

February 11, 2024

NMOCD District 2 1811 S. First St., Artesia, New Mexico 88210

SUBJECT: Remediation Closure Report for the Foster Battery Release (NAPP2333335903), Eddy County, New Mexico

To Whom It May Concern,

On behalf of LH Operating, LLC, Strata Resources (Strata) has prepared this Remediation Closure Report that describes the remediation of a release of produced water and crude oil related to a heater treater fire at the Foster Battery. The site is in Unit J, Section 17, Township 17S, Range 31E, Eddy County, New Mexico, on federal land. Figure 1 illustrates the vicinity and site location on an USGS 7.5-minute quadrangle map.

Table 1 summarizes release information and closure criteria.

Table 1: Release Information and Closure Criteria								
Name	Foster Battery	Company	LH Operating, LLC					
API Number	N/A	Location	32.834553, -103.889804					
Incident Number	NAPP2333335903							
Estimated Date of Release	11/18/2023	Date Reported to NMOCD	11/20/23					
Land-Owner	Federal	Reported To	NMOCD, BLM					
Source of Release	Heater treater fire.							
Released Volume	4 bbls 41 bbls	Released Material	Crude Oil Produced Water					
Recovered Volume	4 bbls 40 bbls	Net Release	1 bbl of Produced Water					
NMOCD Closure Criteria	<50 feet to groundwater							
Strata Response Dates	12/30/2023 - 01/02/2024							



1.0 Background

On November 18, 2023, a release was discovered at the Foster Battery after the heater treater vessel caught fire from a lightning strike. Initial response actions were conducted by the operator and included source elimination by means of repair, site stabilization, and release recovery. The release consisted of 4 barrels of crude oil and 41 barrels of produced water. Subsequently, 4 barrels of crude oil and 40 barrels of produced water were successfully recovered. Figures 1 and 2 illustrate the vicinity and site location, while Figure 3 illustrates the release location.

2.0 Site Information and Closure Criteria

The Foster Battery is located approximately 5.42 miles northeast of Loco Hills, New Mexico on federally owned land at an elevation of approximately 3720 feet above mean sea level (amsl).

Based upon the New Mexico Office of the State Engineers (NMOSE) online water well database (Appendix A), depth to groundwater in the area is less than 50 feet below grade surface (bgs). There is no known water sources within ½-mile of the location, according to the NMOSE database (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 2/7/2024).

The nearest significant watercourse is a unnamed playa, located approximately 2,500 feet northwest of the location. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs. The site has been restored to meet the standards of Table I of 19.15.29.12 NMAC.

Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix A.

3.0 Release Characterization and Remediation Activities

On November 18, 2023, LH Operating, LLC personnel discovered that the heater treater vessel at the Foster Battery caught fire via lightning strike. Personnel immediately shut in all valves to eliminate the source. An estimated 4 barrels of crude oil and 41 barrels of produced water were released.

On December 30, 2023, Strata mobilized to the site to oversee the excavation of contaminated soil in and around the heater treater. Strata guided the excavation activities by collecting soil samples for field screening. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria would be met. NMOCD was notified on December 28, 2023 that closure samples were expected to be collected in two (2) business days. A copy of this notification is included in Appendix B.



On January 2, 2024, Strata began conducting confirmation sampling of the walls and base of the excavation. The areas around sample locations BH1-BH6, North SW1, North SW2, South SW1, South SW2, East SW, West SW were excavated to a depth of 4 feet bgs.

The confirmation samples were comprised of representative wall and base 5-point composite samples, each representing 200 ft² of exposed excavation of the base (BH1-BH6) and walls (North SW1, North SW2, South SW1, South SW2, East SW, West SW). All samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental in Albuquerque, New Mexico (Appendix C)

On January 11, 2024, Strata received lab confirmation that all samples were below NMOCD closure criteria (Table 3).

Figure 3 shows the extent of the excavation and sample locations. All laboratory results are summarized in Table 3 and the analytical reports are included in Appendix C. Approximately 177 cubic yards of contaminated soil was removed and hauled to a NMOCD approved facility.

Upon confirming that all soil samples met the closure standards set by the NMOCD, clean backfill material was brought in and utilized to restore the excavated area, returning it to its original state.

Strata Resources recommends no additional remediation efforts and requests that incident number NAPP2333335903 be closed as all closure requirements were satisfied.

4.0 Scope and Limitations

The scope of our services included: assessment sampling, verifying release stabilizations; regulatory liaison; remediation; and preparation of this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact Lynn Acosta at (505) 516-7469.

