

HUNGRY HORSE, LLC

RECEIVED

By JKeyes at 3:02 pm, Feb 10, 2016

APPROVED

By JKeyes at 3:02 pm, Feb 10, 2016

3709 S. Eunice HWY
P.O. Box 1058
Hobbs, NM 88241
Office: 575-393-3386
Fax: 575-391-4585
info@hungry-horse.com

DIRT WORK * ON-SITE RESTORATION
SOIL TESTING * EXCAVATION * ELECTRICAL

5Feb16

To: Kellie Jones, New Mexico Oil Conservation Division, District 1
Reference: Closure Request
Operator: Apache Corporation
Location: Northeast Drinkard Unit 3503W
API: 30-025-06473
Legals: UL. K, Sec. 10, T21S, R37E, Lea County, New Mexico
GPS: 32.49185 -103.15268

Site Information

This site is located 3 miles north of Eunice, New Mexico east of Highway 207 between the highway and railroad tracks. The site is a heavily traveled area and is quite congested with both above and below ground oil/gas facilities. The surrounding area is very sparsely vegetated with mesquite bushes, creosote bushes, and native grasses. There is very little topsoil with caliche and caliche rock being the predominant soil formations.

The New Mexico Office of the State Engineer website list no groundwater data for this section. The Lea County Depth to Groundwater Map indicates ground water to be <100'.

The site of the release is a shallow buried line running parallel to a heavily traveled lease road. The road bed is well defined in that it is of a lower elevation than the surround terrain. Thus the release was primarily contained to the road. The impacted portion of the road is approximately 70' long.

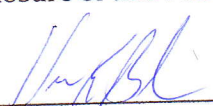
Work Conducted to Date

Delineation was conducted in two phases at the site. The first being done by use of hand tools and the second using a back-hoe. Four sample points of the impacted area were selected for sampling. (See attached overhead map.) Lab analysis was conducted for TPH, BTEX, and Chlorides. Results indicated TPH and BTEX were non-detectable and were not contaminants of concern for the release. Chlorides were present and slightly elevated at RSP 3. (See attached Analytical Summary and Lab Reports.) This was an expected discovery due to the fact the road bed was the main impacted area.

Proposal

Sample Points SSP 1, RSP 1, and RSP 2 require no work. At RSP 3, which is a heavily traveled lease road, delineation results indicate a significant drop in Chloride levels beginning at 3.5' BGS. Due to relatively small area of impacted road bed and based upon dropping Chloride levels, I propose to leave this impacted area in place with no excavation.

Closure of this release is requested with a Final C-141 to be submitted upon receipt.


Vernon K. Black, Hungry Horse, LLC

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

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Apache Corporation	Contact Bruce Baker	
Address: 2350 W Marland Blvd Hobbs, NM 88240	Telephone No. (432) 631-6982	
Facility Name NEDU 503W	Facility Type: Injection Well	
Surface Owner State	Mineral Owner	API No. 30-025-06473

LOCATION OF RELEASE

Unit Letter K	Section 10	Township 21S	Range 37E	Feet from the 2080'	North/South Line FSL	Feet from the 2080'	East/West Line FWL	County Lea
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Latitude N32.4918556 Longitude W103.1526871

NATURE OF RELEASE

Type of Release: produced water	Volume of Release 65 barrels of produced water	Volume Recovered 60 barrels of produced water
Source of Release: Fiberglass Line	Date and Hour of Occurrence Unknown 11/21/2015	Date and Hour of Discovery 11/21/2015
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Kellie Jones (NMOCD)	
By Whom? Bruce Baker	Date and Hour 11/23/2015	
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.*
The 2 inch nipple corroded on the main trunk line resulting in the loss of fluid. A line was isolated and repaired. A vacuum truck was dispatched to pick-up standing fluid.

Describe Area Affected and Cleanup Action Taken.*
Majority of the release was contained on the lease road with approximately 1,000 square feet of pasture affected. The release has been mapped and was delineated on 12/8/2015 and samples were sent to commercial laboratory for analysis.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: <i>Bruce Baker</i>	Approved by Environmental Specialist:	
Printed Name: Bruce Baker		
Title: Environmental Technician	Approval Date:	Expiration Date:
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12/9/2015	Phone: (432) 631-6982	

* Attach Additional Sheets If Necessary



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

No records found.

