

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

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,

Received by OCD: 10/1/2019 4:31-10 PM Received by OCD: 10/1/2019 4:32:40 PM

David Feather Environmental Supervisor Apache Corporation - Permian Basin Region

Attachment: Deferment Report Dated August 30, 2019

# 1RP-4173 DELINEATION AND DEFE

# 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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1RP-4173 Deferral Report DC Hardy Battery August 30, 2019

# **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) interlayed 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:

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- 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

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)
lemediation	Level:		24	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 80218 (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



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0 Apache Corporation 1RP-4173 DC Hardy Battery (Nearest Well #4) Unit O (SW 1/4 of SE 1/4) Sec. 20, T. 21 S., R. 37 E. Lea County, New Mexico 32" 27' 30.80"N 103° 10' 58.90"W Aarson &

Appendix A

Initial C-141

District I 625 N. French	Dr., Hobbs,	NM 88240				New Mex						Form C-1
District II 311 S. First St.,	Artesia, NM	88210	OBBS C	CD Energy M	inerais	and Natura	l Resources					August 8, 20
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			La	titude		Longitud	le					
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Was Immedi	ate Notice (	Given?				04/10/12 If YES, To	Whom?		04/10/12		-	
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Appendix B

**Rice Environmental Consulting and Safety, LLC Data** 

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# **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

2/8/2016



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Appendix C

Laboratory Reports

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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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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,

Received by OCD: 10/1/2019 4:32:40 PM

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager

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#### Analytical Results For:

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

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	DC HARDY	Sampling Condition:	Cool & Intact
Project Number:	BATTERY #1	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

#### Sample ID: SP 1 @ 2' (H902124-01)

BTEX 80218	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% 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 (PIL	105 9	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d 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	2						0.0
Surrogate: 1-Chlorooctadecane	96.2	% 37.6-14	7						

#### Cardinal Laboratories

PLEASE NOTE: Labelity and Damages. Cardinal's labelity and client's exclusive nemetry for any claim stains, whether based in contract or toxt, shall be limited to the amount paid by client for analyses. All claims, including those for neglogence a any other cause whatsorver shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidential or consequential damage including, without limitation, business interruptions, loss of use, or loss of profils inclured by claims, this ubsolutes, antilates or successors artising out of or instant to the performance of the services herwunder by Cardinal, regardless of whether su claims to based upon any of the solute claims claims of uses.

Calleng to trance

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte

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#### Analytical Results For:

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

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	DC HARDY	Sampling Condition:	Cool & Intact
Project Number:	BATTERY #1	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

BTEX 8021B	mg/kg Analyzed By: BF							5-04	
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		Analyze	d 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 9	6 -11-1-1	2						
Surrogate: 1-Chlorooctadecane	195 9	6 37.6-14	7						

#### 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	Sampling Date:	06/19/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	DC HARDY	Sampling Condition:	Cool & Intact
Project Number: Project Location:	BATTERY #1 NOT GIVEN	Sample Received By:	Tamara Oldaker

#### Sample ID: SP 2 @ 3' (H902124-03)

BTEX 8021B	mg/	kg	Analyze	d 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 (PIE	108 9	6 73.3-12	9				2007		
TPH 8015M	mg/	kg	Analyze	d 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 5	% 41-142	2						
Surrogate: 1-Chlorooctadecane	111 9	6 37.6-14	7						

#### Cardinal Laboratories

PLEASE NOTE: Liablety and Damages. Cardinel's lablety and cherc's exclusive remedy for any claim ansing, whether based in contract or tort, shall be lemited to the amount paid by cleimt for analyses. All claims, including those for negligence and any other cause whistoriver shall be desmed where where modernal by Cardinal wethin thirty (30) days after completion of the applicable service. In no event shall Cardinal be lablet for encidental or consequential damages, including, without limitation, business interruptions, loss of use, or base of profits incurred by cleiming out of or instand to the performance of the services hereander by Cardinal, regardless of whether such claim is based upon any of the shorts stort reasons. Restor site only to the ample distribution. This reproduced excepts in full work in approval of cardinal bases.

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Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



#### Analytical Results For:

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

Received:	06/19/2019	Sampling Date:	06/19/2019
Reported:	06/25/2019	Sampling Type:	Soil
Project Name:	DC HARDY	Sampling Condition:	Cool & Intact
Project Number:	BATTERY #1	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

BTEX 8021B	mg,	/kg	Analyze	d 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 (PIE 113 % 73.3-129

TPH 8015M	mg/l	(g	Analyze	d 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
DR0 >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 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	155 %	6 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's lability and client's socializere remarky for any claim ansang, whether based in concret or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other clues whitesomer shall be deemed weived unless made in writing and received within thirty (30) days after completion of the applicable serves. In no event shall Cardinal be liable for incidental or consequential tamages, including, which is limiteory, business incomes, loss of use, or loss of profits incurred by client, its autoataness, atflates or successors analog out of or related to the performance of the services hereunder by Cardinal, regardless of whether such client is based upon any of the abive statiat meaning or differences.