Submitted by:

Strata Resources, LLC

Lynn A. Acosta

Lynn A. Acosta,

Project Geoscientist



ATTACHMENTS

Figures:

Figure 1: Topographic Site Map

Figure 2: Aerial Site Map

Figure 3: Site Characterization Map

Tables:

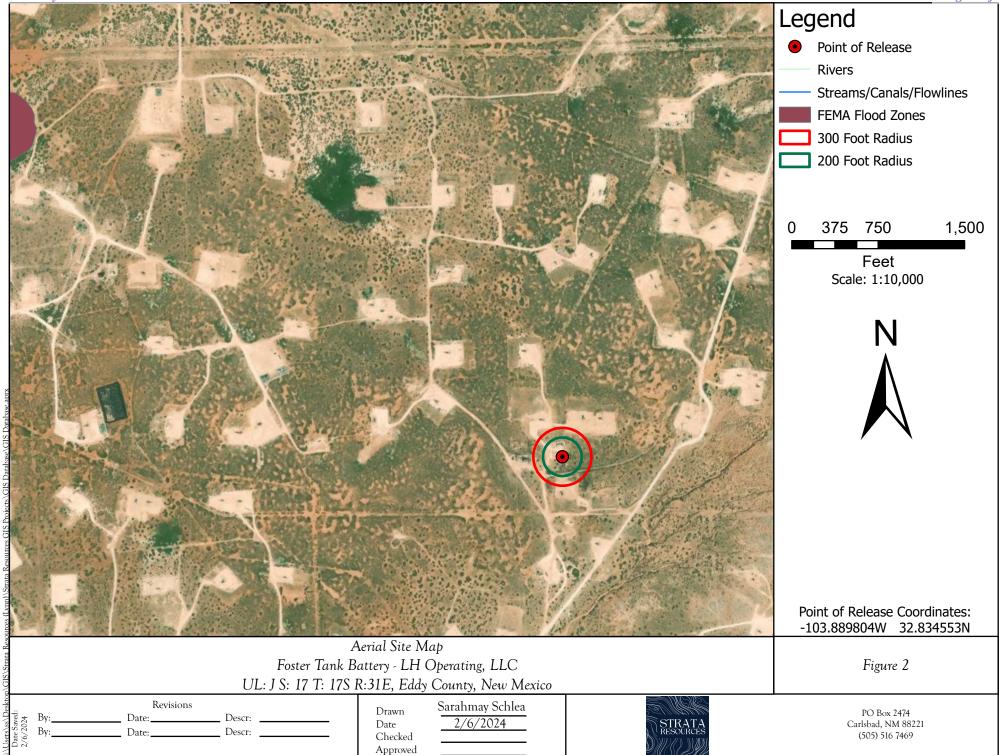
Table 2: NMOCD Closure Criteria
Table 3: Summary of Sample Results

Appendices:

Appendix A: NMOSE Wells Report Appendix B: Notification of Sampling Appendix C: Analytical Laboratory Results Appendix D: Open Excavation Photo Log



FIGURES





TABLES

Table 2: NMOCD Closure Criteria

LH Operating, LLC Foster Battery Incident No. nAPP2333335903

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)	Source/Notes				
General Depth to Groundwater In Region (feet bgs)	>100	New Mexico Office of the State Engineer			
Hortizontal Distance From All Water Sources Within 1/2 Mile (ft)	>5280	United States Geological Survery Topographical Map			
Hortizontal Distance to Nearest Significant Watercourse (ft)	2,500	Un-named Playa			

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)								
			Closure Criteria (units in mg/kg)					
Depth to Groundwater			ТРН	GRO + DRO	втех	Benzene		
< 50' BGS	X	600	100		50	10		
51' to 100'		10000	2500	1000	50	10		
>100'		20000	2500	1000	50	10		
Surface Water yes or no				if yes, then				
<300' from continuously flowing watercourse or other significant watercourse? <200' from lakebed, sinkhole or playa lake?	No No							
Water Well or Water Source								
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes? <1000' from fresh water well or spring?	No No							
Human and Other Areas		600	100		50	10		
<300' from an occupied permanent residence, school, hospital, institution or church?	No							
within incorporated municipal boundaries or within a defined								
municipal fresh water well field?	No							
<100' from wetland?	No							
within area overlying a subsurface mine	No							
within an unstable area?	No							
within a 100-year floodplain?	No							

Table 3: Summary of Sample Results

LH Operating, LLC Foster Battery Incident No. nAPP2333335903

Sample ID	Sample Date	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
	Date	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMOCD Clos	sure Criteria	50	10	10	00		100	600
BH1		<0.153	<0.017	<3.4	<9.2	<46	<58.6	<60
BH2		<0.162	<0.018	<3.6	<9.7	<48	<61.3	<60
BH3		<0.158	<0.018	<3.5	<9.6	<48	<61.1	<60
BH4		<0.159	<0.018	<3.5	<9.3	<46	<58.8	<60
BH5		<0.158	<0.018	<3.5	<9.7	<49	<62.2	<60
BH6	1/2/2024	<0.140	<0.016	<3.1	<9.2	<46	<58.3	<61
North SW 1	1/2/2024	<0.149	<0.017	<3.3	<9.5	<47	<59.8	<60
North SW 2		<0.153	<0.017	<3.4	<9.4	<47	<59.8	<60
South SW 1		<0.154	<0.017	<3.4	<9.7	<49	<62.1	<60
South SW 2		<0.159	<0.018	<3.5	<9.3	<46	<58.8	<59
East SW		<0.153	<0.017	<3.4	<9.5	<47	<59.9	<59
West SW		<0.157	<0.017	<3.5	<9.1	<46	<58.6	<60



