

APACHE CORPORATION

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

WBDU #39 (1RP-3422)

Termination Request

API No. 30-025-06441

Release Date: March 27th, 2014

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



January 26th, 2015

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 WBDU #39 (1RP-3422) UL/M sec. 9 T21S R37E API No. 30-025-06441

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 3.6 miles north of Eunice, New Mexico at UL/M sec. 9 T21S R37E. NM OSE and USGS records indicate that groundwater will likely be encountered at a depth of approximately 76 +/- feet.

On March 27th, 2014, Apache discovered a release of produced water from an injection line. The leak occurred below the isolation valve coupling, releasing 10 barrels of produced water over 22,663 square feet of lease pad and caliche road. The well was shut in, and a vacuum truck was dispatched to the site. A total of 5 barrels of fluid was recovered by the vacuum truck. An initial C-141 was submitted to NMOCD for their approval, and NMOCD approved the initial C-141 on November 13th, 2014 (Appendix A).

RECS personnel were on site beginning on March 28th, 2014, to assess the site. Six points within the release area were sampled at the surface, and 3 of the points, located on the caliche road, were sampled with depth (Figure 1). All samples were field tested for chlorides and organic vapors. The 6 inch samples from the 3 points on the caliche road and the surface samples from Pt. 5 and Pt. 6 were taken to a commercial laboratory for analysis (Appendix B). All 3 samples from the caliche road returned laboratory chloride readings below regulatory standards with Gasoline Range Organics (GRO) readings and Diesel Range Organics (DRO) readings of non-detect. The surface samples from Pt. 5 and Pt. 6 returned elevated laboratory chlorides readings with GRO and DRO readings of non-detect.

Since Pt. 1, located near the well head, returned elevated field chloride readings, the release on the pad was excavated to 2.5 ft bgs. As the excavation was being completed, a vertical, Comp.

Pt. 3, was installed to a depth of 4 ft bgs. Soil samples were taken approximately every 6 inches and field tested for chlorides and organic vapors. The 2 ft through 4 ft samples were taken to a commercial laboratory for analysis (Appendix C). The laboratory chloride readings returned results of 448 mg/kg at 2 ft bgs, 400 mg/kg at 2.5 ft bgs, 240 mg/kg at 3.5 ft bgs and 208 mg/kg at 4 ft bgs. GRO and DRO returned results of non-detect.

The caliche road was scraped down 6 inches from the lease pad to Hill Road. Given the safety concerns of scraping along the road, the release area that abutted Hill Road to the southwest was re-sampled in two places. Pt. 5 and Pt. 6 were sampled for chlorides and organic vapors at the surface and at 6 inches bgs. All samples were taken to a commercial laboratory for analysis and returned laboratory chloride readings of non-detect. These low data indicate that the recent rains flushed the chlorides from this area; therefore, this area did not warrant further action.

All excavated soil was taken to a NMOCD approved facility for disposal. Clean caliche was imported to the site to serve as backfill. The lease pad and caliche road were backfilled with the imported caliche and contoured to the surrounding location.

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

Given that Apache removed the contaminated soil and replace it with clean, imported soil, Apache respectfully requests 'remediation termination' and site closure. A final C-141 can be found in Appendix E.

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,

fc.we

Lara Weinheimer Project Scientist RECS (575) 441-0431

Attachments:

Figure 1 – Initial Sampling Data Figure 2 – Excavation Data Appendix A – Initial C-141 Appendix B – Initial Sampling Lab Appendix C – Remediation Labs Appendix D – Photo Documentation Appendix E – Final C-141

Figures

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948, Hobbs, NM 88241 Phone 575.393.2967

