Executive Summary – Incident #nAPP2409532196

Hilcorp operations personnel identified a release at the San Juan 30-6 Unit 438 wellsite (API 30-039-24302) on 4/2/2024. During routine site visits, operator identified discovered water had filled and spilled over the top of a below ground tank (BGT) into the cribbing/containment. There was also existing precipitation in the containment. Approximately 10 bbls of produced water was removed via vac truck from the cribbing/containment and hauled offsite for disposal. There was no immediate danger to the public and no fire occurred because of this release.

Samples were collected to delineate the extent of impacts around the tank. Twelve (12) grab samples were collected on April 25, 2024. Analytical results from this sampling event were all below NMOCD action criteria noted in NMAC 19.15.29 Table 1. Sample results are included at the end of this summary report. No additional remediation activities were conducted.

As part of this closure request, Hilcorp would like to request a variance from the requirement to collect a 5-point composite sample cited in NMAC 19.15.29.12.D(1). Hilcorp believes grab samples collected at the surface, one foot and two feet below ground surface are adequately representative of the release area.

Scaled Site Map

Lat: 36.82866
Long: -107.41058

San Juan 30-6 #438 Wellsite
API: 30-039-24302

N

Release Area

Depth to groundwater determination.

BGT Siting Criteria for San Juan 30-6 #438; **estimated depth to groundwater is approximately 73'.**

Burlington Resources Oil & Gas Company, LP
BGT Modification

Burlington is requesting to modify the below-grade tank permit for SAN JUAN 30-6 UNIT 438.

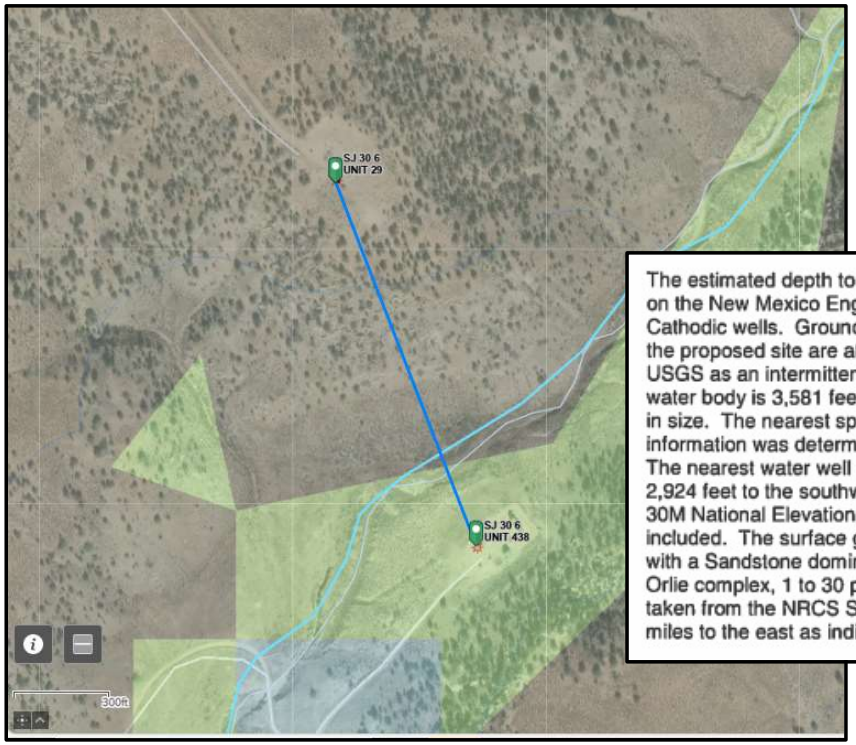
The below-grade tank was registered on 9/30/2004 as an existing below-grade tank with siting criteria provided. Burlington would like to modify the permit with latitude/longitude of the existing below-grade tank as well as the Design, Maintenance & Operating and Closure Plan.

The groundwater at the site was previously ranked for this site as:

____ < 50'
__X__ 50' - 100'
____ > 100'

Topo and Aerial Maps are attached for verification.

San Juan 30-6 # 29 has a depth to groundwater of 223'. This well is approximately 0.25 miles north of and 150' higher elevation than the San Juan 30-6 #438.



The estimated depth to ground water at this point is 223 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' Cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 767 feet to the southeast and is classified by the USGS as an intermittent stream. The nearest perrenial stream is 2,954 feet to the southwest. The nearest water body is 3,581 feet to the southwest. It is classified by the USGS as a perennial lake and is 0.2 acres in size. The nearest spring is 41,678 feet to the southwest. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 3,890 feet to the northwest. The nearest wetland is a 9.5 acre Riverine located 2,924 feet to the southwest. The slope at this location is 5 degrees to the east as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is SAN JOSE FORMATION--Siltstone, shale, and sandstone with a Sandstone dominated formations of all ages substrate. The soil at this location is 'Vessilla-Menefee-Orlie complex, 1 to 30 percent slopes' and is well drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 4.3 miles to the east as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Determination of water sources and significant watercourses within ½ mile of the lateral extent of the release

Note 1: Release point is not within 300 ft of a continuously flowing watercourse or other significant water course.

Note 2: The lateral extents of the release point are not shown to be within 300 feet of a mapped wetland.

Distance to mapped water wells: mapped water wells are approximately 1.3 miles from the San Juan 30-6 #438.

Note: The lateral extents of the release point are not shown to be within 500 ft of a spring or domestic freshwater well used by less than 5 households (or stock watering) or within 1,000 ft of any freshwater water well or spring.

Data table of soil contaminant concentrations

Sample Name	Sample Date	San Juan 30-6 Unit 438 Laboratory Results										
		Chloride (mg/kg)	TPH as DRO (mg/kg)	TPH as GRO (mg/kg)	TPH as MRO (mg/kg)	Total TPH (mg/kg)	TPH as GRO + DRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylene (mg/kg)	Total BTEX (mg/kg)
19.15.29 Table 1 Closure Criteria		**10,000**	-	-	-	**2,500**	**1,000**	**10**	-	-	-	**50**
S-1 0-6"	4/25/2024	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
S-1 1'	4/25/2024	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
S-1 2'	4/25/2024	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
S-2 0-6"	4/25/2024	140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
S-2 1'	4/25/2024	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
S-2 2'	4/25/2024	130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
S-3 0-6"	4/25/2024	29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
S-3 1'	4/25/2024	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
S-3 2'	4/25/2024	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
S-4 0-6"	4/25/2024	640	9	ND	97	106	9	ND	ND	ND	ND	ND
S-4 1'	4/25/2024	210	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
S-4 2'	4/25/2024	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