APPENDIX A: NMOSE WELLS REPORT



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 603905.71 **Northing (Y):** 3633491.59 **Radius:** 805

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

2/11/24 9:21 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



APPENDIX B: NOTIFICATION OF SAMPLING

Districts:

Counties:

SIGN-IN HELP

Searches Operator Data Hearing Fee Application

Artesia

Eddy

OCD Permitting

Home Operator Data

Operator:

Status Date:

Action Status

Action Search Results

Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID: 29

298078

12/28/2023

[329319] LH Operating, LLC

Description: LH Operating, LLC [329319]

, V L FOSTER BATTERY , nAPP2333335903

Status: APPROVED

References (1): nAPP2333335903

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#) nAPP2333335903

Incident Name NAPP233335903 V L FOSTER BATTERY @ 0

Incident Type Fire

Incident Status Initial C-141 Approved

Location of Release Source

Site Name V L FOSTER BATTERY

Date Release Discovered 11/18/2023
Surface Owner Federal

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet 721
What is the estimated number of samples that will be gathered 8

Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of

19.15.29.12 NMAC

01/02/2024

Time sampling will commence 07:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers

Mike Burton 575-499-5306

Please provide any information necessary for navigation to sampling site

Open access 32.834559,-103.889812

SIGN-IN HELP

		Searches	Operator Data	Hearing Fee Application
Comments				
No comments found for	this submission.			
Conditions				
Summary:	mburton (12/28/2023), Failure to notify the OCD of sampling events including any chemediation closure samples not being accepted.	nanges in date/time per the	requirements of 19.15.29.	12.D.(1).(a) NMAC, may result in the
Reasons				
No reasons found for th	is submission.			
Go Back				

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EMNRD Home OCD Main Page OCD Rules Help



APPENDIX C: ANALYTICAL LABORATORY RESULTS



Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 11, 2024

Mike Burton LH Operating, LLC 4809 Cole Ave, Ste 106 Dallas, TX 75205

TEL: (575) 499-5306

FAX:

RE: Foster Battery OrderNo.: 2401130

Dear Mike Burton:

Eurofins Environment Testing South Central, LLC received 12 sample(s) on 1/4/2024 for the analyses presented in the following report.

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

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 1/11/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LH Operating, LLC

Client Sample ID: North SW 1

Project: Foster Battery Collection Date: 1/2/2024 7:00:00 AM

Lab ID: 2401130-001 **Matrix:** MEOH (SOIL) **Received Date:** 1/4/2024 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/4/2024 11:39:59 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/4/2024 11:39:59 AM
Surr: DNOP	117	69-147	%Rec	1	1/4/2024 11:39:59 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	1/4/2024 12:47:40 PM
Surr: BFB	99.7	15-244	%Rec	1	1/4/2024 12:47:40 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.017	mg/Kg	1	1/4/2024 12:47:40 PM
Toluene	ND	0.033	mg/Kg	1	1/4/2024 12:47:40 PM
Ethylbenzene	ND	0.033	mg/Kg	1	1/4/2024 12:47:40 PM
Xylenes, Total	ND	0.066	mg/Kg	1	1/4/2024 12:47:40 PM
Surr: 4-Bromofluorobenzene	92.6	39.1-146	%Rec	1	1/4/2024 12:47:40 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	1/4/2024 9:57:37 PM

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

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

Date Reported: 1/11/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LH Operating, LLC Client Sample ID: North SW 2

Project: Foster Battery Collection Date: 1/2/2024 7:10:00 AM

Lab ID: 2401130-002 Matrix: MEOH (SOIL) Received Date: 1/4/2024 7:20:00 AM

Analyses Result RL Qual Units DF Date Analyzed

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: P

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	1/4/2024 11:50:26 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/4/2024 11:50:26 AM
Surr: DNOP	102	69-147	%Rec	1	1/4/2024 11:50:26 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	1/4/2024 1:11:27 PM
Surr: BFB	102	15-244	%Rec	1	1/4/2024 1:11:27 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.017	mg/Kg	1	1/4/2024 1:11:27 PM
Toluene	ND	0.034	mg/Kg	1	1/4/2024 1:11:27 PM
Ethylbenzene	ND	0.034	mg/Kg	1	1/4/2024 1:11:27 PM
Xylenes, Total	ND	0.068	mg/Kg	1	1/4/2024 1:11:27 PM
Surr: 4-Bromofluorobenzene	94.4	39.1-146	%Rec	1	1/4/2024 1:11:27 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	1/4/2024 10:10:01 PM

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

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

Date Reported: 1/11/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LH Operating, LLC

Client Sample ID: South SW 1

Project: Foster Battery Collection Date: 1/2/2024 7:20:00 AM

Lab ID: 2401130-003 **Matrix:** MEOH (SOIL) **Received Date:** 1/4/2024 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/4/2024 12:00:59 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/4/2024 12:00:59 PM
Surr: DNOP	104	69-147	%Rec	1	1/4/2024 12:00:59 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	1/4/2024 1:35:11 PM
Surr: BFB	100	15-244	%Rec	1	1/4/2024 1:35:11 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.017	mg/Kg	1	1/4/2024 1:35:11 PM
Toluene	ND	0.034	mg/Kg	1	1/4/2024 1:35:11 PM
Ethylbenzene	ND	0.034	mg/Kg	1	1/4/2024 1:35:11 PM
Xylenes, Total	ND	0.069	mg/Kg	1	1/4/2024 1:35:11 PM
Surr: 4-Bromofluorobenzene	92.3	39.1-146	%Rec	1	1/4/2024 1:35:11 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	1/4/2024 11:36:55 PM