PLSS Search:

Section(s): 10

Township: 21S

Range: 37E

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

2/5/16 8:41 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Apache Corporation-NEDU #503W Overhead with Sample Points



Analytical Summary

Operator: Apache Corporation

Location: Northeast Drinkard Unit # 503W

Summary of Remediation Sampling Analytical Results as Parts Per Million (PPM)

BTEX

Sample Point	Depth	LAB
RSP 1	.5'	ND
	1'	ND
	1.5'	ND
RSP 2	Surface	ND
	.5'	ND
	1'	ND
RSP 3	Surface	ND
	.5'	ND
	1'	ND
	1.5'	ND
SSP 1	Surface	ND
	.5'	ND

TPH

Sample Point	Depth	LAB
RSP 1	.5'	ND
	1'	ND
	1.5'	ND
RSP 2	Surface	ND
	.5'	ND
	1'	ND
	1.5'	ND
RSP 3	Surface	325
	.5'	ND
	1'	ND
SSP 1	Surface	ND
	.5'	ND

Chlorides

Sample Point	Depth	LAB
RSP 1	.5'	ND
	1'	ND
	1.5'	96
RSP 2	Surface	144
	.5'	64
	1'	80
RSP 3	Surface	48
	.5'	96
	1'	576
	1.5'	640
	3.5'	944
	4.5'	864
	5.5'	608
	6.5'	480
SSP 1	Surface	320
	.5'	96

December 14, 2015

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: APACHE - NEDU #503W

Enclosed are the results of analyses for samples received by the laboratory on 12/08/15 12:19.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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:

 Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

 Received: 12/08/2015
 Reported: 12/14/2015
 Project Name: APACHE - NEDU #503W
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

 Sampling Date: 12/08/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: RSP1 6" (H503193-01)

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	12/11/2015	ND	1.90	94.8	2.00	4.60	
Toluene*	<0.050	0.050	12/11/2015	ND	1.90	95.0	2.00	3.78	
Ethylbenzene*	<0.050	0.050	12/11/2015	ND	1.94	96.8	2.00	2.63	
Total Xylenes*	<0.150	0.150	12/11/2015	ND	5.90	98.3	6.00	2.55	
Total BTEX	<0.300	0.300	12/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/11/2015	ND	432	108	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	12/09/2015	ND	198	99.2	200	0.713	
DRO >C10-C28	<10.0	10.0	12/09/2015	ND	188	94.2	200	0.463	

Surrogate: 1-Chlorooctane 93.1 % 35-147

Surrogate: 1-Chlorooctadecane 96.5 % 28-171

*=Accredited Analyte

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Hungry Horse Environmental
VERNON BLACK
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received: 12/08/2015
Reported: 12/14/2015
Project Name: APACHE - NEDU #503W
Project Number: NONE GIVEN
Project Location: EUNICE, NM

Sampling Date: 12/08/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: RSP1 1' (H503193-02)

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	12/11/2015	ND	1.90	94.8	2.00	4.60	
Toluene*	<0.050	0.050	12/11/2015	ND	1.90	95.0	2.00	3.78	
Ethylbenzene*	<0.050	0.050	12/11/2015	ND	1.94	96.8	2.00	2.63	
Total Xylenes*	<0.150	0.150	12/11/2015	ND	5.90	98.3	6.00	2.55	
Total BTEX	<0.300	0.300	12/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 73.6-140

Chloride, SM4500Cl-B			mg/kg Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/11/2015	ND	432	108	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	12/09/2015	ND	203	101	200	0.611	
DRO >C10-C28	<10.0	10.0	12/09/2015	ND	195	97.4	200	1.22	

Surrogate: 1-Chlorooctane 79.6 % 35-147

Surrogate: 1-Chlorooctadecane 82.0 % 28-171

*=Accredited Analyte

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 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

 Received: 12/08/2015
 Reported: 12/14/2015
 Project Name: APACHE - NEDU #503W
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

 Sampling Date: 12/08/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: RSP1 1.5' (H503193-03)

