/25 15:00	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

Client Sample ID: HA-01@7-8'

Lab Sample ID: 885-22001-2

Date Collected: 03/24/25 11:10
Matrix: Solid
Date Received: 03/25/25 07:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.6		mg/Kg		03/25/25 17:15	03/28/25 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*03/25/25 17:15*	*03/28/25 17:01*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		03/25/25 17:15	03/27/25 21:14	1
Ethylbenzene	ND		0.046		mg/Kg		03/25/25 17:15	03/27/25 21:14	1
Toluene	ND		0.046		mg/Kg		03/25/25 17:15	03/27/25 21:14	1
Xylenes, Total	ND		0.092		mg/Kg		03/25/25 17:15	03/27/25 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*03/25/25 17:15*	*03/27/25 21:14*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		03/27/25 07:45	03/27/25 12:55	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		03/27/25 07:45	03/27/25 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*	*03/27/25 07:45*	*03/27/25 12:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/27/25 12:09	03/27/25 15:41	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

Client Sample ID: HA-02@2-3'

Lab Sample ID: 885-22001-3

Date Collected: 03/24/25 11:20
Matrix: Solid
Date Received: 03/25/25 07:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		03/25/25 17:15	03/28/25 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*03/25/25 17:15*	*03/28/25 17:25*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/25/25 17:15	03/27/25 21:35	1
Ethylbenzene	ND		0.049		mg/Kg		03/25/25 17:15	03/27/25 21:35	1
Toluene	ND		0.049		mg/Kg		03/25/25 17:15	03/27/25 21:35	1
Xylenes, Total	ND		0.097		mg/Kg		03/25/25 17:15	03/27/25 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*03/25/25 17:15*	*03/27/25 21:35*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		03/27/25 07:45	03/27/25 13:07	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		03/27/25 07:45	03/27/25 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*117*		*62 - 134*	*03/27/25 07:45*	*03/27/25 13:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/27/25 12:09	03/27/25 15:55	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

Client Sample ID: HA-02@7-8'

Lab Sample ID: 885-22001-4

Date Collected: 03/24/25 11:30
Matrix: Solid
Date Received: 03/25/25 07:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		03/25/25 17:15	03/28/25 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*03/25/25 17:15*	*03/28/25 17:49*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/25/25 17:15	03/27/25 21:57	1
Ethylbenzene	ND		0.048		mg/Kg		03/25/25 17:15	03/27/25 21:57	1
Toluene	ND		0.048		mg/Kg		03/25/25 17:15	03/27/25 21:57	1
Xylenes, Total	ND		0.097		mg/Kg		03/25/25 17:15	03/27/25 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*03/25/25 17:15*	*03/27/25 21:57*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		03/27/25 07:45	03/27/25 13:19	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		03/27/25 07:45	03/27/25 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*113*		*62 - 134*	*03/27/25 07:45*	*03/27/25 13:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/27/25 12:09	03/27/25 16:08	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

Client Sample ID: HA-03@4-5'

Lab Sample ID: 885-22001-5

Date Collected: 03/24/25 11:40
Matrix: Solid
Date Received: 03/25/25 07:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		03/25/25 17:15	03/28/25 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*03/25/25 17:15*	*03/28/25 18:13*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/25/25 17:15	03/27/25 22:19	1
Ethylbenzene	ND		0.050		mg/Kg		03/25/25 17:15	03/27/25 22:19	1
Toluene	ND		0.050		mg/Kg		03/25/25 17:15	03/27/25 22:19	1
Xylenes, Total	ND		0.099		mg/Kg		03/25/25 17:15	03/27/25 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*03/25/25 17:15*	*03/27/25 22:19*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		03/27/25 07:45	03/27/25 13:30	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		03/27/25 07:45	03/27/25 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*108*		*62 - 134*	*03/27/25 07:45*	*03/27/25 13:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/27/25 12:09	03/27/25 16:22	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

Client Sample ID: HA-03@7-8'

