District 1 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

HOBBS OCD

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

State of New Mexico

Form C-141 Revised August 8, 2011 FEB 20 2014

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

RECEIVED

						OPERAT	TOR	5	Initia	al Report		Final Re
Name of Co	omnany A	pache Corpo	ration		T	Contact Br	CONTRACTOR OF ALL AND ADDRESS OF ADDRES	k		пкероп		rmai Ke
		ne Eunice, N		1.1		and the second se	No. (432) 631-0	5982	100			
				rest WBDU # 69			e Tank Battery		1.2.8	ter series		
Surface Ow	mer Chev	ron		Mineral Ov	wher			1	APINO	. 30-025-3	8204	
Burrace Ow	nor onevi	OII		48					ALTINO	, 50-025-5	0204	
** ** *	La d	m 11				N OF REI		D (01)			0	
Unit Letter I	Section 17	Township 21S	Range 37E	Feet from the 2630'	North	/South Line FSL	Feet from the 120'	East/We			Cour Lea	
1 1 A			Lat	tude		Longitud	le		1			
		1 Stames	-	NATU	JRE	OF RELI			1.10		1	
Same and	1	produced wat	er			480 produc				ecovered 4		
Source of Re	lease water	transfer line				Date and H 2/8/14	lour of Occurrenc		Date and I 10:30 a.m.	Hour of Dis	covery	2-8-14 at
Was Immediate Notice Given?					uired	If YES, To Geoffrey L			. 0.30 a.m.		19	
By Whom? Bruce Baker							our 2/10/14 at 9					
Was a Watercourse Reached?						If YES, Volume Impacting the Watercourse.						
The water tra	nsfer line fr		red in two	Taken,* separate areas of the design of the					DTW =	1.	econd	outside the
	ffected two	areas one insi	de the linco	n.* contained facility I and a corrective					nare feet).	The standi	ng flui	d was picke
regulations all public health should their o	l operators a or the envir perations ha ment. In ad	are required to onment. The ave failed to a idition, NMO	o report and acceptance dequately i CD accepta	s true and complet /or file certain rele of a C-141 report nvestigate and ren nce of a C-141 re	ease no by the nediate	NMOCD ma	d perform correct arked as "Final Roon that pose a three	tive action eport" doe eat to grou	ns for relea es not relie and water,	ases which eve the oper surface wa	may en ator of ter, hu	ndanger Fliability man health
Signature: Porme Pachel						OIL CONSERVATION DIVISION						
rinted Name	: Bruce Bal	ker			1	Approved by I	Environmental Sp	pecialisty	ironme	ntal Spec	cialis	
Title: Enviror	nmental Tec	hnician				Approval Date	: 2120/14	Ex	piration D	Date: 41,2	114	
	3 A. S. A. M. M.	ker@apachec				Conditions of	Approval:	ma fun		Attached		2000
ate: 2/20/14 Phone: (432) 631-6982								RP-06-14-3098				

Date: 2/20/14

Attach Additional Sheets If Necessary



HOBBS OCD

APR 0 3 2014

RECEIVED

APACHE CORPORATION

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

Lockhart A-17

Corrective Action Plan

appreved

Environmental Specialist NMOCD-DIST 1 4103114

API 30-025-38204

Release Date: February 8th, 2014

Unit Letter I, Section 17, Township 21S, Range 37E

Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241 Phone 575.393.2967

March 28th, 2014

Geoffrey Leking

New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau – District 1 1625 N. French Dr. Hobbs, NM 88240-9273

RE: Corrective Action Plan Apache Corporation – Lockhart A-17 UL/I sec. 17 T21S R37E API No. 30-025-38204

Mr. Leking:

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 2.5 miles northwest of Eunice, New Mexico at UL/I sec. 17 T21S R37E. NM OSE and USGS records indicate that groundwater will likely be encountered at a depth of approximately 76 +/- feet.

