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ENVIRONMENTAL SUPERVISOR
DIRECT: (432) 818-1615
E-MAIL: DAVID.FEATHER@APACHECORP.COM

1 RP-4173
NKJ1603954339

October 1, 2019

Mr. Bradford Billings
State of New Mexico Oil Conservation Division
1220 South St Francis Drive
Santa Fe, NM 87505

RE: 1RP-4173 DC Hardy Battery

Mr. Billings,

In compliance with 19.15.29.15(B) NMAC and the agreement submitted by Apache Corporation on November 8, 2018, Apache Corporation is submitting information related to deferment request for the release occurring April 10, 2012. Apache is respectfully submitting the deferment request for your approval. Unless further information is requested by NMOCD, Apache Corporation considers this release deferred.

If there are any questions, please feel free to contact me by telephone at 432-818-1615 or by e-mail at David.Feather@ApacheCorp.com.

Sincerely,

A handwritten signature in blue ink, appearing to read "David Feather".

David Feather
Environmental Supervisor
Apache Corporation - Permian Basin Region

Attachment: Deferment Report Dated August 30, 2019

1RP-4173
DELINEATION AND DEFERRAL REPORT
DC Hardy Battery
Crude Oil Release
Lea County, New Mexico

Latitude: N 32.45886°
Longitude: W 103.18070°

LAI Project No. 19-0112-05

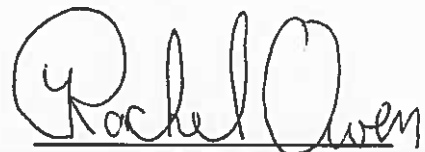
August 30, 2019

Prepared for:
Apache Corporation
2350 W. Marland Blvd
Hobbs, New Mexico 88240

Prepared by:
Larson & Associates, Inc.
507 North Marlenfeld Street, Suite 205
Midland, Texas 79701



Mark J. Larson, P.G.
Certified Professional Geologist #10490



Rachel E. Owen
Sr. Geoscientist

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1.0 INTRODUCTION

Larson & Associates, Inc. (LAI) has prepared this delineation and deferral report on behalf of Apache Corporation (Apache) for submittal to the New Mexico Oil Conservation (OCD) District I for a crude oil release at the DC Hardy Battery located in Unit P (SE/4, SE/4), Section 20, Township 21 South, Range 37 East in Lea County, New Mexico. The geodetic position is North 32.45886° and West -103.18070°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The release occurred on April 10, 2012, due to a lightning strike that shut down power to the transfer pump causing the tank to overflow. The failure allowed for approximately 10 barrels (bbls) of crude oil to be released. Approximately 8 bbls of crude oil were recovered. The fluid was contained inside the earthen berm around the southeastern corner of the Facility. The initial C-141 was submitted on April 18, 2012, and assigned remediation permit number of 1RP-4173.

Initial sampling was conducted by Rice Environmental Consulting & Safety, LLC (RECS) on April 10, 2012. Soil samples were collected from two (2) locations (Point #1 and Point #2) in the spill area at 0, 0.5, 1, and 1.5 feet below ground surface (bgs). The samples were delivered to Cardinal Laboratories located in Hobbs, New Mexico, and analyzed for gasoline range organics (GRO), diesel range organics (DRO), and chloride by EPA SW-846 Method 8015 and titration method SM4500 CL-B, respectively. Chloride reported below the delineation level of 600 milligrams per kilogram (mg/Kg) for all soil samples. GRO and DRO concentrations reported above remediation action levels of 2,500 mg/Kg at Sample Point #1, 0 feet bgs (12,800 mg/Kg and 42,200 mg/Kg) and Sample Point #2, 0 feet bgs (14,400 mg/Kg and 49,200 mg/Kg). Appendix B presents the RECS data.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,494 feet above mean sea level (msl);
- The topography slopes gently towards the southeast;
- There are no surface water features within 1,000 feet of the Site;
- The soils are designated as "Pyote and Maljamar fine sands, 0 to 3 percent slopes", consisting of 0 to 24 inches of fine sand underlain by 24 to 50 inches of sandy clay loam and 50 to 60 inches of cemented material (caliche);
- The surface geology consists of Eolian and piedmont deposits (Holocene to middle Pleistocene) - interlayered eolian sands and piedmont-slope deposits;
- Groundwater occurs in the Ogallala formation at 65 bgs based on the New Mexico Office of the State Engineer (NMOSE) website;
- According to the New Mexico Office of the State Engineer (OSE) website the nearest groundwater well is located in Unit O, Section 20, Township 21 South, Range 37 East, approximately 0.25 miles or about 1,336.32 feet south of the Site.