Lab Sample ID: 885-22001-6

Date Collected: 03/24/25 11:50
Matrix: Solid
Date Received: 03/25/25 07:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		03/25/25 17:15	03/28/25 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*03/25/25 17:15*	*03/28/25 18:36*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/25/25 17:15	03/27/25 22:41	1
Ethylbenzene	ND		0.050		mg/Kg		03/25/25 17:15	03/27/25 22:41	1
Toluene	ND		0.050		mg/Kg		03/25/25 17:15	03/27/25 22:41	1
Xylenes, Total	ND		0.099		mg/Kg		03/25/25 17:15	03/27/25 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*48 - 145*	*03/25/25 17:15*	*03/27/25 22:41*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		03/27/25 07:45	03/27/25 13:42	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		03/27/25 07:45	03/27/25 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*109*		*62 - 134*	*03/27/25 07:45*	*03/27/25 13:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/27/25 12:09	03/27/25 16:36	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

Client Sample ID: HA-04@0-1'

Lab Sample ID: 885-22001-7

Date Collected: 03/24/25 12:00
Matrix: Solid
Date Received: 03/25/25 07:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		03/25/25 17:15	03/28/25 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*03/25/25 17:15*	*03/28/25 19:00*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/25/25 17:15	03/27/25 23:03	1
Ethylbenzene	ND		0.049		mg/Kg		03/25/25 17:15	03/27/25 23:03	1
Toluene	ND		0.049		mg/Kg		03/25/25 17:15	03/27/25 23:03	1
Xylenes, Total	ND		0.098		mg/Kg		03/25/25 17:15	03/27/25 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*03/25/25 17:15*	*03/27/25 23:03*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		03/27/25 07:45	03/27/25 14:06	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		03/27/25 07:45	03/27/25 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*108*		*62 - 134*	*03/27/25 07:45*	*03/27/25 14:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		60		mg/Kg		03/27/25 12:09	03/27/25 17:17	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

Client Sample ID: HA-04@7-8'

Lab Sample ID: 885-22001-8

Date Collected: 03/24/25 12:10
Matrix: Solid
Date Received: 03/25/25 07:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		03/25/25 17:15	03/28/25 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*03/25/25 17:15*	*03/28/25 19:24*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/25/25 17:15	03/27/25 23:24	1
Ethylbenzene	ND		0.050		mg/Kg		03/25/25 17:15	03/27/25 23:24	1
Toluene	ND		0.050		mg/Kg		03/25/25 17:15	03/27/25 23:24	1
Xylenes, Total	ND		0.10		mg/Kg		03/25/25 17:15	03/27/25 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*03/25/25 17:15*	*03/27/25 23:24*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		03/27/25 07:45	03/27/25 14:17	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		03/27/25 07:45	03/27/25 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*109*		*62 - 134*	*03/27/25 07:45*	*03/27/25 14:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/27/25 12:09	03/27/25 17:30	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

Client Sample ID: HA-05@6-7'

Lab Sample ID: 885-22001-9

Date Collected: 03/24/25 12:20
Matrix: Solid
Date Received: 03/25/25 07:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.9		mg/Kg		03/25/25 17:15	03/28/25 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*03/25/25 17:15*	*03/28/25 19:48*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/25/25 17:15	03/27/25 23:46	1
Ethylbenzene	ND		0.049		mg/Kg		03/25/25 17:15	03/27/25 23:46	1
Toluene	ND		0.049		mg/Kg		03/25/25 17:15	03/27/25 23:46	1
Xylenes, Total	ND		0.097		mg/Kg		03/25/25 17:15	03/27/25 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*03/25/25 17:15*	*03/27/25 23:46*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		03/27/25 07:45	03/27/25 14:29	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		03/27/25 07:45	03/27/25 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*114*		*62 - 134*	*03/27/25 07:45*	*03/27/25 14:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/27/25 12:09	03/27/25 17:44	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