On February 8th, 2014, Apache discovered a release of oil and produced water from a water transfer line. The transfer line froze and ruptured in two separate places. One area was inside the bermed, lined facility containment and the other occurred outside the containment wall. A total of 20 barrels of oil and 480 barrels of produced water were released over 10,603 square feet of facility and pasture land. A vacuum truck was called to the site and recovered a total of 450 barrels of fluid. NMOCD was notified of the release on February 10th, 2014 and an initial C-141 was sent to NMOCD for their approval (Appendix A).

RECS personnel were on site beginning on February 10th, 2014 to assess the release. Four points within the pasture area were sampled at the surface and with depth (Figure 1). The samples were field tested for chlorides and organic vapors, and representative samples were taken to a commercial laboratory for analysis (Appendix B). Vertical 1 was installed to a depth of 18 ft bgs. Laboratory chloride readings returned results of 816 mg/kg at 4 ft bgs and 352 mg/kg at 17 ft and 18 ft bgs. Vertical 2 was installed to a depth of 12 ft bgs. Laboratory chloride readings returned results of 2,120 mg/kg at 5 ft bgs, 224 mg/kg at 11 ft bgs and 128 mg/kg at 12 ft bgs. Vertical 3 was installed to a depth of 14 ft bgs. Laboratory chloride readings returned results of 1,730 mg/kg at 3 ft bgs, 160 mg/kg at 13 ft bgs and 208 mg/kg at 14 ft bgs. Vertical 4 was installed to a depth of 16 ft bgs. Laboratory chloride readings returned results of 1,040 mg/kg at 2 ft bgs, 176 mg/kg at 15 ft bgs and 48 mg/kg at 16 ft bgs. Gasoline Range Organics (GRO) and Diesel Range Organics (DRO) readings returned results of non-detect in all verticals.

Photo documentation of these activities can be found in Appendix C.

Corrective Action Plan

Based on the laboratory analysis of the site, the pasture area will be excavated to a depth of 4 ft bgs. All excavated soils will be evaluated to use as backfill and any soils that do not meet requirements will be disposed of at a NMOCD approved facility. The remaining excavated soils will be blended on site with clean, imported soil. A sample of the blended backfill will be taken and field tested to verify that chloride levels are at or below 500 mg/kg and organic vapors are below 100 ppm. Wall samples will be taken to a commercial laboratory to determine that the remaining constituents are below regulatory standards. At the base of the 4 ft excavation, a 20-mil reinforced poly liner will be installed and properly seated (Figure 2). The site will be backfilled with the blended soil to surface level and contoured to the surrounding location.

Since the release in the facility occurred over a lined containment, the contaminated gravel overlaying the liner will be removed and taken to a NMOCD approved facility for disposal. Clean gravel will be imported to the site to replace the contaminated caliche.

Once these corrective actions have been completed, a report will be submitted requesting 'remediation termination' and site closure.

