



Remediation Report and Closure Request

December 13, 2022

**East Hobbs San Andres Unit
(EHSAU) #207
Crude Oil and Produced Water
Release
API # 30-025-37814
Incident # nOY1706627456
(1RP-4631)**

Prepared For:

Penroc Oil Corporation
1515 Calle Sur, Suite 174
Hobbs, New Mexico 88240

Prepared By:

Crain Environmental
2925 East 17th Street
Odessa, Texas 79761

A handwritten signature in blue ink that reads 'Cynthia K. Crain'.

Cynthia K. Crain, P.G.



Table of Contents

1.0 INTRODUCTION.....1

2.0 BACKGROUND.....1

3.0 ADDITIONAL DELINEATION ACTIVITIES.....1

4.0 REQUEST FOR CLOSURE2

5.0 DISTRIBUTION.....2

TABLE

Table 1: Summary of Soil Sample Analytical Results

FIGURES

Figure 1 – Site Location Map

Figure 2 – Soil Sample Analytical Results Map

APPENDICES

Appendix A - Previous Closure Report and OCD Response

Appendix B - Laboratory Analytical Reports

Appendix C - Photographic Documentation

Appendix D - Final C-141



1.0 Introduction

Crain Environmental (CE), on behalf of Penroc Oil Corporation (Penroc), has prepared this *Remediation Report and Closure Request* for the crude oil and produced water release at the East Hobbs San Andres Unit #207 (Site), located in Unit Letter H, Section 30, Township 18 South, Range 39 East, Lea County, New Mexico. The global positioning system (GPS) coordinates for the Site are 32.7193222°, -103.0799332°. The property surface rights are privately owned. The location of the Site is depicted on Figure 1. The Site was operated by LINN Operating (LINN) at the time of the release.

2.0 Background

On February 23, 2017, LINN observed a grass fire at the Site that resulted in a release of approximately 0.5 barrels (bbls) of oil and 9 bbls of produced water from a melted flowline. The New Mexico Oil Conservation Division (OCD) was immediately notified, and an Initial C-141 was submitted on February 28, 2017. The C-141 states that the fire consumed the fluids that were released from the flowline.

A soil investigation was conducted by Diversified Field Service, Inc. (DFSI), and a *Closure Report* was submitted to the OCD by LINN on March 23, 2017. On June 1, 2017, the OCD denied the *Closure Report*, and requested additional vertical delineation to a minimum depth of 5 feet below ground surface (bgs). Appendix A provides a copy of the *Closure Report* and the OCD response.

On May 3, 2018, the Site was acquired by POGO Oil and Gas Operating, Inc., and on December 17, 2019, the Site was acquired by Penroc. As Incident # nOY1706627456 remains open, Penroc conducted additional delineation to fulfill the OCD request. This *Remediation Report and Closure Request* provides results of the delineation activities.

3.0 Additional Delineation Activities

On September 21, 2022, CE conducted an inspection to determine current Site conditions. No indication of the release was observed, and CE collected two surface samples (S-1 and S-2) from areas to the northwest (S-1) and southeast (S-2) of the well.

The samples were placed in clean glass sample jars, properly labeled, immediately placed on ice, and hand delivered to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons by EPA Method 8015M, and chlorides by EPA Method SM 4500. Table 1 provides a summary of the laboratory results. Figure 2 (in original Closure Report by DFSI) shows the location of sample point S-2. Appendix B provides a copy of the laboratory report and chain of custody documentation.

On November 8, 2022, test holes were dug at the original DFSI sample points S-1, S-2, and S-3 using a backhoe, and soil samples were collected from each test hole at depths of 2, 3, 4, and 5 feet bgs. All samples were delivered to Cardinal for analysis of chlorides. Table 1 provides a summary of the laboratory results. Figure 2 (in original Closure Report by DFSI) shows the sample locations. Appendix B provides a copy of the laboratory report and chain of custody documentation. Appendix C provides photographic documentation.

Referring to Table 1, concentrations of BTEX, TPH were reported below the test method detection limit in samples collected on September 21, 2022. Chloride concentrations were reported below the OCD Closure Criteria of 600 milligrams per kilogram (mg/kg) in each sample.



4.0 Request for Closure

As soil samples collected during additional delineation activities reported chloride concentrations below the OCD Closure Criteria of 600 mg/kg, Penroc respectfully requests that the East Hobbs San Andres Unit #207 (Incident # nOY1706627456 [1RP-4631]) be closed. A Final C-141 is included in Appendix D.

5.0 Distribution

Copy 1: M. Y. Merchant
Penroc Oil Corporation
1515 Calle Sur, Suite 174
Hobbs, New Mexico 88240



TABLE

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
PENROC OIL CORPORATION
EAST HOBBS SAN ANDRES UNIT #207
Incident # nOY1706627456 (1RP-4631)

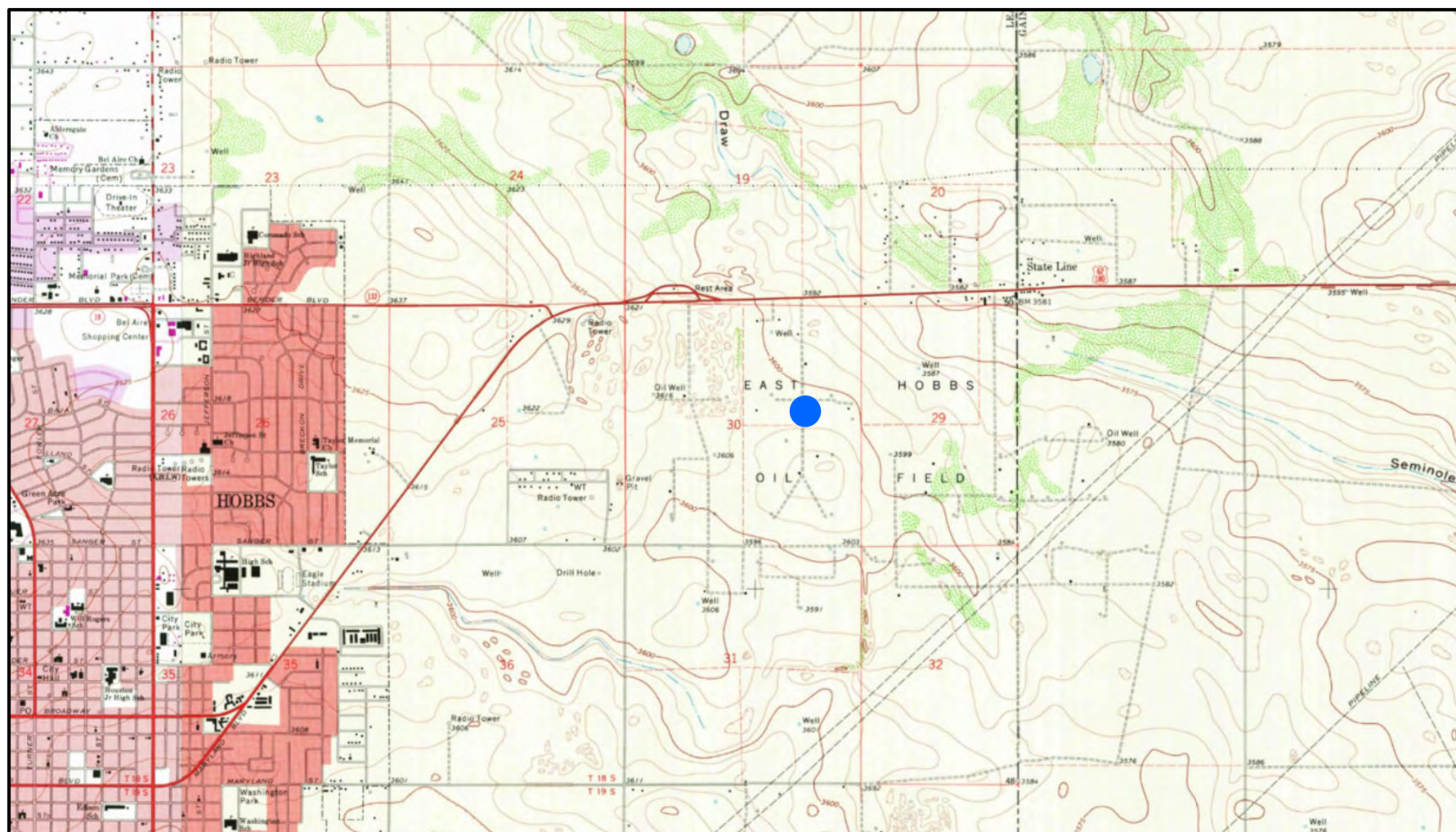
Sample ID	Sample Date	Sample Depth (feet bgs)	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria				-	-	-	100	10	-	-	-	50	600
S-1	09/21/22	0-1	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
S-2	09/21/22	0-1	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	11/08/22	2	In Situ	--	--	--	--	--	--	--	--	--	32.0
	11/08/22	3	In Situ	--	--	--	--	--	--	--	--	--	32.0
	11/08/22	4	In Situ	--	--	--	--	--	--	--	--	--	16.0
	11/08/22	5	In Situ	--	--	--	--	--	--	--	--	--	64.0
S-3	11/08/22	2	In Situ	--	--	--	--	--	--	--	--	--	16.0
	11/08/22	3	In Situ	--	--	--	--	--	--	--	--	--	48.0
	11/08/22	4	In Situ	--	--	--	--	--	--	--	--	--	32.0
	11/08/22	5	In Situ	--	--	--	--	--	--	--	--	--	48.0
S-1	11/08/11	2	In Situ	--	--	--	--	--	--	--	--	--	16.0
	11/08/11	3	In Situ	--	--	--	--	--	--	--	--	--	16.0
	11/08/11	4	In Situ	--	--	--	--	--	--	--	--	--	16.0
	11/08/11	5	In Situ	--	--	--	--	--	--	--	--	--	32.0