Client Sample ID: HA-05@7-8'

Lab Sample ID: 885-22001-10

Date Collected: 03/24/25 12:30
Matrix: Solid
Date Received: 03/25/25 07:10

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		4.8		mg/Kg		03/25/25 17:15	03/28/25 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*03/25/25 17:15*	*03/28/25 20:11*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		03/25/25 17:15	03/28/25 00:29	1
Ethylbenzene	ND		0.048		mg/Kg		03/25/25 17:15	03/28/25 00:29	1
Toluene	ND		0.048		mg/Kg		03/25/25 17:15	03/28/25 00:29	1
Xylenes, Total	ND		0.096		mg/Kg		03/25/25 17:15	03/28/25 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*48 - 145*	*03/25/25 17:15*	*03/28/25 00:29*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		03/27/25 07:45	03/27/25 14:41	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		03/27/25 07:45	03/27/25 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*114*		*62 - 134*	*03/27/25 07:45*	*03/27/25 14:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		03/27/25 12:09	03/27/25 17:58	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-23060/1-A
Matrix: Solid
Analysis Batch: 23303

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23060

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0		mg/Kg		03/25/25 17:15	03/28/25 15:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*03/25/25 17:15*	*03/28/25 15:03*	*1*

Lab Sample ID: LCS 885-23060/2-A
Matrix: Solid
Analysis Batch: 23303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23060

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			25.0	25.4		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*200*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-23060/1-A
Matrix: Solid
Analysis Batch: 23236

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23060

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		03/25/25 17:15	03/27/25 18:42	1
Ethylbenzene	ND		0.050		mg/Kg		03/25/25 17:15	03/27/25 18:42	1
Toluene	ND		0.050		mg/Kg		03/25/25 17:15	03/27/25 18:42	1
Xylenes, Total	ND		0.10		mg/Kg		03/25/25 17:15	03/27/25 18:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*03/25/25 17:15*	*03/27/25 18:42*	*1*

Lab Sample ID: LCS 885-23060/3-A
Matrix: Solid
Analysis Batch: 23236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23060

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.994		mg/Kg		99	70 - 130		
Ethylbenzene			1.00	0.988		mg/Kg		99	70 - 130		
Toluene			1.00	0.980		mg/Kg		98	70 - 130		
Xylenes, Total			3.00	2.94		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*

QC Sample Results

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-22001-1 MS
Matrix: Solid
Analysis Batch: 23236

Client Sample ID: HA-01@6-7'
Prep Type: Total/NA
Prep Batch: 23060

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.991	1.00		mg/Kg		101	70 - 130
Ethylbenzene	ND		0.991	0.997		mg/Kg		101	70 - 130
Toluene	ND		0.991	0.991		mg/Kg		100	70 - 130
Xylenes, Total	ND		2.97	2.98		mg/Kg		100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*

Lab Sample ID: 885-22001-1 MSD
Matrix: Solid
Analysis Batch: 23236

Client Sample ID: HA-01@6-7'
Prep Type: Total/NA
Prep Batch: 23060

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.995	0.979		mg/Kg		98	70 - 130	2	20
Ethylbenzene	ND		0.995	0.974		mg/Kg		98	70 - 130	2	20
Toluene	ND		0.995	0.975		mg/Kg		98	70 - 130	2	20
Xylenes, Total	ND		2.99	2.94		mg/Kg		99	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-23155/1-A
Matrix: Solid
Analysis Batch: 23150

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23155

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		03/27/25 07:45	03/27/25 11:57	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		03/27/25 07:45	03/27/25 11:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*109*		*62 - 134*	*03/27/25 07:45*	*03/27/25 11:57*	*1*

Lab Sample ID: LCS 885-23155/2-A
Matrix: Solid
Analysis Batch: 23150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23155

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]			50.0	39.1		mg/Kg		78	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*

QC Sample Results

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-22001-1 MS
Matrix: Solid
Analysis Batch: 23150