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,

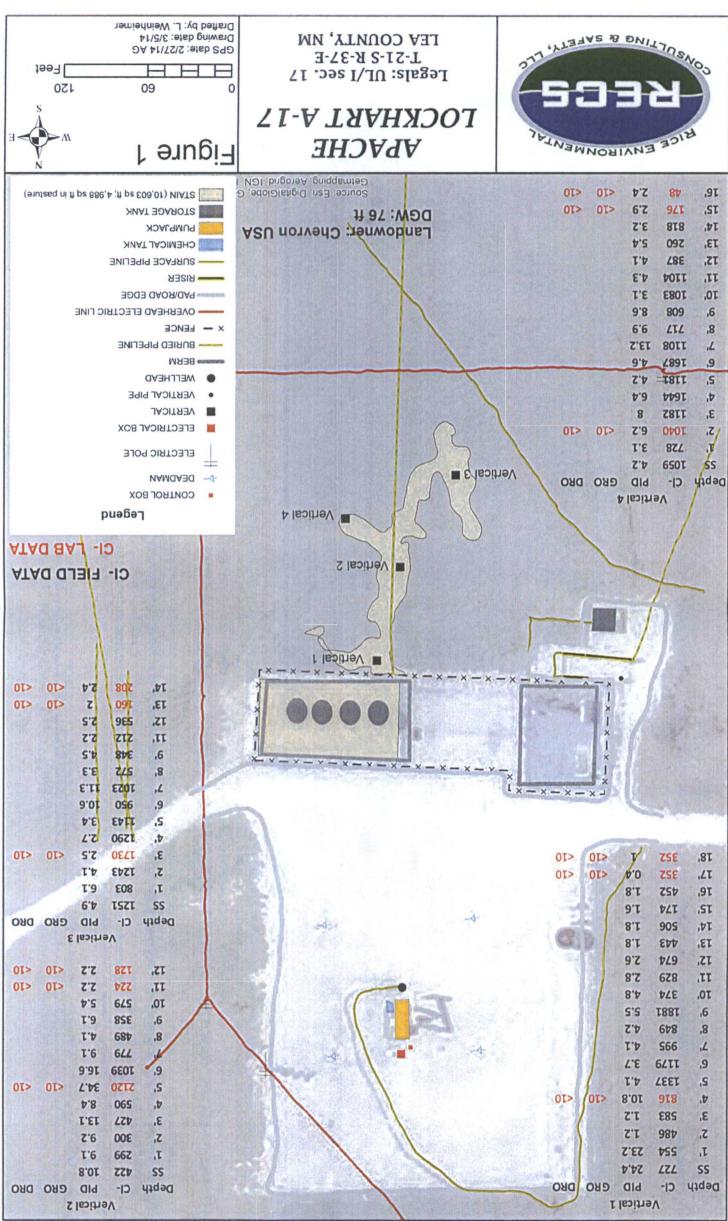
AC.W

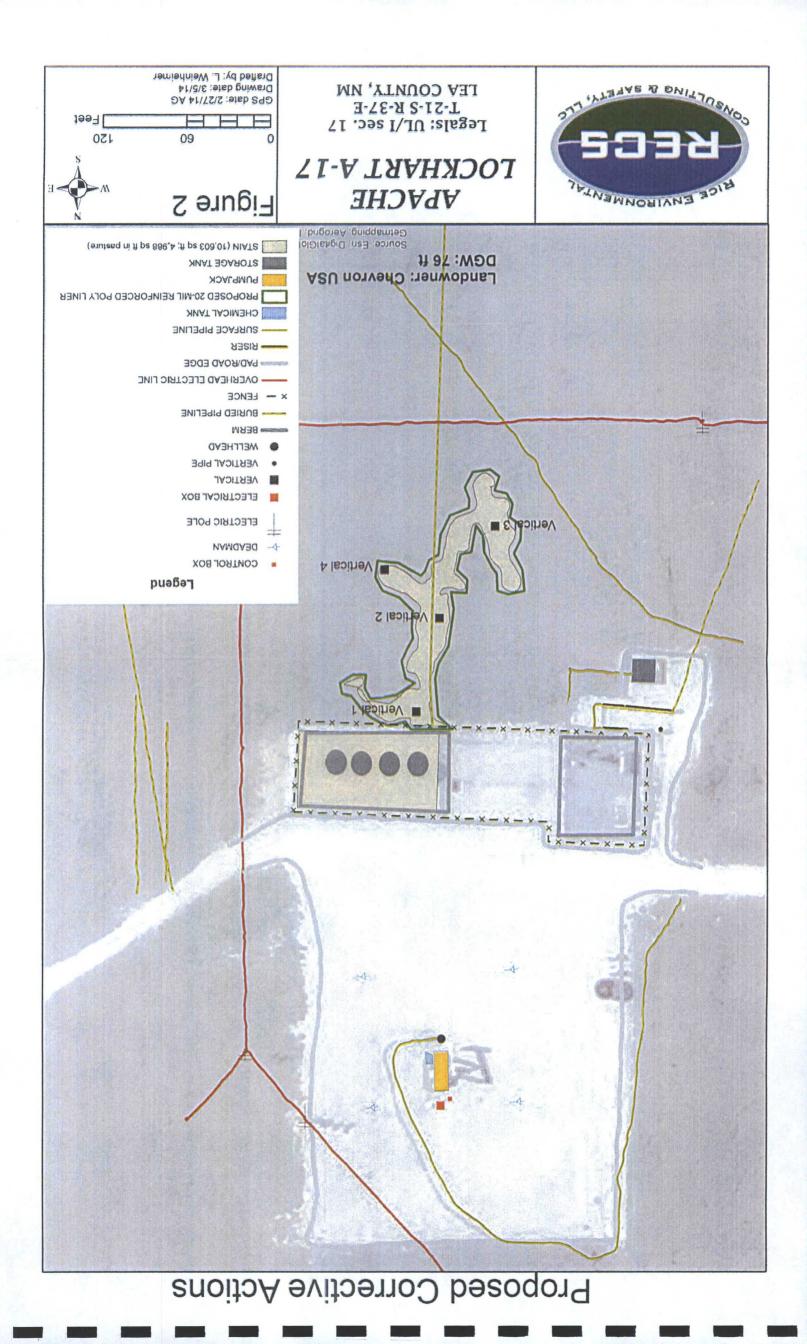
Lara Weinheimer Project Scientist RECS (575) 441-0431