Initial Sampling Data

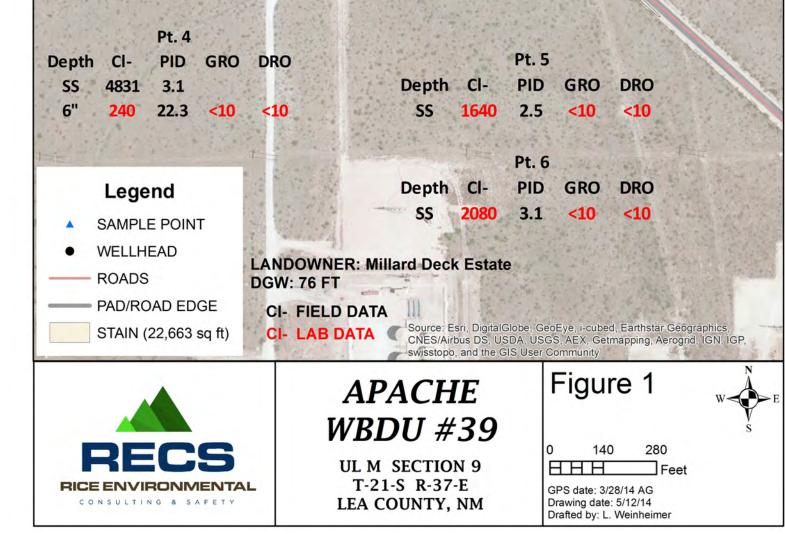
HILL ROAD 6

Ser.	Pt. 1			234.	Pt. 2		4. 55 m
Depth	Cl-	PID	Depth	Cl-	PID	GRO	DRO
SS	4571	4.6	SS	2181	4.6	i.	
28,000	11.0	1.1	6"	112	14.8	<10	<10

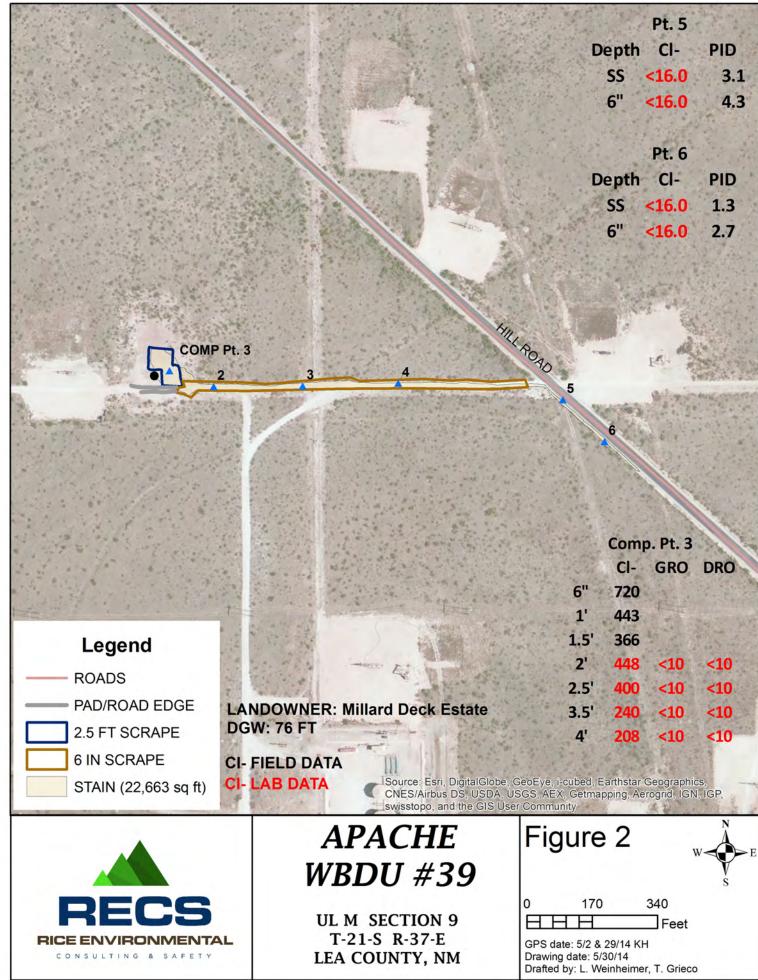
Pt. 3 Depth CI- PID GRO DRO SS 3604 4.2 6" 96 26.8 <10 <10

3

32°29'16.75"N 103°10'28.047"W



Excavation Data



Appendix A Initial C-141

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967

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.