Client Sample ID: HA-01@6-7'
Prep Type: Total/NA
Prep Batch: 23155

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		48.8	38.7		mg/Kg		79	44 - 136

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*

Lab Sample ID: 885-22001-1 MSD
Matrix: Solid
Analysis Batch: 23150

Client Sample ID: HA-01@6-7'
Prep Type: Total/NA
Prep Batch: 23155

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		47.7	33.5		mg/Kg		70	44 - 136	14	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 885-23156/3
Matrix: Solid
Analysis Batch: 23156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.527		mg/L		105	50 - 150

Lab Sample ID: MB 885-23193/1-A
Matrix: Solid
Analysis Batch: 23156

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23193

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		03/27/25 12:09	03/27/25 14:33	1

Lab Sample ID: LCS 885-23193/2-A
Matrix: Solid
Analysis Batch: 23156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	15.2		mg/Kg		101	90 - 110

QC Association Summary

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

GC VOA

Prep Batch: 23060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22001-1	HA-01@6-7'	Total/NA	Solid	5030C	
885-22001-2	HA-01@7-8'	Total/NA	Solid	5030C	
885-22001-3	HA-02@2-3'	Total/NA	Solid	5030C	
885-22001-4	HA-02@7-8'	Total/NA	Solid	5030C	
885-22001-5	HA-03@4-5'	Total/NA	Solid	5030C	
885-22001-6	HA-03@7-8'	Total/NA	Solid	5030C	
885-22001-7	HA-04@0-1'	Total/NA	Solid	5030C	
885-22001-8	HA-04@7-8'	Total/NA	Solid	5030C	
885-22001-9	HA-05@6-7'	Total/NA	Solid	5030C	
885-22001-10	HA-05@7-8'	Total/NA	Solid	5030C	
MB 885-23060/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-23060/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-23060/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-22001-1 MS	HA-01@6-7'	Total/NA	Solid	5030C	
885-22001-1 MSD	HA-01@6-7'	Total/NA	Solid	5030C	

Analysis Batch: 23236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22001-1	HA-01@6-7'	Total/NA	Solid	8021B	23060
885-22001-2	HA-01@7-8'	Total/NA	Solid	8021B	23060
885-22001-3	HA-02@2-3'	Total/NA	Solid	8021B	23060
885-22001-4	HA-02@7-8'	Total/NA	Solid	8021B	23060
885-22001-5	HA-03@4-5'	Total/NA	Solid	8021B	23060
885-22001-6	HA-03@7-8'	Total/NA	Solid	8021B	23060
885-22001-7	HA-04@0-1'	Total/NA	Solid	8021B	23060
885-22001-8	HA-04@7-8'	Total/NA	Solid	8021B	23060
885-22001-9	HA-05@6-7'	Total/NA	Solid	8021B	23060
885-22001-10	HA-05@7-8'	Total/NA	Solid	8021B	23060
MB 885-23060/1-A	Method Blank	Total/NA	Solid	8021B	23060
LCS 885-23060/3-A	Lab Control Sample	Total/NA	Solid	8021B	23060
885-22001-1 MS	HA-01@6-7'	Total/NA	Solid	8021B	23060
885-22001-1 MSD	HA-01@6-7'	Total/NA	Solid	8021B	23060

Analysis Batch: 23303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22001-1	HA-01@6-7'	Total/NA	Solid	8015M/D	23060
885-22001-2	HA-01@7-8'	Total/NA	Solid	8015M/D	23060
885-22001-3	HA-02@2-3'	Total/NA	Solid	8015M/D	23060
885-22001-4	HA-02@7-8'	Total/NA	Solid	8015M/D	23060
885-22001-5	HA-03@4-5'	Total/NA	Solid	8015M/D	23060
885-22001-6	HA-03@7-8'	Total/NA	Solid	8015M/D	23060
885-22001-7	HA-04@0-1'	Total/NA	Solid	8015M/D	23060
885-22001-8	HA-04@7-8'	Total/NA	Solid	8015M/D	23060
885-22001-9	HA-05@6-7'	Total/NA	Solid	8015M/D	23060
885-22001-10	HA-05@7-8'	Total/NA	Solid	8015M/D	23060
MB 885-23060/1-A	Method Blank	Total/NA	Solid	8015M/D	23060
LCS 885-23060/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	23060