Notes:

1. GRO: Gasoline Range Organics
2. DRO: Diesel Range Organics
3. MRO: Motor Oil Range Organics
4. bgs: below ground surface
5. Bold and highlighting indicates the COC was detected above the NMOCD Closure Criteria.
6. < indicates the COC was below the appropriate laboratory method/sample detection limit



FIGURES



LEGEND:

● Site Location



Base Map from GAIA GPS

Figure 1

Site Location Map
Penroc Oil Corporation
East Hobbs San Andres Unit #207
Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: Dec. 13, 2022

GPS: 32.7193222° -103.0799332°



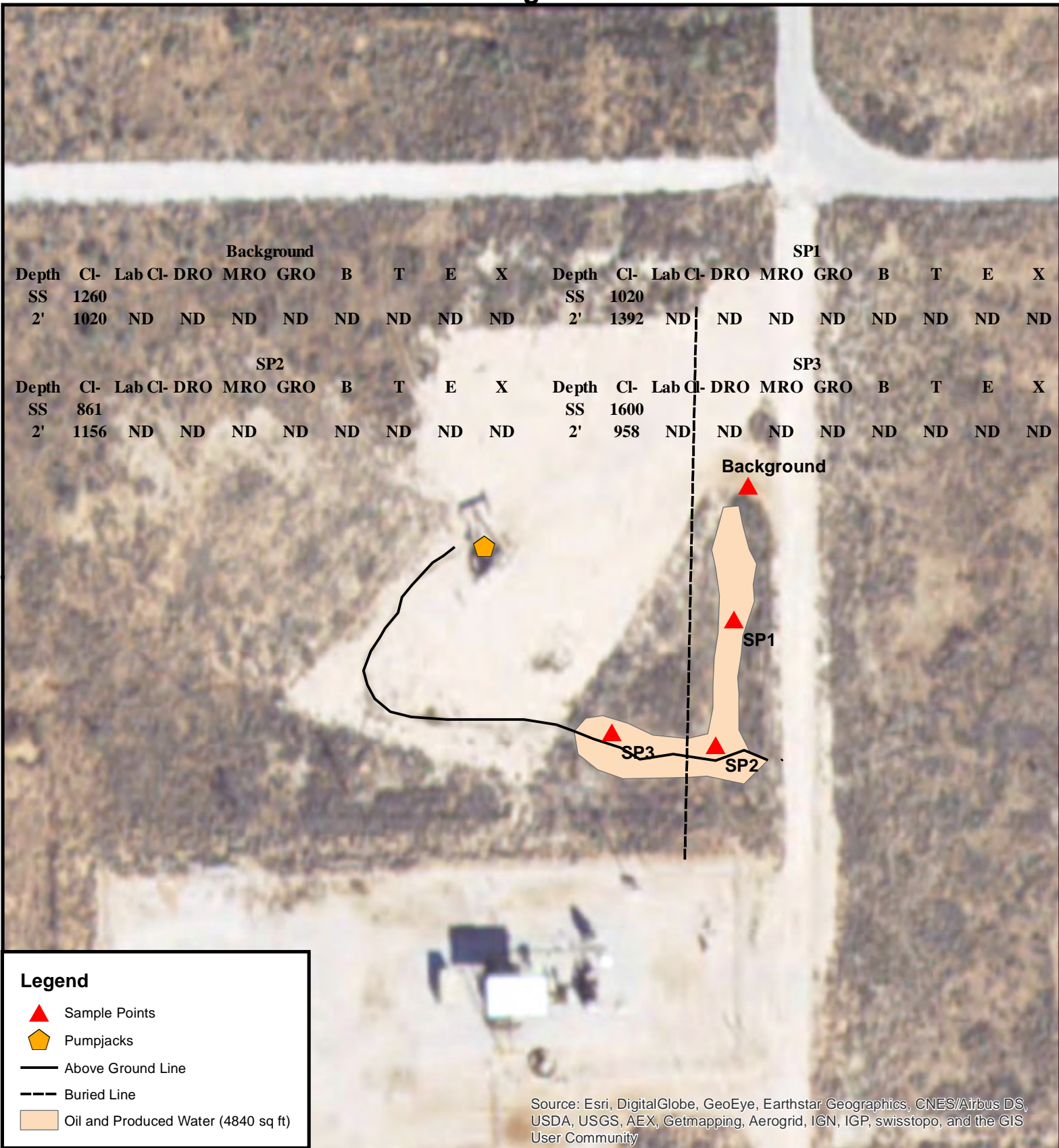
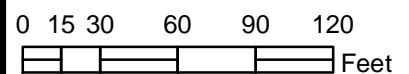


Figure 2
Soil Sample Analytical Results Map

Penroc Oil Corporation
East HobbsSan Andres Unit #207 Lea County, NM
API #: 30-025-37814
NMOCD Case #: 1RP-4631





Appendix A: Previous Closure Report and OCD Response



East Hobbs San Andres #207

CLOSURE REPORT

API No. 30-025-37814

Release Date: February 23, 2017

Unit Letter H, Section 30, Township 18 South, Range 39 East

NMOCD Case #: 1R-4631

March 23, 2017

Prepared by:

Laura Flores

Environmental Department
Diversified Field Service, Inc.

206 W. Snyder

Hobbs, NM 88240

Phone: (575)964-8394

Fax: (575)393-8396

LINN ENERGY

03/23/2017

Olivia Yu
Environmental Specialist
NM Oil Conservation District – Division 1
1625 N French Drive
Hobbs, NM 88240

RE: Linn Energy East Hobbs San Andres Unit #207
UL/H, Section 30, T18S, R39E
API No. 30-015-26612
NMOCD Case #: 2R-3058
NMOCD Score: 10

Ms. Yu,

Linn Energy (Linn) has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located east of Hobbs, NM, in Eddy County. The release resulted from a grass fire, caused by a power line spark. As the fire traveled, it burned the poly flow line, resulting approximately 0.5 barrels of oil and 9 barrels of produced water being released, with none recovered. An initial C-141 was submitted to the NMOCD on February 28, 2017 and approved on March 7, 2017 (Appendix I).

