



EXPLORING WHAT'S POSSIBLE

APACHE CORPORATION

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

White Owl Battery

Closure Report

API 30-025-36689

Release Date: February 15th, 2012

Unit Letter D, Section 2, Township 20S, Range 38E

Rice Environmental Consulting & Safety

P.O. Box 2948 Hobbs, NM 88241

Phone 575.393.2967

June 27th, 2013

Geoffrey Leking

New Mexico Energy, Minerals, & Natural Resources

Oil Conservation Division, Environmental Bureau – District 1

1625 N. French Dr.

Hobbs, NM 88240-9273

RE: TERMINATION REQUEST

Apache – White Owl Battery AD

UL/D sec. 2 T20S R38E

API No. 30-025-36689

Mr. Leking:

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

Background and Previous Work

The site is an accidental discharge of crude oil associated with the White Owl Battery when a swedge on a circulating line ruptured. Fluids were released within the battery containment and also outside the containment onto the caliche pad for the unit well #001. An initial form C-141 was submitted by Apache Corporation on February 17th, 2012 (Appendix A). The site is located south of Hobbs, in unit letter 'D' of section 2, T20S, R38E in Lea County, New Mexico. According to the NM OSE and USGS records, depth to groundwater in the area is approximately 48 ft bgs.

On February 16th, 2012, RECS personnel initiated work on the White Owl Battery (Figure 1). Surface soil samples were collected and field tested for chloride. Headspace measurements were also taken in the field using a Photo Ionization Detector (PID). The samples were submitted to a commercial laboratory for chloride and TPH (GRO/DRO) analyses (Appendix B). Chloride ranged from 48.0 mg/kg to 496 mg/kg. TPH ranged from 39,700 mg/kg to 73,500 mg/kg.

The leak was divided into several excavated areas. On February 29th, 2012, RECS personnel collected and field tested a representative composite sample from the floor of the caliche pad scraped area (Figure 2). The sample was submitted to a laboratory for chloride and TPH analyses and contained <16.0 ppm chloride and <10.0 ppm TPH (Appendix C).

On March 1, 2012, RECS personnel collected and field tested samples from the remaining areas which included the floor of the bermed area surrounding the tanks, the floor of the middle scraped area, and the walls of both the middle scraped area and the caliche pad scraped area (Figure 3). The samples were submitted to a laboratory for chloride and TPH analyses

(Appendix C). In all samples chloride did not exceed 224 ppm and TPH did not exceed 15.3 ppm.

Impacted soils were removed from the excavation and transported to a NMOCD approved disposal facility. The excavations were backfilled with clean caliche and leveled. See Appendix B for photographs of field activities.

Conclusion

Due to the removal of impacted soils relative to necessary groundwater depth, Apache submits the final C-141 (Appendix D) and respectfully requests the closure of the regulatory file for this site.

Apache Corporation appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 631-6432 if you have any questions or comments.

Sincerely,



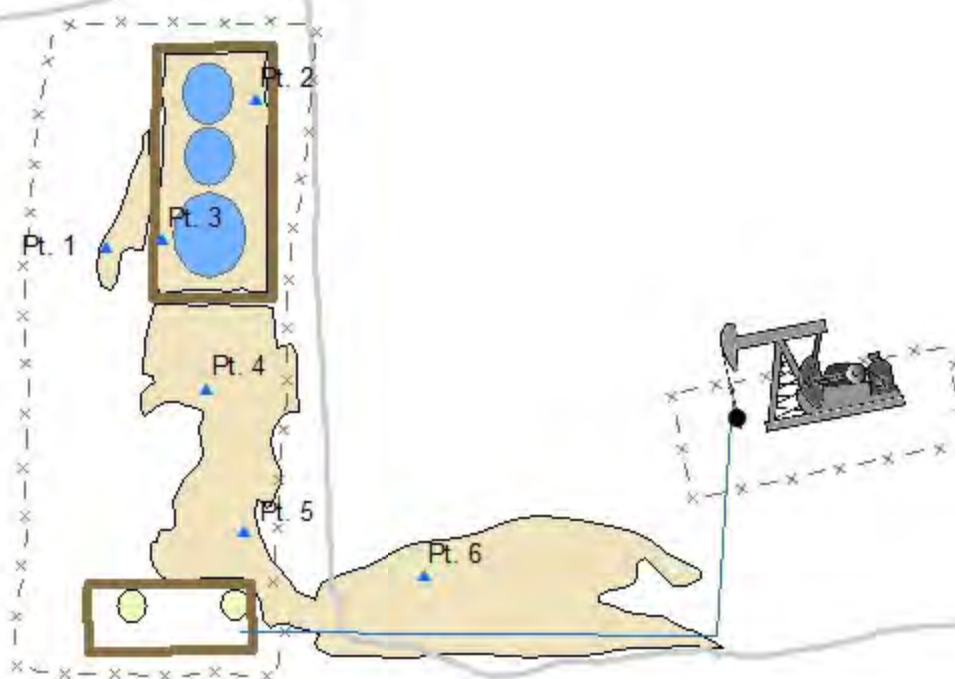
Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