QC Association Summary

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

GC Semi VOA

Analysis Batch: 23150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22001-1	HA-01@6-7'	Total/NA	Solid	8015M/D	23155
885-22001-2	HA-01@7-8'	Total/NA	Solid	8015M/D	23155
885-22001-3	HA-02@2-3'	Total/NA	Solid	8015M/D	23155
885-22001-4	HA-02@7-8'	Total/NA	Solid	8015M/D	23155
885-22001-5	HA-03@4-5'	Total/NA	Solid	8015M/D	23155
885-22001-6	HA-03@7-8'	Total/NA	Solid	8015M/D	23155
885-22001-7	HA-04@0-1'	Total/NA	Solid	8015M/D	23155
885-22001-8	HA-04@7-8'	Total/NA	Solid	8015M/D	23155
885-22001-9	HA-05@6-7'	Total/NA	Solid	8015M/D	23155
885-22001-10	HA-05@7-8'	Total/NA	Solid	8015M/D	23155
MB 885-23155/1-A	Method Blank	Total/NA	Solid	8015M/D	23155
LCS 885-23155/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	23155
885-22001-1 MS	HA-01@6-7'	Total/NA	Solid	8015M/D	23155
885-22001-1 MSD	HA-01@6-7'	Total/NA	Solid	8015M/D	23155

Prep Batch: 23155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22001-1	HA-01@6-7'	Total/NA	Solid	SHAKE	
885-22001-2	HA-01@7-8'	Total/NA	Solid	SHAKE	
885-22001-3	HA-02@2-3'	Total/NA	Solid	SHAKE	
885-22001-4	HA-02@7-8'	Total/NA	Solid	SHAKE	
885-22001-5	HA-03@4-5'	Total/NA	Solid	SHAKE	
885-22001-6	HA-03@7-8'	Total/NA	Solid	SHAKE	
885-22001-7	HA-04@0-1'	Total/NA	Solid	SHAKE	
885-22001-8	HA-04@7-8'	Total/NA	Solid	SHAKE	
885-22001-9	HA-05@6-7'	Total/NA	Solid	SHAKE	
885-22001-10	HA-05@7-8'	Total/NA	Solid	SHAKE	
MB 885-23155/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-23155/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-22001-1 MS	HA-01@6-7'	Total/NA	Solid	SHAKE	
885-22001-1 MSD	HA-01@6-7'	Total/NA	Solid	SHAKE	

HPLC/IC

Analysis Batch: 23156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22001-1	HA-01@6-7'	Total/NA	Solid	300.0	23193
885-22001-2	HA-01@7-8'	Total/NA	Solid	300.0	23193
885-22001-3	HA-02@2-3'	Total/NA	Solid	300.0	23193
885-22001-4	HA-02@7-8'	Total/NA	Solid	300.0	23193
885-22001-5	HA-03@4-5'	Total/NA	Solid	300.0	23193
885-22001-6	HA-03@7-8'	Total/NA	Solid	300.0	23193
885-22001-7	HA-04@0-1'	Total/NA	Solid	300.0	23193
885-22001-8	HA-04@7-8'	Total/NA	Solid	300.0	23193
885-22001-9	HA-05@6-7'	Total/NA	Solid	300.0	23193
885-22001-10	HA-05@7-8'	Total/NA	Solid	300.0	23193
MB 885-23193/1-A	Method Blank	Total/NA	Solid	300.0	23193
LCS 885-23193/2-A	Lab Control Sample	Total/NA	Solid	300.0	23193
MRL 885-23156/3	Lab Control Sample	Total/NA	Solid	300.0	