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		ne Eunice, N	M 88231				10. 432-631-69							
Facility Nat	ne WBDI	J # 39				Facility Type injection well								
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						3/27/14				t 6:00 a.m.				
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By Whom?						Date and H	our							
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Appendix B Initial Sampling Lab

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967



April 09, 2014

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WBDU #39

Enclosed are the results of analyses for samples received by the laboratory on 04/03/14 14:30.

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.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	04/03/2014	Sampling Date:	03/28/2014
Reported:	04/09/2014	Sampling Type:	Soil
Project Name:	WBDU #39	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 5 @ SURFACE (H401012-01)

Chloride, SM4500Cl-B	mg,	mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1640	16.0	04/07/2014	ND	416	104	400	3.92	
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	04/04/2014	ND	163	81.4	200	1.36	
DRO >C10-C28	<10.0	10.0	04/04/2014	ND	181	90.3	200	2.70	
Surrogate: 1-Chlorooctane	125	65.2-14	0						
Surrogate: 1-Chlorooctadecane	125	63.6-15	4						

Sample ID: PT. 6 @ SURFACE (H401012-02)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	04/07/2014	ND	416	104	400	3.92	
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	04/04/2014	ND	163	81.4	200	1.36	
DRO >C10-C28	<10.0	10.0	04/04/2014	ND	181	90.3	200	2.70	
Surrogate: 1-Chlorooctane	120	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116 9	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

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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*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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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

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Relinquished By:	Date 3-14 Recei	ndi hannal	Phone Result: Yes No Add'l Phone #; Fax Result: Yes No Add'l Fax #; REMARKS: Xes Xes Xes
Relinquished By:	Date: Recei	eived By:	email results knorman@rice-ecs.com hconder@rice-ecs.com;
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Cool Intact (Initials)	Lweinheimer@rice-ecs.com; kjones@riceswd.com; Lpena@riceswd.com; sedwards@rice-ecs.com agroves@rice-ecs.com

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



May 12, 2014

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WBDU #39

Enclosed are the results of analyses for samples received by the laboratory on 05/02/14 15:30.

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.

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Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/02/2014	Sampling Date:	05/01/2014
Reported:	05/12/2014	Sampling Type:	Soil
Project Name:	WBDU #39	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 2 @ 6" (H401353-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/08/2014	ND	400	100	400	3.92	
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	05/09/2014	ND	197	98.4	200	1.30	
DRO >C10-C28	<10.0	10.0	05/09/2014	ND	215	108	200	2.80	
Surrogate: 1-Chlorooctane	108	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	109	% 63.6-15	4						

Sample ID: PT. 3 @ 6" (H401353-02)

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	05/08/2014	ND	400	100	400	3.92	
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	05/09/2014	ND	197	98.4	200	1.30	
DRO >C10-C28	<10.0	10.0	05/09/2014	ND	215	108	200	2.80	
Surrogate: 1-Chlorooctane	108	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110 9	63.6-15	4						

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*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/02/2014	Sampling Date:	05/01/2014
Reported:	05/12/2014	Sampling Type:	Soil
Project Name:	WBDU #39	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 4 @ 6" (H401353-03)

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	05/08/2014	ND	400	100	400	3.92	
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	05/09/2014	ND	197	98.4	200	1.30	
DRO >C10-C28	<10.0	10.0	05/09/2014	ND	215	108	200	2.80	
Surrogate: 1-Chlorooctane	102	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101	% 63.6-15	4						

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*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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 Analyte NOT DETECTED at or above the reporting limit

 RPD
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- *** 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. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ARDINAL LABORATORIES

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FOR LAB USE ONLY Lab I.D. S H401353 1 P.F. 2 P.F. 3 P.F.	Sample I.D. 2 @ 6 in 3 @ 6 in . 4 @ 6 in	COMP.	- + # CONTAIN	GROUNDWATER	VASTEWATER		SLUDGE	OTHER:	ACID/BASE:			DATE S-1-14 S-1-14 S-1-14	9:05		V			Complete Cations/Anions						
PLEASE NOTE: Liability and Damages. Co analyses. All claims including those for neg service. In one vent shall Cardinal be liable atfiliates or successors arising out of or relat Relinquished By: MMAC MAC Relinquished By:	Cardinal's liability and client's exclusive remedy for gigence and any other cause whatsoever shall be for incidental or consequental damages, inclu- ated to the performance of services hereunder b Dete:	ding with by Cardii	thout lim final, reg Rece	eived unle mitation, b egardiess eived bever eived	of whether By:	ss intern ether suc	ruptions uch clair	im is ba	ased up	pon any	ny of th	d to the amount po i within 30 days att profils incurred the above stated in	Phone F Fax Res REMAR email	Result: sult: RKS: result	Its	Yes	m	Add		ne #: #: - @ A P ecs.com				

CHECKED BY:

(Initials)

Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com; 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

Sample Condition Cool Intact Ves Ves No No

Time:

Page 5 of 5

Appendix C Remediation Labs

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967



May 12, 2014

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WBDU #39

Enclosed are the results of analyses for samples received by the laboratory on 05/02/14 15:30.

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.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	05/02/2014	Sampling Date:	05/02/2014
Reported:	05/12/2014	Sampling Type:	Soil
Project Name:	WBDU #39	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: COMP PT. 3 @ 2' (H401354-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/08/2014	ND	400	100	400	3.92	
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	05/09/2014	ND	197	98.4	200	1.30	
DRO >C10-C28	<10.0	10.0	05/09/2014	ND	215	108	200	2.80	
Surrogate: 1-Chlorooctane	96.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.2	% 63.6-15	4						

Sample ID: COMP PT. 3 @ 2.5' (H401354-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	05/08/2014	ND	400	100	400	3.92	
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	05/09/2014	ND	197	98.4	200	1.30	
DRO >C10-C28	<10.0	10.0	05/09/2014	ND	215	108	200	2.80	
Surrogate: 1-Chlorooctane	104	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104	% 63.6-15	4						

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*=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 whatscever 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 whoto limitation, business interruptors, loss of growths incurred by client, its subsidiaries, affiliates or successor 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. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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

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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 ap 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, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is bagged upon any of the above stated reasons or otherwise.

Relinquished By: <i>K</i> M O <i>ft um P</i> M		lived By: Odi Henson Ived By:	Phone Result: Yes No Add'I Phone #: Fax Result: Yes No Add'I Fax #: REMARKS:
Relinquished By:	Date: Recei	ived By:	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 Cool Intact (Initials) Yes 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 21, 2014

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WBDU #39

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.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

Received:	05/20/2014	Sampling Date:	05/19/2014
Reported:	05/21/2014	Sampling Type:	Soil
Project Name:	WBDU #39	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: COMP. PT. 3 @ 3.5' (H401534-01)

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	<10.0	10.0	05/21/2014	ND	260	130	200	1.06	
Surrogate: 1-Chlorooctane	122	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	123	% 63.6-15	4						

Sample ID: COMP. PT. 3 @ 4' (H401534-02)

Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	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	<10.0	10.0	05/21/2014	ND	260	130	200	1.06	
Surrogate: 1-Chlorooctane	113 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 9	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim 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 whatscever 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 whose shall be instrumed by client, its subsidiaries, affiliates or successor 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. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

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

Company Name:							BILL TO ANALYSIS REQUEST															
Project Manager:							P.0	0. #:	_													
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Lab I.D. <u>H401534</u> 1 2	Sample I.D. Comp. Pt.3@ 3.5A Eomp. Pt.3@ 4 Ft	(G)RAB OR (C)OMP	T # CONTAINERS	GROUNDWATER WASTEWATER		OIL	OCTHER:	ACID/BASE:		DATE 5-19-14 5-19-14		<i>y</i>	77			Complete			~			
analyses. All claims includin	d Damages Cardinal's liability and client's exclusive remedy for g those for negligence and any other cause whatsoever shall be admait be facile for incidential or consequential damages, includin g out of or related to the performance of services hereunder by t C	deemed g withou Cardinal,	i waiver I limitat , regard	d unless	made in iness int intelher	n writing lerruptio such cla	and rec ns, loss im is ba	ol use, osed up	or loss of on any of	profits incurred by	client, Its subsid	laries, dse, esult: ult:	able		No No		Phone Fax #:	#:				

Relinquished By:	Time:	Mifler ved By:	1000 C	REMARKS: 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 Cool Intact Yes Yes No No	CHECKED BY:	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



October 23, 2014

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: WBDU #039

Enclosed are the results of analyses for samples received by the laboratory on 10/22/14 15:50.