- Figure 1: Site Plat with Initial Sampling Lab Data
- Figure 2: Site Plat with Caliche Pad Scrape Lab Data
- Figure 3: Site Plat with Bermed Area, Middle Scraped Area, and Caliche Pad Scraped Area Lab Data
- Appendix A: Initial Form C-141
- Appendix B: Site Photographs
- Appendix C: Laboratory Results
- Appendix D: Final Form C-141

Figures

Site Plat



Legend

- WELL HEAD
- ▲ SAMPLE POINTS
- WELL HEAD
- BERM
- × — × FENCE
- FLOW LINE
- PAD
- SEPARATOR
- STAIN (3,791 sq ft)
- TANK

INITIAL SAMPLING LAB DATA

Sample Description	CI-	GRO	DRO
Pt.1 surface	48	27,800	44,400
Pt.2 surface	48	33,000	40,500
Pt.3 surface	64	16,900	22,800
Pt.4 surface	112	28,400	43,300
Pt.5 surface	192	23,400	34,200
Pt.6 surface	496	29,600	42,700



**APACHE
WHITE OWL
BATTERY AD**
UL/D SECTION 2
T-20-S R-38-E
LEA COUNTY, NM

DGW = 48 ft

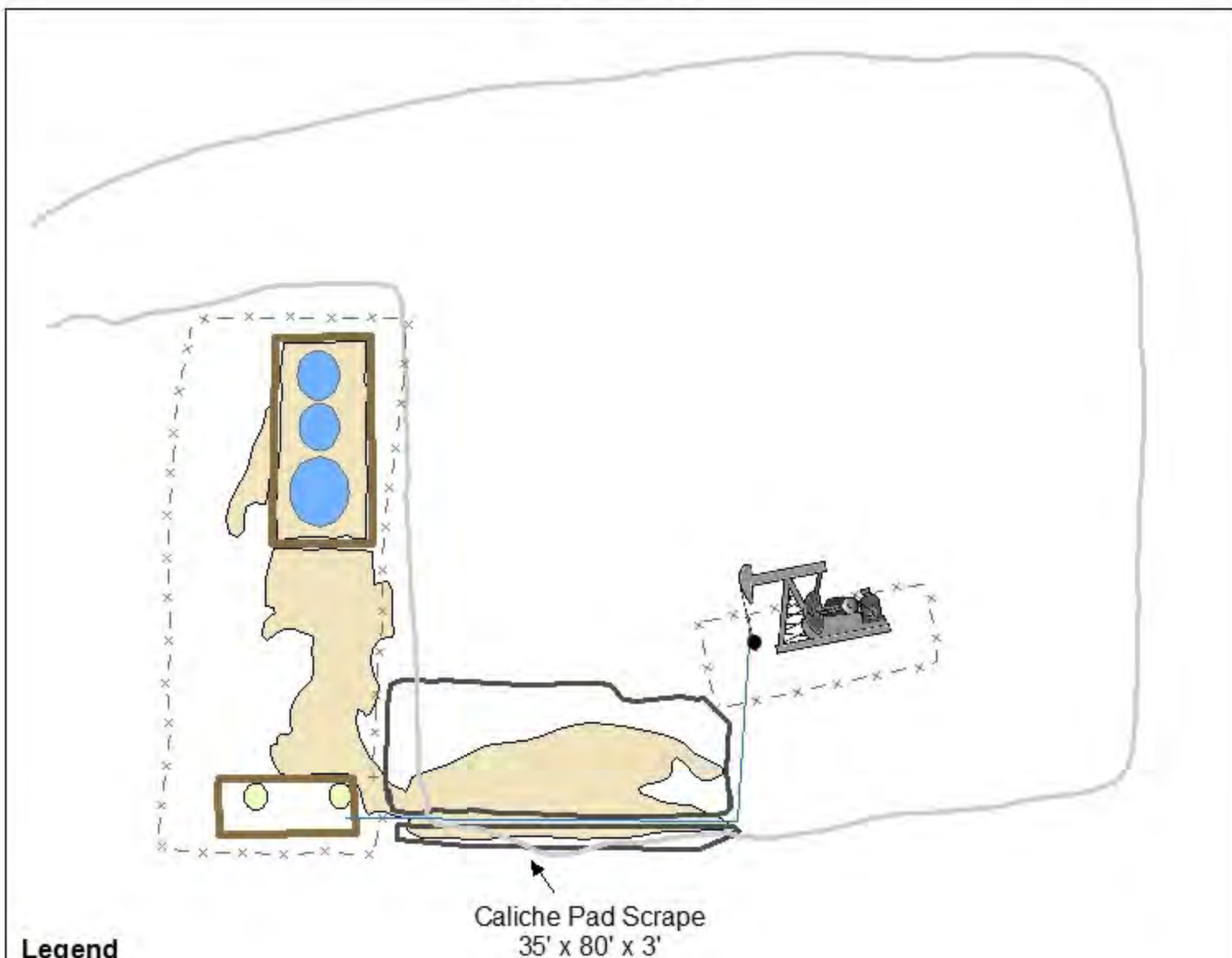
Figure 1



0 15 30 60
Feet

GPS date: 2/18/12
Drawing date: 3/15/12
Drafted by: L. Weinheimer

Site Plat



Legend

- WELL HEAD
- BERM
- x - x FENCE
- FLOW LINE
- PAD
- scrape on pad
- SEPARATOR
- STAIN (3,791 sq ft)
- TANK

CALICHE PAD SCRAPE LAB DATA

Sample Description	CI-	GRO	DRO
5 PT BTM COMP ON PAD SCRAPE	<16	<10	<10



**APACHE
WHITE OWL
BATTERY AD**
UL/D SECTION 2
T-20-S R-38-E
LEA COUNTY, NM

DGW = 48 ft
Figure 2



0 15 30 60
Feet

GPS date: 2/18/12
Drawing date: 3/15/12
Drafted by: L. Weinheimer

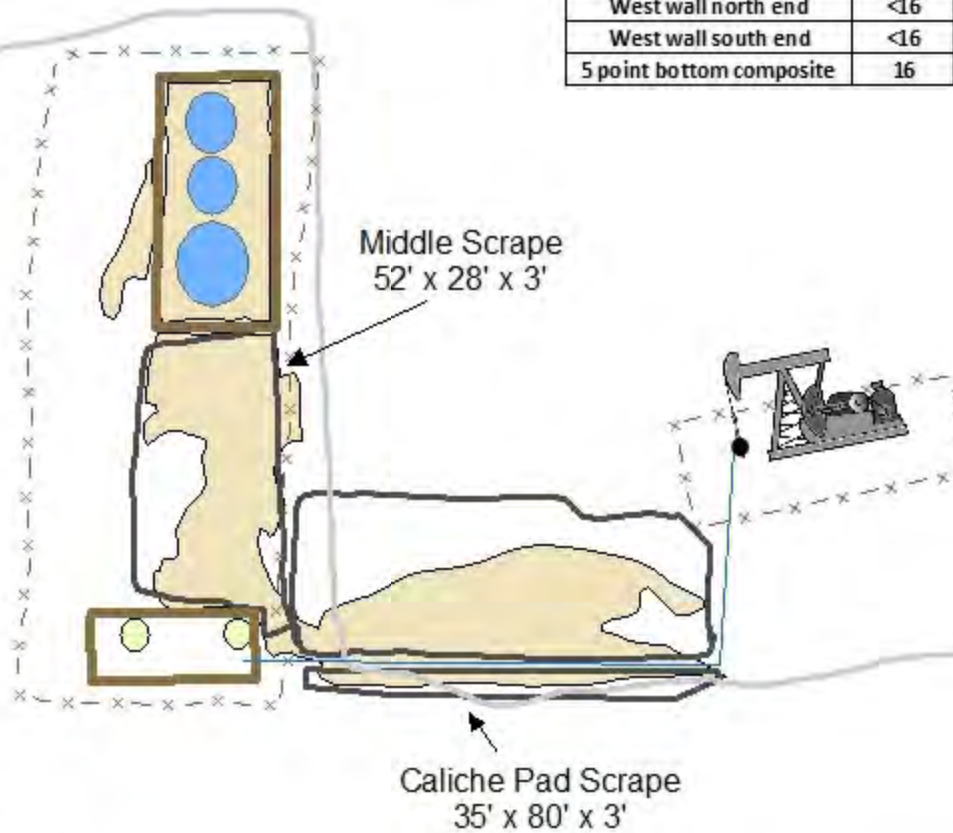
Site Plat

BERMED AREA LAB DATA

Sample Description	Cl-	GRO	DRO
NW corner bottom@ 1.6'	<16	<10	<10
SE corner bottom@ 2'	128	<10	15