Celego Kenne

Celey D. Keene, Lab Director/Quality Manager



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

#### **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 SM4500CI-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

#### \*=Accredited Analyte

PLEASE NOTE: Labelity and Damages. Cardinal's labelity and chers's exclusive remarky for any claim ansang, whether besed in contract or tort, shall be annated to the amount peed by client for analyses. All claims, including these for neglicyence and any other claims whiteomer shall be deemed waved unless made in writing and incomed by claims their completion of the applicable service. In no event, shall Cardinal be labelit for incidential damages, including, without Intelation, basis of use, or loss of profile incurred by client, its autoestances and atmosping, writing and any other such claims basis for incidential damages, including, writing, writing, writing, writing, writing, writing, and and and an analysis, and analysis of an advected to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated researce. Results relate only to the amplete directive and the services.

Celleg Z. Kenne

Celey D. Keene, Lab Director/Quality Manager

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Page 7 of 7 Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

	0192-262 (010) XAT 0222-262 (010)	0147-06			
Company Name:	Hardve		BILL-TO	ANALYSIS REQUEST	UEST
Project Manager:	· SOL Broom		P.O. #		
Address:			Company:		
city: Uabhe		State: 1/1/1/Zip: 88240	Attn:		
Phone #:	Fax #:		Address:		
Project #:	Proje	Project Owner:	city:		
Project Name:			State: Zip:		
<b>Project Location:</b>	" DC Hardo B	Hery Nol	#:	/	
Sampler Name:	Son Dues-		Fax #:	24	
FOR LAB LISE ONLY	(		X PRESERV SAMPLING		
Lab I.D.	Sample I.D.	RAB OR (C)ON ONTAINERS OUNDWATER STEWATER IL	JDGE HER : ID/BASE: I COOL HER :	BTE	
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2	1201031	61111	1 ( 4:520	-	
3	Shala 3'	6 1 1	/   SISHA		
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PLEASE NOTE: Labity an analyses. All claims includin service. In no event shall C	d Dermuper. Cerdinal's lability and clearity exclusion to those the negligence and any other causes works wolcal be lable for incidential or consequential dan	he include by any claim strang wholes hased in to serve shall be deem attang wholes made is the serve is had be deem whole unbiase made is the mgot, including without imitiation, business interns	PLEASE NOTE: Lipiday and Damages. Candina's lability and clearth astabilies remainly for any clean astarg wholese based in contrast or lad. shall be lambed to the amount part by the cleant for the projective analysis. All cleares the negligences and any other cause wheteaver that he deemed wholese based in contrast or lad. shall be lambed to the amount part by the cleant for the projective analysis. All cleares that he deemed wholese based in contrast or lad. shall be lambed to the amount part by the cleant for the projective analysis. All cleares that he deemed wholese based in contrast or lad. shall be lambed to the amount part by the cleart for the projective analysis of the clearest and any other cleares whether that he deemed wholese based in contrast or lad. I do draw a the complete not the applicable associations. In no event shall Canding to the clearest demographicable, business interruptions, lades of uses of profits incurred by cleare, its subsidiaries.	At the the splittable	
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Page 24 of 43

Received by OCD: 10/1/2019 4:32:40 PM



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.Keine

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	Sampling Date:	07/29/2019	
Reported:	08/01/2019	Sampling Type:	Soil	
Project Name:	DC HARDY	Sampling Condition:	Cool & Intact	
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker	
Project Location:	NOT GIVEN			

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

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	D8/01/2019	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	1049	6 73.3-12	,						
TPH 8015M	mg/	kg	Analyze	d 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 9	% 41-142							
Surrogate: 1-Chlorooctadecane	103 9	37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



#### Analytical Results For:

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

Received:	07/29/2019	Sampling Date:	07/29/2019
Reported:	08/01/2019	Sampling Type:	Soil
Project Name:	DC HARDY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		
hojeet totadon.	NOT BIVEN		

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 73.3-12	9						
TPH 8015M	mg/	lkg	Analyze	d 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	<b>92 8</b> :	% 41-142							
Surrogate: 1-Chlorooctadecane	144 9	37.6-14	7						

#### Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5

\*=Accredited Analyte



#### **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 SM4500CI-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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#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

O HTTON (PIN) VUI ATAN DAD (DIA)	G			
Company Name: APACHE Call		BILLTO		ANALYSIS REQUEST
Project Manager:	P.O. #			
Address:	Company:			
City: State:	Zip: Attn:			
Phone #: Fax #:				
Project #: Project Owner:				
Project Name: DC HAROY		Zip:		
Project Location: DC HARDY	Phone #:			
Sampler Name: Shown	Fax #:			
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Page 29 of 43

Received by OCD: 10/1/2019 4:32:40 PM



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated 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,

Received by OCD: 10/1/2019 4:32:40 PM

Celeg D. Keine

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	Sampling Date:	08/19/2019
Reported:	08/22/2019	Sampling Type:	Soil
Project Name:	DC HARDY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

BTEX 80218	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	NÐ	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 (PIL	96.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chioride	64.0	16.0	08/20/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d 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					
		1000				2. 			