QC Association Summary

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

HPLC/IC

Prep Batch: 23193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-22001-1	HA-01@6-7'	Total/NA	Solid	300_Prep	
885-22001-2	HA-01@7-8'	Total/NA	Solid	300_Prep	
885-22001-3	HA-02@2-3'	Total/NA	Solid	300_Prep	
885-22001-4	HA-02@7-8'	Total/NA	Solid	300_Prep	
885-22001-5	HA-03@4-5'	Total/NA	Solid	300_Prep	
885-22001-6	HA-03@7-8'	Total/NA	Solid	300_Prep	
885-22001-7	HA-04@0-1'	Total/NA	Solid	300_Prep	
885-22001-8	HA-04@7-8'	Total/NA	Solid	300_Prep	
885-22001-9	HA-05@6-7'	Total/NA	Solid	300_Prep	
885-22001-10	HA-05@7-8'	Total/NA	Solid	300_Prep	
MB 885-23193/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-23193/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

Client Sample ID: HA-01@6-7'

Lab Sample ID: 885-22001-1
Matrix: Solid
Date Collected: 03/24/25 11:00
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8015M/D		1	23303	JP	EET ALB	03/28/25 16:38
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8021B		1	23236	AT	EET ALB	03/27/25 20:08
Total/NA	Prep	SHAKE			23155	MI	EET ALB	03/27/25 07:45
Total/NA	Analysis	8015M/D		1	23150	EM	EET ALB	03/27/25 12:20
Total/NA	Prep	300_Prep			23193	DL	EET ALB	03/27/25 12:09
Total/NA	Analysis	300.0		20	23156	ES	EET ALB	03/27/25 15:00

Client Sample ID: HA-01@7-8'

Lab Sample ID: 885-22001-2
Matrix: Solid
Date Collected: 03/24/25 11:10
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8015M/D		1	23303	JP	EET ALB	03/28/25 17:01
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8021B		1	23236	AT	EET ALB	03/27/25 21:14
Total/NA	Prep	SHAKE			23155	MI	EET ALB	03/27/25 07:45
Total/NA	Analysis	8015M/D		1	23150	EM	EET ALB	03/27/25 12:55
Total/NA	Prep	300_Prep			23193	DL	EET ALB	03/27/25 12:09
Total/NA	Analysis	300.0		20	23156	ES	EET ALB	03/27/25 15:41

Client Sample ID: HA-02@2-3'

Lab Sample ID: 885-22001-3
Matrix: Solid
Date Collected: 03/24/25 11:20
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8015M/D		1	23303	JP	EET ALB	03/28/25 17:25
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8021B		1	23236	AT	EET ALB	03/27/25 21:35
Total/NA	Prep	SHAKE			23155	MI	EET ALB	03/27/25 07:45
Total/NA	Analysis	8015M/D		1	23150	EM	EET ALB	03/27/25 13:07
Total/NA	Prep	300_Prep			23193	DL	EET ALB	03/27/25 12:09
Total/NA	Analysis	300.0		20	23156	ES	EET ALB	03/27/25 15:55

Client Sample ID: HA-02@7-8'

Lab Sample ID: 885-22001-4
Matrix: Solid
Date Collected: 03/24/25 11:30
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8015M/D		1	23303	JP	EET ALB	03/28/25 17:49

Lab Chronicle

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

Client Sample ID: HA-02@7-8'

Lab Sample ID: 885-22001-4

Date Collected: 03/24/25 11:30
Matrix: Solid
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8021B		1	23236	AT	EET ALB	03/27/25 21:57
Total/NA	Prep	SHAKE			23155	MI	EET ALB	03/27/25 07:45
Total/NA	Analysis	8015M/D		1	23150	EM	EET ALB	03/27/25 13:19
Total/NA	Prep	300_Prep			23193	DL	EET ALB	03/27/25 12:09
Total/NA	Analysis	300.0		20	23156	ES	EET ALB	03/27/25 16:08