1.3 Remediation Levels

The following remediation standards are based on closure criteria for soils impacted by a release as presented in Table 1 of 19.15.29 NMAC:

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 2,500 mg/Kg
- Chloride 10,000 mg/Kg

Further, 19.15.29.13 NMAC (Restoration, Reclamation and Re-Vegetation) requires the operator to restore the impacted surface area that existed prior to the release or their final land use.

2.0 DELINEATION

On June 19, 2019, Apache personnel collected additional soil samples at Point #1 (SP-1) and Point #2 (SP-2) using a contracted backhoe. Samples were collected at 2, 3, and 6 feet bgs at SP-1 and 3 feet bgs at SP-2. The samples were delivered to Cardinal Laboratories in Hobbs, NM and analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA SW-846 Method 8021B and total petroleum hydrocarbons (TPH), including gasoline range organics (C6-C12), diesel range organics (>C12-C28) and oil range organics (>C28-C35) by EPA SW-846 Method 8015M.

Benzene and BTEX were below the OCD remediation levels of 10 mg/Kg and 50 mg/Kg, respectively. TPH was reported above the remediation levels of 2,500 mg/Kg at SP-1, 3 feet bgs (8,380 mg/Kg), and SP-1, 6 feet bgs (5,146 mg/Kg). TPH was reported below the remediation level (2,500 mg/Kg) in sample SP-2, 3 feet bgs.

On July 29, 2019 and August 19, 2019, LAI personnel used direct push technology (DPT) to vertically delineate the spill directly south of the tank inside the firewall (Sample Point #3). Soil samples were collected every 5 feet to 20 feet bgs. The samples were delivered by Apache personnel to Cardinal Laboratories in Hobbs, New Mexico, and were analyzed for BTEX and TPH, including gasoline range organics (C6-C12), diesel range organics (>C12-C28) and oil range organics (>C28-C35) by EPA SW-846 Methods 8021B and 8015M, respectively. Soil samples collected at 15 and 20 feet bgs were analyzed for chloride by titration method SM4500CL-B. The laboratory reported benzene, BTEX, and chloride below the remediation limits of 10 mg/Kg, 50 mg/kg, and 2,500 mg/Kg, respectively. TPH was reported above the remediation action level of 2,500 mg/Kg in sample SP-3, 10 feet bgs (3,207 mg/Kg). TPH reported below the remediation action level at SP-3, 15 feet bgs (<10 mg/Kg). Table 1 presents the soil sample analytical data summary.

Figure 2 presents the soil sampling locations. Appendix C presents the laboratory report. Appendix D presents the site photographs.

3.0 DEFERRAL REQUEST

Apache has delineated benzene, BTEX, TPH and chloride below the remediation limits of 10 mg/Kg, 50 mg/Kg, 2,500 mg/Kg and 10,000 mg/Kg, respectively. Due to the spill area being in close proximity to production equipment, Apache respectfully requests a deferral to complete remediation at the DC Hardy (1RP-4173) until abandonment.

Tables

Table 1
Delineation Soil Sample Analytical Data Summary
Apache Corporation, DC Hardy Battery
Lea County, New Mexico
32.45886 North -103.18070 West

Page 1 of 1

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				10	50				2,500	10,000
SP-1	2	6/19/2019	In-Situ	<0.050	<0.300	<10.0	30.3	59	89.4	—
	3	6/19/2019	In-Situ	0.91	29.20	1,320	5,820	1,240	8,380	—
	6	6/19/2019	In-Situ	0.740	17.40	611	3,570	965	5,146	—
SP-2	3	6/19/2019	In-Situ	<0.050	<0.300	<10.0	236	64.0	300	—
SP-3	5	7/29/2019	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	—
	10	7/29/2019	In-Situ	<0.050	<0.300	<50.0	2,250	957.0	3,207	—
	15	8/19/2019	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
	20	8/19/2019	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	48.0