Surrogate:1-Chlorooctane103 %41-142Surrogate:1-Chlorooctadecane111 %37.6-147

#### Cardinal Laboratories

PLEXE NOTE: Liability and Damages. Cardinal's labelity and client's exclusive remetry for any claim arising, whether based in contract or bort, shall be invited to the amount paid by client for analyses. All claims, including those for neglegance and any other cluse whatsoever shall be deemed wheel unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be deemed unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be leaded for incidental or consequential damage including, writing, writing, mitation, business instamptions, loss of use, or loss of profits incurred by dent, the subsidients, antilates or successors arising out of or incident by the performance of the services hereunder by Cardinal, regardless of whether and claim to based units tabled to the performance and the services hereunder by Cardinal, regardless of whether and claim to based units tabled to the performance of the services arising on any of the solute statist restring only to the sample statist leaders in the table reproduct decays to the services.

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Celey D. Keene, Lab Director/Quality Manager

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#### Analytical Results For:

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

Received:	08/19/2019	Sampling Date:	08/19/2019
Reported:	08/22/2019	Sampling Type:	Soil
Project Name:	DC HARDY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

BICX SUZIB	/gm	кg	Analyze	a 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	08/20/201 <del>9</del>	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 (PIE 96.9 % 73.3-129

Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	Ki 41-142	?						
Surrogate: 1-Chlorooctadecane	116 9	37.6-14	7						

#### Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Candinait's leaderly and cleant's exclusive remody for any claim ansing, whether based in contract or torit, shall be lended to the amount paid by cleant for analyses. All claims, including those for negligence and any other clause whitebore that be deemed where unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall cardinal be lable for incidental or consequencial damages, including, without lambation, business intermptions, loss of profits incurred by claims, attracted and accessing antibiant accessions arising out of or instand to the performance of the services hereunder by Cardinal, regardless of whether such claim to based upon any of the solve stated research or observed into an event shall claomations, and

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Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



#### **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 SM4500CI-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

Received by OCD: 10/1/2019 4:32:40 PM

#### \*=Accredited Analyte

PLEASE NOTE: Liables and Damages. Cardinal's Abbits and chem's exclusive remedy for any dawn analog, whether based in contract or tord, shall be limited to the anount paid by clerit for analyses. All cleams, including those for negligence and any other cake whiteover shall be deemed versed unless made in writing and received by Cardinal worth thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for independent demages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by clearth as absendances, affidies or successors andiges or don's advect and to the performance of the services hereunder by Cardinal, regardless of whether such clearth based upon surp diffe above stated reasons or otherwes. Results relate only to the sample state field and the services.

Celegit Kenne

Celey D. Keene, Lab Director/Quality Manager

Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

.

ASE: Phone #: PLASE:
B     State:     Zip:     Attn:       e#:     Fax #:     Fax #:     Address:       ct #:     Project Owner:     City:     Address:       ct Name:     DC     HARCDY     State:     Zip:       ct Location:     DC     HARCDY     State:     Zip:       ct Name:     DC     HARCDY     State:     Zip:       ct Name:     CHARDY     Fax #:     Fax #:       olar Name:     Fax #:     Fax #:     Fax #:       olar Name:     Cipy:     Fax #:     Fax #:       olar Name:     Cipy:     Fax #:     Fax #:       olar Name:     Cipy:     Sample I.D.     R (C)OMP.
e #:       Fax #:       Fax #:       Address:         ct Name: <i>DC</i> // <i>AUDY</i> Project Owner:       City:         ct Name: <i>DC</i> // <i>AUDY</i> State:       Zip:         ct Location: <i>DC</i> // <i>AUDY</i> Phone #:       Phone #:         oler Name: <i>EFF</i> // <i>Favur</i> Fax #:       Phone #:         oler Name: <i>EFF</i> // <i>Favur</i> Fax #:       Presserv         oler Name: <i>EFF</i> // <i>Favur</i> Sample I.D.       OR (C)OMP.         Ausseowy       Sample I.D.       OR       Samplung         value       Sample I.D.       OR       Samplu // C
Sample I.D.  Sample I.D.  OR (C)OMP.  AINERS  DWATER  MATRIX  PRESERV  SAMPLING  CL  CL  CL  CL  CL  CL  CL  CL  CL  C
Sample I.D. OR (C)OMP. AINERS IDWATER WATER WATER ASE: DOL SAMPLING CL
Sample I.D. OR (C)OMP. AINERS DOL E ASE: DOL SAMPLING CL
Sample I.D. OR (C)OMP. AINERS DWATER WATER WATER MATRIX PRESERV SAMPLING
Sample I.D. OR (C)OMP. AINERS DWATER WATER WATER ASE: DOL SAMPLING
OR (C)OMP AINERS IDWATER WATER E ASE: DOL
G)RAB # CONT GROUN WASTE SOIL OIL SLUDGI OTHER ACID/B/ ICE / CC OTHER ACID/B/ ICE / CC
5/8/0151 2 2151
y officients acclusive inviney let any dama strang winemer control control or and and an entrol or we ensure you ny offici sause wholeover shall be deemed weived unleast model to weiving and to be control by Cadronal witch 30 days allor competition of the applicable or consequential demages, including without invitation, business interruptions, less of uses of parts incurred by Cadrona, ta suboldantes, however, of service however that the definition models of white and the based upon jury of the above stated reasons or otherwise.