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	12/11/2015	ND	1.90	94.8	2.00	4.60			
Toluene*	<0.050	0.050	12/11/2015	ND	1.90	95.0	2.00	3.78			
Ethylbenzene*	<0.050	0.050	12/11/2015	ND	1.94	96.8	2.00	2.63			
Total Xylenes*	<0.150	0.150	12/11/2015	ND	5.90	98.3	6.00	2.55			
Total BTEX	<0.300	0.300	12/11/2015	ND							

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 73.6-140

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	96.0	16.0	12/11/2015	ND	432	108	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	12/09/2015	ND	203	101	200	0.611			
DRO >C10-C28	<10.0	10.0	12/09/2015	ND	195	97.4	200	1.22			

Surrogate: 1-Chlorooctane 87.9 % 35-147

Surrogate: 1-Chlorooctadecane 90.9 % 28-171

*=Accredited Analyte

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Analytical Results For:

 Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

 Received: 12/08/2015
 Reported: 12/14/2015
 Project Name: APACHE - NEDU #503W
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

 Sampling Date: 12/08/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: RSP2 SURFACE (H503193-04)

BTX 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	12/11/2015	ND	1.90	94.8	2.00	4.60			
Toluene*	<0.050	0.050	12/11/2015	ND	1.90	95.0	2.00	3.78			
Ethylbenzene*	<0.050	0.050	12/11/2015	ND	1.94	96.8	2.00	2.63			
Total Xylenes*	<0.150	0.150	12/11/2015	ND	5.90	98.3	6.00	2.55			
Total BTX	<0.300	0.300	12/11/2015	ND							

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/11/2015	ND	432	108	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	12/09/2015	ND	203	101	200	0.611	
DRO >C10-C28	<10.0	10.0	12/09/2015	ND	195	97.4	200	1.22	

Surrogate: 1-Chlorooctane 88.7 % 35-147

Surrogate: 1-Chlorooctadecane 90.4 % 28-171

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

 Received: 12/08/2015
 Reported: 12/14/2015
 Project Name: APACHE - NEDU #503W
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

 Sampling Date: 12/08/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: RSP2 6" (H503193-05)

Sample ID: RSP2 8 (H505195 05)

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	12/11/2015	ND	1.90	94.8	2.00	4.60	
Toluene*	<0.050	0.050	12/11/2015	ND	1.90	95.0	2.00	3.78	
Ethylbenzene*	<0.050	0.050	12/11/2015	ND	1.94	96.8	2.00	2.63	
Total Xylenes*	<0.150	0.150	12/11/2015	ND	5.90	98.3	6.00	2.55	
Total BTEX	<0.300	0.300	12/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	64.0	16.0	12/11/2015	ND	432	108	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	12/09/2015	ND	203	101	200	0.611			
DRO >C10-C28	<10.0	10.0	12/09/2015	ND	195	97.4	200	1.22			

Surrogate: 1-Chlorooctane 88.8 % 35-147

Surrogate: 1-Chlorooctadecane 88.4 % 28-171

* = Accredited Analyte

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VERNON BLACK
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Fax To: (505) 391-4585

Received: 12/08/2015
Reported: 12/14/2015
Project Name: APACHE - NEDU #503W
Project Number: NONE GIVEN
Project Location: EUNICE, NM

Sampling Date: 12/08/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: RSP2 1' (H503193-06)

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	12/11/2015	ND	1.75	87.7	2.00	2.38			
Toluene*	<0.050	0.050	12/11/2015	ND	1.75	87.5	2.00	2.03			
Ethylbenzene*	<0.050	0.050	12/11/2015	ND	1.82	91.1	2.00	2.56			
Total Xylenes*	<0.150	0.150	12/11/2015	ND	5.38	89.7	6.00	2.04			
Total BTEX	<0.300	0.300	12/11/2015	ND							

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 73.6-140

Chloride, SM4500CI-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	80.0	16.0	12/11/2015	ND	432	108	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	12/10/2015	ND	203	101	200	0.611			
DRO >C10-C28	<10.0	10.0	12/10/2015	ND	195	97.4	200	1.22			