Client Sample ID: HA-03@4-5'

Lab Sample ID: 885-22001-5

Date Collected: 03/24/25 11:40
Matrix: Solid
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8015M/D		1	23303	JP	EET ALB	03/28/25 18:13
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8021B		1	23236	AT	EET ALB	03/27/25 22:19
Total/NA	Prep	SHAKE			23155	MI	EET ALB	03/27/25 07:45
Total/NA	Analysis	8015M/D		1	23150	EM	EET ALB	03/27/25 13:30
Total/NA	Prep	300_Prep			23193	DL	EET ALB	03/27/25 12:09
Total/NA	Analysis	300.0		20	23156	ES	EET ALB	03/27/25 16:22

Client Sample ID: HA-03@7-8'

Lab Sample ID: 885-22001-6

Date Collected: 03/24/25 11:50
Matrix: Solid
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8015M/D		1	23303	JP	EET ALB	03/28/25 18:36
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8021B		1	23236	AT	EET ALB	03/27/25 22:41
Total/NA	Prep	SHAKE			23155	MI	EET ALB	03/27/25 07:45
Total/NA	Analysis	8015M/D		1	23150	EM	EET ALB	03/27/25 13:42
Total/NA	Prep	300_Prep			23193	DL	EET ALB	03/27/25 12:09
Total/NA	Analysis	300.0		20	23156	ES	EET ALB	03/27/25 16:36

Client Sample ID: HA-04@0-1'

Lab Sample ID: 885-22001-7

Date Collected: 03/24/25 12:00
Matrix: Solid
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8015M/D		1	23303	JP	EET ALB	03/28/25 19:00
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8021B		1	23236	AT	EET ALB	03/27/25 23:03

Lab Chronicle

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

Client Sample ID: HA-04@0-1'

Lab Sample ID: 885-22001-7
Matrix: Solid
Date Collected: 03/24/25 12:00
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			23155	MI	EET ALB	03/27/25 07:45
Total/NA	Analysis	8015M/D		1	23150	EM	EET ALB	03/27/25 14:06
Total/NA	Prep	300_Prep			23193	DL	EET ALB	03/27/25 12:09
Total/NA	Analysis	300.0		20	23156	ES	EET ALB	03/27/25 17:17

Client Sample ID: HA-04@7-8'

Lab Sample ID: 885-22001-8
Matrix: Solid
Date Collected: 03/24/25 12:10
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8015M/D		1	23303	JP	EET ALB	03/28/25 19:24
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8021B		1	23236	AT	EET ALB	03/27/25 23:24
Total/NA	Prep	SHAKE			23155	MI	EET ALB	03/27/25 07:45
Total/NA	Analysis	8015M/D		1	23150	EM	EET ALB	03/27/25 14:17
Total/NA	Prep	300_Prep			23193	DL	EET ALB	03/27/25 12:09
Total/NA	Analysis	300.0		20	23156	ES	EET ALB	03/27/25 17:30

Client Sample ID: HA-05@6-7'

Lab Sample ID: 885-22001-9
Matrix: Solid
Date Collected: 03/24/25 12:20
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8015M/D		1	23303	JP	EET ALB	03/28/25 19:48
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8021B		1	23236	AT	EET ALB	03/27/25 23:46
Total/NA	Prep	SHAKE			23155	MI	EET ALB	03/27/25 07:45
Total/NA	Analysis	8015M/D		1	23150	EM	EET ALB	03/27/25 14:29
Total/NA	Prep	300_Prep			23193	DL	EET ALB	03/27/25 12:09
Total/NA	Analysis	300.0		20	23156	ES	EET ALB	03/27/25 17:44

Client Sample ID: HA-05@7-8'

