

APACHE CORPORATION

P.O.Box 1849 Eunice, NM 88231 Phone 575.394.3159

WBDU #38

(1RP-3398)

Termination Request

API No. 30-025-09906

Release Date: March 27th, 2014

Unit Letter O, Section 9, Township 21S, Range 37E



PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

November 20th, 2014

Dr. Tomáš Oberding, PhD

Environmental Specialist – New Mexico Oil Conservation Division Energy, Minerals and Natural Resources Department 1625 N. French Dr. Hobbs, NM 88240

> RE: Termination Request Apache Corporation – WBDU #38 (1RP-3398) UL/O sec. 9 T21S R37E API No. 30-025-09906

Dr. Oberding:

Apache Corporation (Apache) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 5.6 miles east of Oil Center, New Mexico at UL/O sec. 9 T21S R37E. NM OSE and BLM records indicate that groundwater will likely be encountered at a depth of approximately 63 +/- feet.

On March 27th, 2014, a release occurred below the isolation valve coupling, releasing 5 barrels of produced water over 7,931 square feet of lease pad and pasture land. A vacuum truck was dispatched to the site and recovered 1 barrel of produced water. The well was shut in, and the valve was replaced. An initial C-141 informing NMOCD of the release was signed on April 17th, 2014, and was submitted to NMOCD for their approval. NMOCD approved the initial C-141 on October 29th, 2014 (Appendix A).

RECS personnel were on site beginning on March 28th, 2014, to assess the release. The site was photographed and GPS mapped. Seven points within the stain and one point on the battery pad were sampled at the surface and with depth (Figure 1). The bottom samples from each auger point were field tested for chlorides and organic vapors. The bottom samples from the six auger points in the release on the pasture were taken to a commercial laboratory for analysis (Appendix B). Point1, which was located on the lease pad, did not have its sample taken to the lab. Instead, Apache determined that a more effective remediation process was to scrape the release area on the pad down 8 inches. A five point composite was then taken from the base of the 8 inch scrape. The sample was taken to a commercial laboratory for analysis and returned a chloride value of 240 mg/kg, a Diesel Range Organics (DRO) value of 54.2 mg/kg and a Gasoline Range Organics (GRO) value of non-detect.

Based on the laboratory analysis of the release area in the pasture, the pasture was excavated in four parts to remove the contaminated soil. Points 2, 3, 4, and 5 were scraped from 1 - 2.5 feet bgs. Point 6 was excavated to 4 ft bgs, and Point 7 was scraped to 6 inches bgs. All scrapes remained 5 ft away from any underground pipelines to provide safety measures for equipment and personnel.

Ten wall samples were taken throughout the release area in the pasture, and the samples were field tested for chlorides and organic vapors. Seven of the wall samples were then taken to a commercial laboratory for analysis. The remaining three wall samples were not taken to a commercial laboratory, since they were located along the buried gas line. The seven wall samples returned laboratory chloride values below 250 mg/kg and GRO and DRO values of non-detect, except for South Wall 2, which returned a laboratory chloride reading of 304 mg/kg. All excavated soil was taken to a NMOCD approved facility for disposal. Clean top soil and caliche were imported to the site to serve as backfill. The lease pad was backfilled with the imported caliche, and the pasture area was backfilled with the imported top soil. All areas were contoured to the surrounding location. On October 6th, 2014, the disturbed area in the pasture was seeded with 27 lbs of Blue Gramma Mix.

Photo documentation of the field activities can be found in Appendix C.

Given that Apache has removed the contaminated soil and disposed of it at a NMOCD approved facility, Apache respectfully requests 'remediation termination' and site closure. A final C-141 can be found in Appendix D.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

Lara Weinheimer Project Scientist

RECS

(575) 441-0431

Attachments:

Figure 1–Excavation Data

Appendix A – Initial C-141

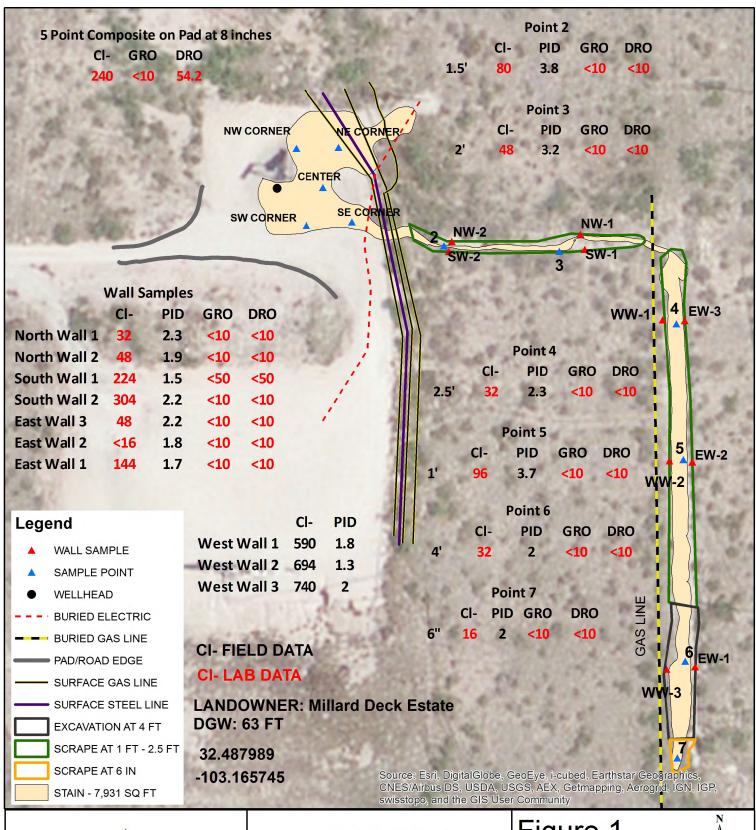
Appendix B – Laboratory Analyses

Appendix C – Photo Documentation

Appendix D – Final C-141

Figures

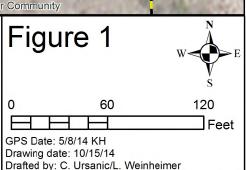
Excavation Data





APACHE WBDU #38

Unit Letter O, Section 9 T-21-S R-37-E LEA COUNTY, NM



Appendix A Initial C-141

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

HOBBS OCD State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

OCT 29 20 4 il Conservation Division 1220 South St. Francis Dr.

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

RECEIVED Santa Fe, NM 87505

			Rele	ease Notific	ation	and Co	rrective A	ction	l	-		
						OPERA'		,		l Report		Final Report
Name of Co						Contact Bra Telephone N	ice Baker lo. 432-631-69	82				
Facility Nar							e injection well					
Surface Ow	ner Millar	d Deck Esta	tes	Mineral O	wner I	Federal			API No	. 30-025-0	9906	
				LOCA	TION	OF REI	LEASE					
Unit Letter · O	Section 9	Township 21S	Range 37E	Feet from the 660'		South Line FSL	Feet from the 1980'		West Line FEL		Coun Lea	•
	•		La	titude		_ Longitud	e					
				NAT	URE	OF RELI	EASE					
Type of Relea	ise Produce	d Water				Volume of water	Release 5 Barrel	s of	Volume R	ecovered 1	Barre	of water
Source of Rel	case injecti	ion line					our of Occurrence	e	Date and 1	Hour of Dis t 6:00 a.m.	covery	
Was Immedia	te Notice G		Yes 🗌	No ⊠ Not Re	If YES, To	Whom?		<i>5,2,7,1</i> t t	1 0,00 u.m.			
By Whom?						Date and H						
Was a Watercourse Reached? ☐ Yes ☒ No If YES, Volume Impacting the Watercourse.												
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regulations all public health of should their of	operators a or the environations ha ment. In ad	re required to onment. The a ve failed to a dition, NMO	report and acceptance lequately CD accept	is true and compl d/or file certain re e of a C-141 repor investigate and re ance of a C-141 r	lease no it by the mediate	tifications an NMOCD macontamination	d perform correct irked as "Final Re in that pose a thre	ive acti port" de at to gr	ons for rele oes not relic ound water,	ases which eve the oper surface wa	may er ator of ter, hu	ndanger Tiability man health
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Signature:	Bruce	Baher			_ .				7			.
Printed Name:	Bruce Bak	er				Approved by	Invironmental Sp	ecialist	:			
Title: Environ	mental Tec	hnician				Approval Date	: 10-29-19	E	Expiration I	Date: /2	-29-	14
E-mail Addres	s: larry.bak	er@apacheco	rp.com		c	Conditions of	Approval:			Attached	<u></u>	
Date: 4/17/14	ı		Phone: (132) 631-6982		Dele 5	sla ryan	C.	- 1-	1	_	18
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OCT 3 0 2014

Appendix B Laboratory Analyses



May 21, 2014

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WBDU #38

Enclosed are the results of analyses for samples received by the laboratory on 05/20/14 10:00.

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/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.

Celey D. Keens

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



APACHE - EUNICE BRUCE BAKER P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received: 05/20/2014 Reported: 05/21/2014

Project Name: WBDU #38
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/19/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD 5 PT COMP @ 8" (H401535-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/21/2014	ND	416	104	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	05/21/2014	ND	232	116	200	0.445	
DRO >C10-C28	54.2	10.0	05/21/2014	ND	260	130	200	1.06	
Surrogate: 1-Chlorooctane	104	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111	% 63.6-15	4						

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	: APache								not.	B	14	170	unication.				-	ANAL	YSIS	RE	QUES	ST			_ 1
Project Manager								P.0	.#:																
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City: Hobbs	State: NM	Zip	: 88	240				Attr	1:									ō							\
Phone #:	Fax #:							Add	ires	s:					8			An						1	1
Project #:	Project Owner	:						City	:					S	Σ		I	S/				8 1		V	1
Project Name:								Sta	te:		Zi	ip:		ge	15	×	유	on	0				1	1	1
Project Location	1: WBDU #38							Pho	ne i	#:				Chlorides	801	BTEX	Texas TPH	Cations/Anions	TDS				Ч	\	
Sampler Name:	Kyle Humphrey	_	_	_				Fax	_		_			글	I	m	×		-			, 1	1)	
FOR LAB USE ONLY		a.			MA	ATRI	X		PRE	SER	٧ 	SAMPLI	NG	0	TPH		He	ete			h	1	1		
Lab I.D.	Sample I.D.	(G) RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL		DATE	TIME					Complete			1	//	_		
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PLEASE NOTE: Liability and Danages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or torf, 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 consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, artifacts or successors asigned out of or related to the performance of services bereauder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: MOLO AVM	Date 2014 Rece	10 1. M. 11 1000	Phone Result: □ Yes ☑ No Add'l Phone #: Fax Result: □ Yes ☑ No Add'l Fax #: REMARKS: □ Yes ☑ No Add'l Fax #:
Relinquished By:	Date: Rege	lived By:	email results Knorman@rice-ecs.com Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com;
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition CHECKED BY: Cool Intact (fritials) Pyes Yes No No	Lweinheimer@rice-ecs.com Khumphrey@rice-ecs.com sedwards@rice-ecs.com,lflores@rice-ecs.com

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



May 14, 2014

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WBDU #38

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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.

Celey D. Keens

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



APACHE - EUNICE BRUCE BAKER P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received: 05/09/2014
Reported: 05/14/2014

Project Name: WBDU #38
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/06/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: NORTH WALL #1 (H401407-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/13/2014	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	05/13/2014	ND	189	94.6	200	3.60	
DRO >C10-C28	<10.0	10.0	05/13/2014	ND	205	103	200	3.63	
Surrogate: 1-Chlorooctane	91.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.5	% 63.6-15	4						

Sample ID: NORTH WALL #2 (H401407-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/13/2014	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	05/13/2014	ND	189	94.6	200	3.60	

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Celey D. Keine

114 %

63.6-154

Surrogate: 1-Chlorooctadecane



APACHE - EUNICE BRUCE BAKER P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received: 05/09/2014 Reported: 05/14/2014

05/14/2014 WBDU #38 NONE GIVEN

Project Location: NOT GIVEN

Project Name:

Project Number:

Sampling Date: 05/06/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SOUTH WALL #1 (H401407-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/13/2014	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	<50.0	50.0	05/13/2014	ND	189	94.6	200	3.60	
DRO >C10-C28	<50.0	50.0	05/13/2014	ND	205	103	200	3.63	

Surrogate: 1-Chlorooctane 116 % 65.2-140
Surrogate: 1-Chlorooctadecane 132 % 63.6-154

Sample ID: SOUTH WALL #2 (H401407-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/13/2014	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	05/13/2014	ND	189	94.6	200	3.60	
DRO >C10-C28	<10.0	10.0	05/13/2014	ND	205	103	200	3.63	
Surrogate: 1-Chlorooctane	114 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116	% 63.6-15	4						

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APACHE - EUNICE BRUCE BAKER P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received: 05/09/2014 Reported: 05/14/2014

05/14/2014 WBDU #38 NONE GIVEN

NOT GIVEN

122 %

63.6-154

Project Location:

Project Name:

Project Number:

Sampling Date: 05/06/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: PT. 3 @ 2' (H401407-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/13/2014	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	05/13/2014	ND	189	94.6	200	3.60	
DRO >C10-C28	<10.0	10.0	05/13/2014	ND	205	103	200	3.63	
Surrogate: 1-Chlorooctane	122	% 65.2-14	0						

Sample ID: PT. 4 @ 2.5' (H401407-06)

Surrogate: 1-Chlorooctadecane

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/13/2014	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	05/13/2014	ND	189	94.6	200	3.60	
DRO >C10-C28	<10.0	10.0	05/13/2014	ND	205	103	200	3.63	
Surrogate: 1-Chlorooctane	124	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	123	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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APACHE - EUNICE BRUCE BAKER P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received: 05/09/2014 Reported: 05/14/2014

05/14/2014 WBDU #38

126 %

63.6-154

Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/06/2014

Sampling Type: Soil
Sampling Condition: Cool & Intact

Sample Received By: Jodi Henson

Sample ID: EAST WALL #3 (H401407-07)

Project Name:

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/13/2014	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	05/13/2014	ND	189	94.6	200	3.60	
DRO >C10-C28	<10.0	10.0	05/13/2014	ND	205	103	200	3.63	

Surrogate: 1-Chlorooctane 116 % 65.2-140
Surrogate: 1-Chlorooctadecane 117 % 63.6-154

Sample ID: EAST WALL #1 (H401407-08)

Chloride, SM4500Cl-B	loride, SM4500Cl-B mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/13/2014	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	05/13/2014	ND	189	94.6	200	3.60	
DRO >C10-C28	<10.0	10.0	05/13/2014	ND	205	103	200	3.63	
Surrogate: 1-Chlorooctane	123	% 65.2-14	0						

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Celey D. Keine

Surrogate: 1-Chlorooctadecane



APACHE - EUNICE BRUCE BAKER P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received: 05/09/2014

Sampling Date: 05/07/2014 Sampling Type: Soil

Reported: 05/14/2014 Project Name: WBDU #38

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sample ID: PT. 7 @ 6" (H401407-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/13/2014	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	05/13/2014	ND	189	94.6	200	3.60	
DRO >C10-C28	<10.0	10.0	05/13/2014	ND	205	103	200	3.63	
Surrogate: 1-Chlorooctane	118	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	127	% 63.6-15	4						

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL 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

	(505) 393-2326 FAX (505) 393-2	24/0	(32	3) 0	13-	BILL TO ANALYSIS REQUEST										ST																								
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Project Manager	Fruce b	ICK	9/				_				_		_						(0)																					
Address:								Co	mp	any	:								Ë																					
City: Hobbs	State: NM	Zip	: 88	240				At	tn:	_									Cations/Anions																					
Phone #:	Fax #:																								Ac	dre	ess:						_			A				
Project #:	Project Own	er:					Ci	ty:						S	Σ		프	JS.																						
Project Name:									State: Zip:						Chlorides	115	×	Texas TPH	ō	S																				
Project Location	1: WBDV #38																							Pho		hone #:					2	801	BTEX	SS	at	TDS			1 1	
Sampler Name:	. ** ** ** ** ** ** ** ** ** ** ** ** **							Fa	x#	:					ž	HH	m	X		-																				
FOR LAB USE ONLY		\top	T		M	ATR	IX		PR	RESI	ERV.	SAM	IPLIN	NG	0	0		H	ete																					
Lab I.D.	Sample I.D.	(G)RAB OR (C)(# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL OIL OIL IDOE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DAT		TIME					Complete																					
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3	South Wall #1	G	1			1	+	+	+	1	,	5-6	-14	9:10	V	1																								
4	5 outh Well #2	6	11			/	+	+	+	V	/			9:20	17	1	1																							
5	Pt,)@ 2 Ft.	6	1	-	-	1	+	+	+	-	_			9:25	1	1																								
6	b 1.4@ 2.5 Ft.	16	1	-		1	+	+	+	1	-			9:30	_	1																								
7	East Well#3	6		-		1	+	+	+		,			4:00		1/																								
9	East Well #2	6		-		1	+	+	+	-	/	5-7	- 14	4:05	V	1																								
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affiliates or successors arising out of or related to the performe	ance of services hereunder	by Cardinal, regardless of whether social claims	A Description of the second	Phone Result: Yes	☑ No	Add'l Phone #:	
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Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condit Cool Infact Tyes Tyes No N	(Initials)	cursanic@rice-e Environmental T	cs.com		@rice-ecs.com
		I NO I N	1				

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



May 14, 2014

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WBDU #38

Enclosed are the results of analyses for samples received by the laboratory on 05/09/14 9:20.

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/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.

Celey D. Keens

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



APACHE - EUNICE BRUCE BAKER P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received: 05/09/2014 Reported: 05/14/2014

Project Name: WBDU #38
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/05/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT. 2 @ 1.5' (H401405-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/13/2014	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	05/12/2014	ND	195	97.3	200	0.174		
DRO >C10-C28	<10.0	10.0	05/12/2014	ND	205	102	200	0.686		

Surrogate: 1-Chlorooctane 110 % 65.2-140
Surrogate: 1-Chlorooctadecane 110 % 63.6-154

127 %

63.6-154

Sample ID: PT. 5 @ 1' (H401405-02)

Surrogate: 1-Chlorooctadecane

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/13/2014	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	05/12/2014	ND	195	97.3	200	0.174		
DRO >C10-C28	<10.0	10.0	05/12/2014	ND	205	102	200	0.686		
Surrogate: 1-Chlorooctane	128	% 65.2-14	70							

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APACHE - EUNICE BRUCE BAKER P. O. BOX 1849 EUNICE NM, 88231 Fax To: 394-2425

Received: 05/09/2014

Reported: 05/14/2014
Project Name: WBDU #38
Project Number: NONE GIVEN

NOT GIVEN

Sampling Date: 05/05/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT. 6 @ 4' (H401405-03)

Project Location:

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/13/2014	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	05/12/2014	ND	195	97.3	200	0.174		
DRO >C10-C28	<10.0	10.0	05/12/2014	ND	205	102	200	0.686		

Surrogate: 1-Chlorooctane 112 % 65.2-140
Surrogate: 1-Chlorooctadecane 111 % 63.6-154

Sample ID: EAST WALL #2 (H401405-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/13/2014	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	05/13/2014	ND	189	94.6	200	3.60	
DRO >C10-C28	<10.0	10.0	05/13/2014	ND	205	103	200	3.63	
Surrogate: 1-Chlorooctane	110	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	109	% 63.6-15	4						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326	Hobbs, NM 88240 2 FAX (505) 393-2476 (325) 6	13-10	101	T AA	(OZ.			. 70					A	NAL	YSIS RE	QUES		_		ヿ				
ompany Name: APache					955	0. #:	- 4	***										- 1			- 1				
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ampler Name:		_	MA	ATRIX	_		ESE	RV.	SAMPLING	G	O	ā		1 e	ete										
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PLEASE NOTE: Liability and Damages. Cardinal's liability and Damages of the seguence and in the seguence a	lity and client's exclusive remedy for any cl	taim arising	whether	based in	contract	t or tort,	shall b	e limite Cardinal	d to the amount pa within 30 days after	id by the client	for the of the applications.	plicable													
PLEASE NOTE: Liability and Damages. Cardinal's liabil analyses. All claims including those for negligence and uservice. In no event shall Cardinal be liable for incidenta offiliates or successors arising out of or related to the period of t	of or consequental damages, including warformance of services hereunder by Cardinary Times of the Cardinary	ned waived inout limitational, regardle Receive	d By	ether su	ruptions, sch claim	loss of is base	d upon	loss of arry of t	profits incurred by the above stated in	Phone Fax Res REMAR	Result: sult: RKS:	Broond	er@		wd.c	om; Iflore; knorma				;					
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2446

Appendix C Photo Documentation

Apache WBDU #38Unit Letter O, Section 9, T21S, R37E



Initial release area, facing southwest

3/28/14



Initial release area, facing north

3/28/14



Initial release area, facing east

3/28/14



Initial release area, facing west

3/28/14



Excavating release, facing southeast

5/6/14



Exporting soil, facing northwest

5/7/14



Excavating release, facing southeast

5/7/14



Site backfilled, facing west

10/6/14



Site backfilled, facing north

10/6/14



Site backfilled, facing north

10/6/14



Tilling, facing east

10/6/14



Seeding, facing west

10/6/14







Final photo, facing southeast

10/6/14



Final photo, facing west

Appendix D Final C-141

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

State of New Mexico **Energy Minerals and Natural Resources**

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.

			Rel	ease Notific	atio	and Co	orrective A	ction							
						OPERATOR									
		Apache Corp				Contact Bruce Baker Telephone No. (422) (21 (022)									
Facility Na		ne Eunice, N	M 8823			Telephone No. (432) 631-6982 Facility Type injection well									
Surface Ow	ner Milla	ard Deck Est	ates	Mineral O	wner]	er Federal API No. 30-025-09906									
			******			OF RE	LEASE								
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West Li	ne County						
0	9	218	37E	660'	F	FSL	1980,	FEL	Eddy						
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				NAT	URE	OF RELI	EASE								
Type of Rele	ase Prod	uced Water		•			Release 5 barrel	s of Volur	ne Recovered 1 Barrel of water						
Source of Re	lease Injec	tion line				Date and H	lour of Occurrenc		and Hour of Discovery						
Was Immedia	ata Notica (Sivan?				3/27/2014 If YES, To	Whom?	3/27/2	014 at 6:00 a.m.						
Was minicula	ate Hotice (Yes [No 🗵 Not Red	quired	11 1123, 10	WHOIR!								
By Whom?						Date and Hour									
Was a Water	course Read		Yes 🗵	l No		If YES, Volume Impacting the Watercourse.									
If a Watercon	iree wae Im	pacted, Descri]									
Describe Are beginning on sampled at the for analysis. I process was to then taken to detect. Based were scraped to a commerce detect, except	a Affected a March 28 th e surface ar Point I, white o scrape the a commercial on the lab from 1-2.5 ial laborato	p standing flu and Cleanup A , 2014, to asse d with depth. ch was located e release area of ial lahoratory oratory analysis feet bgs. Poir ry for analysis Wall 2, which	Action Takes and ma The botto I on the lead for analysies, the releat 6 was ex-	ten.* A total of 7, p the site. Based of m samples from the ase, did not have it down 8 inches. A is and returned a clease area in the past cavated to 4 feet ben wall samples retails aboratory chlorical.	931 squ on the a se six au s sampl five po hloride sture wa ogs, and turned 1 de readi	nare feet of passessment, se ager points in the taken to the bint compositivatue of 240 as excavated if Point 7 was aboratory chling of 304 mg	ad and pasture lan ven points within the release on the lab. Instead, Ap e was taken from mg/kg, a DRO va in four parts to res scraped to 6 inch oride values belo /kg, The lease pa	d was affected. the stain and compasture were to ache determine the base of the lue of 54.2 mg, move the contains bgs. Seven ow 250 mg/kg and was backfille	RECS personnel were on site ne point on the battery pad were aken to a commercial laboratory at that a more effective remediation 8 inch scrape. The sample was 7kg and a GRO value helow nonminated soil. Points 2, 3, 4 and 5 f the wall samples were then taken and GRO and DRO values of nond dwith clean imported caliche, and						
I hereby certifications all public health should their o	fy that the i l operators or the envir perations h ment. In a	nformation givare required to comment. The ave failed to a ddition, NMO	ven above o report an acceptanc dequately CD accept	d/or file certain rel e of a C-141 repor investigate and rer	ete to the lease no t by the mediate	e best of my to tifications an NMOCD ma contamination	knowledge and und greater to correct when as "Final Reson that pose a three the operator of resonance the operator of reso	nderstand that prive actions for port" does not at to ground we sponsibility for	mma Mix. oursuant to NMOCD rules and releases which may endanger relieve the operator of liability ater, surface water, human health or compliance with any other						
Signature:		ce Bal	<u>ler</u>				OIL CONS	EKVATIO	N DIVISION						
Printed Name	: Bruce Bal	ССГ			A	approved by l	Environmental Sp	ecialist:							
Title: Environ	mental Tec	h			A	approval Date	2;	Expirati	on Date:						
E-mail Addres	•	:.			Conditions of	Approval:		Attached							
Date:	11-20	1-14	Phone; (432) 631-6982			***************************************								