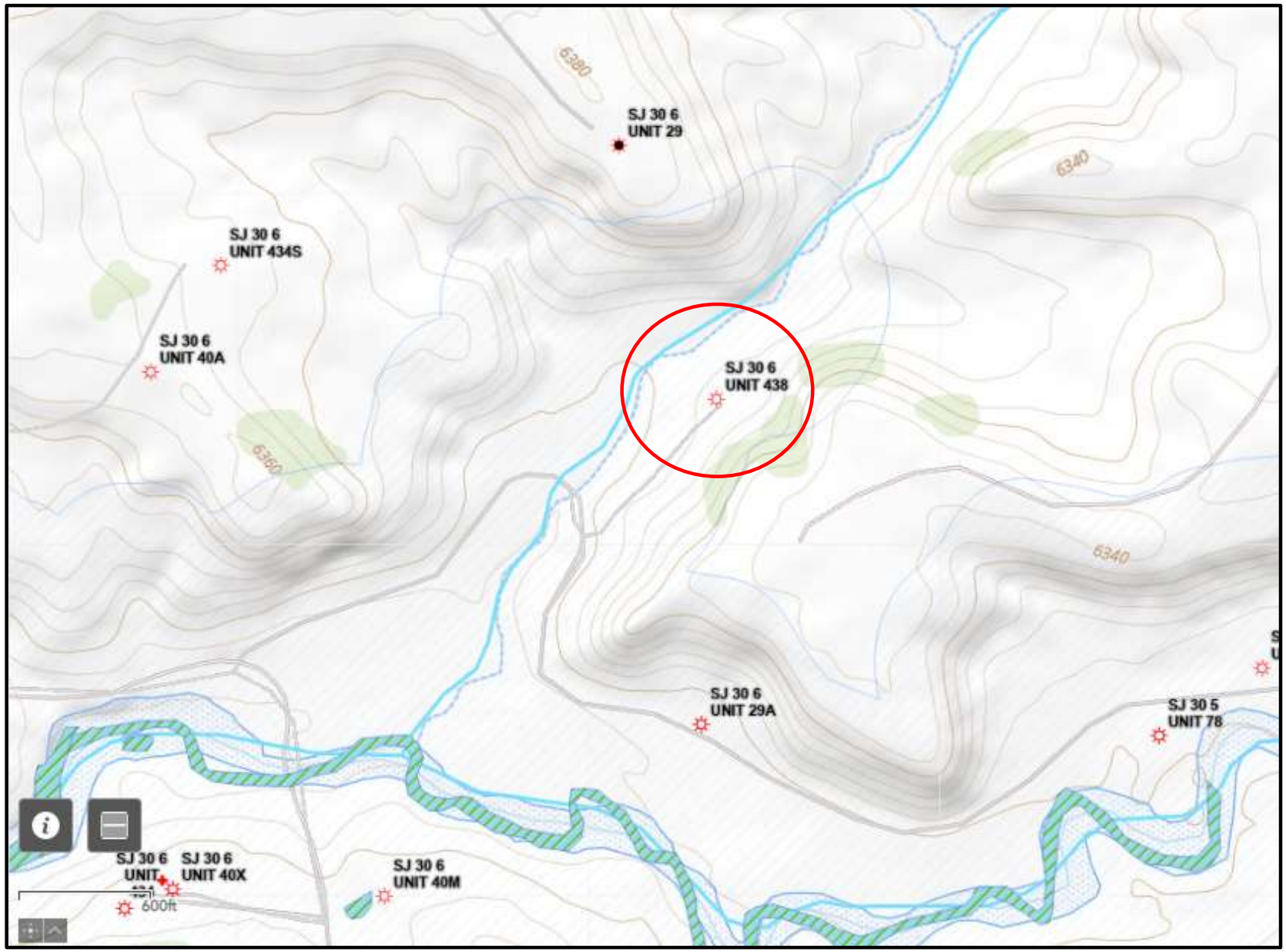
Confirmation samples were collected on 4/25/2024 by Hilcorp personnel. All sample results were below Table 1 Closure Criteria.

San Juan 30-6 #438 Field Sample Diagram

Site Photos

Site Photos

Topographic Map



N

Analytical Data.

See attached Lab Reports.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Samantha Grabert
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499

Generated 5/6/2024 11:39:33 AM

JOB DESCRIPTION

SJ 30-6 Unit 438

JOB NUMBER

885-3545-1

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

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5/6/2024 11:39:33 AM

Authorized for release by
Andy Freeman, Business Unit Manager
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(505)345-3975

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Laboratory Job ID: 885-3545-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Job ID: 885-3545-1
Project/Site: SJ 30-6 Unit 438

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: SJ 30-6 Unit 438

Job ID: 885-3545-1

Job ID: 885-3545-1 Eurofins Albuquerque

Job Narrative
885-3545-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 4/27/2024 6:25 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 1.0°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: SJ 30-6 Unit 438

Job ID: 885-3545-1

Client Sample ID: S-1 0-6'
Date Collected: 04/25/24 10:30
Date Received: 04/27/24 06:25

Lab Sample ID: 885-3545-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		04/29/24 13:26	04/30/24 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 244*	*04/29/24 13:26*	*04/30/24 15:02*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/29/24 13:26	04/30/24 15:02	1
Ethylbenzene	ND		0.049		mg/Kg		04/29/24 13:26	04/30/24 15:02	1
Toluene	ND		0.049		mg/Kg		04/29/24 13:26	04/30/24 15:02	1
Xylenes, Total	ND		0.099		mg/Kg		04/29/24 13:26	04/30/24 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*04/29/24 13:26*	*04/30/24 15:02*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		05/01/24 14:11	05/02/24 09:32	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/01/24 14:11	05/02/24 09:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*05/01/24 14:11*	*05/02/24 09:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16**		5.0		mg/Kg			05/05/24 03:46	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

Client Sample ID: S-1 1'

Date Collected: 04/25/24 10:40
Date Received: 04/27/24 06:25

Lab Sample ID: 885-3545-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		04/29/24 13:26	04/30/24 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*15 - 244*	*04/29/24 13:26*	*04/30/24 16:08*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/29/24 13:26	04/30/24 16:08	1
Ethylbenzene	ND		0.047		mg/Kg		04/29/24 13:26	04/30/24 16:08	1
Toluene	ND		0.047		mg/Kg		04/29/24 13:26	04/30/24 16:08	1
Xylenes, Total	ND		0.094		mg/Kg		04/29/24 13:26	04/30/24 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*04/29/24 13:26*	*04/30/24 16:08*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.7		mg/Kg		05/01/24 14:11	05/02/24 10:09	1
Motor Oil Range Organics [C28-C40]	ND		43		mg/Kg		05/01/24 14:11	05/02/24 10:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*05/01/24 14:11*	*05/02/24 10:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13**		5.0		mg/Kg			05/05/24 04:05	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