MIDDLE SCRAPE LAB DATA

Sample Description	CI-	GRO	DRO
North wall center	<16	<10	<10
East wall north end	80	<10	<10
East wall south end	224	<10	<10
South wall center	<16	<10	<10
West wall north end	<16	<10	<10
West wall south end	<16	<10	<10
5 point bottom composite	16	<10	<10



Legend

- WELL HEAD
- BERM
- × — × FENCE
- FLOW LINE
- PAD
- ▭ SCRAPES
- ▭ SEPARATOR
- ▭ STAIN (3,791 sq ft)
- ▭ TANK

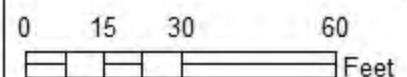
CALICHE PAD SCRAPE LAB DATA

Sample Description	Cl-	GRO	DRO
North wall west end	32	<10	<10
North wall east end	144	<10	<10
South wall east end	64	<10	<10
South wall west end	16	<10	<10
West wall center	224	<10	<10
East wall center	128	<10	<10



**APACHE
WHITE OWL
BATTERY AD**
UL/D SECTION 2
T-20-S R-38-E
LEA COUNTY, NM

DGW = 48 ft
Figure 3



GPS date: 2/16/12
Drawing date: 3/15/12
Drafted by: L. Weinheimer

Appendix A

Initial Form C-141

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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Apache Corporation	Contact Natalie Gladden	
Address PO Box 1849 Eunice, NM 88231	Telephone No. 575-390-4186	
Facility Name White Owl Bty (nearest well #001)	Facility Type Production Facility	
Surface Owner Unknown	Mineral Owner State of NM	Lease No. 30-025-36689

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	2	20S	38E	582'	FNL	330'	FWL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Oil	Volume of Release 150bbls	Volume Recovered 75bbls
Source of Release Swedge Failure	Date and Hour of Occurrence 2/15/12	Date and Hour of Discovery 2/15/12
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffrey Leking	
By Whom? Natalie Gladden	Date and Hour 2/15/12 449pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

Swedge on circulating line cracked due to corrosion and caused fluid to release inside and outside of containment walls.

Describe Area Affected and Cleanup Action Taken.*

Fluid was recovered and remediation has begun and NMOCD Standards will be followed to closure.

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

Signature: 	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Natalie Gladden	Approved by District Supervisor:	
Title: EHS Environmental Tech	Approval Date:	Expiration Date:
E-mail Address: natalie.gladden@apachecorp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2/17/12 Phone: 575-390-4186		

* Attach Additional Sheets If Necessary

Appendix B

Site Photographs

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

White Owl Battery

Unit Letter D, Section 2, T21S R37E



Initial release, facing northwest

2/16/2012



Initial release, facing northeast

2/16/2012



Initial release, facing west

2012/02/16

2/16/2012



Excavating, facing southwest

02/24/2012

2/24/2012



Exporting soil, facing north

02/24/2012

2/24/2012



Excavating, facing south

02/28/2012

2/28/2012



Final excavation, facing west

2/29/2012



Final excavation, facing southeast

2/29/2012



Backfilling, facing north

3/9/2012



Importing caliche, facing south

3/9/2012



Rebuilding berms, facing south

3/12/2012



Site backfilled, facing west

3/13/2012



Site backfilled, facing south

6/5/2012



Site backfilled, facing north

6/5/2012

Appendix C

Laboratory Results

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

February 21, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WHITE OWL BATTERY AD

Enclosed are the results of analyses for samples received by the laboratory on 02/16/12 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/16/2012
Reported: 02/21/2012
Project Name: WHITE OWL BATTERY AD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/16/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SS @ PT 1 (H200426-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/20/2012	ND	416	104	400	3.92	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	27800	200	02/17/2012	ND	179	89.4	200	5.95	
DRO >C10-C28	44400	200	02/17/2012	ND	176	88.2	200	7.64	

Surrogate: 1-Chlorooctane 367 % 55.5-154

Surrogate: 1-Chlorooctadecane 167 % 57.6-158

Sample ID: SS @ PT 2 (H200426-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/20/2012	ND	416	104	400	3.92	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	33000	200	02/17/2012	ND	179	89.4	200	5.95	
DRO >C10-C28	40500	200	02/17/2012	ND	176	88.2	200	7.64	