Lab Sample ID: 885-22001-10
Matrix: Solid
Date Collected: 03/24/25 12:30
Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8015M/D		1	23303	JP	EET ALB	03/28/25 20:11
Total/NA	Prep	5030C			23060	AT	EET ALB	03/25/25 17:15
Total/NA	Analysis	8021B		1	23236	AT	EET ALB	03/28/25 00:29
Total/NA	Prep	SHAKE			23155	MI	EET ALB	03/27/25 07:45
Total/NA	Analysis	8015M/D		1	23150	EM	EET ALB	03/27/25 14:41

Lab Chronicle

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

Client Sample ID: HA-05@7-8'

Lab Sample ID: 885-22001-10

Date Collected: 03/24/25 12:30

Matrix: Solid

Date Received: 03/25/25 07:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			23193	DL	EET ALB	03/27/25 12:09
Total/NA	Analysis	300.0		20	23156	ES	EET ALB	03/27/25 17:58

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: CA McAdams

Job ID: 885-22001-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics (GRO)-C6-C10
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Oregon	NELAP	NM100001	02-26-26

Chain-of-Custody Record

Client: Hilcorp Energy Co.

Mailing Address:

Phone #:

email or Fax#: mkillough@hilcorp.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush 5 day

Project Name: CA McAdams

Project #:

Project Manager: Stuart Hyde

Sampler: Tracy Dembrowski
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp (including CF): 0.2-0=0.2 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-22001 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL 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	(Cl, F, Br, NO_3, NO_2, PO_4, SO_4)	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
3/24/25	11:00	Soil	HA-01 C 6-7'	1-4oz	COOL		X	X					X			
	11:10		HA 01 C 7 8'													
	11:20		HA-02 C 2-3'													
	11:30		HA-02 C 7-8'													
	11:40		HA-03C 4-5'													
	11:50		HA-03C 7-8'													
	12:00		HA-04 C 0-1'													
	12:10		HA-04C 7-8'													
	12:20		HA-05 C 6-7'													
↓	12:30	↓	HA-05C 7-8'	↓	↓		↓	↓					↓			

Date	Time	Relinquished by	Received by:	Via	Date	Time
3/24/25	14.35				3/24/25	1435
3/24/25	1800			courier	3/25/25	7:10

Remarks: CC: shyde@ensolum.com
tdembrowski@ensolum.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.

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-22001-1

Login Number: 22001 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Dominguez, Desiree

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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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 454620

QUESTIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 454620
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2505937309**
Incident Name	**NAPP2505937309 C A MCADAMS C 2E @ 30-045-24664**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-045-24664] C A MCADAMS C #002E**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	C A McAdams C 2E
Date Release Discovered	02/27/2025
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
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	
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.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Tank (Any) | Produced Water | Released: 10 BBL | Recovered: 0 BBL | Lost: 10 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)	On 2/27/2025 at 1:25 pm (MT), an operator pulled up on location during a routine visit to conduct the AVO inspection and gauge the oil storage tank. While conducting the AVO inspection, the operator discovered small pockets of pooled produced water on the witness liner and pit liquids lower than normal. Due to no obvious leaks on the outside of the pit tank, operations believes that a hole (most likely due to corrosion) formed on the bottom of the tank. No fluid could be recovered and was absorbed by the soils underlying the pit tank. No spilled product migrated horizontally outside of secondary containment.

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 454620
	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	*Unavailable.*
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.	

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	*Not answered.*
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: 04/23/2025

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 454620
	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 100 and 200 (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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (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 100 and 200 (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 1 and 5 (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
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.	
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)	130
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	03/24/2025
On what date will (or did) the final sampling or liner inspection occur	03/24/2025
On what date will (or was) the remediation complete(d)	03/24/2025
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 (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 454620
	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: 04/23/2025
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 (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 454620
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
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.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 454620
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**443516**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**03/24/2025**
What was the (estimated) number of samples that were to be gathered	**10**
What was the sampling surface area in square feet	**1000**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
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)	N/A

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: 04/23/2025

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QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	372171
	Action Number: 454620
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 454620
	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".	7/7/2025