Client Sample ID: S-1 2'

Date Collected: 04/25/24 10:50
Date Received: 04/27/24 06:25

Lab Sample ID: 885-3545-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		04/29/24 13:26	04/30/24 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 244*	*04/29/24 13:26*	*04/30/24 17:13*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/29/24 13:26	04/30/24 17:13	1
Ethylbenzene	ND		0.048		mg/Kg		04/29/24 13:26	04/30/24 17:13	1
Toluene	ND		0.048		mg/Kg		04/29/24 13:26	04/30/24 17:13	1
Xylenes, Total	ND		0.096		mg/Kg		04/29/24 13:26	04/30/24 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*04/29/24 13:26*	*04/30/24 17:13*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		05/01/24 14:11	05/02/24 10:21	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/01/24 14:11	05/02/24 10:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*05/01/24 14:11*	*05/02/24 10:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23**		5.0		mg/Kg			05/05/24 04:11	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

Client Sample ID: S-2 0-6'

Date Collected: 04/25/24 11:00
Date Received: 04/27/24 06:25

Lab Sample ID: 885-3545-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		04/29/24 13:26	04/30/24 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 244*	*04/29/24 13:26*	*04/30/24 17:35*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/29/24 13:26	04/30/24 17:35	1
Ethylbenzene	ND		0.049		mg/Kg		04/29/24 13:26	04/30/24 17:35	1
Toluene	ND		0.049		mg/Kg		04/29/24 13:26	04/30/24 17:35	1
Xylenes, Total	ND		0.098		mg/Kg		04/29/24 13:26	04/30/24 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*04/29/24 13:26*	*04/30/24 17:35*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.3		mg/Kg		05/01/24 14:11	05/02/24 10:34	1
Motor Oil Range Organics [C28-C40]	ND		41		mg/Kg		05/01/24 14:11	05/02/24 10:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*05/01/24 14:11*	*05/02/24 10:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		5.0		mg/Kg			05/05/24 04:17	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

Client Sample ID: S-2 1'

Date Collected: 04/25/24 11:10
Date Received: 04/27/24 06:25

Lab Sample ID: 885-3545-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		04/29/24 13:26	04/30/24 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*15 - 244*	*04/29/24 13:26*	*04/30/24 17:56*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/29/24 13:26	04/30/24 17:56	1
Ethylbenzene	ND		0.049		mg/Kg		04/29/24 13:26	04/30/24 17:56	1
Toluene	ND		0.049		mg/Kg		04/29/24 13:26	04/30/24 17:56	1
Xylenes, Total	ND		0.098		mg/Kg		04/29/24 13:26	04/30/24 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*04/29/24 13:26*	*04/30/24 17:56*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.1		mg/Kg		05/01/24 14:11	05/02/24 10:46	1
Motor Oil Range Organics [C28-C40]	ND		41		mg/Kg		05/01/24 14:11	05/02/24 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*05/01/24 14:11*	*05/02/24 10:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		5.0		mg/Kg			05/05/24 04:24	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

Client Sample ID: S-2 2'

Date Collected: 04/25/24 11:20
Date Received: 04/27/24 06:25

Lab Sample ID: 885-3545-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		04/29/24 13:26	04/30/24 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 244*	*04/29/24 13:26*	*04/30/24 18:18*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/29/24 13:26	04/30/24 18:18	1
Ethylbenzene	ND		0.050		mg/Kg		04/29/24 13:26	04/30/24 18:18	1
Toluene	ND		0.050		mg/Kg		04/29/24 13:26	04/30/24 18:18	1
Xylenes, Total	ND		0.10		mg/Kg		04/29/24 13:26	04/30/24 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*04/29/24 13:26*	*04/30/24 18:18*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.3		mg/Kg		05/01/24 14:11	05/02/24 10:58	1
Motor Oil Range Organics [C28-C40]	ND		42		mg/Kg		05/01/24 14:11	05/02/24 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*05/01/24 14:11*	*05/02/24 10:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		5.0		mg/Kg			05/05/24 04:30	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

Client Sample ID: S-3 0-6'

Date Collected: 04/25/24 11:30
Date Received: 04/27/24 06:25

Lab Sample ID: 885-3545-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		04/29/24 13:26	04/30/24 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*15 - 244*	*04/29/24 13:26*	*04/30/24 18:40*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/29/24 13:26	04/30/24 18:40	1
Ethylbenzene	ND		0.050		mg/Kg		04/29/24 13:26	04/30/24 18:40	1
Toluene	ND		0.050		mg/Kg		04/29/24 13:26	04/30/24 18:40	1
Xylenes, Total	ND		0.099		mg/Kg		04/29/24 13:26	04/30/24 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*04/29/24 13:26*	*04/30/24 18:40*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		05/01/24 14:11	05/02/24 11:10	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		05/01/24 14:11	05/02/24 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*05/01/24 14:11*	*05/02/24 11:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29**		5.0		mg/Kg			05/05/24 04:36	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

Client Sample ID: S-3 1'

Date Collected: 04/25/24 11:40
Date Received: 04/27/24 06:25

Lab Sample ID: 885-3545-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6		mg/Kg		04/29/24 13:26	04/30/24 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 244*	*04/29/24 13:26*	*04/30/24 19:01*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		04/29/24 13:26	04/30/24 19:01	1
Ethylbenzene	ND		0.046		mg/Kg		04/29/24 13:26	04/30/24 19:01	1
Toluene	ND		0.046		mg/Kg		04/29/24 13:26	04/30/24 19:01	1
Xylenes, Total	ND		0.092		mg/Kg		04/29/24 13:26	04/30/24 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*04/29/24 13:26*	*04/30/24 19:01*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		05/01/24 14:11	05/02/24 11:22	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		05/01/24 14:11	05/02/24 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*	*05/01/24 14:11*	*05/02/24 11:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30**		5.0		mg/Kg			05/05/24 04:55	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

Client Sample ID: S-3 2'