Surrogate: 1-Chlorooctane 405 % 55.5-154

Surrogate: 1-Chlorooctadecane 124 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/16/2012
Reported: 02/21/2012
Project Name: WHITE OWL BATTERY AD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/16/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SS @ PT 3 (H200426-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/20/2012	ND	416	104	400	3.92	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	16900	200	02/17/2012	ND	179	89.4	200	5.95	
DRO >C10-C28	22800	200	02/17/2012	ND	176	88.2	200	7.64	

Surrogate: 1-Chlorooctane 271 % 55.5-154

Surrogate: 1-Chlorooctadecane 100 % 57.6-158

Sample ID: SS @ PT 4 (H200426-04)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/20/2012	ND	416	104	400	3.92	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	28400	200	02/17/2012	ND	179	89.4	200	5.95	
DRO >C10-C28	43300	200	02/17/2012	ND	176	88.2	200	7.64	

Surrogate: 1-Chlorooctane 375 % 55.5-154

Surrogate: 1-Chlorooctadecane 149 % 57.6-158

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/16/2012
Reported: 02/21/2012
Project Name: WHITE OWL BATTERY AD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/16/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SS @ PT 5 (H200426-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/20/2012	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	23400	200	02/17/2012	ND	179	89.4	200	5.95		
DRO >C10-C28	34200	200	02/17/2012	ND	176	88.2	200	7.64		

Surrogate: 1-Chlorooctane 342 % 55.5-154

Surrogate: 1-Chlorooctadecane 186 % 57.6-158

Sample ID: SS @ PT 6 (H200426-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	02/20/2012	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	29600	200	02/17/2012	ND	179	89.4	200	5.95		
DRO >C10-C28	42700	200	02/17/2012	ND	176	88.2	200	7.64		

Surrogate: 1-Chlorooctane 276 % 55.5-154

Surrogate: 1-Chlorooctadecane 115 % 57.6-158

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache Corp.				BILL TO				ANALYSIS REQUEST																		
Project Manager: Natalie Gladden				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div> </div>																		
Address:				Company:																						
City: State: Zip:				Attn:																						
Phone #: Fax #:				Address:																						
Project #: Project Owner:				City:																						
Project Name:				State: Zip:																						
Project Location: <i>White Owl Battery AD</i>				Phone #:																						
Sampler Name: <i>J Kampain</i>				Fax #:																						
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
<i>H200426</i>																										
<i>1</i>	<i>SS @ P-1</i>	<i>9</i>	<i>1</i>			<i>/</i>				<i>/</i>			<i>2-16-12</i>	<i>9:15</i>	<i>✓</i>	<i>✓</i>										
<i>2</i>	<i>SS @ P-2</i>	<i>9</i>	<i>1</i>			<i>/</i>				<i>/</i>			<i>2-16-12</i>	<i>9:20</i>	<i>✓</i>	<i>✓</i>										
<i>3</i>	<i>SS @ P-3</i>	<i>9</i>	<i>1</i>			<i>/</i>				<i>/</i>			<i>2-16-12</i>	<i>9:25</i>	<i>✓</i>	<i>✓</i>										
<i>4</i>	<i>SS @ P-4</i>	<i>9</i>	<i>1</i>			<i>/</i>				<i>/</i>			<i>2-16-12</i>	<i>9:30</i>	<i>✓</i>	<i>✓</i>										
<i>5</i>	<i>SS @ P-5</i>	<i>9</i>	<i>1</i>			<i>/</i>				<i>/</i>			<i>2-16-12</i>	<i>9:35</i>	<i>✓</i>	<i>✓</i>										
<i>6</i>	<i>SS @ P-6</i>	<i>9</i>	<i>1</i>			<i>/</i>				<i>/</i>			<i>2-16-12</i>	<i>9:40</i>	<i>✓</i>	<i>✓</i>										

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

Relinquished By: <i>[Signature]</i>	Date: <i>2-16-12</i> Time: <i>4:10</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
			Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results	
Delivered By: (Circle One)			natalie.gladden@apachecorp.com	
Sampler - UPS - Bus - Other:	<i>2.5°C</i>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>	Zconder@rice-ecs.com; Bbaker@rice-ecs.com;	
		CHECKED BY: <i>[Signature]</i>	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com	

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

#26

March 05, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WHITE OWL BATTERY AD