Attachments:

Figure 1 – Site Location Map Figure 2 – Proposed Corrective Actions Appendix A – Initial C-141 Appendix B – Initial Sampling Labs Appendix C – Photo Documentation

Vertical Sampling Data







March 03, 2014

BRUCE BAKER APACHE - EUNICE P. O. BOX 1849

EUNICE, NM 88231

RE: LOCKHART A-17

Enclosed are the results of analyses for samples received by the laboratory on 02/25/14 16:15.

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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg 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: Reported: Project Name: Project Number: **Project Location:** 02/25/2014 03/03/2014 LOCKHART A-17 NONE GIVEN NOT GIVEN

Sampling Date: Soil Sampling Type: Sampling Condition: Sample Received By: Jodi Henson

02/25/2014 Cool & Intact

Sample ID: VERT 2 @ 5 FT (H400572-01)

Chloride, SM4500CI-B mg/kg Analyzed By: AP Method Blank True Value QC RPD Qualifier Analyte Result Reporting Limit Analyzed BS % Recovery Chloride 2120 16.0 02/28/2014 ND 416 104 400 7.41 **TPH 8015M** mg/kg Analyzed By: ms Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Analyte Result GRO C6-C10 <10.0 03/01/2014 ND 108 200 3.10 10.0 217 DRO >C10-C28 <10.0 10.0 03/01/2014 ND 212 106 200 0.309 Surrogate: 1-Chlorooctane 90.8 % 65.2-140 93.0% 63.6-154 Surrogate: 1-Chlorooctadecane

Sample ID: VERT 2 @ 11 FT (H400572-02)

Chloride, SM4500CI-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/28/2014	ND	416	104	400	7.41	
TPH 8015M	mg/kg		Analyzed By: ms		100	1	1.	1111	Mar She
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2014	ND	217	108	200	3.10	
DRO >C10-C28	<10.0	10.0	03/01/2014	ND	212	106	200	0.309	
Surrogate: 1-Chlorooctane	82.5	% 65.2-14	0	all days				The Ale	S. C.
Surrogate: 1-Chlorooctadecane	89.6	% 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. 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 All claims, including those for negligence and 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, artilitates 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.