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

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

Date Reported: 1/11/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LH Operating, LLC Client Sample ID: South SW 2

Project: Foster Battery Collection Date: 1/2/2024 7:30:00 AM

Lab ID: 2401130-004 **Matrix:** MEOH (SOIL) **Received Date:** 1/4/2024 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/4/2024 12:11:32 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/4/2024 12:11:32 PM
Surr: DNOP	98.6	69-147	%Rec	1	1/4/2024 12:11:32 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	1/4/2024 1:58:54 PM
Surr: BFB	97.9	15-244	%Rec	1	1/4/2024 1:58:54 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.018	mg/Kg	1	1/4/2024 1:58:54 PM
Toluene	ND	0.035	mg/Kg	1	1/4/2024 1:58:54 PM
Ethylbenzene	ND	0.035	mg/Kg	1	1/4/2024 1:58:54 PM
Xylenes, Total	ND	0.071	mg/Kg	1	1/4/2024 1:58:54 PM
Surr: 4-Bromofluorobenzene	91.4	39.1-146	%Rec	1	1/4/2024 1:58:54 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	59	mg/Kg	20	1/4/2024 11:49:19 PM

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

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

Date Reported: 1/11/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LH Operating, LLC Client Sample ID: East SW

Project: Foster Battery Collection Date: 1/2/2024 7:40:00 AM

Lab ID: 2401130-005 **Matrix:** MEOH (SOIL) **Received Date:** 1/4/2024 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/4/2024 12:22:04 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/4/2024 12:22:04 PM
Surr: DNOP	109	69-147	%Rec	1	1/4/2024 12:22:04 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	1/4/2024 2:22:37 PM
Surr: BFB	100	15-244	%Rec	1	1/4/2024 2:22:37 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.017	mg/Kg	1	1/4/2024 2:22:37 PM
Toluene	ND	0.034	mg/Kg	1	1/4/2024 2:22:37 PM
Ethylbenzene	ND	0.034	mg/Kg	1	1/4/2024 2:22:37 PM
Xylenes, Total	ND	0.068	mg/Kg	1	1/4/2024 2:22:37 PM
Surr: 4-Bromofluorobenzene	92.6	39.1-146	%Rec	1	1/4/2024 2:22:37 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	59	mg/Kg	20	1/5/2024 12:01:43 AM

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

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

Date Reported: 1/11/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LH Operating, LLC Client Sample ID: West SW

Project: Foster Battery Collection Date: 1/2/2024 7:50:00 AM

Lab ID: 2401130-006 **Matrix:** MEOH (SOIL) **Received Date:** 1/4/2024 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	1/4/2024 12:32:40 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/4/2024 12:32:40 PM
Surr: DNOP	97.1	69-147	%Rec	1	1/4/2024 12:32:40 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	1/4/2024 2:46:18 PM
Surr: BFB	103	15-244	%Rec	1	1/4/2024 2:46:18 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.017	mg/Kg	1	1/4/2024 2:46:18 PM
Toluene	ND	0.035	mg/Kg	1	1/4/2024 2:46:18 PM
Ethylbenzene	ND	0.035	mg/Kg	1	1/4/2024 2:46:18 PM
Xylenes, Total	ND	0.070	mg/Kg	1	1/4/2024 2:46:18 PM
Surr: 4-Bromofluorobenzene	95.3	39.1-146	%Rec	1	1/4/2024 2:46:18 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	1/5/2024 12:14:08 AM

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

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

Date Reported: 1/11/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LH Operating, LLC Client Sample ID: BH 1

Project: Foster Battery Collection Date: 1/2/2024 8:00:00 AM

Lab ID: 2401130-007 **Matrix:** MEOH (SOIL) **Received Date:** 1/4/2024 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/4/2024 12:43:15 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/4/2024 12:43:15 PM
Surr: DNOP	97.3	69-147	%Rec	1	1/4/2024 12:43:15 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	1/4/2024 4:44:55 PM
Surr: BFB	99.7	15-244	%Rec	1	1/4/2024 4:44:55 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.017	mg/Kg	1	1/4/2024 4:44:55 PM
Toluene	ND	0.034	mg/Kg	1	1/4/2024 4:44:55 PM
Ethylbenzene	ND	0.034	mg/Kg	1	1/4/2024 4:44:55 PM
Xylenes, Total	ND	0.068	mg/Kg	1	1/4/2024 4:44:55 PM
Surr: 4-Bromofluorobenzene	93.1	39.1-146	%Rec	1	1/4/2024 4:44:55 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	1/5/2024 12:26:33 AM

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

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

Date Reported: 1/11/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LH Operating, LLC Client Sample ID: BH 2