Enclosed are the results of analyses for samples received by the laboratory on 03/01/12 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:APACHE - EUNICE
NATALIE GLADDEN
P. O. BOX 1849
EUNICE NM, 88231
Fax To: 394-2425Received: 03/01/2012
Reported: 03/05/2012
Project Name: WHITE OWL BATTERY AD
Project Number: NONE GIVEN
Project Location: NOT GIVENSampling Date: 02/29/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson**Sample ID: 5 PT BTM COMP ON PAD SCRAPE (H200543-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/02/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/03/2012	ND	192	96.2	200	3.12	
DRO >C10-C28	<10.0	10.0	03/03/2012	ND	157	78.5	200	2.75	
Surrogate: 1-Chlorooctane	88.3 %	55.5-154							
Surrogate: 1-Chlorooctadecane	95.8 %	57.6-158							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-HI	High surrogate recovery was confirmed as a matrix effect by a second analysis.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

[illegible]

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

Relinquished By: <i>Nat'l G. L. Hone</i> Date: <i>7/1/13</i> Time: <i>5:15</i>		Received By: <i>Kelli Peterson</i> Date: _____ Time: _____		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ REMARKS: <i>Nat'l G. L. Hone USA Sparkle Corp. com</i> <i>B. Baker are nice</i> <i>H. Conk are nice</i>	
Relinquished By: _____ Date: _____ Time: _____		Received By: _____ Date: _____ Time: _____			
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Sample Condition Cool - Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		CHECKED BY: <i>[Signature]</i> (Initials)	

March 06, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WHITE OWL BATTERY AD

Enclosed are the results of analyses for samples received by the laboratory on 03/02/12 8:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/02/2012
 Reported: 03/06/2012
 Project Name: WHITE OWL BATTERY AD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/01/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: NW CORNER BTM @ 1.6' (H200555-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5	
DRO >C10-C28	<10.0	10.0	03/05/2012	ND	195	97.3	200	8.29	
Surrogate: 1-Chlorooctane	105 %	55.5-154							
Surrogate: 1-Chlorooctadecane	111 %	57.6-158							

Sample ID: SE CORNER BTM @ 2' (H200555-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5	
DRO >C10-C28	15.3	10.0	03/05/2012	ND	195	97.3	200	8.29	
Surrogate: 1-Chlorooctane		98.4 %	55.5-154						
Surrogate: 1-Chlorooctadecane		107 %	57.6-158						

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 03/02/2012
Reported: 03/06/2012
Project Name: WHITE OWL BATTERY AD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/01/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: ON PAD SCRAPE N WALL W END (H200555-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5	
DRO >C10-C28	<10.0	10.0	03/05/2012	ND	195	97.3	200	8.29	
Surrogate: 1-Chlorooctane	98.9 %	55.5-154							
Surrogate: 1-Chlorooctadecane	109 %	57.6-158							

Sample ID: ON PAD SCRAPE N WALL E END (H200555-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5	
DRO >C10-C28	<10.0	10.0	03/05/2012	ND	195	97.3	200	8.29	
Surrogate: 1-Chlorooctane	87.8 %	55.5-154							
Surrogate: 1-Chlorooctadecane	98.6 %	57.6-158							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 03/02/2012
Reported: 03/06/2012
Project Name: WHITE OWL BATTERY AD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/01/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: ON PAD SCRAPE S WALL E END (H200555-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5	
DRO >C10-C28	<10.0	10.0	03/05/2012	ND	195	97.3	200	8.29	
Surrogate: 1-Chlorooctane	95.4 %	55.5-154							
Surrogate: 1-Chlorooctadecane	102 %	57.6-158							

Sample ID: ON PAD SCRAPE S WALL W END (H200555-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5	
DRO >C10-C28	<10.0	10.0	03/05/2012	ND	195	97.3	200	8.29	
Surrogate: 1-Chlorooctane	98.0 %	55.5-154							
Surrogate: 1-Chlorooctadecane	108 %	57.6-158							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 03/02/2012
Reported: 03/06/2012
Project Name: WHITE OWL BATTERY AD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/01/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: ON PAD SCRAPE W WALL CENTER (H200555-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5	
DRO >C10-C28	<10.0	10.0	03/05/2012	ND	195	97.3	200	8.29	
Surrogate: 1-Chlorooctane	94.5 %	55.5-154							
Surrogate: 1-Chlorooctadecane	105 %	57.6-158							

Sample ID: ON PAD SCRAPE E WALL CENTER (H200555-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4	
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98.2	200	16.7	
Surrogate: 1-Chlorooctane	81.3 %	55.5-154							
Surrogate: 1-Chlorooctadecane	89.4 %	57.6-158							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 03/02/2012
Reported: 03/06/2012
Project Name: WHITE OWL BATTERY AD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/01/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: MIDDLE SCRAPE N WALL CENTER (H200555-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4	
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98.2	200	16.7	
Surrogate: 1-Chlorooctane		92.1 %	55.5-154						
Surrogate: 1-Chlorooctadecane		102 %	57.6-158						