Surrogate: 1-Chlorooctane 83.9 % 35-147

Surrogate: 1-Chlorooctadecane 86.9 % 28-171

*=Accredited Analyte

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

 Received: 12/08/2015
 Reported: 12/14/2015
 Project Name: APACHE - NEDU #503W
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

 Sampling Date: 12/08/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: RSP3 SURFACE (H503193-07)

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	12/11/2015	ND	1.75	87.7	2.00	2.38			
Toluene*	<0.050	0.050	12/11/2015	ND	1.75	87.5	2.00	2.03			
Ethylbenzene*	<0.050	0.050	12/11/2015	ND	1.82	91.1	2.00	2.56			
Total Xylenes*	<0.150	0.150	12/11/2015	ND	5.38	89.7	6.00	2.04			
Total BTEX	<0.300	0.300	12/11/2015	ND							

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/11/2015	ND	432	108	400	0.00	

Chloride		mg/kg								Analyzed By: MS	
TPH 8015M											
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	12/10/2015	ND	203	101	200	0.611			
DRO >C10-C28	325	10.0	12/10/2015	ND	195	97.4	200	1.22			

Surrogate: 1-Chlorooctane 93.6 % 35-147

Surrogate: 1-Chlorooctadecane 97.0 % 28-171

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

 Received: 12/08/2015
 Reported: 12/14/2015
 Project Name: APACHE - NEDU #503W
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

 Sampling Date: 12/08/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: RSP3 6" (H503193-08)

mg/kg			Analyzed By: MS						
BTEX 8021B									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2015	ND	1.75	87.7	2.00	2.38	
Toluene*	<0.050	0.050	12/11/2015	ND	1.75	87.5	2.00	2.03	
Ethylbenzene*	<0.050	0.050	12/11/2015	ND	1.82	91.1	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/11/2015	ND	5.38	89.7	6.00	2.04	
Total BTEX	<0.300	0.300	12/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/11/2015	ND	432	108	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	12/10/2015	ND	203	101	200	0.611	
DRO >C10-C28	<10.0	10.0	12/10/2015	ND	195	97.4	200	1.22	

Surrogate: 1-Chlorooctane 98.1 % 35-147

Surrogate: 1-Chlorooctadecane 96.9 % 28-171

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

 Received: 12/08/2015
 Reported: 12/14/2015
 Project Name: APACHE - NEDU #503W
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

 Sampling Date: 12/08/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: RSP3 1' (H503193-09)

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	12/11/2015	ND	1.75	87.7	2.00	2.38		
Toluene*	<0.050	0.050	12/11/2015	ND	1.75	87.5	2.00	2.03		
Ethylbenzene*	<0.050	0.050	12/11/2015	ND	1.82	91.1	2.00	2.56		
Total Xylenes*	<0.150	0.150	12/11/2015	ND	5.38	89.7	6.00	2.04		
Total BTEX	<0.300	0.300	12/11/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500CI-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	576	16.0	12/11/2015	ND	400	100	400	3.92			

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	12/10/2015	ND	203	101	200	0.611			
DRO >C10-C28	<10.0	10.0	12/10/2015	ND	195	97.4	200	1.22			

Surrogate: 1-Chlorooctane 92.7 % 35-147

Surrogate: 1-Chlorooctadecane 92.9 % 28-171

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

 Received: 12/08/2015
 Reported: 12/14/2015
 Project Name: APACHE - NEDU #503W
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

 Sampling Date: 12/08/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: RSP3 1.5' (H503193-10)

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	12/11/2015	ND	1.75	87.7	2.00	2.38			
Toluene*	<0.050	0.050	12/11/2015	ND	1.75	87.5	2.00	2.03			
Ethylbenzene*	<0.050	0.050	12/11/2015	ND	1.82	91.1	2.00	2.56			
Total Xylenes*	<0.150	0.150	12/11/2015	ND	5.38	89.7	6.00	2.04			
Total BTEX	<0.300	0.300	12/11/2015	ND							

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	12/11/2015	ND	400	100	400	3.92	

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	12/10/2015	ND	203	101	200	0.611	
DRO >C10-C28	<10.0	10.0	12/10/2015	ND	195	97.4	200	1.22	