Notes: analysis performed by Cardinal Laboratories, Hobbs, New Mexico by EPA SW-846 Methods 8021B (BTEX), 8015M (TPH), and SM4500CL-B (chloride)

Depth in feet below ground surface (bgs)

mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)

<: denotes concentration less than analytical method reporting limit

Bold and Highlighted exceeds OCD remediation levels

Figures

Figure 1

Figure 2

Figure 3

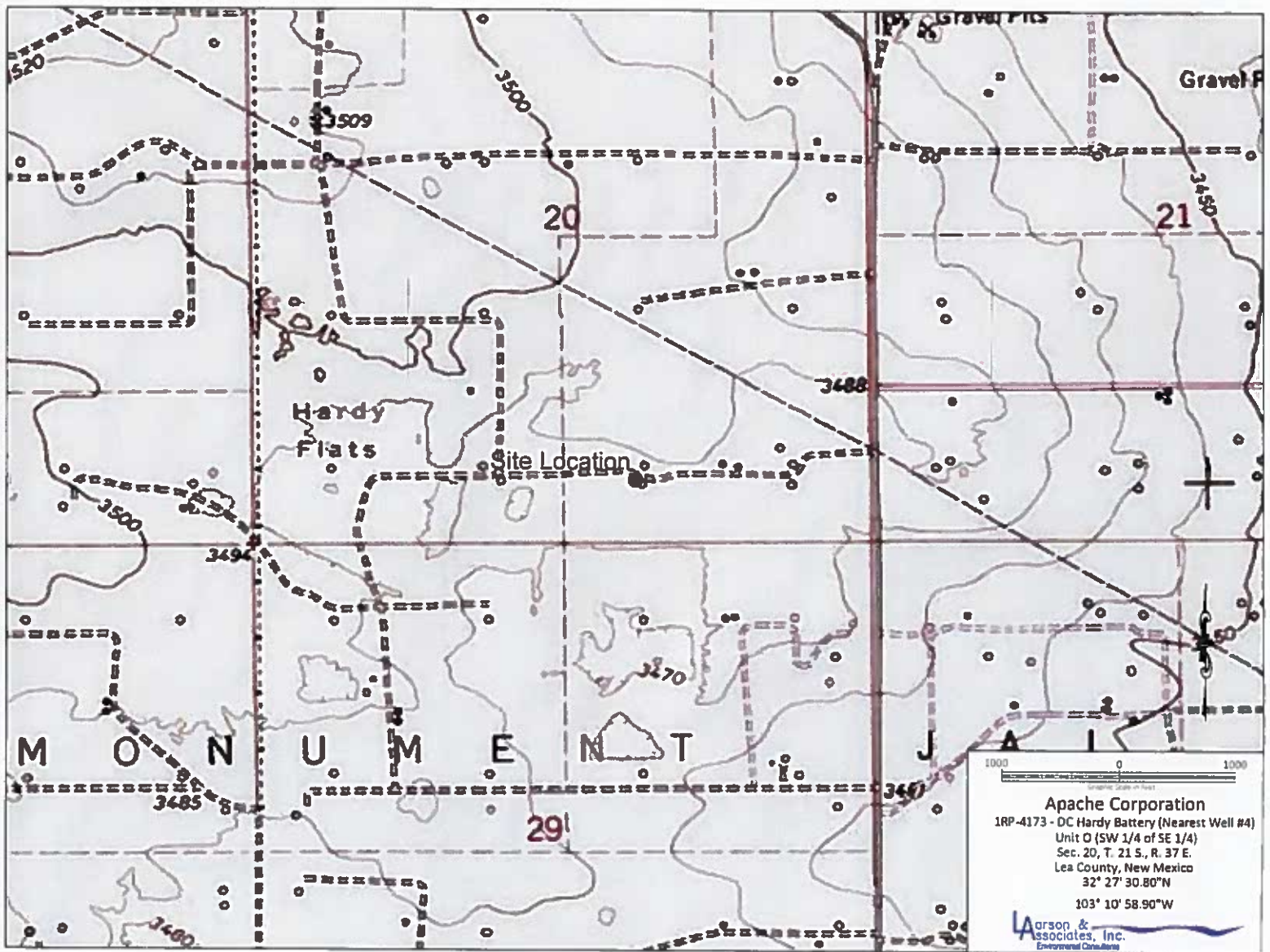


Figure 1 - Topographic Map



Figure 2 - Aerial Map

Appendix A
Initial 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.

HOBBS OCD
APR 30 2012

Release Notification and Corrective Action
RECEIVED

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Apache Corporation	Contact Natalie Gladden
Address PO Box 1849 Eunice, NM 88231	Telephone No. 575-390-4186
Facility Name DC Hardy Battery (nearest well #4)	Facility Type Production Facility

Surface Owner Sims	Mineral Owner NMOCD	API No. 30-025-06691
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	20	21S	37E	510'	FSL	1980'	FEL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Oil	Volume of Release 10	Volume Recovered 8
Source of Release Lighting/Electrical	Date and Hour of Occurrence 04/10/12	Date and Hour of Discovery 04/10/12
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
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.*

Due to thunder and lightning storms the electricity was knocked out which shut down the automation communication system, which did not signal the transfer pump to kick on, causing the tank to overflow.

Describe Area Affected and Cleanup Action Taken.*

Site will be hand dug and NMOCD guidelines will be followed to closer.

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:

Natalie Gladden

Printed Name: Natalie Gladden

Title: EHS Environmental Tech

E-mail Address: natalie.gladden@apachecorp.com

Date: 4/18/12

Phone: 575-390-4186

Approved by

Approval of

Conditions of Approval:

Attached ☐

APPROVED

2/8/16

* Attach Additional Sheets If Necessary

12P-4173

Appendix B

Rice Environmental Consulting and Safety, LLC Data

11/1/2011

11/1/2011



AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



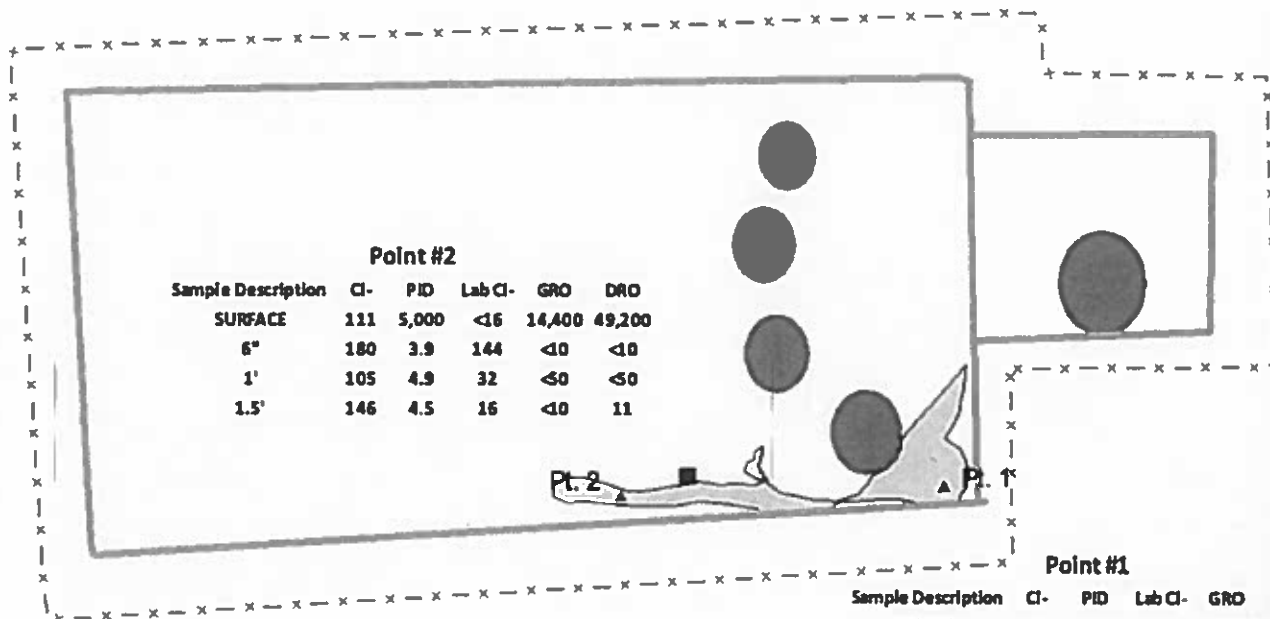
App Number: pKJ1603954488

1RP - 4173

APACHE CORP

LOOK FOR
C-141

NEED MY
APPUL



Legend

- ▲ SAMPLE POINTS
- ELECTRICAL CONTROL
- BERM
- x - x - FENCE LINE
- STAIN (287 sq ft)
- TANKS

Landowner = Apache



**APACHE DC
HARDY TANK
BATTERY NO. 1 AD**
 LEGALS: UL O & P sec. 20
 T-21-S R-37-E
 LEA COUNTY, NM

DGW = 76 ft



0 25 50
Feet

GPS date: 4/10/12 DH
 Drawing date: 4/18/12
 Drafted by: L. Weinheimer

June 25, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: DC HARDY

Enclosed are the results of analyses for samples received by the laboratory on 06/19/19 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received: 06/19/2019
Reported: 06/25/2019
Project Name: DC HARDY
Project Number: BATTERY #1
Project Location: NOT GIVEN

Sampling Date: 06/19/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 2' (H902124-01)
BTEX 8021B

mg/kg

Analyzed By: BF

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.78	89.2	2.00	2.66	
Toluene*	<0.050	0.050	06/20/2019	ND	1.76	87.9	2.00	2.19	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.70	85.1	2.00	2.34	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.20	86.6	6.00	1.41	
Total BTEX	<0.300	0.300	06/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 73.3-129

TPH 8015M

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2019	ND	206	103	200	1.41	
DRO >C10-C28*	30.3	10.0	06/21/2019	ND	176	88.2	200	6.16	
EXT DRO >C28-C36	59.1	10.0	06/21/2019	ND					

Surrogate: 1-Chlorooctane 95.6 % 41-142

Surrogate: 1-Chlorooctadecane 96.2 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

 Received: 06/19/2019
 Reported: 06/25/2019
 Project Name: DC HARDY
 Project Number: BATTERY #1
 Project Location: NOT GIVEN

 Sampling Date: 06/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 3' (H902124-02)

BTEX 8021B		mg/kg	Analyzed By: BF					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.905	0.500	06/20/2019	ND	1.78	89.2	2.00	2.66	
Toluene*	4.55	1.00	06/20/2019	ND	1.76	87.9	2.00	2.19	
Ethylbenzene*	3.36	1.00	06/20/2019	ND	1.70	85.1	2.00	2.34	
Total Xylenes*	20.4	3.00	06/20/2019	ND	5.20	86.6	6.00	1.41	
Total BTEX	29.2	5.50	06/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 147 % 73.3-129

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1320	50.0	06/21/2019	ND	206	103	200	1.41	
DRO >C10-C28*	5820	50.0	06/21/2019	ND	176	88.2	200	6.16	
EXT DRO >C28-C36	1240	50.0	06/21/2019	ND					

Surrogate: 1-Chlorooctane 151 % 41-142

Surrogate: 1-Chlorooctadecane 195 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

 Received: 06/19/2019
 Reported: 06/25/2019
 Project Name: DC HARDY
 Project Number: BATTERY #1
 Project Location: NOT GIVEN

 Sampling Date: 06/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 3' (H902124-03)
BTEX 8021B

mg/kg

Analyzed By: BF

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2019	ND	1.78	89.2	2.00	2.66	
Toluene*	<0.050	0.050	06/21/2019	ND	1.76	87.9	2.00	2.19	
Ethylbenzene*	<0.050	0.050	06/21/2019	ND	1.70	85.1	2.00	2.34	
Total Xylenes*	<0.150	0.150	06/21/2019	ND	5.20	86.6	6.00	1.41	
Total BTEX	<0.300	0.300	06/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 73.3-129

TPH 8015M

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2019	ND	196	98.1	200	3.72	
DRO >C10-C28*	236	10.0	06/21/2019	ND	194	97.0	200	0.633	
EXT DRO >C28-C36	64.0	10.0	06/21/2019	ND					

Surrogate: 1-Chlorooctane 96.2 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

 Received: 06/19/2019
 Reported: 06/25/2019
 Project Name: DC HARDY
 Project Number: BATTERY #1
 Project Location: NOT GIVEN

 Sampling Date: 06/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 6' (H902124-04)

BTEX 8021B		mg/kg	Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.740	0.500	06/21/2019	ND	1.78	89.2	2.00	2.66	
Toluene*	4.93	1.00	06/21/2019	ND	1.76	87.9	2.00	2.19	
Ethylbenzene*	3.96	1.00	06/21/2019	ND	1.70	85.1	2.00	2.34	
Total Xylenes*	7.76	3.00	06/21/2019	ND	5.20	86.6	6.00	1.41	
Total BTEX	17.4	5.50	06/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 113 % 73.3-129

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	611	50.0	06/21/2019	ND	196	98.1	200	3.72	QR-03
DRO >C10-C28*	3570	50.0	06/21/2019	ND	194	97.0	200	0.633	QR-03, QM-07
EXT DRO >C28-C36	965	50.0	06/21/2019	ND					

Surrogate: 1-Chlorooctane 119 % 41-142

Surrogate: 1-Chlorooctadecane 155 % 37.6-147

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

[illegible]

August 01, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: DC HARDY

Enclosed are the results of analyses for samples received by the laboratory on 07/29/19 16:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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/ga/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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

 Received: 07/29/2019
 Reported: 08/01/2019
 Project Name: DC HARDY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/29/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 5' (H902589-01)

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2019	ND	1.94	97.0	2.00	0.844	
Toluene*	<0.050	0.050	08/01/2019	ND	2.04	102	2.00	2.80	
Ethylbenzene*	<0.050	0.050	08/01/2019	ND	1.97	98.4	2.00	1.37	
Total Xylenes*	<0.150	0.150	08/01/2019	ND	5.95	99.2	6.00	2.11	
Total BTEX	<0.300	0.300	08/01/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 73.3-129

TPH 8015M			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/31/2019	ND	201	100	200	0.472		
DRO >C10-C28*	<10.0	10.0	07/31/2019	ND	201	100	200	3.79		
EXT DRO >C28-C36	<10.0	10.0	07/31/2019	ND						

Surrogate: 1-Chlorooctane 96.5 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

 Received: 07/29/2019
 Reported: 08/01/2019
 Project Name: DC HARDY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/29/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 10' (H902589-02)

BTEX 80218	mg/kg	Analyzed By: ms							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2019	ND	1.94	97.0	2.00	0.844	
Toluene*	<0.050	0.050	08/01/2019	ND	2.04	102	2.00	2.80	
Ethylbenzene*	<0.050	0.050	08/01/2019	ND	1.97	98.4	2.00	1.37	
Total Xylenes*	<0.150	0.150	08/01/2019	ND	5.95	99.2	6.00	2.11	
Total BTEX	<0.300	0.300	08/01/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 73.3-129

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/01/2019	ND	201	100	200	0.472	
DRO >C10-C28*	2250	50.0	08/01/2019	ND	201	100	200	3.79	
EXT DRO >C28-C36	957	50.0	08/01/2019	ND					

Surrogate: 1-Chlorooctane 92.8 % 41-142

Surrogate: 1-Chlorooctadecane 144 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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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Celey D. Keene, Lab Director/Quality Manager

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

[illegible]

August 22, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: DC HARDY

Enclosed are the results of analyses for samples received by the laboratory on 08/19/19 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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/ga/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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

 Received: 08/19/2019
 Reported: 08/22/2019
 Project Name: DC HARDY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 15' (H902841-01)

BTEX 80218		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2019	ND	1.84	91.8	2.00	0.0339	
Toluene*	<0.050	0.050	08/20/2019	ND	2.01	100	2.00	0.828	
Ethylbenzene*	<0.050	0.050	08/20/2019	ND	2.11	105	2.00	0.122	
Total Xylenes*	<0.150	0.150	08/20/2019	ND	6.28	105	6.00	0.569	
Total BTEX	<0.300	0.300	08/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 96.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/20/2019	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2019	ND	205	103	200	3.16	
DRO >C10-C28*	<10.0	10.0	08/20/2019	ND	194	97.1	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	08/20/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received: 08/19/2019
Reported: 08/22/2019
Project Name: DC HARDY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/19/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 20' (H902841-02)

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2019	ND	1.84	91.8	2.00	0.0339	
Toluene*	<0.050	0.050	08/20/2019	ND	2.01	100	2.00	0.828	
Ethylbenzene*	<0.050	0.050	08/20/2019	ND	2.11	105	2.00	0.122	
Total Xylenes*	<0.150	0.150	08/20/2019	ND	6.28	105	6.00	0.569	
Total BTEX	<0.300	0.300	08/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 96.9 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/20/2019	ND	400	100	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2019	ND	205	103	200	3.16	
DRO >C10-C28*	<10.0	10.0	08/20/2019	ND	194	97.1	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	08/20/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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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Celey D. Keene, Lab Director/Quality Manager

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

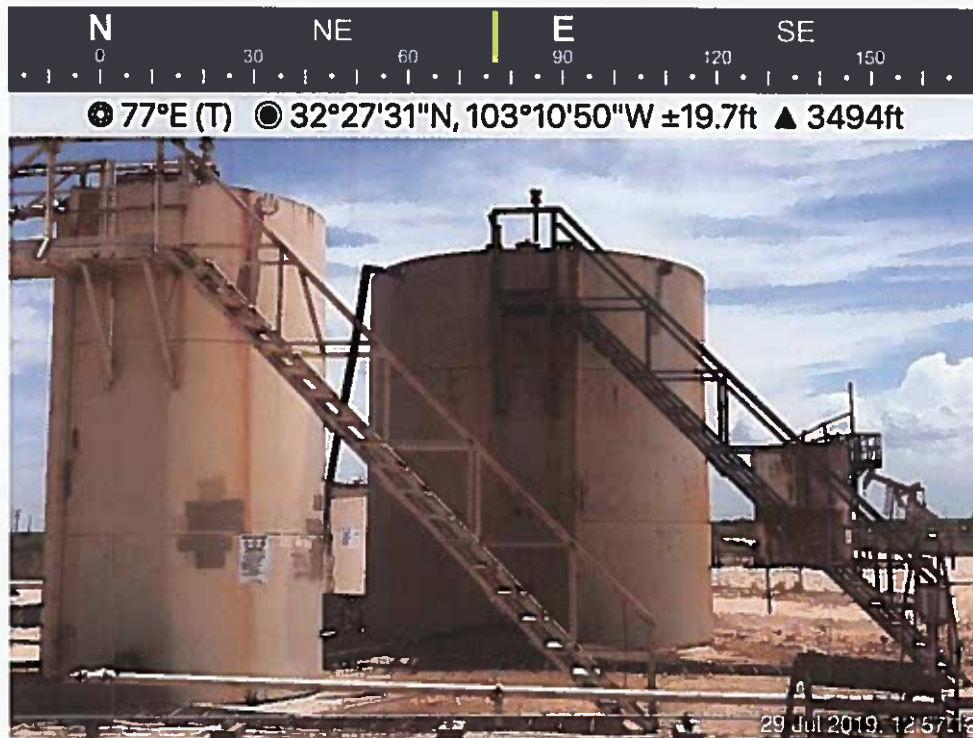
[illegible]

Appendix D

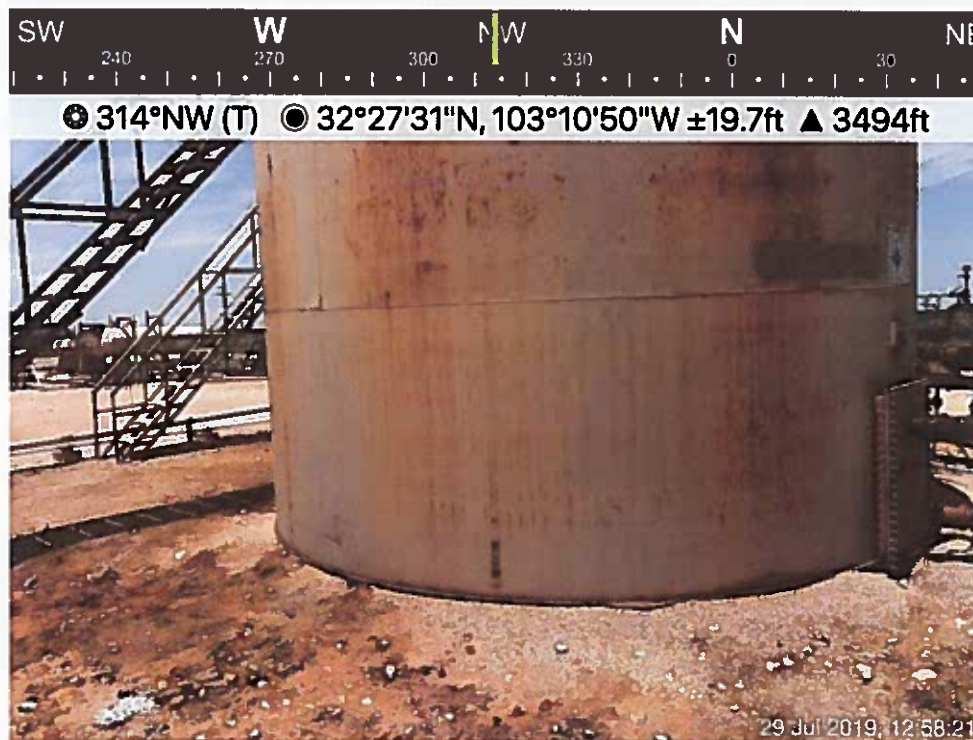
Photographs

11/11/2011

11/11/2011



Spill Area Viewing East, July 29, 2019



Spill Area Viewing Northwest, July 29, 2019

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 Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Apache Corporation	OGRID 873
Contact Name Bruce Baker	Contact Telephone 432-631-6982
Contact email Larry.Baker@apachecorp.com	Incident # (assigned by OCD) 1RP-4173
Contact mailing address 2350 West Marland Blvd. Hobbs, New Mexico 88240	

Location of Release Source

Latitude 32.45886° N

Longitude -103.18070° W

(NAD 83 in decimal degrees to 5 decimal places)

Site Name DC Hardy Battery	Site Type Tank Battery
Date Release Discovered 4/10/2012	API# (if applicable) 30-025-06691

Unit Letter	Section	Township	Range	County
O	20	21S	37E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Sims)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 10 bbls	Volume Recovered (bbls) 8 bbls
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A lightning strike shut down power to the transfer pump causing the tank to overflow.


State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
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)? 	

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>Bruce Baker</u>	Title: <u>Sr. Environmental Tech</u>
Signature: <u></u>	Date: <u>8/30/2019</u>
email: <u>Larry.Baker@apachecorp.com</u>	Telephone: <u>432-631-6982</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
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>65</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

Incident ID	
District RP	
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: Bruce BakerTitle: Sr. Environmental TechSignature: Bruce BakerDate: 8/30/2019email: Larry.Baker@apachecorp.comTelephone: 432-631-6982**OCD Only**

Received by: _____

Date: _____>

Incident ID	
District RP	
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: Bruce BakerTitle: Sr. Environmental TechSignature: Bruce BakerDate: 8/30/2019email: Larry.Baker@apachecorp.comTelephone: 432-631-6982**OCD Only**

Received by: _____ Date: _____

☐ Approved☐ Approved with Attached Conditions of Approval☐ Denied☒ Deferral ApprovedSignature: Bradford BillingsDate: 05/22/2020

Note: If the nearest well at ~1/2 mile is used for derived depth to water, Deferral is approved. If this is not the case, please indicate exactly the determined depth to water and submit data.