Site Assessment and Delineation

DFSI personnel responded to the release site and scraped the affected area to minimize the environmental impact. On February 28, 2017, DFSI personnel were on site to obtain soil samples (Appendix II). Three sample points and one background sample were collected to 2 ft below ground surface (bgs) and field tested for chlorides. Collection of samples halted at 2 ft bgs due to auger refusal and encountering hard rock. The field samples were submitted to Hall Laboratory of Albuquerque, NM to obtain confirmation, yielding concentrations below detectable limits throughout (Appendix III).

DFSI has conducted a groundwater study of the area and has determined, according to the New Mexico Office of the State Engineer, the average depth to groundwater is 76 ft bgs. Therefore, no eminent danger of groundwater impact or threat to life is anticipated (Appendix IV).

LINN ENERGY

03/23/2017

Conclusion

Due to the completion of removal of impacted soil and laboratory confirmation of soil samples collected yielding low concentrations of all constituents, DFSI, on behalf of Linn Energy, submits the final C-141 (Appendix V) and respectfully requests the closure of the regulatory file for this site.

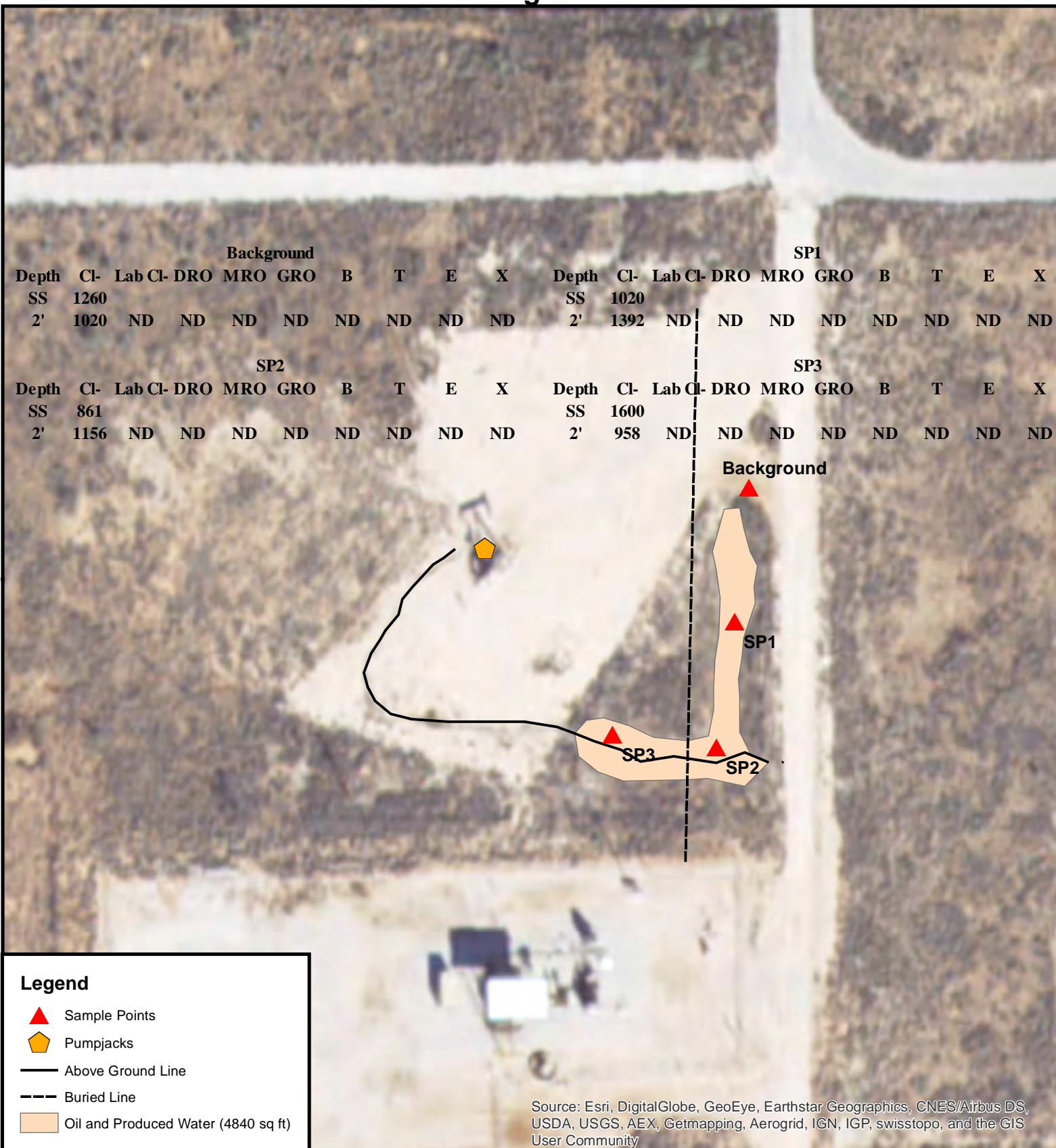
Please feel free to contact me with any questions concerning this closure request.

Sincerely,

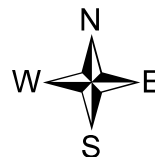


Laura Flores
Diversified Field Services, Inc.
206 West Snyder | Hobbs, NM 88240
Office: (575)964-8394 | Fax: (575)964-8396 | Email: lflores@diversifiedfsi.com

Appendix I – Initial C-141
Appendix II – Site Photos
Appendix III – Laboratory Analysis
Appendix IV – Groundwater Study
Appendix V – Final C-141



Linn
East HobbsSan Andres Unit #207
Lea County, NM
API #: 30-025-37814
NMOCD Case #: 1R-4631



0 15 30 60 90 120
 Feet

Appendix I

INITIAL C-141

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company LINN Operating	Contact Rick Rickman—Aaron Hickert	
Address Hobbs, N.M.	Telephone No. 575-513-8825 432-363-9496	
Facility Name East Hobbs San Andres Unit #207	Facility Type oil	
Surface Owner Private/State	Mineral Owner	API No.30-025-37814

LOCATION OF RELEASE

Unit Letter H	Section 30	Township 18S	Range 39E	Feet from the 2330	North/South Line FNL	Feet from the 1197	East/West Line FEL	County LEA
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Latitude 32.719437

Longitude -103.080925

NATURE OF RELEASE

Type of Release oil and produced water	Volume of Release 9 bbl.	Volume Recovered 0
Source of Release poly flow line	Date and Hour of Occurrence 2-23-17 3:30 pm	Date and Hour of Discovery 2-23-17 4:30 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Maxi Brown NMOCD	
By Whom? Rick Rickman	Date and Hour 4:30 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

RECEIVED

By Olivia Yu at 7:22 am, Mar 07, 2017

Describe Cause of Problem and Remedial Action Taken.*

High winds resulted in power line contacting each other creating sparks. Creating a grass fire, As the fire traveled it burned the poly flow line to LINN EHSAU 207 resulting in a loss of approx. ½ bbl. oil and 9 bbl. water. The well was shut down and shut in until fire department had extinguished the fire, at that time repairs were made and the well returned to service

Describe Area Affected and Cleanup Action Taken.*

**The fire consumed the fluids that escaped from the flow line.
The affected area will be cleaned of debris and sampled for contamination by a third party contractor.
Should unacceptable levels be discovered a remediation plan will be made.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

OIL CONSERVATION DIVISION

Signature: Rick Rickman

Printed Name: Rick Rickman

Title: Production Foreman

E-mail Address: rrickman@linenergy.com

Date: 2-28-17

Phone: 575-513-8825

Approved by Environmental Specialist:

Approval Date:

3/7/2017

Expiration Date:

Conditions of Approval:

see attached directive

Attached ☒

* Attach Additional Sheets If Necessary

1RP-4631

nOY1706627456

pOY1706628045

Appendix II

SITE PHOTOS

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394

East Hobbs San Andres #207

Photo Page



Site prior



Collecting SP1



Collecting background sample

Appendix III

LABORATORY ANALYSIS

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 15, 2017

Rick Rickman
Diversified Field Services, Inc
315 S. Leech St
Hobbs, NM 88240
TEL: (575) 964-8394
FAX

