

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	NFE Federal #11	Facility Type	Oil Well

Surface Owner	BLM	Mineral Owner		API No.	30-015-37359
---------------	-----	---------------	--	---------	--------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	8	17S	31E	1650'	FNL	1650'	FEL	Eddy

Latitude 32.851747 Longitude -103.888825

NATURE OF RELEASE

Type of Release	Oil and Produced Water	Volume of Release	2 barrels of oil and 6 barrels of water	Volume Recovered	0 barrels
Source of Release	Flow line	Date and Hour of Occurrence	8/17/2014	Date and Hour of Discovery	8/17/2014 at 9:00 a.m.
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Jeffery Robertson with the BLM		
By Whom?	Bruce Baker	Date and Hour	8/17/2014 at 12:59 p.m.		
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.*

A pin hole developed in the 3 inch steel flow line. The well was shut in, and the line was repaired.

Describe Area Affected and Cleanup Action Taken.* A total of 2,741 sq ft of standing fluid and 3,224 sq ft of overspray affected the lined lease pad and pasture area. The pasture area that was affected was a small ravine to the west of the lease pad. Peat absorbent was used in the ravine area to soak up the standing fluid and then this was removed by shovel. A berm was installed on the west side of the lease pad to prevent run-off. Three points within the release were sampled at the surface and with depth. Representative samples from the points were taken to a commercial laboratory for analysis. Based on the laboratory analysis, the area around Point 1 and Point 3 were scraped down 6 inches. The area around Point 1 could not be scraped deeper, due to the presence of a liner beneath the pad. The area around Point 2 was scraped down 1.5 ft. Because Point 3 was located in a ravine, this area was hand shoveled to remove the contaminated soil. On October 13th, 2014, a request to backfill the site was sent to NMOCD and BLM. Both agencies approved the site to be backfilled on October 14th, 2014. Clean caliche was imported to the site to backfill the scrape on the lease pad, and clean top soil was imported to the site to backfill the area around Point 2. Apache requested that the area around Point 3 not be backfilled, since it was located in a ravine, and only 6 inches from the ravine was removed.

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:		
Title: Environmental Technician	Approval Date:	Expiration Date:	
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>11-21-14</u> Phone: (432) 631-6982			

* Attach Additional Sheets If Necessary

August 22, 2014

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NFE FEDERAL #11

Enclosed are the results of analyses for samples received by the laboratory on 08/19/14 9:10.

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:

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

Received:	08/19/2014	Sampling Date:	08/17/2014
Reported:	08/22/2014	Sampling Type:	Soil
Project Name:	NFE FEDERAL #11	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 (H402528-01)

BTEX 8021B		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	36.2	5.00	08/20/2014	ND	1.80	89.8	2.00	5.15	
Toluene*	194	5.00	08/20/2014	ND	1.65	82.6	2.00	4.46	
Ethylbenzene*	208	5.00	08/20/2014	ND	1.84	91.8	2.00	4.49	
Total Xylenes*	214	15.0	08/20/2014	ND	5.47	91.1	6.00	5.21	
Total BTEX	653	30.0	08/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	08/19/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	6520	500	08/19/2014	ND	191	95.7	200	0.146		
DRO >C10-C28	35100	500	08/19/2014	ND	207	103	200	0.978		

Surrogate: 1-Chlorooctane 380 % 65.2-140

Surrogate: 1-Chlorooctadecane 855 % 63.6-154

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

Analytical Results For:

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

Received:	08/19/2014	Sampling Date:	08/17/2014
Reported:	08/22/2014	Sampling Type:	Soil
Project Name:	NFE FEDERAL #11	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 2 (H402528-02)

BTEX 8021B		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.61	2.00	08/20/2014	ND	1.80	89.8	2.00	5.15	
Toluene*	44.3	2.00	08/20/2014	ND	1.65	82.6	2.00	4.46	
Ethylbenzene*	78.4	2.00	08/20/2014	ND	1.84	91.8	2.00	4.49	
Total Xylenes*	89.2	6.00	08/20/2014	ND	5.47	91.1	6.00	5.21	
Total BTEX	215	12.0	08/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9330	16.0	08/19/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	3580	500	08/19/2014	ND	191	95.7	200	0.146		
DRO >C10-C28	28400	500	08/19/2014	ND	207	103	200	0.978		

Surrogate: 1-Chlorooctane 275 % 65.2-140

Surrogate: 1-Chlorooctadecane 691 % 63.6-154

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:	08/19/2014	Sampling Date:	08/17/2014
Reported:	08/22/2014	Sampling Type:	Soil
Project Name:	NFE FEDERAL #11	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 3 (H402528-03)

BTEX 8021B		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.58	5.00	08/20/2014	ND	1.80	89.8	2.00	5.15	
Toluene*	85.8	5.00	08/20/2014	ND	1.65	82.6	2.00	4.46	
Ethylbenzene*	144	5.00	08/20/2014	ND	1.84	91.8	2.00	4.49	
Total Xylenes*	164	15.0	08/20/2014	ND	5.47	91.1	6.00	5.21	
Total BTEX	400	30.0	08/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	08/19/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	5140	500	08/19/2014	ND	191	95.7	200	0.146		
DRO >C10-C28	30200	500	08/19/2014	ND	207	103	200	0.978		

Surrogate: 1-Chlorooctane 354 % 65.2-140

Surrogate: 1-Chlorooctadecane 700 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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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.
- 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



Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Apache
 Project Manager: Laura Flores
 Address:
 City: Hobbs State: NM Zip: 88240
 Phone #: Fax #: Attn:
 Project #: Fax #: Project Owner:
 Project Location: NFE Federal # 11
 Project Name: Karanja Lewis
 Sample Name: Karanja Lewis
 FOR LAB USE ONLY

P.O. #:
 Company:
 Address:
 City: State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING	DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:										
H402578	Point 1		9									8-17-14								
	Point 2		9									8-17-14								
	Point 3		9									8-17-14								

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. In no event shall Cardinal be liable for incidental or consequential damages, including but not limited to, lost profits, lost business, or loss of data, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services provided by Cardinal. This limitation shall apply to all claims, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Karanja Lewis
 Date: 8-18-14 Time: 9:10
 Received By: Scotti Stender
 Date: 8-18-14 Time: 9:10
 Delivered By: (Circle One)
 Sampler - UPS - Bus - Other:
 Sample Condition: Cool Intact Yes No
 CHECKED BY: (Initials) [Signature]

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS:
 email: hconder@riceswd.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; knorman@rice-ecs.com; jkampaign@rice-ecs.com; sedwards@rice-ecs.com; cursanic@rice-ecs.com; Environmental Tech: K Lewis @rice-ecs.com

#54



September 11, 2014

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NFE FED #11

Enclosed are the results of analyses for samples received by the laboratory on 09/04/14 14:43.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

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:	09/04/2014	Sampling Date:	08/26/2014
Reported:	09/11/2014	Sampling Type:	Soil
Project Name:	NFE FED #11	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ 6" (H402748-01)

BTEX 8021B		mg/kg		Analyzed By: MS				O-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2014	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	09/10/2014	ND	1.83	91.4	2.00	3.90	
Ethylbenzene*	<0.050	0.050	09/10/2014	ND	1.70	84.8	2.00	3.77	
Total Xylenes*	<0.150	0.150	09/10/2014	ND	5.15	85.8	6.00	3.51	
Total BTEX	<0.300	0.300	09/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	09/10/2014	ND	400	100	400	7.69	

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	09/06/2014	ND	180	90.1	200	0.353	
DRO >C10-C28	<10.0	10.0	09/06/2014	ND	213	107	200	0.664	

Surrogate: 1-Chlorooctane 72.9 % 65.2-140
Surrogate: 1-Chlorooctadecane 84.0 % 63.6-154

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:	09/04/2014	Sampling Date:	08/26/2014
Reported:	09/11/2014	Sampling Type:	Soil
Project Name:	NFE FED #11	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: PT. 2 @ 1.5' (H402748-02)

BTEX 8021B		mg/kg		Analyzed By: MS				O-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2014	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	09/10/2014	ND	1.83	91.4	2.00	3.90	
Ethylbenzene*	<0.050	0.050	09/10/2014	ND	1.70	84.8	2.00	3.77	
Total Xylenes*	<0.150	0.150	09/10/2014	ND	5.15	85.8	6.00	3.51	
Total BTEX	<0.300	0.300	09/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/10/2014	ND	400	100	400	7.69	

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	09/06/2014	ND	180	90.1	200	0.353	
DRO >C10-C28	43.3	10.0	09/06/2014	ND	213	107	200	0.664	

Surrogate: 1-Chlorooctane 90.1 % 65.2-140
Surrogate: 1-Chlorooctadecane 96.6 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- O-04 This sample was analyzed outside the EPA recommended holding time.
- 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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Apache P.O. #: _____
 Project Manager: Bruce Baker Company: _____
 Address: _____ Attn: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____ City: _____ State: _____ Zip: _____
 Project Name: _____
 Project Location: RICE Feed #11 Phone #: _____ Fax #: _____
 Sampler Name: Kyle H.

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :								
<u>H462748</u>	<u>PL1 B64</u>	<u>9</u>	<u>1</u>										<u>8-26-14</u>	<u>11:00</u>	<u>---</u>	<u>---</u>	<u>---</u>			
<u>2</u>	<u>PL2 L.S.</u>	<u>9</u>	<u>1</u>										<u>8-26-14</u>	<u>10:00</u>	<u>---</u>	<u>---</u>	<u>---</u>			

Relinquished By: _____ Date: 8-4-14 Received By: Bruce Baker
 Relinquished By: _____ Date: 8-4-14 Received By: Bruce Baker

Delivered By: (Circle One) UPS Sample Condition Cool Intact
 Sampler - UPS - Bus - Other: _____

REMARKS: _____
 email results: hconder@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; regans@rice-ecs.com; lflores@rice-ecs.com; lweilheimer@rice-ecs.com; kJones@riceswd.com; cursantic@rice-ecs.com
 environmental tech: Bruce @rice-ecs.com

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 for

September 25, 2014

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NFE FED #11

Enclosed are the results of analyses for samples received by the laboratory on 09/24/14 9:15.

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:

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

Received:	09/24/2014	Sampling Date:	09/23/2014
Reported:	09/25/2014	Sampling Type:	Soil
Project Name:	NFE FED #11	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 3 @ 6" (H402923-01)

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	09/24/2014	ND	1.75	87.6	2.00	3.42		
Toluene*	<0.050	0.050	09/24/2014	ND	1.64	81.8	2.00	3.34		
Ethylbenzene*	<0.050	0.050	09/24/2014	ND	1.52	75.9	2.00	4.67		
Total Xylenes*	<0.150	0.150	09/24/2014	ND	4.50	75.0	6.00	4.67		
Total BTEX	<0.300	0.300	09/24/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 89.4-126

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	09/24/2014	ND	183	91.6	200	1.51		
DRO >C10-C28	50.9	10.0	09/24/2014	ND	190	95.1	200	7.86		

Surrogate: 1-Chlorooctane 91.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.2 % 63.6-154

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



Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: <u>Apache</u>		P.O. #:
Project Manager: <u>1 Bruce Baker</u>		Company:
Address:		Attn:
City:	State:	Address:
Phone #:	Fax #:	City:
Project #:	Project Owner:	State:
Project Name:	Project Location: <u>NFE # 11</u>	Zip:
Sampler Name:	Phone #:	Fax #:
FOR LAB USE ONLY		
Lab I.D. <u>H4D2923</u>	Sample I.D.	(G)RAB OR (C)OMP.
<u>1</u>	<u>PT. 3 @ 617</u>	# CONTAINERS
		GROUNDWATER
		WASTEWATER
		SOIL
		OIL
		SLUDGE
		OTHER:
		ACID/BASE:
		ICE / COOL
		OTHER:
		DATE
		TIME
		Chlorides
		TPH 8015 M
		BTEX
		Texas TPH
		Complete Cations/Anions
		TDS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>Kelle Humphrey</u>	Date: <u>9/24/14</u>	Received By: <u>Jodi Henderson</u>	Date: <u>9-23-14</u>
Time:	Time:	Time:	Time:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>-7.42</u>	Sample Condition Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: <u>[Signature]</u> (Initials)	

REMARKS:
email results: Bruce Baker
hconder@rice-ecs.com; knorman@rice-ecs.com;
jkampain@rice-ecs.com; regans@rice-ecs.com; flores@rice-ecs.com;
lweihheimer@rice-ecs.com; cursanitic@rice-ecs.com
environmental tech: K Humphrey @rice-ecs.com

* Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54

RUSH!!