Sample ID: MIDDLE SCRAPE E WALL N END (H200555-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4	
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98.2	200	16.7	
Surrogate: 1-Chlorooctane		101 %	55.5-154						
Surrogate: 1-Chlorooctadecane		107 %	57.6-158						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 03/02/2012
Reported: 03/06/2012
Project Name: WHITE OWL BATTERY AD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/01/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: MIDDLE SCRAPE E WALL S END (H200555-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4	
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98.2	200	16.7	
Surrogate: 1-Chlorooctane		100 %	55.5-154						
Surrogate: 1-Chlorooctadecane		96.6 %	57.6-158						

Sample ID: MIDDLE SCRAPE S WALL CENTER (H200555-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4	
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98.2	200	16.7	
Surrogate: 1-Chlorooctane		106 %	55.5-154						
Surrogate: 1-Chlorooctadecane		114 %	57.6-158						

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 03/02/2012
Reported: 03/06/2012
Project Name: WHITE OWL BATTERY AD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/01/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: MIDDLE SCRAPE W WALL N END (H200555-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4	
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98.2	200	16.7	
Surrogate: 1-Chlorooctane		106 %	55.5-154						
Surrogate: 1-Chlorooctadecane		113 %	57.6-158						

Sample ID: MIDDLE SCRAPE W WALL S END (H200555-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4	
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98.2	200	16.7	
Surrogate: 1-Chlorooctane		87.0 %	55.5-154						
Surrogate: 1-Chlorooctadecane		74.3 %	57.6-158						

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/02/2012
 Reported: 03/06/2012
 Project Name: WHITE OWL BATTERY AD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/01/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MIDDLE SCRAPE 5 PT BTTM COMP @ 3' (H200555-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/05/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/06/2012	ND	195	97.4	200	24.4	
DRO >C10-C28	<10.0	10.0	03/06/2012	ND	196	98.2	200	16.7	
Surrogate: 1-Chlorooctane		85.8 %	55.5-154						
Surrogate: 1-Chlorooctadecane		83.3 %	57.6-158						

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

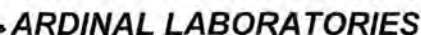
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: <i>Natalie Gladden</i> Relinquished By: _____ Date: <i>3/12/12</i> Time: <i>8:35</i> Date: _____ Time: _____		Received By: <i>Jodi Benson</i> Received By: _____ Date: _____ Time: _____		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #: _____ REMARKS: email resultsNatalie Gladden@usa.apachecorp.com Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials) <i>LG</i>	

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

#26



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache				BILL TO												ANALYSIS REQUEST													
Project Manager: Natalie Gladden				P.O. #:												<div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div>													
Address:				Company:																									
City: State: NM Zip:				Attn:																									
Phone #: Fax #:				Address:																									
Project #: Project Owner:				City:																									
Project Name: <i>White owl battery</i>				State: Zip:																									
Project Location:				Phone #:																									
Sampler Name: <i>Dakston Harris</i>				Fax #:																									
FOR LAB USE ONLY																													
Lab I.D.		Sample I.D.		(GRAB OR (COMP. # CONTAINERS	MATRIX					PRESERV.			SAMPLING																
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME														
<i>H200555</i>		<i>on pad scrape</i>																											
<i>3 N. Wall W. end</i>				<i>G 1</i>			<i>✓</i>				<i>✓</i>			<i>3-1-12</i>	<i>2:00</i>	<i>✓</i>	<i>✓</i>												
<i>4 N. Wall E. end</i>				<i>G 1</i>			<i>✓</i>				<i>✓</i>			<i>3-1-12</i>	<i>2:05</i>	<i>✓</i>	<i>✓</i>												
<i>5 S. Wall E. end</i>				<i>G 1</i>			<i>✓</i>				<i>✓</i>			<i>3-1-12</i>	<i>2:10</i>	<i>✓</i>	<i>✓</i>												
<i>6 S. Wall W. end</i>				<i>G 1</i>			<i>✓</i>				<i>✓</i>			<i>3-1-12</i>	<i>2:15</i>	<i>✓</i>	<i>✓</i>												
<i>7 W. Wall Center</i>				<i>G 1</i>			<i>✓</i>				<i>✓</i>			<i>3-1-12</i>	<i>2:20</i>	<i>✓</i>	<i>✓</i>												
<i>8 E. Wall Center</i>				<i>G 1</i>			<i>✓</i>				<i>✓</i>			<i>3-1-12</i>	<i>2:25</i>	<i>✓</i>	<i>✓</i>												