Project: Foster Battery Collection Date: 1/2/2024 8:10:00 AM

Lab ID: 2401130-008 **Matrix:** MEOH (SOIL) **Received Date:** 1/4/2024 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/4/2024 12:53:51 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/4/2024 12:53:51 PM
Surr: DNOP	97.4	69-147	%Rec	1	1/4/2024 12:53:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	1/4/2024 5:08:32 PM
Surr: BFB	101	15-244	%Rec	1	1/4/2024 5:08:32 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.018	mg/Kg	1	1/4/2024 5:08:32 PM
Toluene	ND	0.036	mg/Kg	1	1/4/2024 5:08:32 PM
Ethylbenzene	ND	0.036	mg/Kg	1	1/4/2024 5:08:32 PM
Xylenes, Total	ND	0.072	mg/Kg	1	1/4/2024 5:08:32 PM
Surr: 4-Bromofluorobenzene	94.7	39.1-146	%Rec	1	1/4/2024 5:08:32 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	1/5/2024 12:38:58 AM

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

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

Date Reported: 1/11/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LH Operating, LLC Client Sample ID: BH 3

Project: Foster Battery Collection Date: 1/2/2024 8:20:00 AM

Lab ID: 2401130-009 **Matrix:** MEOH (SOIL) **Received Date:** 1/4/2024 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/4/2024 1:04:28 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/4/2024 1:04:28 PM
Surr: DNOP	96.5	69-147	%Rec	1	1/4/2024 1:04:28 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	1/4/2024 5:32:03 PM
Surr: BFB	99.9	15-244	%Rec	1	1/4/2024 5:32:03 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.018	mg/Kg	1	1/4/2024 5:32:03 PM
Toluene	ND	0.035	mg/Kg	1	1/4/2024 5:32:03 PM
Ethylbenzene	ND	0.035	mg/Kg	1	1/4/2024 5:32:03 PM
Xylenes, Total	ND	0.070	mg/Kg	1	1/4/2024 5:32:03 PM
Surr: 4-Bromofluorobenzene	92.3	39.1-146	%Rec	1	1/4/2024 5:32:03 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	1/5/2024 1:16:12 AM

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

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

Date Reported: 1/11/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LH Operating, LLC Client Sample ID: BH 4

Project: Foster Battery Collection Date: 1/2/2024 8:30:00 AM

Lab ID: 2401130-010 **Matrix:** MEOH (SOIL) **Received Date:** 1/4/2024 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/4/2024 1:15:04 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/4/2024 1:15:04 PM
Surr: DNOP	98.8	69-147	%Rec	1	1/4/2024 1:15:04 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	1/4/2024 5:55:42 PM
Surr: BFB	101	15-244	%Rec	1	1/4/2024 5:55:42 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.018	mg/Kg	1	1/4/2024 5:55:42 PM
Toluene	ND	0.035	mg/Kg	1	1/4/2024 5:55:42 PM
Ethylbenzene	ND	0.035	mg/Kg	1	1/4/2024 5:55:42 PM
Xylenes, Total	ND	0.071	mg/Kg	1	1/4/2024 5:55:42 PM
Surr: 4-Bromofluorobenzene	94.3	39.1-146	%Rec	1	1/4/2024 5:55:42 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	1/5/2024 1:28:37 AM

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

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

Date Reported: 1/11/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LH Operating, LLC Client Sample ID: BH 5

Project: Foster Battery Collection Date: 1/2/2024 8:40:00 AM

Lab ID: 2401130-011 **Matrix:** MEOH (SOIL) **Received Date:** 1/4/2024 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/4/2024 1:25:41 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/4/2024 1:25:41 PM
Surr: DNOP	97.9	69-147	%Rec	1	1/4/2024 1:25:41 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	1/4/2024 6:19:17 PM
Surr: BFB	98.2	15-244	%Rec	1	1/4/2024 6:19:17 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.018	mg/Kg	1	1/4/2024 6:19:17 PM
Toluene	ND	0.035	mg/Kg	1	1/4/2024 6:19:17 PM
Ethylbenzene	ND	0.035	mg/Kg	1	1/4/2024 6:19:17 PM
Xylenes, Total	ND	0.070	mg/Kg	1	1/4/2024 6:19:17 PM
Surr: 4-Bromofluorobenzene	92.0	39.1-146	%Rec	1	1/4/2024 6:19:17 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	1/5/2024 1:41:01 AM

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

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

Date Reported: 1/11/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LH Operating, LLC Client Sample ID: BH 6

Project: Foster Battery Collection Date: 1/2/2024 8:50:00 AM

Lab ID: 2401130-012 **Matrix:** MEOH (SOIL) **Received Date:** 1/4/2024 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/4/2024 1:36:20 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/4/2024 1:36:20 PM
Surr: DNOP	101	69-147	%Rec	1	1/4/2024 1:36:20 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	1/4/2024 6:42:44 PM
Surr: BFB	102	15-244	%Rec	1	1/4/2024 6:42:44 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.016	mg/Kg	1	1/4/2024 6:42:44 PM
Toluene	ND	0.031	mg/Kg	1	1/4/2024 6:42:44 PM
Ethylbenzene	ND	0.031	mg/Kg	1	1/4/2024 6:42:44 PM
Xylenes, Total	ND	0.062	mg/Kg	1	1/4/2024 6:42:44 PM
Surr: 4-Bromofluorobenzene	94.2	39.1-146	%Rec	1	1/4/2024 6:42:44 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	61	mg/Kg	20	1/5/2024 1:53:26 AM

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

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

Hall Environmental Analysis Laboratory, Inc.