Date Collected: 04/25/24 11:50
Date Received: 04/27/24 06:25

Lab Sample ID: 885-3545-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		04/29/24 13:26	04/30/24 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*15 - 244*	*04/29/24 13:26*	*04/30/24 19:23*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/29/24 13:26	04/30/24 19:23	1
Ethylbenzene	ND		0.050		mg/Kg		04/29/24 13:26	04/30/24 19:23	1
Toluene	ND		0.050		mg/Kg		04/29/24 13:26	04/30/24 19:23	1
Xylenes, Total	ND		0.10		mg/Kg		04/29/24 13:26	04/30/24 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*04/29/24 13:26*	*04/30/24 19:23*	*1*

Method: SW846 8015D - 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		05/01/24 14:11	05/02/24 11:35	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		05/01/24 14:11	05/02/24 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*05/01/24 14:11*	*05/02/24 11:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10**		5.0		mg/Kg			05/05/24 05:01	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

Client Sample ID: S-4 0-6'

Date Collected: 04/25/24 12:00
Date Received: 04/27/24 06:25

Lab Sample ID: 885-3545-10

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		04/29/24 13:29	04/30/24 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*15 - 244*	*04/29/24 13:29*	*04/30/24 19:45*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/29/24 13:29	04/30/24 19:45	1
Ethylbenzene	ND		0.048		mg/Kg		04/29/24 13:29	04/30/24 19:45	1
Toluene	ND		0.048		mg/Kg		04/29/24 13:29	04/30/24 19:45	1
Xylenes, Total	ND		0.096		mg/Kg		04/29/24 13:29	04/30/24 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*04/29/24 13:29*	*04/30/24 19:45*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**9.2**		9.1		mg/Kg		05/01/24 14:11	05/02/24 11:47	1
Motor Oil Range Organics [C28-C40]	**97**		46		mg/Kg		05/01/24 14:11	05/02/24 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*05/01/24 14:11*	*05/02/24 11:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**640**		5.1		mg/Kg			05/05/24 05:20	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

Client Sample ID: S-4 1'

Date Collected: 04/25/24 12:10
Date Received: 04/27/24 06:25

Lab Sample ID: 885-3545-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		04/29/24 13:29	04/30/24 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*15 - 244*	*04/29/24 13:29*	*04/30/24 20:28*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		04/29/24 13:29	04/30/24 20:28	1
Ethylbenzene	ND		0.048		mg/Kg		04/29/24 13:29	04/30/24 20:28	1
Toluene	ND		0.048		mg/Kg		04/29/24 13:29	04/30/24 20:28	1
Xylenes, Total	ND		0.097		mg/Kg		04/29/24 13:29	04/30/24 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*04/29/24 13:29*	*04/30/24 20:28*	*1*

Method: SW846 8015D - 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		05/01/24 14:11	05/02/24 11:59	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		05/01/24 14:11	05/02/24 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*05/01/24 14:11*	*05/02/24 11:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		5.1		mg/Kg			05/05/24 05:27	1

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

Client Sample ID: S-4 2'

Date Collected: 04/25/24 12:20
Date Received: 04/27/24 06:25

Lab Sample ID: 885-3545-12

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		04/29/24 13:29	04/30/24 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*15 - 244*	*04/29/24 13:29*	*04/30/24 20:50*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		04/29/24 13:29	04/30/24 20:50	1
Ethylbenzene	ND		0.047		mg/Kg		04/29/24 13:29	04/30/24 20:50	1
Toluene	ND		0.047		mg/Kg		04/29/24 13:29	04/30/24 20:50	1
Xylenes, Total	ND		0.093		mg/Kg		04/29/24 13:29	04/30/24 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*04/29/24 13:29*	*04/30/24 20:50*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		05/01/24 14:11	05/02/24 12:12	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		05/01/24 14:11	05/02/24 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*05/01/24 14:11*	*05/02/24 12:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53**		5.1		mg/Kg			05/05/24 05:33	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

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

Lab Sample ID: MB 885-4053/1-A
Matrix: Solid
Analysis Batch: 4241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4053

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		04/29/24 13:26	04/30/24 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*15 - 244*	*04/29/24 13:26*	*04/30/24 14:41*	*1*

Lab Sample ID: LCS 885-4053/3-A
Matrix: Solid
Analysis Batch: 4241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4053

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	27.4		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*223*		*15 - 244*

Lab Sample ID: 885-3545-1 MS
Matrix: Solid
Analysis Batch: 4241

Client Sample ID: S-1 0-6'
Prep Type: Total/NA
Prep Batch: 4053

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		24.6	27.5		mg/Kg		112	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*230*		*15 - 244*

Lab Sample ID: 885-3545-1 MSD
Matrix: Solid
Analysis Batch: 4241

Client Sample ID: S-1 0-6'
Prep Type: Total/NA
Prep Batch: 4053

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		24.6	27.4		mg/Kg		112	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*228*		*15 - 244*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-4053/1-A
Matrix: Solid
Analysis Batch: 4242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4053

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		04/29/24 13:26	04/30/24 14:41	1
Ethylbenzene	ND		0.050		mg/Kg		04/29/24 13:26	04/30/24 14:41	1
Toluene	ND		0.050		mg/Kg		04/29/24 13:26	04/30/24 14:41	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

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

Lab Sample ID: MB 885-4053/1-A
Matrix: Solid
Analysis Batch: 4242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4053

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		04/29/24 13:26	04/30/24 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)				*04/29/24 13:26*	*04/30/24 14:41*	*1*

Lab Sample ID: LCS 885-4053/4-A
Matrix: Solid
Analysis Batch: 4242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4053

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.957		mg/Kg		96	70 - 130		
Ethylbenzene			1.00	0.954		mg/Kg		95	70 - 130		
m&p-Xylene			2.00	1.91		mg/Kg		95	70 - 130		
o-Xylene			1.00	0.958		mg/Kg		96	70 - 130		
Toluene			1.00	0.947		mg/Kg		95	70 - 130		
Xylenes, Total			3.00	2.87		mg/Kg		96	70 - 130		

Lab Sample ID: 885-3545-2 MS
Matrix: Solid
Analysis Batch: 4242

Client Sample ID: S-1 1'
Prep Type: Total/NA
Prep Batch: 4053

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.944	0.942		mg/Kg		100	70 - 130		
Ethylbenzene	ND		0.944	0.962		mg/Kg		102	70 - 130		
m&p-Xylene	ND		1.89	1.93		mg/Kg		102	70 - 130		
o-Xylene	ND		0.944	0.956		mg/Kg		101	70 - 130		
Toluene	ND		0.944	0.949		mg/Kg		101	70 - 130		
Xylenes, Total	ND		2.83	2.88		mg/Kg		102	70 - 130		