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Received by OCD: 10/1/2019 4:32:40 PM

Appendix D

Photographs

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1RP-4173 DC Hardy Battery 8/30/2019



Spill Area Viewing East, July 29, 2019



Spill Area Viewing Northwest, July 29, 2019

District 1 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

(NAD 83 in decimal degrees to 5 decimal places)

Site Name DC Hardy Battery	Site Type Tank Battery	
Date Release Discovered 4/10/2012	AP1# (if applicable) 30-025-06691	

Unit Letter	Section	Township	Range	County
0	20	215	37E	Lea

Surface Owner: State Federal Tribal X Private (Name: Sims

# Nature and Volume of Release

Crude Oil	Volume Released (bbls) 10 bbls	Volume Recovered (bbls) 8 bbls
Produced Water	Volume Released (bbis)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🚺 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
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.

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Scol	Page 2	

### 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?	If YES, for what reason(s) does the responsible party consider this a major release?	
Yes X No		
If YES, was immediate n	otice 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

**X** The source of the release has been stopped.

X The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

X All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Bruce Baker

Signature: Bruce Baher

Title: Sr. Environmental Tech

email: Larry.Baker@apachecorp.com

Telephone: 432-631-6982

Date: 8/30/2019

OCD Only

Received by: \_

Date:

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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?	Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X 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)?	Yes X No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X 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?	Yes X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	Yes X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No
Are the lateral extents of the release within a 100-year floodplain?	Yes X No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X 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.

X Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

- х Field data
- X Data table of soil contaminant concentration data
- х Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release x
- Х Boring or excavation logs х
- Photographs including date and GIS information
- X X 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.

rm C-141 State of New Me		xico	Incident ID	
ige 4	Oil Conservation D	Oil Conservation Division		
			Facility ID Application ID	
			11ppileation 11	
public health or the environment. The acceptance of a C-141 refailed to adequately investigate and remediate contamination that addition, OCD acceptance of a C-141 report does not relieve the and/or regulations.  Printed Name: Bruce Baker		tain release notifications and perform corrective actions for releases which may enda report by the OCD does not relieve the operator of liability should their operations be that pose a threat to groundwater, surface water, human health or the environment. the operator of responsibility for compliance with any other federal, state, or local la 		which may endanger heir operations have e environment. In
OCD Only		_		
Received by:		Date	:	
60				

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*Page 5* Form C-141

State of New Mexico Oil Conservation Division

Incident ID	nKJ1603954339
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

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

x Detailed description of proposed remediation technique

X Scaled sitemap with GPS coordinates showing delineation points

**X** Estimated volume of material to be remediated

X Closure criteria is to Table I specifications subject to 19.15.29.12(C)(4) NMAC

X 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.

X Extents of contamination must be fully delineated.

X 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: Brue	ce Baker	Title: Sr. E	Invironmental Tech	
Signature: <u>Bruce Bahn</u> email: <u>Larry.Baker@apachecorp.com</u>		Date: <u>8/30/2019</u> Telephone: <u>432-631-6982</u>		
Received by:		Date:		
Approved	Approved with Attached Conditions of A	Approval	Denied	<sup>KK</sup> Deferral Approved
Signature By	adlord Billings	Date: 07/01	/2021	

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

COMMENTS

Operator:	OGRID:	
APACHE CORPORATION	873	
303 Veterans Airpark Ln	Action Number:	
Midland, TX 79705	1605	
	Action Type:	
	[C-141] Release Corrective Action (C-141)	

#### COMMENTS

Created By	Comment	Comment Date
bbillings	This is a deferral NOT a Closure	7/1/2021

COMMENTS

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Action 1605

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

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	1605
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	This is a deferral of incident, NOT a Closure.	7/1/2021

CONDITIONS

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Action 1605