2401130

WO#:

11-Jan-24

Client: LH Operating, LLC
Project: Foster Battery

Sample ID: MB-79739 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 79739 RunNo: 102237

Prep Date: 1/4/2024 Analysis Date: 1/4/2024 SeqNo: 3775239 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-79739 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 79739 RunNo: 102237

Prep Date: 1/4/2024 Analysis Date: 1/4/2024 SeqNo: 3775240 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.8 90 110

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

Hall Environmental Analysis Laboratory, Inc.

2401130 11-Jan-24

WO#:

%RPD

11.2

0

RPDLimit

29.2

0

Qual

Client: LH Operating, LLC

Project: Foster Ba	ttery										
Sample ID: LCS-79731	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics		
Client ID: LCSS	Batch	ID: 79 7	731	F	RunNo: 10	02236					
Prep Date: 1/4/2024	Analysis D	ate: 1/4	4/2024	S	SeqNo: 3	774135	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	53	10	50.00	0	106	61.9	130				
Surr: DNOP	5.7		5.000		115	69	147				
Sample ID: MB-79731	SampT	уре: МЕ	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch	ID: 79 7	731	F	RunNo: 10	02236					
Prep Date: 1/4/2024	Analysis D	ate: 1/4	4/2024	S	774136	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	10		10.00		101	69	147				
Sample ID: 2401130-012AMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics		
Client ID: BH 6	Batch	ID: 79 7	731	F	RunNo: 10	02236					
Prep Date: 1/4/2024	Analysis D	ate: 1/4	4/2024	5	SeqNo: 3	774652	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	43	9.1	45.66	0	93.6	54.2	135	_			
Surr: DNOP	4.5		4.566		99.4	69	147				
Sample ID: 2401130-012AMSD	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics		
Client ID: BH 6	Batch	ID: 79 7	731	F	RunNo: 10	02236					
Prep Date: 1/4/2024	Analysis D	ate: 1/	4/2024	5	SeqNo: 3	774653	Units: mg/K	(g			

SPK value SPK Ref Val

46.55

4.655

Qualifiers:

Analyte

Surr: DNOP

Diesel Range Organics (DRO)

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Result

48

4.8

PQL

9.3

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value

%REC

103

104

LowLimit

54.2

69

HighLimit

135

147

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

2401130 11-Jan-24

WO#:

Client: LH Operating, LLC **Project:** Foster Battery

SampTy	pe: LC	S	Tes	TestCode: EPA Method 8015D: Gasoline Range					
Batch I	ID: GS	102232	F	tunNo: 10)2232				
Analysis Da	ite: 1/4	1/2024	8	SeqNo: 37	773960	Units: mg/Kg			
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
26	5.0	25.00	0	104	70	130			
2100		1000		212	15	244			
	Batch Analysis Da Result 26	Batch ID: GS Analysis Date: 1/4 Result PQL 26 5.0	Result PQL SPK value 26 5.0 25.00	Batch ID: GS102232 Analysis Date: 1/4/2024 S Result PQL SPK value SPK Ref Val 26 5.0 25.00 0	Batch ID: GS102232 RunNo: 10 Analysis Date: 1/4/2024 SeqNo: 37 Result PQL SPK value SPK Ref Val %REC 26 5.0 25.00 0 104	Batch ID: G\$102232 RunNo: 102232 Analysis Date: 1/4/2024 SeqNo: 3773960 Result PQL SPK value SPK Ref Val %REC LowLimit 26 5.0 25.00 0 104 70	Batch ID: G\$102232 RunNo: 102232 Analysis Date: 1/4/2024 SeqNo: 3773960 Units: mg/K Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit 26 5.0 25.00 0 104 70 130	Batch ID: G\$102232 RunNo: 102232 Analysis Date: 1/4/2024 SeqNo: 3773960 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD 26 5.0 25.00 0 104 70 130 ************************************	Batch ID: G\$102232 RunNo: 102232 Analysis Date: 1/4/2024 SeqNo: 3773960 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 26 5.0 25.00 0 104 70 130 130

Sample ID: mb	SampT	уре: МЕ	BLK TestCode: EPA Method 8				8015D: Gasol	ine Range		
Client ID: PBS	Batch	ID: GS	102232	F	RunNo: 1(02232				
Prep Date:	Analysis D	ate: 1/4	4/2024	5	SeqNo: 37	773961	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0		_					_	

Gasoline Ra	nge Organi	cs (GRO)
Curr. DED		

ne Range Organics (GRO)	ND	5
r: BFB	1000	

102

1000

15

244

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

Hall Environmental Analysis Laboratory, Inc.