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.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	10/22/2014	Sampling Date:	10/22/2014
Reported:	10/23/2014	Sampling Type:	Soil
Project Name:	WBDU #039	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 5 @ 6" (H403259-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/23/2014	ND	400	100	400	0.00	

Sample ID: PT. 6 @ 6" (H403259-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/23/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



RDINAL LABORATORIES

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

	(505) 393-2326 FAX (505) 393-24	/6	(32	01013	-7001	T	1 (02	F		4 70	1 STEFA				A	NAL	YSIS R	EQUEST	1 1	1					
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roject Manager:	Bruce Baker	4					Comp	-					- 1			S									
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service. In no event shall Cardinal be liable for incidential or co atfiliates or successors arising out of or related to the performa Relinquished By: Relinquished By:	Rover Times: 50 Day Henson		Phone Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Fax #: REMARKS: email results: hconder@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; regans@rice-ecs.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; kjones@riceswd.com; cursanic@rice-ecs.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	3°2	Sample Condition Cool Intact Yes Yes No No	Pin importal tach' agroves(0)rice-ecs.culli

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



October 23, 2014

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: WBDU #039

Enclosed are the results of analyses for samples received by the laboratory on 10/22/14 15:50.

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.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	10/22/2014	Sampling Date:	10/22/2014
Reported:	10/23/2014	Sampling Type:	Soil
Project Name:	WBDU #039	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 5 @ SURFACE (H403260-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/23/2014	ND	400	100	400	0.00	

Sample ID: PT. 6 @ SURFACE (H403260-02)

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	10/23/2014	ND	400	100	400	3.92	

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Celeg D. Keine

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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

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

	(505) 393-2326 FAX (505) 393-247	76 (325	5) 673	-700	01 F	AX	(325)67	3-1	1 70	Link.			_	A	NAL	YSIS F	REQUEST			_
Company Name: ADAChe					P.	D. #:										- 17						
Project Manager: Brule baker							Ce	mpa	nv:							1	SC					
Address: Larry, barry@apachicarp.com							Company: Attn:								- 1		.ē					
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FOR LAB USE ONLY		Ч		~										1			a					
Lab I.D.	Sample I.D.	CONP. (C) RAB OR (C) OMP.	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	OIL	UDGE	CID/BASE:	ICE / COOL	OTHER :	DATE	TIME					Complete Cations/Anions					
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PLEASE NOTE: Liability	and Damages. Cardinal's liability and client's exclusive remedy to dring those for negligence and any other cause whatasoever shall Cardinal be liable for incidential or consequential damages, includ Cardinal be liable for incidential or consequential damages.	be deem	am an	and unles	s made	e in write	ng and lions, l	receive	d by Ca se, or l	ardina loss of	e within 30 days a profits incutred b	ther completion by client, its subs	of the app sidiaries,	Caulo			_			_		_
service. In no event shall affiliates or successors at	Cardinal be liable for incidental or consequental damages, includ rising out of or related to the performance of services hereunder b	y Carde	sal, re	ardless of	WINCOT	er such	claim i	i based	upon a	any of	the above stated	Phone	Result	. u	Yes Yes	☑ No ☑ No		"I Phone I'I Fax #:	#:			
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environmental tech: agroves@rice-ecs.com

company:

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

32

Cool Intact Yes Yes No No

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Appendix D Photo Documentation

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967

Apache WBDU #39 Unit Letter M, Section 9, T21S, R37E



Initial site photo, facing northwest

3/28/14



Initial site photo, facing east



Initial site photo, facing south

3/28/14



Initial site photo, facing east

3/28/14



Sampling release area, facing west

3/28/14



Scraping pad, facing southwest

5/2/14



Scraping road, facing northwest

5/1/14



Excavating pad, facing northeast

5/21/14



Exporting soil, facing southeast

5/29/14



Final excavation, facing north

5/29/14



Final excavation, facing southeast

5/29/14



Site backfilled, facing northwest

12/1/14



Site backfilled, facing east

12/1/14



Site backfilled, facing west

12/1/14

Appendix E

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967 Oil Conservation Division 1220 South St. En aia D

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

District IV 1220 S. St. Fran	cis Dr., Santa	a Fe, NM 87505	5			st. Franc , NM 875							
			Rola	ease Notific				ction					
			NCI					_	1.0				
N CO		A 1 C				OPERA'			l Report	\boxtimes	Final Report		
Name of Co		Apache Cor		D L 000 40			Bruce Baker	~~~ ~					
		rland Street,	Hobbs, I	NM 88240		1	No. (432) 631-6						
Facility Nar	ne wBD	U #39				Facility Typ	e injection we	11					
Surface Owner Millard Deck Estates Mineral Owner API No. 30-025-06441													
				LOCA	TION	N OF REI	LEASE						
Unit Letter													
М	9	21S	37E	660']	FSL	660'	FWL	Lea				
			La	titude		_ Longitud	le						
				NAT	URE	OF REL	EASE						
Type of Rele	ase Produ	iced Water					Release 10 Barr	rels of Volume F	lecovered	5 Barro	els of water		
Source of Re	lassa ini	ection line				water	Iour of Occurrenc	Data and	Hour of Dia	oovorv	3/27/14 at		
	5					3/27/14		6:00 a.m.	Hour of Dis	covery	3/27/14 at		
Was Immedia	ate Notice (Yes 🗌] No 🖾 Not R	equired	If YES, To	Whom?						
By Whom?						Date and H	Iour						
Was a Water	course Read	_		1		If YES, Volume Impacting the Watercourse.							
If a Watercou	ırse was Im	pacted, Descr	ibe Fully. ³	*									
				n Taken.*□The re alve was replaced		curred below	isolation valve c	oupling. The well	was shut in	and a v	acuum truck		
Describe Are site beginnin, caliche road, a commercial to 2.5 ft bgs. to a commercial flushed are facility for di and contoure I hereby certi regulations a public health should their o or the environ	a Affected g on March were samp l laboratory As the exc cial laborator 1 208 mg/kg n the safet 5 and Pt. 6 laboratory chlorides 1 sposal. Cle d to the sur ify that the ll operators or the envi operations 1 nment. In a	and Cleanup A 28 th , 2014, to led with depth for analysis. I avation was b ory for analysis g at 4 ft bgs. O y concerns o were samply y for analysis from this are can caliche wa rounding local information gi are required t ronment. The nave failed to a	Action Tal assess the assess the the first since Pt. 1 eing comp s. The lab GRO and 1 f scraping ed for ch s and retu a; therefor is imported tion. iven above o report an e acceptance adequately OCD accept	ken.*□A total of 2 e site. Six points inch samples from l, located near the obleted, a vertical, 0 poratory chloride in DRO returned resi g along the road lorides and orga urned laboratory ore, this area did d to the site to ser e is true and comp nd/or file certain r ce of a C-141 report y investigate and r	22,663 sc within th the 3 poi well here Comp. Pr readings ults of no , the rel nic vapo chlorid not wan ve as bac	e release area ints on the ca ad, returned e t. 3, was insta returned resu- on-detect. The ease area the ors at the su e readings of rrant further ckfill. The le best of my otifications a e NMOCD me e contaminati	a were sampled at liche road and the elevated field chlo alled to a depth of alts of 448 mg/kg he caliche road was at abutted Hill F rface and at 6 ir of non-detect. T caction. All exca ase pad and calich knowledge and u nd perform correct arked as "Final R on that pose a thr	iche road was affect the surface, and 3 e surface samples fi rride readings, the r 4 ft bgs. The 2 ft t at 2 ft bgs, 400 mg as scraped down 6 i Road to the south nches bgs. All sa these low data ind avated soil was take the road were backfi understand that purs tive actions for rele eport" does not reli eat to ground water responsibility for co	of the point om Pt. 5 an elease on th hrough 4 ft (kg at 2.5 ft nches from west was ro mples were licate that to en to a NMC lled with th uant to NM eases which eve the ope	s, locati d Pt. 6 e pad v sample bgs, 24 the leas e-samp e taken the rec DCD ap e impor	ed on the were taken to vas excavated es were taken 40 mg/kg at se pad to Hill bled in two a to a eent rains oproved rted caliche ules and adanger f liability man health		
		U					OIL CON	SERVATION	DIVISIO	DN			
Signature:)											
Printed Name	e: Bruce B	aker			1	Approved by	Environmental S	pecialist:					
Title: Enviro	onmental Te	echnician				Approval Dat	te:	Expiration	Date:				
E-mail Addre	ess: larry.t	aker@apache	corp.com		(Conditions of	f Approval:		Attached				