Celeg 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: Reported: Project Name: Project Number: Project Location:

02/25/2014 03/03/2014 LOCKHART A-17 NONE GIVEN NOT GIVEN

Sampling Date: Sampling Type: Sampling Condition: Sample Received By:

02/25/2014 Soil Cool & Intact Jodi Henson

Sample ID: VERT 2 @ 12 FT (H400572-03)

Chloride, SM4500CI-B mg/kg Analyzed By: AP Analyte Reporting Limit Result Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 128 16.0 02/28/2014 ND 416 104 400 7.41 **TPH 8015M** Analyzed By: ms mg/kg Reporting Limit Qualifier Analyte Result Analyzed Method Blank BS RPD % Recovery True Value QC GRO C6-C10 <10.0 10.0 03/01/2014 ND 217 108 200 3.10 DRO >C10-C28 <10.0 10.0 03/01/2014 ND 212 106 200 0.309 Surrogate: 1-Chlorooctane 77.5 % 65.2-140 63.6-154 Surrogate: 1-Chlorooctadecane 82.7 %

Sample ID: VERT 3 @ 3 FT (H400572-04)

Chioride, SM4500CI-B	mg	/кд	Analyze	а ву: АР	101			and the second second	20. P. V. 1947
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	02/28/2014	ND	416	104	400	7.41	
TPH 8015M	mg/kg		Analyzed By: ms				2	241.28	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2014	ND	217	108	200	3.10	
DRO >C10-C28	<10.0	10.0	03/01/2014	ND	212	106	200	0.309	
Surrogate: 1-Chlorooctane	75.6	% 65.2-14	0				1. 1.		6.19
Surrogate: 1-Chlorooctadecane	81.9	% 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 whatboever 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 incidential 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 writen approval of Cardinal Laboratories.

Celeg 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:	02/25/2014	Sampling Date:	02/25/2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	LOCKHART A-17	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERT 3 @ 13 FT (H400572-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP	1111				and the state
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/28/2014	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyzed By: ms					12 N	1.1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2014	ND	217	108	200	3.10	
DRO >C10-C28	<10.0	10.0	03/01/2014	ND	212	106	200	0.309	
Surrogate: 1-Chlorooctane	88.2	% 65.2-14	0		12.2			12.4	
Surrogate: 1-Chlorooctadecane	91.1	% 63.6-15	4						

Sample ID: VERT 3 @ 14 FT (H400572-06)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP		2.1.1		A Shares	10 4 3 1	2.4.2
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/28/2014	ND	416	104	400	7.41	
TPH 8015M	mg/kg		Analyzed By: ms		12.0	A Stand	2.2.2.11		1.1.6.1.1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2014	ND	217	108	200	3.10	
DRO >C10-C28	<10.0	10.0	03/01/2014	ND	212	106	200	0.309	
Surrogate: 1-Chlorooctane	87.5	% 65.2-14	0				1. 1 A.M.		Call?
Surrogate: 1-Chlorooctadecane	97.1	% 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 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. Kune

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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=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 damages, including, whether 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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

sedwards@rice-ecs.com; Iflores@rice-ecs.com; agroves@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com; ANALYSIS REQUEST Kjones@riceswd.com; jkamplain@rice-ecs.com C Yes Z No Add'I Phone #:
 Yes Z No Add'I Fax #: SQT Complete Cations/Anions HqT ssxaT Knorman@rice-ecs.com **BTEX** M 2108 H9T 5 5 5 1 5 2 d in contract or tort, shall be limited to the amount paid by the client for the in writing and received by Cardinal within 30 days after completion of the applicable Verruptions, loss of use, or lose of profits incurred by client, its subsidiaries, email results Chlorides Phone Result: Fax Result: REMARKS: > > 3:00 00:01 3-3644 13:35 3:00 TIME 3:15 3-354 3:10 SAMPLING 196 384 -354 DATE ELLE NO CHECKED BY: (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020 Zip: PRESERV : ABHTO Company: CE/COOF Address: Phone #: P.O. #: State: Attn: Fax #: SCID/BASE: City: : ABHTO Sample Condition SLUDGE MATRI OIL Address: Larry, baller @ alachicaro, Can 7IOS > > 5 5 > 5 3 Received By: *AJTAWJZAWAWAWAZAWAWAZAWAWAZAWAWAZAWW* ved By Zip: 88240 RECOUNDWATER CONTAINERS 00 GIRAB OR (C)OMP 5 7 Date: 25-14 nal's liability and client's exclusive remedy for any Project Owner: and any other cause whatsoever shall be State: NM Fax #: Time: Date: Company Name: A DALIN Project Manager: Bynice Baller 13C サゼ Ver+3@34 Project Name: HOCKIPart A-17 Sample I.D. ぜの 30 Vor+ 30 9 1014 20 Verta & Sampler - UPS - Bus - Other: Sampler Name: Amber Groves Delivered By: (Circle One) Verta Cardi Vov+ PLEASE NOTE: Liablity and D: Project Location: inquished By: Relinquished By: M VC N 0 n no event shall C ies. All claims includ Huco57 **City:** Hobbs FOR LAB USE ONLY Lab I.D. Project #: Phone #:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-247

Page 6 of 6



March 04, 2014

BRUCE BAKER APACHE - EUNICE P. O. BOX 1849 EUNICE, NM 88231

RE: LOCKHART A-17

Enclosed are the results of analyses for samples received by the laboratory on 02/27/14 16:40.

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 accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg D. Keene

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:	02/27/2014	Sampling Date:	02/25/2014
Reported:	03/04/2014	Sampling Type:	Soil
Project Name:	LOCKHART A-17	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERT 1 @ 4 FT (H400603-01)

Chloride, SM4500CI-B Analyzed By: AP mg/kg Qualifier Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride 16.0 03/04/2014 432 108 400 816 ND 3.77 mg/kg **TPH 8015M** Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier GRO C6-C10 <10.0 10.0 03/03/2014 ND 206 103 200 7.94 DRO >C10-C28 <10.0 10.0 03/03/2014 ND 197 98.7 200 8.31 Surrogate: 1-Chlorooctane 100 % 65.2-140 105 % 63.6-154 Surrogate: 1-Chlorooctadecane

Sample ID: VERT 1 @ 17 FT (H400603-02)

Chloride, SM4500CI-B mg/kg Analyzed By: AP

Analyte	1.2	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		352	16.0	03/04/2014	ND	432	108	400	3.77	
TPH 8015M	32.5	mg/kg		Analyzed By: ms					1916	
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10		<10.0	10.0	03/04/2014	ND	216	108	200	2.10	
DRO >C10-C28		<10.0	10.0	03/04/2014	ND	202	101	200	1.52	
Surrogate: 1-Chlorooctane		99.2	% 65.2-14	0				a said	4.87	
Surrogate: 1-Chlorooctadecan	e	104	% 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 whatsoever shall be deemed valved 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. 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: Reported: Project Name: Project Number: Project Location: 02/27/2014 03/04/2014 LOCKHART A-17 NONE GIVEN NOT GIVEN

Sampling Date: Sampling Type: Sampling Condition: Sample Received By:

02/27/2014 Soil Cool & Intact Jodi Henson

Sample ID: VERT 1 @ 18 FT (H400603-03)

Chloride, SM4500CI-B Analyzed By: AP mg/kg True Value QC RPD Qualifier Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery Chloride 16.0 03/04/2014 ND 432 108 400 3.77 352 **TPH 8015M** Analyzed By: ms mg/kg RPD Qualifier Reporting Limit Analyzed Method Blank BS % Recovery True Value QC Analyte Result GRO C6-C10 <10.0 03/04/2014 ND 216 108 200 2.10 10.0 DRO >C10-C28 <10.0 10.0 03/04/2014 ND 202 101 200 1.52 Surrogate: 1-Chlorooctane 99.2% 65.2-140 63.6-154 Surrogate: 1-Chlorooctadecane 101 %