2401130 11-Jan-24

WO#:

Client: LH Operating, LLC
Project: Foster Battery

Sample ID: 100ng btex lcs	Samp	npType: LCS TestCode: EPA Method 8				8021B: Volat	iles			
Client ID: LCSS	Batcl	Batch ID: BS102232 RunNo: 102232								
Prep Date:	Analysis [Date: 1/4	1/2024	5	SeqNo: 37	773965	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.7	70	130			
Toluene	0.92	0.050	1.000	0	91.9	70	130			
Ethylbenzene	0.94	0.050	1.000	0	93.8	70	130			
Xylenes, Total	2.8	0.10	3.000	0	94.4	70	130			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	39.1	146			

Sample ID: mb	SampT	уре: МЕ	BLK	TestCode: EPA Method				les		
Client ID: PBS	Batch	102232	F	RunNo: 102232						
Prep Date:	Analysis D	ysis Date: 1/4/2024 SeqNo: 377396				SeqNo: 3773966				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.2	39.1	146			

Sample ID: 2401130-001ams	Samp ⁻	Гуре: МЅ	3	Tes	tCode: Ef	PA Method	8021B: Volati	les		
Client ID: North SW 1	Batc	h ID: BS	102232	F	RunNo: 10	02232				
Prep Date:	Analysis [Date: 1/4	4/2024	5	SeqNo: 37	774936	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.59	0.017	0.6614	0	88.7	70	130			
Toluene	0.60	0.033	0.6614	0	91.0	70	130			
Ethylbenzene	0.60	0.033	0.6614	0	90.8	70	130			
Xylenes, Total	1.8	0.066	1.984	0	91.4	70	130			
Surr: 4-Bromofluorobenzene	0.64		0.6614		96.2	39.1	146			

Sample ID: 2401130-001amsd	SampT	ype: MS	D	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: North SW 1	Batch	n ID: BS	102232	F	RunNo: 10	02232				
Prep Date:	Analysis D	Date: 1/4	1/2024	5	SeqNo: 37	774937	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.57	0.017	0.6614	0	86.3	70	130	2.75	20	
Toluene	0.58	0.033	0.6614	0	88.3	70	130	2.98	20	
Ethylbenzene	0.60	0.033	0.6614	0	90.0	70	130	0.951	20	
Xylenes, Total	1.8	0.066	1.984	0	90.6	70	130	0.938	20	
Surr: 4-Bromofluorobenzene	0.64		0.6614		97.3	39.1	146	0	0	

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



Environment Testin

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE

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

Sample Log-In Check List

Released to Imaging: 4/19/2024 8:52:47 AM

			J	Vebsite: www.	hallenvironm	ental.com	_		
Client Name:	LH Operating	, LLC	Work	Order Numb	er: 2401130)		RcptNo:	1
Received By:	Tracy Casar	rubias	1/4/2024	4 7:20:00 AN	Л				
Completed By:	Tracy Casar	rubias	1/4/2024	4 7:39:45 AN	1				
Reviewed By:	w	2 1/	4/24						
Chain of Cust	ody								
1. Is Chain of Cu	stody complete	e?			Yes 🗌	No	V	Not Present	
2. How was the s	ample delivere	ed?			<u>Courier</u>				
Log In 3. Was an attempt	ot made to coo	ol the sample	es?		Yes 🗸	No		na 🗆	
4. Were all sample	les received at	t a temperate	ure of >0° C t	o 6.0°C	Yes 🗸	No		NA 🗌	
5. Sample(s) in p	roper containe	er(s)?			Yes 🗹	No			
6. Sufficient samp	ole volume for	indicated te	st(s)?		Yes 🗸	No			
7. Are samples (e	except VOA an	d ONG) pro	perly preserve	ed?	Yes 🗹	No			
8. Was preservati	ive added to be	ottles?			Yes 🗌	No	V	NA 🗆	
9. Received at lea	ast 1 vial with h	neadspace <	:1/4" for AQ V	OA?	Yes 🗌	No		NA 🗹	
10. Were any sam	ple containers	received br	oken?		Yes 🗌	No	V	# of preserved	
11. Does paperwor					Yes 🗹	No		·	>12 unless noted)
12. Are matrices co	orrectly identifi	ed on Chain	of Custody?		Yes 🗹	No		Adjusted?	-
13. Is it clear what	analyses were	e requested?	•		Yes 🗹	No			
14. Were all holdin (If no, notify cu	-				Yes 🗸	No		Checked by:	14/24
Special Handli	ng (if appli	cable)							
15. Was client not	ified of all disc	repancies w	rith this order?	,	Yes 🗌	No		NA 🗹	
Person I	Notified:			Date:	Г		_		
By Who	m:			Via:	eMail	Phone	Fax	☐ In Person	
Regardir	_								
Client In	structions: M	lailing addre	ss is missina	on COC- TM	C 1/4/24				
16. Additional ren	narks:								
17. Cooler Inform				g g		,			
Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed	Ву		
1	3.8	Good	Yes	yogi					