Lab Sample ID: 885-3545-2 MSD
Matrix: Solid
Analysis Batch: 4242

Client Sample ID: S-1 1'
Prep Type: Total/NA
Prep Batch: 4053

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.936	0.904		mg/Kg		96	70 - 130	4	20
Ethylbenzene	ND		0.936	0.926		mg/Kg		99	70 - 130	4	20
m&p-Xylene	ND		1.87	1.85		mg/Kg		99	70 - 130	4	20
o-Xylene	ND		0.936	0.921		mg/Kg		98	70 - 130	4	20
Toluene	ND		0.936	0.912		mg/Kg		97	70 - 130	4	20
Xylenes, Total	ND		2.81	2.77		mg/Kg		99	70 - 130	4	20

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

Lab Sample ID: MB 885-4205/1-A
Matrix: Solid
Analysis Batch: 4310

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4205

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		05/01/24 14:11	05/02/24 09:08	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

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

Lab Sample ID: MB 885-4205/1-A
Matrix: Solid
Analysis Batch: 4310

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4205

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		05/01/24 14:11	05/02/24 09:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*	*05/01/24 14:11*	*05/02/24 09:08*	*1*

Lab Sample ID: LCS 885-4205/2-A
Matrix: Solid
Analysis Batch: 4310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4205

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	46.1		mg/Kg		92	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*

Lab Sample ID: 885-3545-1 MS
Matrix: Solid
Analysis Batch: 4310

Client Sample ID: S-1 0-6'
Prep Type: Total/NA
Prep Batch: 4205

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		49.2	42.7		mg/Kg		87	44 - 136		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*

Lab Sample ID: 885-3545-1 MSD
Matrix: Solid
Analysis Batch: 4310

Client Sample ID: S-1 0-6'
Prep Type: Total/NA
Prep Batch: 4205

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		47.2	42.4		mg/Kg		90	44 - 136	1	32

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-79937/1-A
Matrix: Solid
Analysis Batch: 79956

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0		mg/Kg			05/05/24 02:49	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-79937/2-A
Matrix: Solid
Analysis Batch: 79956

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	239		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-79937/3-A
Matrix: Solid
Analysis Batch: 79956

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	238		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 885-3545-7 MS
Matrix: Solid
Analysis Batch: 79956

Client Sample ID: S-3 0-6'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	29		249	275		mg/Kg		99	90 - 110		

Lab Sample ID: 885-3545-7 MSD
Matrix: Solid
Analysis Batch: 79956

Client Sample ID: S-3 0-6'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	29		249	275		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

GC VOA

Prep Batch: 4053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3545-1	S-1 0-6'	Total/NA	Solid	5030C	
885-3545-2	S-1 1'	Total/NA	Solid	5030C	
885-3545-3	S-1 2'	Total/NA	Solid	5030C	
885-3545-4	S-2 0-6'	Total/NA	Solid	5030C	
885-3545-5	S-2 1'	Total/NA	Solid	5030C	
885-3545-6	S-2 2'	Total/NA	Solid	5030C	
885-3545-7	S-3 0-6'	Total/NA	Solid	5030C	
885-3545-8	S-3 1'	Total/NA	Solid	5030C	
885-3545-9	S-3 2'	Total/NA	Solid	5030C	
885-3545-10	S-4 0-6'	Total/NA	Solid	5030C	
885-3545-11	S-4 1'	Total/NA	Solid	5030C	
885-3545-12	S-4 2'	Total/NA	Solid	5030C	
MB 885-4053/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-4053/3-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-4053/4-A	Lab Control Sample	Total/NA	Solid	5030C	
885-3545-1 MS	S-1 0-6'	Total/NA	Solid	5030C	
885-3545-1 MSD	S-1 0-6'	Total/NA	Solid	5030C	
885-3545-2 MS	S-1 1'	Total/NA	Solid	5030C	
885-3545-2 MSD	S-1 1'	Total/NA	Solid	5030C	

Analysis Batch: 4241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3545-1	S-1 0-6'	Total/NA	Solid	8015D	4053
885-3545-2	S-1 1'	Total/NA	Solid	8015D	4053
885-3545-3	S-1 2'	Total/NA	Solid	8015D	4053
885-3545-4	S-2 0-6'	Total/NA	Solid	8015D	4053
885-3545-5	S-2 1'	Total/NA	Solid	8015D	4053
885-3545-6	S-2 2'	Total/NA	Solid	8015D	4053
885-3545-7	S-3 0-6'	Total/NA	Solid	8015D	4053
885-3545-8	S-3 1'	Total/NA	Solid	8015D	4053
885-3545-9	S-3 2'	Total/NA	Solid	8015D	4053
885-3545-10	S-4 0-6'	Total/NA	Solid	8015D	4053
885-3545-11	S-4 1'	Total/NA	Solid	8015D	4053
885-3545-12	S-4 2'	Total/NA	Solid	8015D	4053
MB 885-4053/1-A	Method Blank	Total/NA	Solid	8015D	4053
LCS 885-4053/3-A	Lab Control Sample	Total/NA	Solid	8015D	4053
885-3545-1 MS	S-1 0-6'	Total/NA	Solid	8015D	4053
885-3545-1 MSD	S-1 0-6'	Total/NA	Solid	8015D	4053

Analysis Batch: 4242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3545-1	S-1 0-6'	Total/NA	Solid	8021B	4053
885-3545-2	S-1 1'	Total/NA	Solid	8021B	4053
885-3545-3	S-1 2'	Total/NA	Solid	8021B	4053
885-3545-4	S-2 0-6'	Total/NA	Solid	8021B	4053
885-3545-5	S-2 1'	Total/NA	Solid	8021B	4053
885-3545-6	S-2 2'	Total/NA	Solid	8021B	4053
885-3545-7	S-3 0-6'	Total/NA	Solid	8021B	4053
885-3545-8	S-3 1'	Total/NA	Solid	8021B	4053
885-3545-9	S-3 2'	Total/NA	Solid	8021B	4053
885-3545-10	S-4 0-6'	Total/NA	Solid	8021B	4053

QC Association Summary

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

GC VOA (Continued)

Analysis Batch: 4242 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3545-11	S-4 1'	Total/NA	Solid	8021B	4053
885-3545-12	S-4 2'	Total/NA	Solid	8021B	4053
MB 885-4053/1-A	Method Blank	Total/NA	Solid	8021B	4053
LCS 885-4053/4-A	Lab Control Sample	Total/NA	Solid	8021B	4053
885-3545-2 MS	S-1 1'	Total/NA	Solid	8021B	4053
885-3545-2 MSD	S-1 1'	Total/NA	Solid	8021B	4053

GC Semi VOA

Prep Batch: 4205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3545-1	S-1 0-6'	Total/NA	Solid	SHAKE	
885-3545-2	S-1 1'	Total/NA	Solid	SHAKE	
885-3545-3	S-1 2'	Total/NA	Solid	SHAKE	
885-3545-4	S-2 0-6'	Total/NA	Solid	SHAKE	
885-3545-5	S-2 1'	Total/NA	Solid	SHAKE	
885-3545-6	S-2 2'	Total/NA	Solid	SHAKE	
885-3545-7	S-3 0-6'	Total/NA	Solid	SHAKE	
885-3545-8	S-3 1'	Total/NA	Solid	SHAKE	
885-3545-9	S-3 2'	Total/NA	Solid	SHAKE	
885-3545-10	S-4 0-6'	Total/NA	Solid	SHAKE	
885-3545-11	S-4 1'	Total/NA	Solid	SHAKE	
885-3545-12	S-4 2'	Total/NA	Solid	SHAKE	
MB 885-4205/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-4205/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-3545-1 MS	S-1 0-6'	Total/NA	Solid	SHAKE	
885-3545-1 MSD	S-1 0-6'	Total/NA	Solid	SHAKE	

Analysis Batch: 4310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3545-1	S-1 0-6'	Total/NA	Solid	8015D	4205
885-3545-2	S-1 1'	Total/NA	Solid	8015D	4205
885-3545-3	S-1 2'	Total/NA	Solid	8015D	4205
885-3545-4	S-2 0-6'	Total/NA	Solid	8015D	4205
885-3545-5	S-2 1'	Total/NA	Solid	8015D	4205
885-3545-6	S-2 2'	Total/NA	Solid	8015D	4205
885-3545-7	S-3 0-6'	Total/NA	Solid	8015D	4205
885-3545-8	S-3 1'	Total/NA	Solid	8015D	4205
885-3545-9	S-3 2'	Total/NA	Solid	8015D	4205
885-3545-10	S-4 0-6'	Total/NA	Solid	8015D	4205
885-3545-11	S-4 1'	Total/NA	Solid	8015D	4205
885-3545-12	S-4 2'	Total/NA	Solid	8015D	4205
MB 885-4205/1-A	Method Blank	Total/NA	Solid	8015D	4205
LCS 885-4205/2-A	Lab Control Sample	Total/NA	Solid	8015D	4205
885-3545-1 MS	S-1 0-6'	Total/NA	Solid	8015D	4205
885-3545-1 MSD	S-1 0-6'	Total/NA	Solid	8015D	4205

HPLC/IC

Leach Batch: 79937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3545-1	S-1 0-6'	Soluble	Solid	DI Leach	

QC Association Summary

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

HPLC/IC (Continued)

Leach Batch: 79937 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3545-2	S-1 1'	Soluble	Solid	DI Leach	
885-3545-3	S-1 2'	Soluble	Solid	DI Leach	
885-3545-4	S-2 0-6'	Soluble	Solid	DI Leach	
885-3545-5	S-2 1'	Soluble	Solid	DI Leach	
885-3545-6	S-2 2'	Soluble	Solid	DI Leach	
885-3545-7	S-3 0-6'	Soluble	Solid	DI Leach	
885-3545-8	S-3 1'	Soluble	Solid	DI Leach	
885-3545-9	S-3 2'	Soluble	Solid	DI Leach	
885-3545-10	S-4 0-6'	Soluble	Solid	DI Leach	
885-3545-11	S-4 1'	Soluble	Solid	DI Leach	
885-3545-12	S-4 2'	Soluble	Solid	DI Leach	
MB 880-79937/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-79937/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-79937/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
885-3545-7 MS	S-3 0-6'	Soluble	Solid	DI Leach	
885-3545-7 MSD	S-3 0-6'	Soluble	Solid	DI Leach	

Analysis Batch: 79956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-3545-1	S-1 0-6'	Soluble	Solid	300.0	79937
885-3545-2	S-1 1'	Soluble	Solid	300.0	79937
885-3545-3	S-1 2'	Soluble	Solid	300.0	79937
885-3545-4	S-2 0-6'	Soluble	Solid	300.0	79937
885-3545-5	S-2 1'	Soluble	Solid	300.0	79937
885-3545-6	S-2 2'	Soluble	Solid	300.0	79937
885-3545-7	S-3 0-6'	Soluble	Solid	300.0	79937
885-3545-8	S-3 1'	Soluble	Solid	300.0	79937
885-3545-9	S-3 2'	Soluble	Solid	300.0	79937
885-3545-10	S-4 0-6'	Soluble	Solid	300.0	79937
885-3545-11	S-4 1'	Soluble	Solid	300.0	79937
885-3545-12	S-4 2'	Soluble	Solid	300.0	79937
MB 880-79937/1-A	Method Blank	Soluble	Solid	300.0	79937
LCS 880-79937/2-A	Lab Control Sample	Soluble	Solid	300.0	79937
LCSD 880-79937/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	79937
885-3545-7 MS	S-3 0-6'	Soluble	Solid	300.0	79937
885-3545-7 MSD	S-3 0-6'	Soluble	Solid	300.0	79937

Lab Chronicle

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

Client Sample ID: S-1 0-6'

Lab Sample ID: 885-3545-1
Matrix: Solid
Date Collected: 04/25/24 10:30
Date Received: 04/27/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:26
Total/NA	Analysis	8015D		1	4241	RA	EET ALB	04/30/24 15:02
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:26
Total/NA	Analysis	8021B		1	4242	RA	EET ALB	04/30/24 15:02
Total/NA	Prep	SHAKE			4205	PD	EET ALB	05/01/24 14:11
Total/NA	Analysis	8015D		1	4310	JU	EET ALB	05/02/24 09:32
Soluble	Leach	DI Leach			79937	SA	EET MID	05/03/24 13:21
Soluble	Analysis	300.0		1	79956	SMC	EET MID	05/05/24 03:46

Client Sample ID: S-1 1'

Lab Sample ID: 885-3545-2
Matrix: Solid
Date Collected: 04/25/24 10:40
Date Received: 04/27/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:26
Total/NA	Analysis	8015D		1	4241	RA	EET ALB	04/30/24 16:08
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:26
Total/NA	Analysis	8021B		1	4242	RA	EET ALB	04/30/24 16:08
Total/NA	Prep	SHAKE			4205	PD	EET ALB	05/01/24 14:11
Total/NA	Analysis	8015D		1	4310	JU	EET ALB	05/02/24 10:09
Soluble	Leach	DI Leach			79937	SA	EET MID	05/03/24 13:21
Soluble	Analysis	300.0		1	79956	SMC	EET MID	05/05/24 04:05

Client Sample ID: S-1 2'

Lab Sample ID: 885-3545-3
Matrix: Solid
Date Collected: 04/25/24 10:50
Date Received: 04/27/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:26
Total/NA	Analysis	8015D		1	4241	RA	EET ALB	04/30/24 17:13
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:26
Total/NA	Analysis	8021B		1	4242	RA	EET ALB	04/30/24 17:13
Total/NA	Prep	SHAKE			4205	PD	EET ALB	05/01/24 14:11
Total/NA	Analysis	8015D		1	4310	JU	EET ALB	05/02/24 10:21
Soluble	Leach	DI Leach			79937	SA	EET MID	05/03/24 13:21
Soluble	Analysis	300.0		1	79956	SMC	EET MID	05/05/24 04:11

Client Sample ID: S-2 0-6'

Lab Sample ID: 885-3545-4
Matrix: Solid
Date Collected: 04/25/24 11:00
Date Received: 04/27/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:26
Total/NA	Analysis	8015D		1	4241	RA	EET ALB	04/30/24 17:35

Lab Chronicle

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

Client Sample ID: S-2 0-6'

Lab Sample ID: 885-3545-4
Matrix: Solid
Date Collected: 04/25/24 11:00
Date Received: 04/27/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:26
Total/NA	Analysis	8021B		1	4242	RA	EET ALB	04/30/24 17:35
Total/NA	Prep	SHAKE			4205	PD	EET ALB	05/01/24 14:11
Total/NA	Analysis	8015D		1	4310	JU	EET ALB	05/02/24 10:34
Soluble	Leach	DI Leach			79937	SA	EET MID	05/03/24 13:21
Soluble	Analysis	300.0		1	79956	SMC	EET MID	05/05/24 04:17

Client Sample ID: S-2 1'

Lab Sample ID: 885-3545-5
Matrix: Solid
Date Collected: 04/25/24 11:10
Date Received: 04/27/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:26
Total/NA	Analysis	8015D		1	4241	RA	EET ALB	04/30/24 17:56
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:26
Total/NA	Analysis	8021B		1	4242	RA	EET ALB	04/30/24 17:56
Total/NA	Prep	SHAKE			4205	PD	EET ALB	05/01/24 14:11
Total/NA	Analysis	8015D		1	4310	JU	EET ALB	05/02/24 10:46
Soluble	Leach	DI Leach			79937	SA	EET MID	05/03/24 13:21
Soluble	Analysis	300.0		1	79956	SMC	EET MID	05/05/24 04:24

Client Sample ID: S-2 2'

Lab Sample ID: 885-3545-6
Matrix: Solid
Date Collected: 04/25/24 11:20
Date Received: 04/27/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:26
Total/NA	Analysis	8015D		1	4241	RA	EET ALB	04/30/24 18:18
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:26
Total/NA	Analysis	8021B		1	4242	RA	EET ALB	04/30/24 18:18
Total/NA	Prep	SHAKE			4205	PD	EET ALB	05/01/24 14:11
Total/NA	Analysis	8015D		1	4310	JU	EET ALB	05/02/24 10:58
Soluble	Leach	DI Leach			79937	SA	EET MID	05/03/24 13:21
Soluble	Analysis	300.0		1	79956	SMC	EET MID	05/05/24 04:30

Client Sample ID: S-3 0-6'

Lab Sample ID: 885-3545-7
Matrix: Solid
Date Collected: 04/25/24 11:30
Date Received: 04/27/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:26
Total/NA	Analysis	8015D		1	4241	RA	EET ALB	04/30/24 18:40
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:26
Total/NA	Analysis	8021B		1	4242	RA	EET ALB	04/30/24 18:40

Lab Chronicle

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

Client Sample ID: S-3 0-6'

Lab Sample ID: 885-3545-7
Matrix: Solid
Date Collected: 04/25/24 11:30
Date Received: 04/27/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			4205	PD	EET ALB	05/01/24 14:11
Total/NA	Analysis	8015D		1	4310	JU	EET ALB	05/02/24 11:10
Soluble	Leach	DI Leach			79937	SA	EET MID	05/03/24 13:21
Soluble	Analysis	300.0		1	79956	SMC	EET MID	05/05/24 04:36

Client Sample ID: S-3 1'

Lab Sample ID: 885-3545-8
Matrix: Solid
Date Collected: 04/25/24 11:40
Date Received: 04/27/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:26
Total/NA	Analysis	8015D		1	4241	RA	EET ALB	04/30/24 19:01
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:26
Total/NA	Analysis	8021B		1	4242	RA	EET ALB	04/30/24 19:01
Total/NA	Prep	SHAKE			4205	PD	EET ALB	05/01/24 14:11
Total/NA	Analysis	8015D		1	4310	JU	EET ALB	05/02/24 11:22
Soluble	Leach	DI Leach			79937	SA	EET MID	05/03/24 13:21
Soluble	Analysis	300.0		1	79956	SMC	EET MID	05/05/24 04:55

Client Sample ID: S-3 2'

Lab Sample ID: 885-3545-9
Matrix: Solid
Date Collected: 04/25/24 11:50
Date Received: 04/27/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:26
Total/NA	Analysis	8015D		1	4241	RA	EET ALB	04/30/24 19:23
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:26
Total/NA	Analysis	8021B		1	4242	RA	EET ALB	04/30/24 19:23
Total/NA	Prep	SHAKE			4205	PD	EET ALB	05/01/24 14:11
Total/NA	Analysis	8015D		1	4310	JU	EET ALB	05/02/24 11:35
Soluble	Leach	DI Leach			79937	SA	EET MID	05/03/24 13:21
Soluble	Analysis	300.0		1	79956	SMC	EET MID	05/05/24 05:01

Client Sample ID: S-4 0-6'

Lab Sample ID: 885-3545-10
Matrix: Solid
Date Collected: 04/25/24 12:00
Date Received: 04/27/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:29
Total/NA	Analysis	8015D		1	4241	RA	EET ALB	04/30/24 19:45
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:29
Total/NA	Analysis	8021B		1	4242	RA	EET ALB	04/30/24 19:45
Total/NA	Prep	SHAKE			4205	PD	EET ALB	05/01/24 14:11
Total/NA	Analysis	8015D		1	4310	JU	EET ALB	05/02/24 11:47