Surrogate: 1-Chlorooctane 75.4 % 35-147

Surrogate: 1-Chlorooctadecane 73.2 % 28-171

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

 Received: 12/08/2015
 Reported: 12/14/2015
 Project Name: APACHE - NEDU #503W
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

 Sampling Date: 12/08/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: SSP1 SURFACE (H503193-11)

mg/kg			Analyzed By: MS						
BTEX 8021B									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2015	ND	1.75	87.7	2.00	2.38	
Toluene*	<0.050	0.050	12/11/2015	ND	1.75	87.5	2.00	2.03	
Ethylbenzene*	<0.050	0.050	12/11/2015	ND	1.82	91.1	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/11/2015	ND	5.38	89.7	6.00	2.04	
Total BTEX	<0.300	0.300	12/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 106 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	12/11/2015	ND	400	100	400	3.92		

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	12/10/2015	ND	203	101	200	0.611	
DRO >C10-C28	<10.0	10.0	12/10/2015	ND	195	97.4	200	1.22	

Surrogate: 1-Chlorooctane 88.8 % 35-147

Surrogate: 1-Chlorooctadecane 85.1 % 28-171

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Hungry Horse Environmental
VERNON BLACK
P.O. Box 1058
Hobbs NM, 88240
Fax To: (505) 391-4585

Received: 12/08/2015
Reported: 12/14/2015
Project Name: APACHE - NEDU #503W
Project Number: NONE GIVEN
Project Location: EUNICE, NM

Sampling Date: 12/08/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SSP1 6" (H503193-12)

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	12/11/2015	ND	1.75	87.7	2.00	2.38	
Toluene*	<0.050	0.050	12/11/2015	ND	1.75	87.5	2.00	2.03	
Ethylbenzene*	<0.050	0.050	12/11/2015	ND	1.82	91.1	2.00	2.56	
Total Xylenes*	<0.150	0.150	12/11/2015	ND	5.38	89.7	6.00	2.04	
Total BTEX	<0.300	0.300	12/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 73.6-140

Chloride, SM4500Cl-B			mg/kg Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/11/2015	ND	400	100	400	3.92	

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	12/10/2015	ND	203	101	200	0.611	
DRO >C10-C28	<10.0	10.0	12/10/2015	ND	195	97.4	200	1.22	

Surrogate: 1-Chlorooctane 78.5 % 35-147

Surrogate: 1-Chlorooctadecane 81.6 % 28-171

*=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

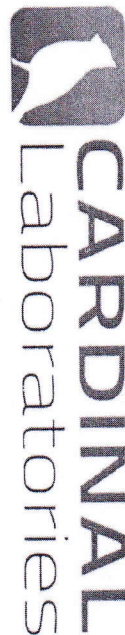
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

pg 1

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

Company Name: <u>Hungry Horse</u>		BILL TO		ANALYSIS REQUEST											
Project Manager: <u>Vernon Black / Mylan Crocker</u>		P.O. #:													
Address: <u>3709 S East</u>		Company: <u>Apache</u>													
City: <u>Hobbs</u>		Attn: <u>Bruce Baker</u>													
Phone #: <u>575 631-2293</u>		Address:													
Fax #: <u></u>		City:													
Project #:		State: <u>NM</u> Zip: <u>88240</u>													
Project Name: <u>Apache - NEPA # 50340</u>		State: <u></u> Zip: <u></u>													
Project Location: <u>Service, NM</u>		Phone #:													
Sample Name: <u>Mylan Crocker</u>		Fax #:													
FOR LAB USE ONLY															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING							
		GROUNDWATER		WASTEWATER											
		SOIL		OIL											
		SLUDGE		OTHER:											
		ACID/BASE:		ICE / COOL											
		OTHER:		DATE	TIME										
<u>H50340</u>	<u>R4P16"</u>			<u>12/8/15</u>											
<u>2</u>	<u>R4P1 1'</u>														
<u>3</u>	<u>R4P1 1.5'</u>														
<u>4</u>	<u>R4P2 surface</u>														
<u>5</u>	<u>R4P2 6"</u>														
<u>6</u>	<u>R4P2 1'</u>														
<u>7</u>	<u>R4P3 surface</u>														
<u>8</u>	<u>R4P3 6"</u>														
<u>9</u>	<u>R4P3 1'</u>														
<u>10</u>	<u>R4P3 1.5'</u>														
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Relinquished By: <u>[Signature]</u>		Date: <u>12/8/15</u>		Received By: <u>Judy Garcia</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS: <u>Proce Baker</u> <u>Vernon Black</u> <u>Mylan Crocker</u> <u>cc102101@hungry-horse.com</u>					
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>440</u>		Sample Condition Cpo: <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <u>[Signature]</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:							

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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(575) 393-2326 FAX (575) 393-2476

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

January 21, 2016

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: NEDU #503 W

Enclosed are the results of analyses for samples received by the laboratory on 01/20/16 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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:

 Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

 Received: 01/20/2016
 Reported: 01/21/2016
 Project Name: NEDU #503 W
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 01/20/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Amanda Ponce

Sample ID: RSP 3 3.5' BGS (H600123-01)

Sample ID: RSP 3 3.5 BGS (H000123 01)			Analyzed By: AP						
Chloride, SM4500Cl-B		mg/kg							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	01/20/2016	ND	400	100	400	3.92	

Sample ID: RSP 3 4.5' BGS (H600123-02)

Sample ID: RSP 3 4.5 BGS (1800110 02)			Analyzed By: AP						
Chloride, SM4500Cl-B		mg/kg							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	01/20/2016	ND	400	100	400	3.92	

Sample ID: RSP 3 5.5' BGS (H600123-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	01/20/2016	ND	400	100	400	3.92	


Sample ID: RSP 3 6.5' BGS (H600123-04)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	480	16.0	01/20/2016	ND	400	100	400	3.92			

* = 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

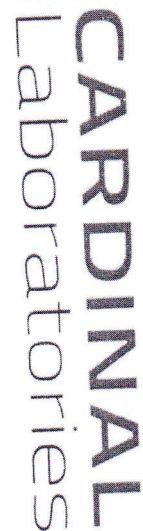
* = Accredited Analyte

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

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

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Apache Corp	Contact Bruce Baker
Address 2350 W Marland Blvd, Hobbs, NM 88240	Telephone No. 432 631 6982
Facility Name NEDU #503W	Facility Type Injection Well

Surface Owner State of NM	Mineral Owner	API No. 30-025-06473
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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
K	10	21S	37E	2080'	FSL	2080	FWL	Lea

Latitude 32.49185 Longitude -103.15268

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 65 bbls	Volume Recovered 60 bbls
Source of Release Fiberglass Line	Date and Hour of Occurrence 21 Nov 15 Hour-Unknown	Date and Hour of Discovery 21 Nov 15
Was Immediate Notice Given? X Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Kellie Jones-NM OCD	
By Whom? Bruce Baker	Date and Hour 23 Nov 15	
Was a Watercourse Reached? X Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*

The 2" nipple corroded on the main trunk line resulting in the loss of fluid. The line was isolated and repaired. A vacuum truck was dispatched to pick up standing fluid.

Describe Area Affected and Cleanup Action Taken.*

The majority of the release contained to the lease road with an area approximately 1,000sf affected in the pasture. Soil samples were obtained at four sample points, three in the pasture and one in the lease road. Lab results indicated to contaminants of concern from the pasture samples, thus no remediation was conducted. The impacted area of the lease road was narrow strip running approximately 70' along the side of the road. Soil analysis indicated a presence of chlorides, however at 3.5' BGS a significant drop in in levels occurred. Due to the drop in chloride levels reaching closure limits, this being a heavily traveled road, and relatively small impacted area, no remediation work was conducted. All data and information is submitted with this form requesting closure.

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: <i>Bruce Baker</i>		OIL CONSERVATION DIVISION	
Printed Name: Bruce Baker		Approved by Environmental Specialist: <i>Jamie Hays</i>	
Title: Environmental Technician		Approval Date: 02/10/2016	Expiration Date: ///
E-mail Address: larry.baker@apachecorp.com		Conditions of Approval: ///	Attached <input type="checkbox"/>
Date: 5Feb16		Phone: 432 631 6982	

* Attach Additional Sheets If Necessary