Chain-of-Custody Record	urn-Around Time	illie:				_	3	_	N	OT.	ć	M	ENVIDONMENTAL	
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	Project #:				Te.	Tel. 505-345-3975	45-36		Fax	Fax 505-345-4107	45-4	107		
Phone #: 575-499-5306			- 1115 SE					Ana	Analysis Request	Requ	est			
email or Fax#: Mik @ LH Operating . Com	Project Manager	ger:		(12				-08	too		(ju€			
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□ NELAC □ Other	On Ice:	CX Yes	□ No unai	. /:						AC	'심)	-		
□ EDD (Type)	# of Coolers:			38.				_) / -!	w.			
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Released to Imaging: 4/19/2024 8:52:4 A.M. Interest of the accredited Taboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



APPENDIX D: OPEN EXCAVATION PHOTO LOG

Foster Battery Open Excavation Photolog





<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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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 315089

QUESTIONS

Operator:	OGRID:
LH Operating, LLC	329319
3730 Kirby Drive	Action Number:
Houston, TX 77098	315089
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2333335903
Incident Name	NAPP2333335903 V L FOSTER BATTERY @ 0
Incident Type	Fire
Incident Status	Remediation Closure Report Received

Location of Release Source	Location of Release Source		
Please answer all the questions in this group.			
Site Name	V L FOSTER BATTERY		
Date Release Discovered 11/18/2023			
Surface Owner	Federal		

Incident Details	ncident Details			
Please answer all the questions in this group.				
Incident Type	Fire			
Did this release result in a fire or is the result of a fire	Yes			
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	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Fire Treating Tower Crude Oil Released: 4 BBL Recovered: 4 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Fire Treating Tower Produced Water Released: 41 BBL Recovered: 40 BBL Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 315089

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	IONS (continued)
Operator:	OGRID:
LH Operating, LLC 3730 Kirby Drive	329319 Action Number:
Houston, TX 77098	315089
	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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
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.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for relethe OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
	Name: Michael Burton
I hereby agree and sign off to the above statement	Title: Environmental Manager

Email: mike@lhoperating.com

Date: 02/16/2024

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QUESTIONS, Page 3

Action 315089

QUESTIONS (continued)

Operator:	OGRID:
LH Operating, LLC	329319
3730 Kirby Drive	Action Number:
Houston, TX 77098	315089
	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 approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the				
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 1 and 5 (mi.)				
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (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	Greater than 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	Low				
A 100-year floodplain	Between 1000 (ft.) and ½ (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 contaminat	tion 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 contaminat	ion 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 SI	M4500 CI B)	0
TPH (GRO+DRO+MRO) (EPA SW-846 Met	hod 8015M)	0
GRO+DRO (EPA SW-846 M	ethod 8015M)	0
BTEX (EPA SW-846 M	ethod 8021B or 8260B)	0
Benzene (EPA SW-846 N	lethod 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site chara which includes the anticipated timelines for beginning and c		ted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
On what estimated date will the remediation comm	nence	12/30/2023
On what date will (or did) the final sampling or line	er inspection occur	01/02/2024
On what date will (or was) the remediation comple	ete(d)	01/02/2024
What is the estimated surface area (in square fee	t) that will be reclaimed	1200
What is the estimated volume (in cubic yards) that	will be reclaimed	44
What is the estimated surface area (in square fee	t) that will be remediated	1200
What is the estimated volume (in cubic yards) that	will be remediated	44
These estimated dates and measurements are recognized to	be the best quess or calculation at	the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

QUESTIONS, Page 4

Action 315089

QUESTIONS (continued)

Operator:	OGRID:
LH Operating, LLC	329319
3730 Kirby Drive	Action Number:
Houston, TX 77098	315089
	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.)	Yes	
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	No	

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: Michael Burton Title: Enviromental Manager Email: mike@lhoperating.com

Date: 02/16/2024

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

QUESTIONS, Page 5

Action 315089

QUESTIONS (continued)

Operator:	OGRID:
LH Operating, LLC	329319
3730 Kirby Drive	Action Number:
Houston, TX 77098	315089
	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**

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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, Page 6

Action 315089

QUESTIONS (continued)

Operator:	OGRID:
LH Operating, LLC	329319
3730 Kirby Drive	Action Number:
Houston, TX 77098	315089
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	298078	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/02/2024	
What was the (estimated) number of samples that were to be gathered	8	
What was the sampling surface area in square feet	721	

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	1200
What was the total volume (cubic yards) remediated	44
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	1200
What was the total volume (in cubic yards) reclaimed	44
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.

Name: Michael Burton
Title: Enviromental Manager
Email: mike@lhoperating.com
Date: 02/16/2024

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QUESTIONS, Page 7

Action 315089

QUESTIONS (continued)

Operator:	OGRID:
LH Operating, LLC	329319
3730 Kirby Drive Houston, TX 77098	Action Number: 315089
Tiousion, 1X 17090	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
	[0-141] Nemediation Glosure Request 0-141 (0-141-4-Glosure)

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 315089

CONDITIONS

Operator:	OGRID:
LH Operating, LLC	329319
3730 Kirby Drive	Action Number:
Houston, TX 77098	315089
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created B	y Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2333335903 V L FOSTER BATTERY, thank you. This Remediation Closure Report is approved.	4/19/2024