Lab Chronicle

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

Client Sample ID: S-4 0-6'

Lab Sample ID: 885-3545-10
Matrix: Solid
Date Collected: 04/25/24 12:00
Date Received: 04/27/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			79937	SA	EET MID	05/03/24 13:21
Soluble	Analysis	300.0		1	79956	SMC	EET MID	05/05/24 05:20

Client Sample ID: S-4 1'

Lab Sample ID: 885-3545-11
Matrix: Solid
Date Collected: 04/25/24 12:10
Date Received: 04/27/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:29
Total/NA	Analysis	8015D		1	4241	RA	EET ALB	04/30/24 20:28
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:29
Total/NA	Analysis	8021B		1	4242	RA	EET ALB	04/30/24 20:28
Total/NA	Prep	SHAKE			4205	PD	EET ALB	05/01/24 14:11
Total/NA	Analysis	8015D		1	4310	JU	EET ALB	05/02/24 11:59
Soluble	Leach	DI Leach			79937	SA	EET MID	05/03/24 13:21
Soluble	Analysis	300.0		1	79956	SMC	EET MID	05/05/24 05:27

Client Sample ID: S-4 2'

Lab Sample ID: 885-3545-12
Matrix: Solid
Date Collected: 04/25/24 12:20
Date Received: 04/27/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:29
Total/NA	Analysis	8015D		1	4241	RA	EET ALB	04/30/24 20:50
Total/NA	Prep	5030C			4053	JR	EET ALB	04/29/24 13:29
Total/NA	Analysis	8021B		1	4242	RA	EET ALB	04/30/24 20:50
Total/NA	Prep	SHAKE			4205	PD	EET ALB	05/01/24 14:11
Total/NA	Analysis	8015D		1	4310	JU	EET ALB	05/02/24 12:12
Soluble	Leach	DI Leach			79937	SA	EET MID	05/03/24 13:21
Soluble	Analysis	300.0		1	79956	SMC	EET MID	05/05/24 05:33

Laboratory References:

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

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: SJ 30-6 Unit 438

Job ID: 885-3545-1

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	02-26-25

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
8015D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	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	02-26-25

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

Chain-of-Custody Record

Client: Hilcorp

Mailing Address:

Phone #:

email or Fax#: brandon.sinclair@hilcorp.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard (5 day) ☐ Rush

Project Name: SJ 30-6 Unit 438

Project #:

Project Manager: Kate Kaufman

Sampler: Brandon Sinclair

On Ice: ☑ Yes ☐ No

# of Coolers: 1 (409)

Cooler Temp (including CF): 0.9+0.1=1.0 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 8
Tel. 505-345-3975 Fax 505-345-4107

885-3545 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)
4-25	1030	soil	S-1 0-6"	4 oz jar	cool		✓	✓					✓			
	1040		S-1 1'													
	1050		S-1 2'													
	1100		S-2 0-6"													
	1110		S-2 1'													
	1120		S-2 2'													
	1130		S-3 0-6"													
	1140		S-3 1'													
	1150		S-3 2'													
	1200		S-4 0-6"													
	1210		S-4 1'													
	1220		S-4 2'													

Date	Time	Relinquished by	Received by	Via	Date	Time
4/26/24	1641				4/26/24	1641
4/26/24	1736			courier	4/27/24	6:25

Remarks:

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

Chain-of-Custody Record

Client: Hilcorp

Mailing Address:

Phone #:

email or Fax#: brandon.sinclair@hilcorp.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard (5 day) ☐ Rush

Project Name: SJ 30-6 Unit 438

Project #:

Project Manager: Kate Kaufman

Sampler: Brandon Sinclair

On Ice: ☐ Yes ☐ No

# of Coolers: 1 (Yoyo)

Cooler Temp (Including CF): 0.9+0.1=1.0 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 8 885-3545 COC
Tel. 505-345-3975 Fax 505-345-4107

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)
4-25	1030	soil	S-1 0-6"	4 oz jar	cool		✓	✓					✓			
	1040		S-1 1'													
	1050		S-1 2'													
	1100		S-2 0-6"													
	1110		S-2 1'													
	1120		S-2 2'													
	1130		S-3 0-6"													
	1140		S-3 1'													
	1150		S-3 2'													
	1200		S-4 0-6"													
	1210		S-4 1'													
	1220		S-4 2'													

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
4/26/24	1641				4/26/24	1641
4/26/24	1736			courier	4/27/24	6:25

Remarks:

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: 885-3545-1

Login Number: 3545 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Rojas, Juan

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	

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-3545-1

Login Number: 3545 **List Source: Eurofins Midland**
List Number: 2 **List Creation: 05/03/24 11:32 AM**
Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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").	N/A	

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 356280

QUESTIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 356280
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2409532196**
Incident Name	**NAPP2409532196 SAN JUAN 30-6 #438 @ 30-039-24302**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-039-24302] SAN JUAN 30 6 UNIT #438**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	San Juan 30-6 #438
Date Release Discovered	04/02/2024
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: Overflow - Tank, Pit, Etc. | Tank (Any) | Produced Water | Released: 10 BBL | Recovered: 10 BBL | Lost: 0 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 (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 356280
	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: Kate Kaufman Title: Sr Environmental Specialist Email: kkaufman@hilcorp.com Date: 04/16/2024

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 356280
	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 51 and 75 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
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 300 and 500 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 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	Greater than 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 1000 (ft.) and ½ (mi.)
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	Greater than 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)	640
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	106
GRO+DRO (EPA SW-846 Method 8015M)	9
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	04/25/2024
On what date will (or did) the final sampling or liner inspection occur	04/25/2024
On what date will (or was) the remediation complete(d)	04/25/2024
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: 356280
	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	Soil samples collected for site delineation are all below NMOCD closure criteria noted in NMAC 19.15.29 Table 1. No soil remediation is required.
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: Kate Kaufman Title: Sr Environmental Specialist Email: kkaufman@hilcorp.com Date: 06/20/2024

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: 356280
	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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS (continued)

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	Action Number: 356280
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**335389**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**04/25/2024**
What was the (estimated) number of samples that were to be gathered	**8**
What was the sampling surface area in square feet	**350**

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)	Soil samples collected for site delineation are all below NMOCD closure criteria noted in NMAC 19.15.29 Table 1. No soil remediation is required.

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: Kate Kaufman Title: Sr Environmental Specialist Email: kkaufman@hilcorp.com Date: 06/20/2024

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QUESTIONS (continued)

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	Action Number: 356280
	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

Action 356280

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	372171
	Action Number: 356280
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	8/15/2024