Date: Phone: (432) 631-6982 * Attach Additional Sheets If Necessary

Μ

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 \square Final Report Name of Company Apache Corporation Contact Bruce Baker Address 2350 W Marland Street, Hobbs, NM 88240 Telephone No. (432) 631-6982 Facility Name WBDU #39 Facility Type injection well Surface Owner Millard Deck Estates Mineral Owner API No. 30-025-06441 LOCATION OF RELEASE Unit Letter Section Township Feet from the North/South Line Range Feet from the East/West Line County 9 21S 37E 660³ FSL 660' FWI Lea Latitude Longitude NATURE OF RELEASE Type of Release Produced Water Volume of Release 10 Barrels of Volume Recovered 5 Barrels of water water Source of Release injection line Date and Hour of Occurrence Date and Hour of Discovery 3/27/14 at 3/27/14 6:00 a.m. Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ No 🛛 Not Required By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. □ Yes ⊠ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* The release occurred below isolation valve coupling. The well was shut in and a vacuum truck was dispatched to pick-up standing fluid. The valve was replaced. Describe Area Affected and Cleanup Action Taken.* A total of 22,663 square feet of lease pad and caliche road was affected. RECS personnel were on site beginning on March 28th, 2014, to assess the site. Six points within the release area were sampled at the surface, and 3 of the points, located on the caliche road, were sampled with depth. The 6 inch samples from the 3 points on the caliche road and the surface samples from Pt. 5 and Pt. 6 were taken to a commercial laboratory for analysis. Since Pt. 1, located near the well head, returned elevated field chloride readings, the release on the pad was excavated to 2.5 ft bgs. As the excavation was being completed, a vertical, Comp. Pt. 3, was installed to a depth of 4 ft bgs. The 2 ft through 4 ft samples were taken to a commercial laboratory for analysis. The laboratory chloride readings returned results of 448 mg/kg at 2 ft bgs, 400 mg/kg at 2.5 ft bgs, 240 mg/kg at 3.5 ft bgs and 208 mg/kg at 4 ft bgs. GRO and DRO returned results of non-detect. The caliche road was scraped down 6 inches from the lease pad to Hill Road. Given the safety concerns of scraping along the road, the release area that abutted Hill Road to the southwest was re-sampled in two places. Pt. 5 and Pt. 6 were sampled for chlorides and organic vapors at the surface and at 6 inches bgs. All samples were taken to a commercial laboratory for analysis and returned laboratory chloride readings of non-detect. These low data indicate that the recent rains flushed the chlorides from this area; therefore, this area did not warrant further action. All excavated soil was taken to a NMOCD approved facility for disposal. Clean caliche was imported to the site to serve as backfill. The lease pad and caliche road were backfilled with the imported caliche and contoured to the surrounding location. 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: Bruce Buly	OIL CONSERVATION DIVISION							
Printed Name: Bruce Baker	Approved by Environmental Specialist:							
Title: Environmental Technician	Approval Date:	Expiration D	ate:					
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval:		Attached					
Date: $1 - 2 \ell - 15$ Phone: (432) 631-6982								

* Attach Additional Sheets If Necessary