RE: East Hobbs San Andres Unit 207

OrderNo.: 1703486

Dear Rick Rickman:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/9/2017 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 don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1703486

Date Reported: 3/15/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Diversified Field Services, Inc

Client Sample ID: SP1 @ 2'

Project: East Hobbs San Andres Unit 207

Collection Date: 2/28/2017 7:55:00 AM

Lab ID: 1703486-001

Matrix: SOIL

Received Date: 3/9/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	3/14/2017 1:28:21 PM	30685
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/13/2017 1:13:23 PM	30627
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/13/2017 1:13:23 PM	30627
Surr: DNOP	91.7	70-130		%Rec	1	3/13/2017 1:13:23 PM	30627
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/10/2017 8:31:08 PM	30613
Surr: BFB	83.2	54-150		%Rec	1	3/10/2017 8:31:08 PM	30613
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.093		mg/Kg	1	3/10/2017 8:31:08 PM	30613
Benzene	ND	0.023		mg/Kg	1	3/10/2017 8:31:08 PM	30613
Toluene	ND	0.046		mg/Kg	1	3/10/2017 8:31:08 PM	30613
Ethylbenzene	ND	0.046		mg/Kg	1	3/10/2017 8:31:08 PM	30613
Xylenes, Total	ND	0.093		mg/Kg	1	3/10/2017 8:31:08 PM	30613
Surr: 4-Bromofluorobenzene	88.5	66.6-132		%Rec	1	3/10/2017 8:31:08 PM	30613

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Page 1 of 8

Analytical Report

Lab Order 1703486

Date Reported: 3/15/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Diversified Field Services, Inc

Client Sample ID: SP2@2'

Project: East Hobbs San Andres Unit 207

Collection Date: 2/28/2017 8:07:00 AM

Lab ID: 1703486-002

Matrix: SOIL

Received Date: 3/9/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	3/14/2017 2:05:35 PM	30685
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/13/2017 2:27:32 PM	30627
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/13/2017 2:27:32 PM	30627
Surr: DNOP	92.6	70-130		%Rec	1	3/13/2017 2:27:32 PM	30627
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/10/2017 8:57:18 PM	30613
Surr: BFB	83.9	54-150		%Rec	1	3/10/2017 8:57:18 PM	30613
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.092		mg/Kg	1	3/10/2017 8:57:18 PM	30613
Benzene	ND	0.023		mg/Kg	1	3/10/2017 8:57:18 PM	30613
Toluene	ND	0.046		mg/Kg	1	3/10/2017 8:57:18 PM	30613
Ethylbenzene	ND	0.046		mg/Kg	1	3/10/2017 8:57:18 PM	30613
Xylenes, Total	ND	0.092		mg/Kg	1	3/10/2017 8:57:18 PM	30613
Surr: 4-Bromofluorobenzene	91.4	66.6-132		%Rec	1	3/10/2017 8:57:18 PM	30613

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Page 2 of 8

Analytical Report

Lab Order 1703486

Date Reported: 3/15/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Diversified Field Services, Inc

Client Sample ID: SP3@2'

Project: East Hobbs San Andres Unit 207

Collection Date: 2/28/2017 8:17:00 AM

Lab ID: 1703486-003

Matrix: SOIL

Received Date: 3/9/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	3/14/2017 2:18:00 PM	30685
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/13/2017 2:52:11 PM	30627
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/13/2017 2:52:11 PM	30627
Surr: DNOP	92.1	70-130		%Rec	1	3/13/2017 2:52:11 PM	30627
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/10/2017 9:23:25 PM	30613
Surr: BFB	86.3	54-150		%Rec	1	3/10/2017 9:23:25 PM	30613
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.099		mg/Kg	1	3/10/2017 9:23:25 PM	30613
Benzene	ND	0.025		mg/Kg	1	3/10/2017 9:23:25 PM	30613
Toluene	ND	0.050		mg/Kg	1	3/10/2017 9:23:25 PM	30613
Ethylbenzene	ND	0.050		mg/Kg	1	3/10/2017 9:23:25 PM	30613
Xylenes, Total	ND	0.099		mg/Kg	1	3/10/2017 9:23:25 PM	30613
Surr: 4-Bromofluorobenzene	94.9	66.6-132		%Rec	1	3/10/2017 9:23:25 PM	30613

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Page 3 of 8

Analytical Report

Lab Order 1703486

Date Reported: 3/15/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Diversified Field Services, Inc

Client Sample ID: BKGD@2'

Project: East Hobbs San Andres Unit 207

Collection Date: 2/28/2017 11:47:00 AM

Lab ID: 1703486-004

Matrix: SOIL

Received Date: 3/9/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	3/14/2017 2:30:25 PM	30685
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/13/2017 3:16:45 PM	30627
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/13/2017 3:16:45 PM	30627
Surr: DNOP	93.3	70-130		%Rec	1	3/13/2017 3:16:45 PM	30627
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/10/2017 9:49:33 PM	30613
Surr: BFB	82.4	54-150		%Rec	1	3/10/2017 9:49:33 PM	30613
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095		mg/Kg	1	3/10/2017 9:49:33 PM	30613
Benzene	ND	0.024		mg/Kg	1	3/10/2017 9:49:33 PM	30613
Toluene	ND	0.047		mg/Kg	1	3/10/2017 9:49:33 PM	30613
Ethylbenzene	ND	0.047		mg/Kg	1	3/10/2017 9:49:33 PM	30613
Xylenes, Total	ND	0.095		mg/Kg	1	3/10/2017 9:49:33 PM	30613
Surr: 4-Bromofluorobenzene	91.1	66.6-132		%Rec	1	3/10/2017 9:49:33 PM	30613

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Page 4 of 8

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703486
15-Mar-17

Client: Diversified Field Services, Inc
Project: East Hobbs San Andres Unit 207

Sample ID	MB-30685	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions						
Client ID:	PBS	Batch ID:	30685	RunNo:	41363						
Prep Date:	3/14/2017	Analysis Date:	3/14/2017	SeqNo:	1297164	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-30685	SampType:	LCS	TestCode:	EPA Method 300.0: Anions						
Client ID:	LCSS	Batch ID:	30685	RunNo:	41363						
Prep Date:	3/14/2017	Analysis Date:	3/14/2017	SeqNo:	1297165	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	15	1.5	15.00	0	96.7	90	110				

Qualifiers:

* 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

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 5 of 8

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1703486

15-Mar-17

Client: Diversified Field Services, Inc
Project: East Hobbs San Andres Unit 207

Sample ID MB-30627	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 30627	RunNo: 41321								
Prep Date: 3/10/2017	Analysis Date: 3/13/2017	SeqNo: 1294825	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	8.8		10.00		87.5	70	130			

Sample ID LCS-30627	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 30627	RunNo: 41321								
Prep Date: 3/10/2017	Analysis Date: 3/13/2017	SeqNo: 1294826	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.5	63.8	116			
Surr: DNOP	4.5		5.000		89.2	70	130			

Sample ID 1703486-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SP1@2'	Batch ID: 30627	RunNo: 41324								
Prep Date: 3/10/2017	Analysis Date: 3/13/2017	SeqNo: 1295014	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.4	46.99	4.028	88.7	51.6	130			
Surr: DNOP	4.4		4.699		92.8	70	130			

Sample ID 1703486-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SP1@2'	Batch ID: 30627	RunNo: 41324								
Prep Date: 3/10/2017	Analysis Date: 3/13/2017	SeqNo: 1295047	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.9	49.50	4.028	84.1	51.6	130	0.160	20	
Surr: DNOP	4.5		4.950		91.6	70	130	0	0	

Qualifiers:

* 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
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

Page 6 of 8

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1703486

15-Mar-17

Client: Diversified Field Services, Inc
Project: East Hobbs San Andres Unit 207

Sample ID MB-30613	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 30613		RunNo: 41306							
Prep Date: 3/9/2017	Analysis Date: 3/10/2017		SeqNo: 1294532		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	820		1000		81.9	54	150			

Sample ID LCS-30613	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 30613		RunNo: 41306							
Prep Date: 3/9/2017	Analysis Date: 3/10/2017		SeqNo: 1294534		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.2	76.4	125			
Surr: BFB	990		1000		99.4	54	150			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Page 7 of 8

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1703486

15-Mar-17

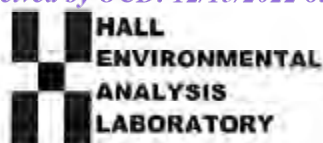
Client: Diversified Field Services, Inc
Project: East Hobbs San Andres Unit 207

Sample ID	MB-30613	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles						
Client ID:	PBS	Batch ID: 30613		RunNo: 41306						
Prep Date:	3/9/2017	Analysis Date: 3/10/2017		SeqNo: 1294570		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		89.9	66.6	132			

Sample ID	LCS-30613		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 30613		RunNo: 41306					
Prep Date:	3/9/2017		Analysis Date: 3/10/2017		SeqNo: 1294577		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.82	0.10	1.000	0	82.2	66.5	120			
Benzene	0.96	0.025	1.000	0	95.7	80	120			
Toluene	0.96	0.050	1.000	0	96.4	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.1	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.6	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.1	66.6	132			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3775 FAX: 505-345-1107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: DIVERSIFIED FIELD SE

Work Order Number: 1703486

RcptNo: 1

Received by/date:

AJ

03/09/17

Logged By: Lindsay Mangin

3/9/2017 9:50:00 AM

Completed By: Lindsay Mangin

3/9/2017 12:30:35 PM

Reviewed By:

AJ

03/09/17

@ 1450

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Yes			

Released to Imaging: 2/13/2023 10:17:34 AM

| Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Project #:

Project Manager:

QA/QC Package

☐ Standard ☐ Level 4 (Full Validation)

RICK RICKMAN

Accreditation

☐ NELAP ☐ Other

Sampler: F. J. SAH RASCON

On Ice: ☒ Yes ☐ No

□ EDD (Type)

Sample Temperature: 1.60

Air Bubbles (Y or N)

Relinquished by:

2/2

Received by:

Date	Time
------	------

Remarks:

EMAIL ALL

Relinquished by:

Received by

Date	Time
------	------

M BURTON
M ALVES
L FLORES
ERASCON

> @DIVERSIFIEDFSI.COM

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

	BTEX + MTBE + TMB's (8021)	X
	BTEX + MTBE + TPH (Gas only)	
	TPH 8015B (GRO / DRO / MRO)	X
	TPH (Method 418.1)	
	EDB (Method 504.1)	
	PAH's (8310 or 8270 SIMS)	
	RCRA 8 Metals	
	Anions (F⁻ , NO ₃ , NO ₂ , PO ₄ , SO ₄)	X
	8081 Pesticides / 8082 PCB's	
	8260B (VOA)	
	8270 (Semi-VOA)	
	Air Bubbles (V or N)	

Appendix IV

GROUNDWATER STUDY

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has been
replaced,
O=orphaned,
C=the file is
closed)











































(quarters are 1=NW 2=NE 3=SW 4=SE)



























(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD	County	Q Q Q					Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
		Sub-basin		64	16	4	Sec								
L 01449		L	LE	2	1	4	19	18S	39E	679769	3623199*		110	45	65
L 01748		L	LE	2	3	1	08	18S	39E	680505	3626840*		125	48	77
L 01925		L	LE			3	20	18S	39E	680683	3622913*		100	51	49
L 02206		L	LE		4	3	19	18S	39E	679275	3622690*		110	60	50
L 02225		L	LE		4	4	07	18S	39E	680020	3625928*		130	62	68
L 02319		L	LE	4	4	3	19	18S	39E	679374	3622589*		90	60	30
L 02354		L	LE	4	4	3	19	18S	39E	679374	3622589*		100	43	57
L 02899		L	LE			1	20	18S	39E	680668	3623718*		121	66	55
L 03386		L	LE				19	18S	39E	679476	3623286*		100	40	60
L 03407		L	LE		4	4	07	18S	39E	680020	3625928*		120	55	65
L 03445		L	LE	4	2	1	20	18S	39E	680961	3623826*		100	51	49
L 03537		L	LE	2	4	3	20	18S	39E	680984	3622818*		102	40	62
L 03537	R	L	LE	2	4	3	20	18S	39E	680984	3622818*		102	40	62
L 03785		L	LE	1	1	1	20	18S	39E	680359	3624019*		100	65	35
L 03823		L	LE	1	2	1	08	18S	39E	680700	3627250*		135	70	65
L 03867		L	LE				20	18S	39E	681085	3623315*		85	12	73
L 04044	R	L	LE	1	1	3	20	18S	39E	680374	3623214*		100	58	42
L 04044 POD2		L	LE	1	1	3	20	18S	39E	680386	3623222		232		
L 04102		L	LE	2	1	3	20	18S	39E	680574	3623214*		105	65	40
L 04401		L	LE		4	3	08	18S	39E	680824	3625943*		100	70	30
L 04526	R	L	LE	1	1	3	20	18S	39E	680280	3626939		100	60	40
L 04526 POD2		L	LE	1	1	3	20	18S	39E	680347	3623243		229		
L 04529		L	LE	2	4	3	20	18S	39E	680984	3622818*		70	51	19
L 04571		L	LE	2	1	3	07	18S	39E	678906	3626408*		209	80	129
L 04571 POD4		L	LE		1	4	07	18S	39E	679610	3626323*		248	107	141
L 04571 S		L	LE	1	1	4	07	18S	39E	679509	3626422*		220	80	140
L 04571 S2		L	LE		1	4	07	18S	39E	679610	3626323*		176	70	106
L 04571 S2	R	L	LE		1	4	07	18S	39E	679610	3626323*		176	70	106
L 04571 S3		L	LE	4	2	2	07	18S	39E	680096	3627035*		223	120	103
L 04571 S4		L	LE	2	1	2	18	18S	39E	679724	3625617*		216	70	146
L 04780		L	LE	1	3	1	07	18S	39E	678623	3626844		266	120	146
L 04780	R	L	LE	1	3	1	07	18S	39E	678623	3626844		266	120	146
L 04780 POD2		L	LE	2	1	2	07	18S	39E	679694	3627228*		202	91	111

L 04814 POD3		L	LE	2	4	3	20	18S	39E	680984	3622818*		150	65	85
L 04856		L	LE		1	3	07	18S	39E	678807	3626309*		210		
L 04982		L	LE		2	3	19	18S	39E	679268	3623093*		100	65	35
L 05268		L	LE	1	1	1	17	18S	39E	680328	3625631*		100	48	52
L 05578		L	LE		3	3	20	18S	39E	680482	3622712*		100	50	50
L 06274		L	LE			3	20	18S	39E	680683	3622913*		75	50	25
L 06314		L	LE	3	1	3	20	18S	39E	680374	3623014*		188	65	123
L 06732		L	LE	4	1	3	20	18S	39E	680574	3623014*		125	60	65
L 06793	R	L	LE			3	20	18S	39E	680683	3622913*		110	94	16
L 06793 POD2		L	LE			3	20	18S	39E	680683	3622913*		150	85	65
L 06833	R	L	LE		1	3	20	18S	39E	680475	3623115*		172	65	107
L 06833 POD2		L	LE	2	1	3	20	18S	39E	680584	3623248		238	140	98
L 07233		L	LE	4	4	3	20	18S	39E	680984	3622618*		123	62	61
L 07501		L	LE	3	3	3	20	18S	39E	680381	3622611*		120	62	58
L 07571		L	LE	3	2	3	20	18S	39E	680776	3623021*		110	70	40
L 07674		L	LE	3	2	3	20	18S	39E	680776	3623021*		150	80	70
L 07755		L	LE	3	1	3	20	18S	39E	680374	3623014*		108	54	54
L 07763	R	L	LE		4	3	20	18S	39E	680745	3622510		128	53	75
L 07763 POD2		L	LE		4	3	20	18S	39E	680745	3622510		227	140	87
L 07767		L	LE	3	2	3	20	18S	39E	680776	3623021*		130	70	60
L 08022		L	LE			4	20	18S	39E	681488	3622927*		150	70	80
L 08196 POD2		L	LE	4	3	3	20	18S	39E	680581	3622611		272		
L 08305		L	LE				20	18S	39E	681085	3623315*		150	85	65
L 08326	R	L	LE	2	4	3	20	18S	39E	680948	3622871		150	60	90
L 08326 POD2		L	LE	4	2	4	20	18S	39E	680948	3622871		250	80	170
L 08515		L	LE		3	4	20	18S	39E	681287	3622726*		120	63	57
L 08850		L	LE	1	1	2	07	18S	39E	679494	3627228*		150	65	85
L 09860		L	LE	1	1	3	20	18S	39E	680374	3623214*		150	68	82
L 10005		L	LE			3	20	18S	39E	680683	3622913*		150		
L 10012		L	LE		3	3	19	18S	39E	678873	3622683*		140	87	53
L 10104		L	LE	2	4	3	20	18S	39E	680984	3622818*		133	67	66
L 10104	R	L	LE	2	4	3	20	18S	39E	680984	3622818*		133	67	66
L 10195		L	LE			3	20	18S	39E	680683	3622913*		150	20	130
L 10428		L	LE	1	2	3	20	18S	39E	680776	3623221*		160	60	100
L 10528		L	LE	2	1	2	07	18S	39E	679694	3627228*		170	78	92
L 10547		L	LE		3	3	20	18S	39E	680482	3622712*		158	80	78
L 10779		L	LE		3	4	19	18S	39E	679678	3622697*		198	90	108
L 10831		L	LE			3	20	18S	39E	680683	3622913*		150	78	72
L 10904		L	LE		4	3	19	18S	39E	679275	3622690*		198	90	108
L 11068		L	LE			3	20	18S	39E	680683	3622913*		190		
L 11158 POD1		L	LE	4	1	3	08	18S	39E	680513	3626237*		223	100	123
L 11158 POD2		L	LE	1	2	3	08	18S	39E	680715	3626444*		223	100	123

L 11158 POD3	L	LE	1	3	3	08	18S	39E	680321	3626034*		230	100	130
L 11158 POD4	L	LE	4	4	4	07	18S	39E	680119	3625827*		230	100	130
L 11167	L	LE	2	2	4	20	18S	39E				200		
L 11464	L	LE	4	4	4	19	18S	39E	680179	3622604*		228		
L 11497	L	LE	4	4	3	18	18S	39E	679345	3624201*		236		
L 11801	L	LE	4	4	4	19	18S	39E	680179	3622604*		230		
L 11815	L	LE	4	4	3	20	18S	39E	680984	3622618*		187	105	82
L 11882 POD1	L	LE	4	3	3	19	18S	39E	678972	3622582*		202	112	90
L 11933 POD1	L	LE	3	1	3	20	18S	39E	680374	3623014*		220		
L 11956 POD1	L	LE	2	2	4	20	18S	39E	681194	3623234		235		
L 11965 POD1	L	LE		1	2	07	18S	39E	680525	3627337		201		
L 12061 POD1	L	LE	3	3	3	20	18S	39E	680349	3622580		218		
L 12183 POD1	L	LE	2	1	4	20	18S	39E	681310	3623146		205	90	115
L 12339 POD1	L	LE	3	2	3	20	18S	39E	680872	3623027		251		
L 12370 POD1	L	LE	2	4	4	18	18S	39E	680253	3624384		243		
L 12469 POD1	L	LE	3	3	3	20	18S	39E	680479	3622703		200		
L 12500 POD1	L	LE	4	1	3	20	18S	39E	680496	3623067		232		
L 12529 POD1	L	LE	4	4	3	20	18S	39E	681099	3622554		225		
L 12733 POD1	L	LE	1	4	3	20	18S	39E	680882	3622916		195		
L 12810 POD1	L	LE	4	4	3	20	18S	39E	680976	3622715		242		
L 12854 POD1	L	LE	1	1	1	19	18S	39E	678675	3623980		215		
L 13390 POD1	L	LE	3	4	3	20	18S	39E	680842	3622678		275	142	133
L 13505 POD1	L	LE	1	4	3	20	18S	39E	680896	3622855		254	156	98
L 13558 POD1	L	LE	3	2	3	20	18S	39E	680881	3623101		188		
L 13560 POD1	L	LE	3	2	3	20	18S	39E	680881	3623101		255	155	100
L 14108 POD1		LE	2	3	2	18	18S	39E	679776	3625136		165	83	82
L 14122 POD1		LE	2	1	3	20	18S	39E	680670	3623211		250	90	160

Average Depth to Water: 75 feet

Minimum Depth: 12 feet

Maximum Depth: 156 feet

Record Count: 102

PLSS Search:

Section(s): 7, 8, 17, 18, 19, Township: 18S Range: 39E
20

*UTM location was derived from PLSS - see Help

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.

3/21/17 2:38 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)


























(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column	
POD Number	Code														
L 01341		L	LE	1	1	1	12	18S	38E	677081	3627183*		78	56	22
L 01409		L	LE		2	1	12	18S	38E	677585	3627091*		170	65	105
L 01409	R	L	LE		2	1	12	18S	38E	677585	3627091*		170	65	105
L 01409 POD3		L	LE	4	4	1	12	18S	38E	677691	3626588*		193	65	128
L 01409 S		L	LE	3	4	1	12	18S	38E	677491	3626588*				
L 02208		L	LE		4	3	24	18S	38E	677666	3622660*		103	64	39
L 02214		L	LE	4	1	2	12	18S	38E	678086	3626998*		94	70	24
L 02287		L	LE	4	1	2	12	18S	38E	678086	3626998*		180	78	102
L 02287 S		L	LE	1	2	2	12	18S	38E	678178	3626990		298	130	168
L 02287 S2		L	LE	3	4	2	12	18S	38E	678286	3626514		258	137	121
L 02525		L	LE		3	3	13	18S	38E	677234	3624264*		60	35	25
L 02906		L	LE	2	2	4	12	18S	38E	678503	3626400*		180	63	117
L 02906 POD3		L	LE	1	2	4	12	18S	38E	678215	3626487		195		
L 02906 S		L	LE	2	3	4	12	18S	38E	678108	3625990*		250	90	160
L 03812		L	LE	3	1	2	12	18S	38E	677886	3626998*		100	55	45
L 03828		L	LE	3	3	4	24	18S	38E	677967	3622567*		115	85	30
L 04889		L	LE	3	3	4	12	18S	38E	677908	3625790*		125		
L 06912		L	LE	4	4	1	12	18S	38E	677691	3626588*		150		
L 07420		L	LE	1	1	1	12	18S	38E	677081	3627183*		150	80	70
L 08816	R	L	LE	3	3	4	12	18S	38E	677908	3625790*		155	70	85
L 09155	R	L	LE	3	3	4	12	18S	38E	677908	3625790*		155	80	75
L 09155 POD2		L	LE	3	3	4	12	18S	38E	677968	3625788		253	113	140
L 10931		L	LE			4	24	18S	38E	678269	3622869*		210		
L 12617 POD1		L	LE	2	2	1	12	18S	38E	677789	3627298		250	101	149
L 12834 POD1		L	LE	1	1	3	13	18S	38E	677100	3624691		252		

Average Depth to Water: 79 feet

Minimum Depth: 35 feet

Maximum Depth: 137 feet

Record Count: 25

PLSS Search:

Section(s): 12, 13, 24

Township: 18S

Range: 38E

*UTM location was derived from PLSS - see Help

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.

3/21/17 2:39 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Appendix V

FINAL C-141

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394

Page 38 of 64
Received by OGD: 12/15/2022 8:51:25 AM
Released to Imaging: 2/13/2023 10:17:34 AM

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Linn Energy	Contact: Aaron Hickert	
Address: 2130 W Bender, Hobbs, NM 88240	Telephone No. 432-363-9496	
Facility Name: East Hobbs San Andres Unit #207	Facility Type: Oil	
Surface Owner: Private / State	Mineral Owner:	API No. 30-025-37814

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from	East/West Line	County
H	30	18S	39E	2330	North	1197	East	Lea

Latitude: 32.719437 Longitude: -103.080925

NATURE OF RELEASE

Type of Release: Oil and Produced Water	Volume of Release: 0.5 bbls / 9 bbls	Volume Recovered: 0
Source of Release: Poly flowline	Date and Hour of Occurrence 02/23/2017 3:30 PM	Date and Hour of Discovery 02/23/2017 4:30 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Maxey Brown - NMOCD	
By Whom? Rick Rickman	Date and Hour: 4:30 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

High winds resulted in power line contacting each other, creating sparks and grass fire. As the fire traveled, it burned the poly flowline to Linn EHSAU 207, resulting in a loss of approximately 0.5 bbls of oil and 9 bbls of produced water. The well was shut down and shut in until fire department extinguished the fire. At that time, repairs were made and the well returned to service. The fire consumed the fluids that escaped from the flow line.

Describe Area Affected and Cleanup Action Taken.

DFSI personnel responded to the release site and scraped the affected area to minimize the environmental impact. On February 28, 2017, DFSI personnel were on site to obtain soil samples. Three sample points and one background sample were collected to 2 ft below ground surface (bgs) and field tested for chlorides. Collection of samples halted at 2 ft bgs due to auger refusal and encountering hard rock. The field samples were submitted to Hall Laboratory of Albuquerque, NM to obtain confirmation, yielding concentrations below detectable limits throughout.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Aaron Hickert	Approved by Environmental Specialist:	
Title: Sr EH&S Representative	Approval Date:	Expiration Date:
E-mail Address: ahickert@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 03/22/2017 Phone: 432-363-9496		

Attach Additional Sheets If Necessary

From: [Yu, Olivia, EMNRD](#)
To: "Laura Flores"; [Oberding, Tomas, EMNRD](#)
Cc: [Michael Burton](#); [Hickert, Aaron](#); TButters@linenergy.com
Subject: RE: Linn - East Hobbs San Andres Unit #207 (1R-4631) Closure Report
Date: Thursday, June 1, 2017 12:26:00 PM

Dear Ms. Flores:

Note: Incorrect information on pg. 1: the API well #, Case #, county.

Please address these concerns regarding the closure report for 1RP-4631.

1. Due to the wide discrepancy between field and laboratory chloride values, proximity of numerous wells within 1000 ft. radius, and depth to groundwater, NMOCD requests additional vertical delineation. Vertically delineate to a minimum of 5 ft. bgs and maintain \leq 250 mg/kg chloride levels in field and laboratory tests. At any depth the permissible chloride level is exceeded, vertical delineation extends a further 5 ft. in depth. Horizontally delineate edge of release until 600 mg/kg is obtained, which extend to include the background sample.
2. NMOCD RRALs are 10 mg/kg for Benzene, 50 mg/kg for BTEX, and 100 mg/kg for TPH.

Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Laura Flores [<mailto:lflores@diversifiedfsi.com>]
Sent: Thursday, March 23, 2017 2:41 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: Michael Burton <mburton@diversifiedfsi.com>; Hickert, Aaron <AHickert@linenergy.com>; TButters@linenergy.com
Subject: Linn - East Hobbs San Andres Unit #207 (1R-4631) Closure Report

Ms. Yu,

Attached is the Closure Report for the East Hobbs San Andres Unit #207 (1R-4631) site.

Please let us know if you have any questions.

Thank you,

Laura Flores
Report Writer
Environmental Department
Diversified Field Service, Inc.
206 W Snyder | Hobbs, NM 88240
Phone: 575.964.8394 | Fax: 575.964.8396



Appendix B: Laboratory Analytical Reports



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 26, 2022

CINDY CRAIN

CRAIN ENVIROMENTAL

2925 E. 17TH ST.

ODESSA, TX 79761

RE: EHS AU # 207

Enclosed are the results of analyses for samples received by the laboratory on 09/21/22 14:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

CRAIN ENVIROMENTAL
CINDY CRAIN
2925 E. 17TH ST.
ODESSA TX, 79761
Fax To:

Received: 09/21/2022
Reported: 09/26/2022
Project Name: EHSAU # 207
Project Number: PENROC
Project Location: LEA CO., NM

Sampling Date: 09/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 1 (H224391-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2022	ND	1.98	98.9	2.00	0.312	
Toluene*	<0.050	0.050	09/23/2022	ND	2.22	111	2.00	0.477	
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	2.10	105	2.00	0.739	
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.45	108	6.00	2.12	
Total BTX	<0.300	0.300	09/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	183	91.3	200	2.81	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	196	97.8	200	7.23	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 83.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.3 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CRAIN ENVIROMENTAL
CINDY CRAIN
2925 E. 17TH ST.
ODESSA TX, 79761
Fax To:

Received: 09/21/2022
Reported: 09/26/2022
Project Name: EHSAU # 207
Project Number: PENROC
Project Location: LEA CO., NM

Sampling Date: 09/21/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 2 (H224391-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2022	ND	1.98	98.9	2.00	0.312	
Toluene*	<0.050	0.050	09/23/2022	ND	2.22	111	2.00	0.477	
Ethylbenzene*	<0.050	0.050	09/23/2022	ND	2.10	105	2.00	0.739	
Total Xylenes*	<0.150	0.150	09/23/2022	ND	6.45	108	6.00	2.12	
Total BTEx	<0.300	0.300	09/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2022	ND	183	91.3	200	2.81	
DRO >C10-C28*	<10.0	10.0	09/22/2022	ND	196	97.8	200	7.23	
EXT DRO >C28-C36	<10.0	10.0	09/22/2022	ND					

Surrogate: 1-Chlorooctane 83.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.1 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

+ Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 11, 2022

CINDY CRAIN

CRAIN ENVIROMENTAL

2925 E. 17TH ST.

ODESSA, TX 79761

RE: EHS AU # 207

Enclosed are the results of analyses for samples received by the laboratory on 11/10/22 9:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CRAIN ENVIROMENTAL
CINDY CRAIN
2925 E. 17TH ST.
ODESSA TX, 79761
Fax To:

Received: 11/10/2022
Reported: 11/11/2022
Project Name: EHS AU # 207
Project Number: PENROC
Project Location: LEA CO., NM

Sampling Date: 11/08/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SP - 3 (2') (H225318-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/11/2022	ND	416	104	400	3.77		

Sample ID: SP - 3 (3') (H225318-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/11/2022	ND	416	104	400	3.77	

Sample ID: SP - 3 (4') (H225318-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/11/2022	ND	416	104	400	3.77	

Sample ID: SP - 3 (5') (H225318-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/11/2022	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CRAIN ENVIROMENTAL
CINDY CRAIN
2925 E. 17TH ST.
ODESSA TX, 79761
Fax To:

Received: 11/10/2022
Reported: 11/11/2022
Project Name: EHSAU # 207
Project Number: PENROC
Project Location: LEA CO., NM

Sampling Date: 11/08/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SP - 2 (2') (H225318-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/11/2022	ND	416	104	400	3.77	

Sample ID: SP - 2 (3') (H225318-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/11/2022	ND	416	104	400	3.77		

Sample ID: SP - 2 (4') (H225318-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/11/2022	ND	432	108	400	3.77		

Sample ID: SP - 2 (5') (H225318-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/11/2022	ND	432	108	400	3.77		

Sample ID: SP - 1 (2') (H225318-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/11/2022	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CRAIN ENVIROMENTAL
CINDY CRAIN
2925 E. 17TH ST.
ODESSA TX, 79761
Fax To:

Received: 11/10/2022
Reported: 11/11/2022
Project Name: EHSAU # 207
Project Number: PENROC
Project Location: LEA CO., NM

Sampling Date: 11/08/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SP - 1 (3') (H225318-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/11/2022	ND	432	108	400	3.77		

Sample ID: SP - 1 (4') (H225318-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/11/2022	ND	432	108	400	3.77		

Sample ID: SP - 1 (5') (H225318-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/11/2022	ND	432	108	400	3.77	

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Grain Environmental Project Manager: Cindy Cain Address: 2925 E. 17th St. City: Odessa State: TX Zip: 79761 Phone #: (575) 441-7244 Fax #: - Project #: - Project Owner: Percec Project Name: EHS AU # 207 Project Location: Lea Co. NM Sample Name: Cindy Cain				P.O. #: Company: Percec Attn: Merch Merchant Address: City: Hobbs State: Zip: Phone #: (575) 431-7450 Fax #: -			
BILL TO				ANALYSIS REQUEST			
FOR LAB USE ONLY							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.			
H225318				# CONTAINERS			
				GROUNDWATER			
				WASTEWATER			
				SOIL			
				OIL			
				SLUDGE			
				OTHER :			
				ACID/BASE:			
				ICE / COOL			
				OTHER :			
				DATE		TIME	
1		SP-3 (0-6")		11/8/22		0805	
2		SP-3 (1')				0807	
3		SP-3 (2')				0810	
4		SP-3 (3')				0814	
5		SP-3 (4')				0821	
6		SP-3 (5')				0827	
7		SP-2 (1')				0832	
8		SP-2 (2')				0834	
9		SP-3 (3')				0840	
10		SP-3 (4')				0844	
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Relinquished By:		Date:		Received By:		Verbal Result:	
Cindy Cain		11/10/22		Sheddieque		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
Relinquished By:		Date:		Received By:		All Results are emailed. Please provide Email address:	
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact		(Initials)	
		5.52		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Turnaround Time:		Standard		Bacteria (only)		Sample Condition	
		KUSH		<input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Corrected Temp. °C	

FOR INFORMATION 3-3-07710122

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Brain Environmental</u>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Lindy Crain</u>		Company: <u>Perce</u>					
Address: <u>2925 E. 17th St.</u>		Attn: <u>Merch Merchant</u>					
City: <u>Odessa</u>		State: <u>TX</u> Zip: <u>79761</u>					
Phone #: <u>(575) 441-7244</u> Fax #: <u>-</u>		Address:					
Project #: <u>-</u> Project Owner: <u>Perce</u>		City: <u>Hobbs</u>					
Project Name: <u>EHSAU # 207</u>		State: <u>ZIP:</u>					
Project Location: <u>Lea Co. NM</u>		Phone #: <u>(575) 631-7450</u>					
Sampler Name: <u>Lindy Crain</u>		Fax #:					
FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING	
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS	
GROUNDWATER		WASTEWATER		SOIL		OIL	
SLUDGE		OTHER :		ACID/BASE:		ICE / COOL	
OTHER :		DATE		TIME			
H2C5318		11/8/22		0852		Chlorides	
11 SP-2 (5')		0855		0857		HOLD	
12 SP-1 (0-6")		0857		0903			
13 SP-1 (1')		0903		0909			
14 SP-2 (2')		0909		0914			
15 SP-2 (3')		0914		0923			
16 SP-2 (4')		0923					
17 SP-2 (5')							
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Relinquished By: <u>Lindy Crain</u>		Date: <u>11/10/22</u>		Received By: <u>Stecherquerry</u>	
Relinquished By: <u>Lindy Crain</u>		Date: <u>11/10/22</u>		Time: <u>911</u>		Received By: <u>Stecherquerry</u>	
Delivered By: (Circle One)		Observed Temp. °C <u>10.1</u>		Sample Condition		CHECKED BY: <u>(initials)</u>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>5.54</u>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
				Bacteria (only) Sample Condition		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
				Corrected Temp. °C			

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com



Appendix C: Photographic Documentation

Photographic Log
Penroc Oil Corporation
EHSAU #207
August 31, 2022



EHS AU #207 well sign



View to NW of possible staining to S of EHS AU #207 well



View to SE of barren area to N of EHS AU #207 well



View to SW of EHS AU #207 well pad



View to NW of barren area to S of EHS AU #207 well



View to NW of well EHS AU #207 well pad

Photographic Log
Penroc Oil Corporation
EHSAU #207
November 8, 2022



View of test hole S-3



View of test hole S-2



View of test hole S-1



View to SE of vegetation at former release area



Appendix D: Final C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

X Initial Report ☒ Final Report

Name of Company LINN Operating	Contact Rick Rickman—Aaron Hickert
Address Hobbs, N.M.	Telephone No. 575-513-8825 432-363-9496
Facility Name East Hobbs San Andres Unit #207	Facility Type oil

Surface Owner Private/State	Mineral Owner	API No.30-025-37814
-----------------------------	---------------	---------------------

LOCATION OF RELEASE

Unit Letter H	Section 30	Township 18S	Range 39E	Feet from the 2330	North/South Line FNL	Feet from the 1197	East/West Line FEL	County LEA
------------------	---------------	-----------------	--------------	-----------------------	-------------------------	-----------------------	-----------------------	---------------

Latitude 32.719437 Longitude -103.080925

NATURE OF RELEASE

Type of Release oil and produced water	Volume of Release 9 bbl.	Volume Recovered 0
Source of Release poly flow line	Date and Hour of Occurrence 2-23-17 3:30 pm	Date and Hour of Discovery 2-23-17 4:30 pm
Was Immediate Notice Given? X Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Maxi Brown NMOCD	
By Whom? Rick Rickman	Date and Hour 4:30 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes X No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

RECEIVED

By Olivia Yu at 7:22 am, Mar 07, 2017

Describe Cause of Problem and Remedial Action Taken.*

High winds resulted in power line contacting each other creating sparks. Creating a grass fire, As the fire traveled it burned the poly flow line to LINN EHSAU 207 resulting in a loss of approx. ½ bbl. oil and 9 bbl. water. The well was shut down and shut in until fire department had extinguished the fire, at that time repairs were made and the well returned to service

Describe Area Affected and Cleanup Action Taken.*

The fire consumed the fluids that escaped from the flow line.
The affected area will be cleaned of debris and sampled for contamination by a third party contractor.
Should unacceptable levels be discovered a remediation plan will be made.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

OIL CONSERVATION DIVISION

Signature: Rick Rickman

Printed Name: Rick Rickman

Title: Production Foreman

E-mail Address: rrickman@linnenergy.com

Date: 2-28-17

Phone: 575-513-8825

Approved by Environmental Specialist:

Approval Date:

3/7/2017

Expiration Date:

Conditions of Approval:

see attached directive

Attached ☒

* Attach Additional Sheets If Necessary

1RP-4631

nOY1706627456

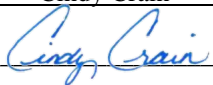
pOY1706628045

Incident ID	nOY1706627456
District RP	1RP-4631
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? No information available	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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.	
Printed Name: <u>Cindy Crain</u>	Title: <u>Agent for Penroc Oil Corporation</u>
Signature: <u></u>	Date: <u>12/13/22</u>
email: <u>cindy.crain@gmail.com</u>	Telephone: <u>(575) 441-7244</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	nOY1706627456
District RP	1RP-4631
Facility ID	
Application ID	

Site Assessment/Characterization

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?	<u>75</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody


If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nOY1706627456
District RP	1RP-4631
Facility ID	
Application ID	

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.

Printed Name: Cindy Crain Title: Agent for Penroc Oil CorporationSignature:  Date: 12/13/22email: cindy.crain@gmail.com Telephone: (575) 441-7244**OCD Only**Received by: Jocelyn Harimon Date: 12/15/2022

Incident ID	nOY1706627456
District RP	1RP-4631
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	nOY1706627456
District RP	1RP-4631
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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.

Printed Name: Cindy Crain Title: Agent for Penroc Oil Corporation

Signature:  Date: 12/13/22

email: cindy.crain@gmail.com Telephone: (575) 441-7244

OCD Only

Received by: Jocelyn Harimon Date: 12/15/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 2/13/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist

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

CONDITIONS

Action 167285

CONDITIONS

Operator: PENROC OIL CORP P.O. Box 2769 Hobbs, NM 882412769	OGRID: 17213
	Action Number: 167285
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/13/2023