Sample ID: VERT 4 @ 2 FT (H400603-04)

Chloride, SM4500CI-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	03/04/2014	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: ms		Past		1. 14.93		1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/04/2014	ND	216	108	200	2.10	
DRO >C10-C28	<10.0	10.0	03/04/2014	ND	202	101	200	1.52	
Surrogate: 1-Chlorooctane	96.8	% 65.2-14	10					TT	
Surrogate: 1-Chlorooctadecane	103	% 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 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, 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 clearified above. This reproduced excepts in full with written approval of Cardinal Laboratories.

Celeg 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: Reported: Project Name: Project Number: **Project Location:** 02/27/2014 03/04/2014 LOCKHART A-17 NONE GIVEN NOT GIVEN

Sampling Date: Sampling Type: Sampling Condition: Sample Received By:

02/27/2014 Soil Cool & Intact

Jodi Henson

Sample ID: VERT 4 @ 15 FT (H400603-05)

Chloride, SM4500CI-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/04/2014	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: ms		1.1.2		1	See 25
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/04/2014	ND	216	108	200	2.10	
DRO >C10-C28	<10.0	10.0	03/04/2014	ND	202	101	200	1.52	

102 % 63.6-154 Surrogate: 1-Chlorooctadecane

Sample ID: VERT 4 @ 16 FT (H400603-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP	-	and the second	Low Ster Field	22.32	The start is
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/04/2014	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: ms		1		STRUE A	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/04/2014	ND	216	108	200	2.10	
DRO >C10-C28	<10.0	10.0	03/04/2014	ND	202	101	200	1.52	
Surrogate: 1-Chlorooctane	94.1	% 65.2-14	0	and the second			224.600		Street.
Surrogate: 1-Chlorooctadecane	98.6	% 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 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. Kune

Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

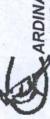
Cardinal Laboratories

*=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.

Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

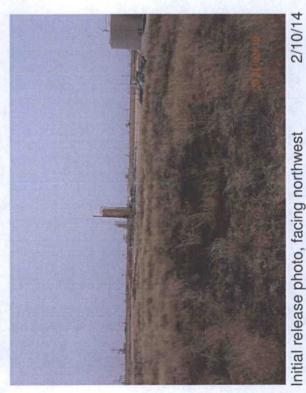
Company Name: ACCIU									ELLE	EVI 5						A	NAL	ANALYSIS		REQUEST	F			
Project Manager: JAUCI Baller							P.O. #	#				1								1				
Address:							Com	Company:				1		1			SI						1	
City: Hobbs	State: NM	Zip:	88240	40			Attn:		2								JO	1						
Phone #:	Fax #:						Address:	ess:	,							1	int			1	2		14 - E	÷
Project #:	Project Owner:	Ľ					City:							M		-	1/5		214					
Project Name: LOC LINUL+ A-1	C						State:		IZ	Zip:			səp	-		-							-	
Project Location:						-	Phone #:	:# 0						-	E)	-		SC						
Sampler Name: Amber Groves							Fax #:			e -								IT	-				-	
FOR LAB USE ONLY		· · dl		-	MATRIX	×	<u>a</u>	PRESERV	RV.	SAMPLING	FING		-	LPF		τe	əte							
Lab I.D. Sample I.D.	ġ	мо(с) яо вая(е	SABNIATNOD	ASTAWGNOOA	POIL	PLUDGE	CID/BASE:		: ABHTO	DATE	TIME	ш					Comple	-	1.400 - 1	1			1. 1. A.	
the contraction of the		24	-	+	-	-	-			2-2514	100	10	K	1	-	T	T		Γ	T	T	+		
HCI CITANIZ		23	-		5				5	2 mil	72:8.7	1	1	5										
ACL COLANON N	+ 1XG and	(m)	-	-	>	1.		-	C	ちちた	1 8:50		5	5										
u Vivi 40 at		2	-		5				2	PHEE	00:01	R	5	2									1	
S Nint 40 153	村	3	-		5				500	HR	0C:01 h		1	>	-									
6 Nort 400 Ind	H.	5	-	-	1				5 cro	3-21-14			>	1										
							-		-			Η	Η			Π	Π						Π	
PLEASE NOTE: Liability and Damages. Cardina's fability and client's exclusive tenney for any claim analyses. Al claims including those for megligence and any other cause whitekever shall be deemed analyses. In no event shall carding the liable for incidential or consequential damages, including without afflightes excosses anisino out or related to be performance of services hearunder by Cardina's consecutions to accesses anisino out or or related to be performance of services hearunder by Cardina's services.	lient's exclusive remedy for r cause whatsoever shall b equental damages, includi e of services hereunder by	any clair e deemed ng without Cardinal,		whether unless n n, busin ss of wh	arising whether based in or waived unless made in writi limitation, business interrup legardless of whether such	contract riting and uptions, in th claim in	or tort, a receive oss of u	hall be li by Can e, or los	mited to the dinal within s of profits	ort, shall be limited to the amount preved by Cardinal within 30 days a beived by Cardinal within 30 days a of use, or loss of profits incurred b tsed upon any of the above stated	arising whether based in contract or lot, shall be limited to the amount paid by the client for the waived untess made in writing and readived by Cardinal within 30 days after completion of the applicable limitation, business interprotome, rose of use, or lose of profits incurred by dant, its subsidiande, adardless of whether such claim is based upon any of the above stated reasons or otherwise.	ent for the on of the a theidiaries herwise.	e ipplicable											
Relinquished By:	Date: JHK	Red		bived By		1		-				Phone Result: Fax Result:	#	 Yes Yes 	on No		Add'l Phone Add'l Fax #:	Add'l Phone #: Add'l Fax #:	:#					
ILANDA CADARY	Time:4:40	7	y	R	2	X	5	3	5	2	REMA	RKS:			5					5 M	~			
Relinquished By:	Date: Time:		ceive	eived By			1	10	14		Knor Kion	email results Knorman@ri Kiones@rice	@ric rices	email results Knorman@rice-ecs.com Kiones@riceswd.com; ik	email results Knorman@rice-ecs.com Kiones@riceswd.com: ikamolain@rice-ecs.com	ampl	ain@	rice-e	ecs.cc	E				in dia Angli
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Cool	No No	Sample Condition Cool Intact	u la	CH	CHECKED BY:	BY	hcor sedv	sedwards V000VK	Orice	Pecs.	ice-ecs.com; l	Iflor	lores@r	ner@	rice-e	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com; sedwards@rice-ecs.com; Iffores@rice-ecs.com; agro ทุกฏิญหรืดไท1ณ -LLS, เข้ากา	m; jroves	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com; sedwards@rice-ecs.com; Iflores@rice-ecs.com; agroves@rice-ecs.com V00.0VFG/V10ULS, Com	ecs.	com
† Cardinal cannot accept verbal changes. Please fax	changes. Pleas	e fax	writt	enc	hang	written changes to 505-393-24	L 505-	7 33-2	P			0			1	8	1			: 54	÷			
							1	-																

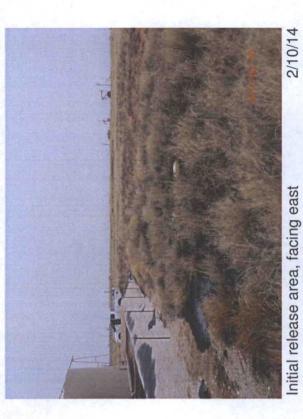
Page 6 of 6

Apache Lockhart A-17 Unit Letter I, Section 17, T21S, R37E



Initial release area, facing southwest







Initial release photo, facing northwest