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Relinquished By: <i>Cabrita Harris</i>		Date: <i>3/12/12</i>		Received By: <i>Jodi Henson</i>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
		Time: <i>6:35</i>				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: email resultsNatalie Gladden@usa.apachecorp.com Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other:				<div>Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No</div>		<i>[Signature]</i>			

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(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache				BILL TO												ANALYSIS REQUEST											
Project Manager: Natalie Gladden				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div> </div>																			
Address:				Company:																							
City: State: NM Zip:				Attn:																							
Phone #: Fax #:				Address:																							
Project #: Project Owner:				City:																							
Project Name: <i>White Owl Battery</i>				State: Zip:																							
Project Location:				Phone #:																							
Sampler Name: <i>Dakota Harris</i>				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		GRAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING													
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER				ACID/BASE: ICE / COOL OTHER		DATE TIME													
H200555		Middle scrape		G		1								3-1-12 3:00													
9		N. Wall center		G		1								3-1-12 3:05													
10		E. Wall n end		G		1								3-1-12 3:10													
11		E. Wall s end		G		1								3-1-12 3:15													
12		S. Wall center		G		1								3-1-12 3:20													
13		W. Wall n end		G		1								3-1-12 3:25													
14		W. Wall s end		G		1								3-1-12 3:30													
15		Spt. btm comp @ 3'		C		1																					

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Relinquished By: <i>[Signature]</i>		Date: <i>3/2/12</i>		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
		Time: <i>6:35</i>				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: email resultsNatalie Gladden@usa apachecorp.com Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other:				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		<i>[Signature]</i>			

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#26

March 13, 2012

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WHITE OWL BATTERY AD

Enclosed are the results of analyses for samples received by the laboratory on 03/09/12 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

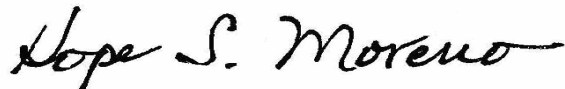
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Hope Moreno

Inorganic Technical Director

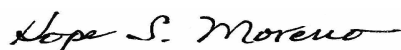
Analytical Results For:APACHE - EUNICE
NATALIE GLADDEN
P. O. BOX 1849
EUNICE NM, 88231
Fax To: 394-2425Received: 03/09/2012
Reported: 03/13/2012
Project Name: WHITE OWL BATTERY AD
Project Number: NONE GIVEN
Project Location: NADINESampling Date: 03/09/2012
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Amanda Ponce**Sample ID: BACKFILL (H200620-01)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/13/2012	ND	400	400	100	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Hope Moreno, Inorganic Technical Director

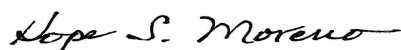
Notes and Definitions

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

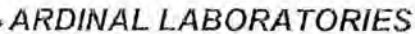
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Hope Moreno, Inorganic Technical Director



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Appendix D

Final C-141

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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Apache Corp.	Contact	Bruce Baker
Address	PO BOX 1849, Eunice, NM 88231	Telephone No.	(432) 631-6982
Facility Name	White Owl Battery (nearest well #1)	Facility Type	Production Facility
Surface Owner	Unknown	Mineral Owner	State of NM
		Lease No.	30-025-36689

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	2	20S	38E	582	FNL	330	FWL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	150 bbl	Volume Recovered	75 bbl
Source of Release	Swedge failure	Date and Hour of Occurrence	2/15/12	Date and Hour of Discovery	2/15/12
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking		
By Whom?	Natalie Gladden	Date and Hour	2/15/12 4:49 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Swedge on circulating line cracked due to corrosion and caused fluid to release inside and outside of containment walls.

Describe Area Affected and Cleanup Action Taken.*

The leak affected area within the earthen berm and also outside the berm onto the caliche pad for the unit well #001. Impacted soils were removed to a NMOCD approved disposal facility. Representative soil samples were collected from the excavations and sent to a commercial laboratory for chloride and TPH confirmation. The excavations were backfilled with clean caliche and leveled.

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

Signature: <i>Bruce Baker</i>		OIL CONSERVATION DIVISION	
Printed Name: Bruce Baker			
Title: Environmental Tech		Approved by District Supervisor:	
E-mail Address: larry.baker@apachecorp.com		Approval Date:	Expiration Date:
Date: <i>8-30-13</i> Phone: (432) 631-6982		Conditions of Approval:	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary