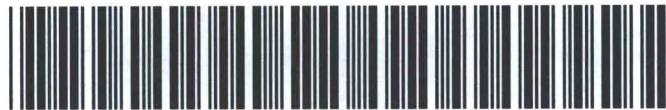




AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pKJ1603938910

x2

1RP - 4161

APACHE CORP

2/8/2016

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	Natalie Gladden
Address	P.O. Box 1849, Eunice, NM, 88231	Telephone No.	(575) 390-4186
Facility Name	McDonald AC 1 #10	Facility Type	Injection Well
Surface Owner	Dasco Cattle Company	Mineral Owner	State of NM
		Lease No.	30-025-08930

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	16	22S	36E	1980	FSL	1980	FWL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Brine Water	Volume of Release	400 bbl	Volume Recovered	350 bbl
Source of Release	Flowback	Date and Hour of Occurrence	11/3/11	Date and Hour of Discovery	11/3/11
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required				
By Whom?	Natalie Gladden	If YES, To Whom?	Geoffrey Leking		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
		Date and Hour	11/3/11 817 pm		
		If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

During a workover on this well, the well flowed back and BOP did not hold. Fluid was recovered.

Describe Area Affected and Cleanup Action Taken.*

The leak affected the caliche pad surrounding the wellhead, 2 areas of pasture land, and a length of lease road to the south. Impacted soils were removed to a NMOCD approved disposal facility. Representative soil samples were collected from the excavation and sent to a commercial laboratory for chloride confirmation. The excavation was backfilled with clean caliche and topsoil and contoured to the surrounding area.

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 federal, state, or local laws and/or regulations.

Signature: 	APPROVED
Printed Name: Natalie Gladden	
Title: EH&S Environmental Tech	Approval Date: 2/8/12 Expiration Date:
E-mail Address: Natalie.gladden@apachecorp.com	Conditions of Approval:
Date: _____ Phone: (575) 390-4186	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

12 461



EXPLORING WHAT'S POSSIBLE

DUPE

APACHE CORPORATION

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

McDonald AC 1 #10

Closure Report

API 30-025-08930

Release Date: November 3, 2011

Unit Letter K, Section 16, Township 22S, Range 36E

Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241

Phone 575.393.4411 Fax 575.393.0293

May 3, 2012

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 – McDonald AC 1 #10 AD

UL/K sec. 16 T22S R36E

API No. 30-025-08930

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 brine fluids associated with the McDonald AC 1 #10. During a workover procedure, the well flowed back and the blow out preventer failed to contain the overflow. Fluids were released onto the well pad, two areas of pasture land, and a lease road to the south. Standing fluids were recovered. An initial form C-141 was submitted by Apache Corporation on November 4, 2011 (Appendix A). The site is located southwest of Eunice, in unit letter 'K' of section 16, T22S, R36E in Lea County, New Mexico.

On November 4, 2011, RECS personnel initiated work on the McDonald AC 1 #10. Soil samples were collected from the site as excavation of the leak proceeded and field tested for chloride (Figure 1). Initial samples were submitted to a commercial laboratory for chloride analysis. The samples ranged from 1,760 ppm (parts per million or mg/kg) to 21,600 ppm (Appendix C).

On November 18, 2011, RECS personnel collected and field tested soil samples from the excavated areas (Figure 2). Representative grab samples were collected from the walls and bottoms of all excavations, and submitted to a commercial laboratory for chloride analysis. Chloride did not exceed 128 ppm in all samples (Appendix C).

Impacted soils were removed from the excavations and transported to a NMOCD approved disposal facility. The well pad and lease road excavations were backfilled with clean imported caliche and contoured to the surrounding area. The pasture area excavations were backfilled

with clean imported topsoil and similarly contoured. See Appendix B for photographs of field activities.

Conclusion

Due to the complete removal of impacted soils, 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 Natalie Gladden (575) 390-4186 if you have any questions or comments.

Sincerely,

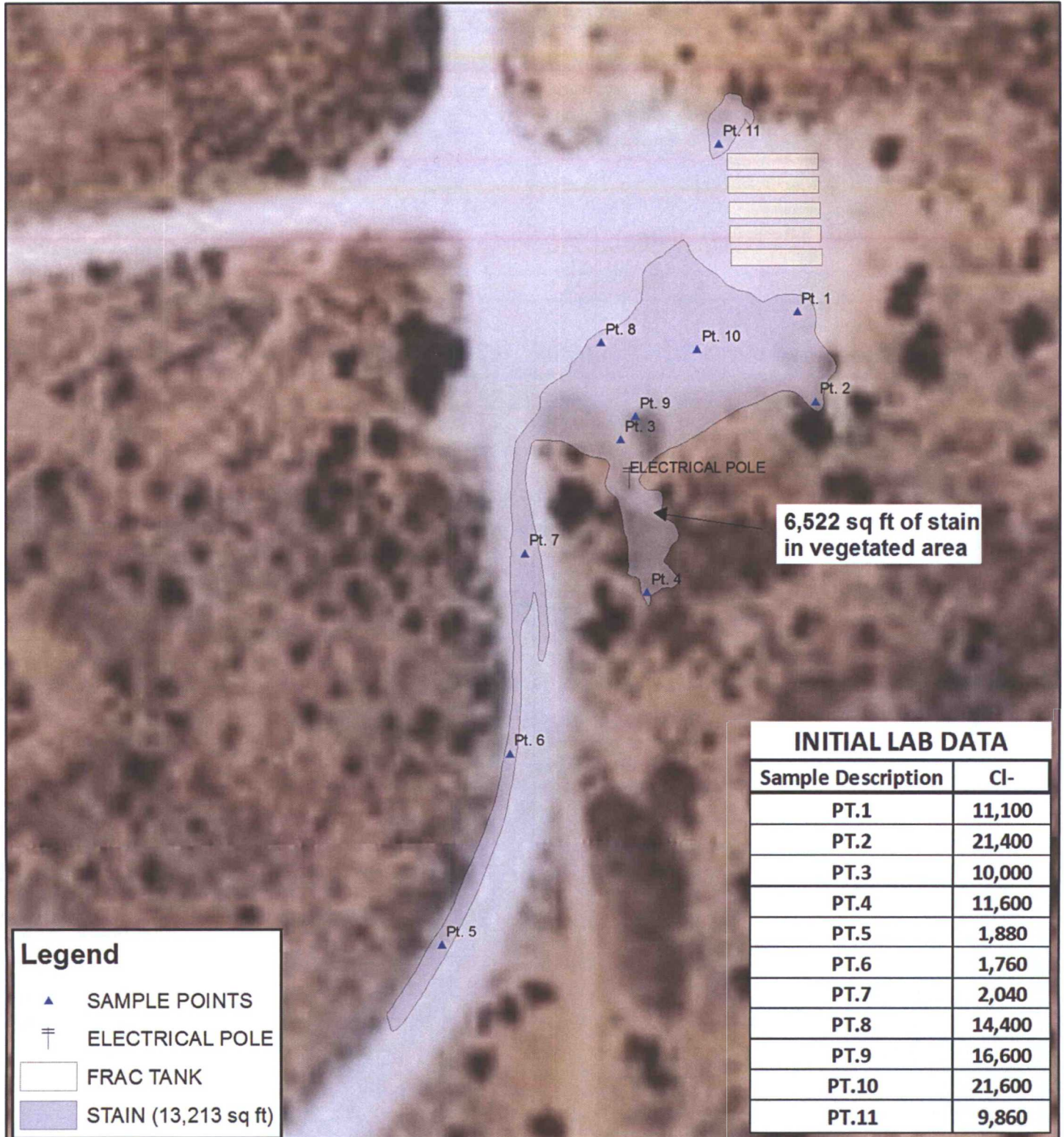


Bruce Baker
Head Foreman
RECS
(575) 631-5157

Attachments:

- Figure 1: Site Plat including Initial Lab Data
- Figure 2: Site Plat including Final Excavation Lab Data
- Appendix A: Initial Form C-141
- Appendix B: Site Photographs
- Appendix C: Laboratory Results
- Appendix D: Final Form C-141

Initial Lab Sampling Data



APACHE MCDONALD STATE AC 1 #10

Date: 11/4/11

LEGALS: UL/K sec. 16
T-22-S R-36-E
LEA COUNTY, NM

Figure 1



0 20 40 80
Feet

GPS date: 11/4/11 RP
Drawing date: 11/4/11
Drafted by: L. Weinheimer

Final Excavation Sampling Data

FINAL LAB DATA 2

Sample Description	Cl-
North scrape North wall	48
North scrape South wall	48
North scrape East wall	<16
North scrape West wall	16
North scrape 5 pt. comp	48

Pad scrape
73' x 94' x 6"

Pt. 5, 6, 7 scrape
194' x 28' x 6"

FINAL LAB DATA 4

Sample Description	Cl-
PT.5 @ 6"	128
PT.6 @ 6"	128
PT.7 @ 6"	48

FINAL LAB DATA 3

Sample Description	Cl-
Pad @ 6" 5 pt bottom	32
Pad @ 6" North wall	32
Pad @ 6" East wall	32
Pad @ 6" West wall	80
Pad @ 6" South wall	32

Legend

- ▲ SAMPLE POINTS
- CHEMICAL TANK
- ELECTRICAL BOX
- WELL HEAD
- ⚡ ELECTRICAL POLE
- SCRAPE
- FRAC TANK
- STAIN (13,213 sq ft)

North scrape
45' x 26' x 1'

Excavation off pad
155' x 108' x 4'

FINAL LAB DATA 1

Sample Description	Cl-
Excavation off pad - North wall east	48
Excavation off pad - North wall west	112
Excavation off pad - South wall east	<16
Excavation off pad - South wall west	<16
Excavation off pad - East wall north	<16
Excavation off pad - East wall south	<16
Excavation off pad - West wall north	32
Excavation off pad - West wall south	32
Excavation off pad - South wall center	32
Excavation off pad - 5 pt east bottom	96
Excavation off pad - 5 pt mid bottom	112
Excavation off pad - 5 pt west bottom	80



**APACHE MCDONALD
STATE AC 1 #10**

LEGALS: UL/K sec. 16
T-22-S R-36-E
LEA COUNTY, NM

Figure 2



0 20 40 80
Feet

GPS date: 11/28/11 JK
Drawing date: 11/29/11
Drafted by: L. Weinheimer

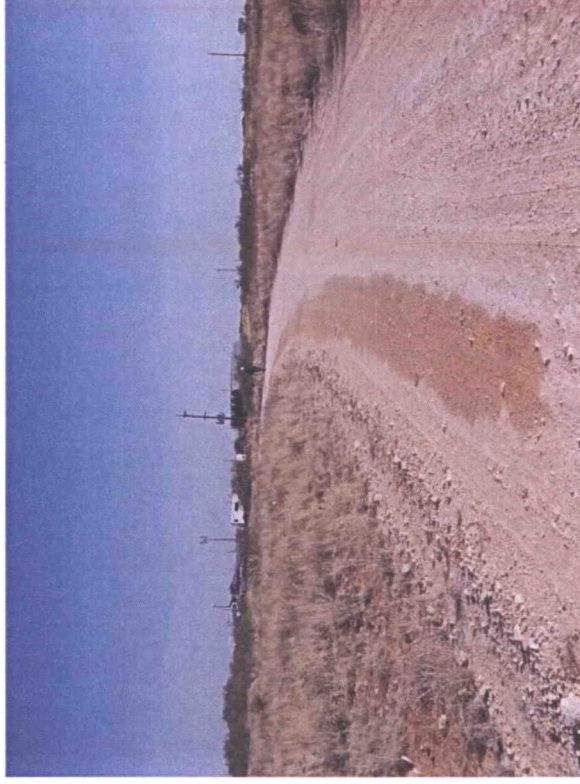
McDonald AC 1 #10

Unit Letter K, Section 16, T22S R36E



Initial sampling, facing north

11/4/2011



Initial release, facing north

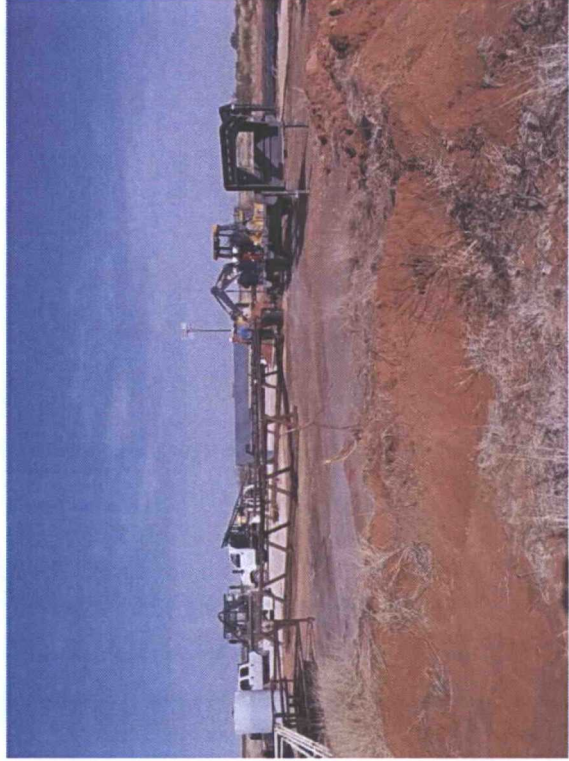
11/4/2011



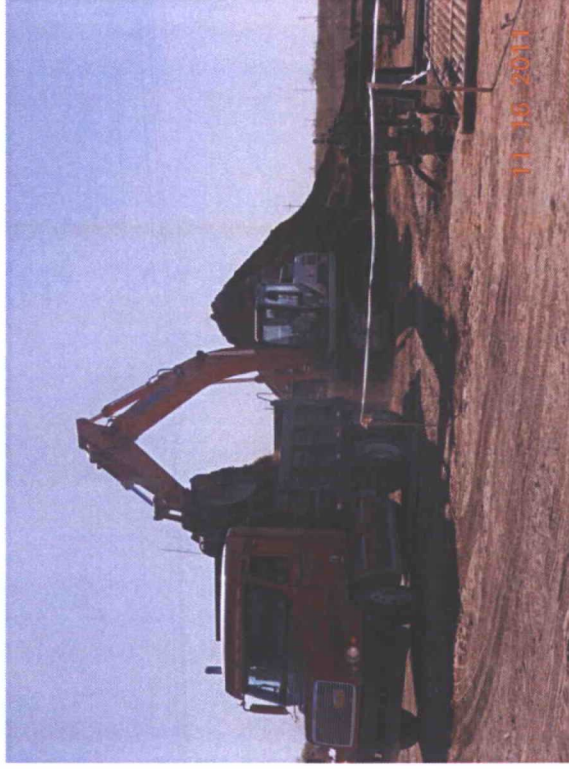
Initial release, facing south 11/4/2011



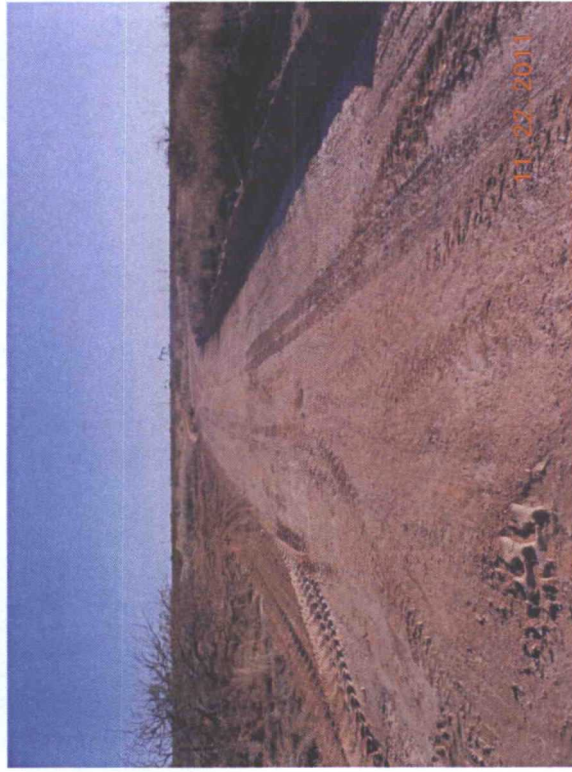
Initial release in north area, facing south 11/4/2011



Initial release on well pad, facing northwest 11/4/2011

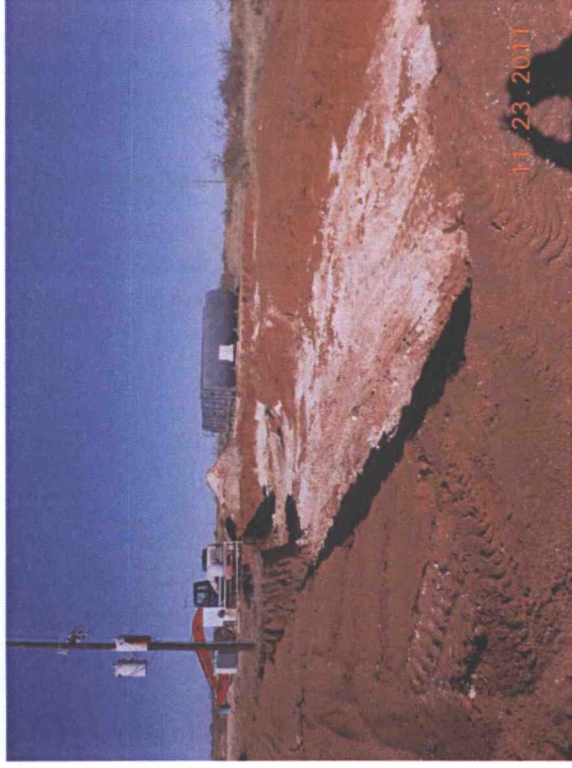


Excavating/exporting soil, facing southeast 11/16/2011



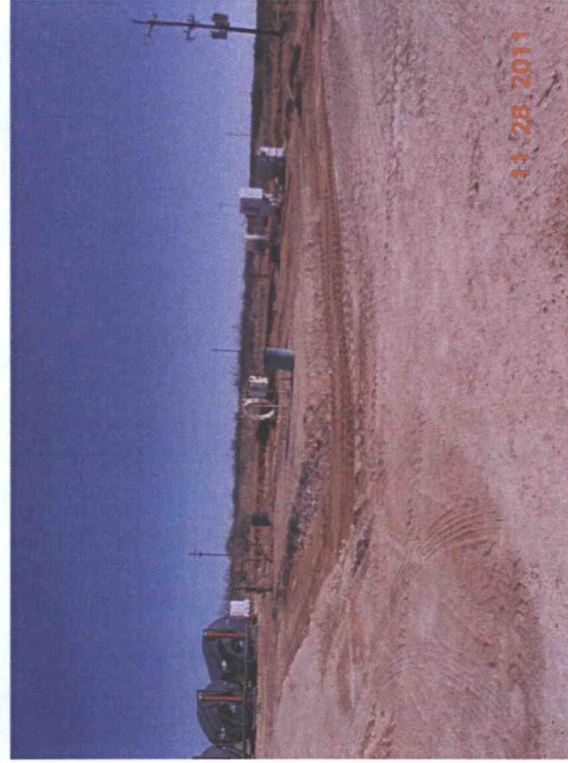
Scrape on road, facing south

11/22/2011



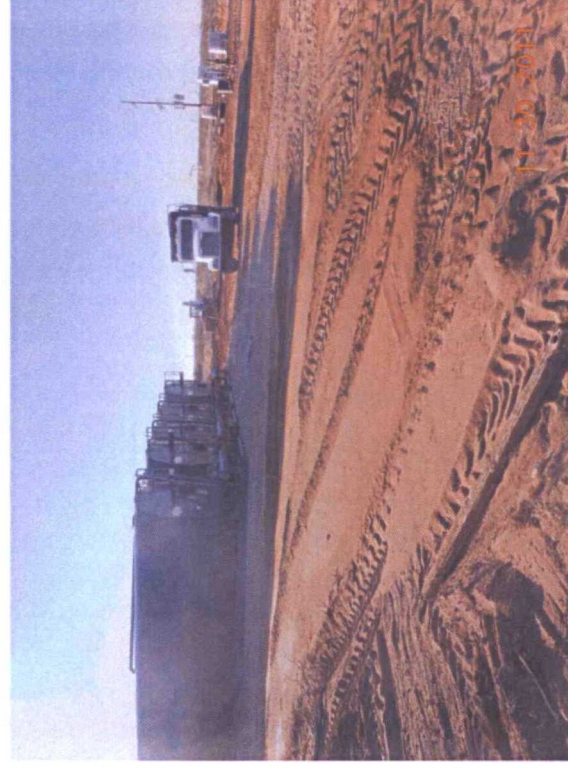
Area south of pad excavation, facing northeast

11/23/2011



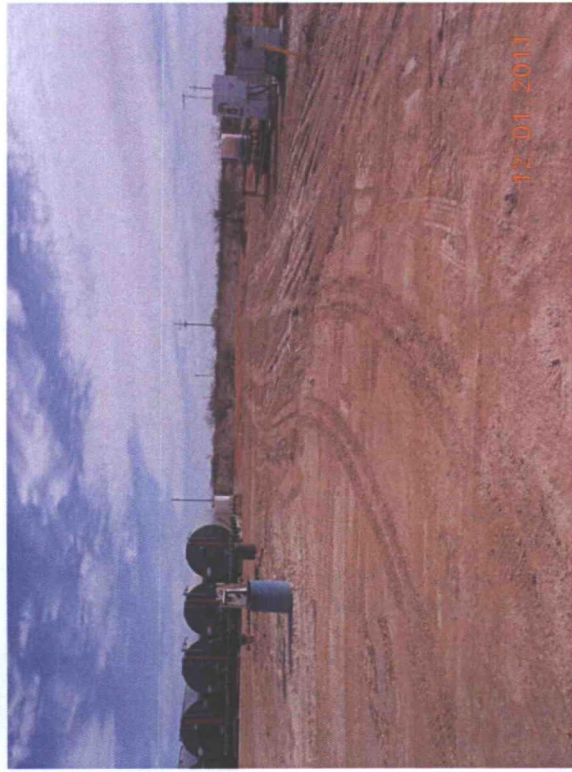
Excavation on well pad, facing southeast

11/28/2011

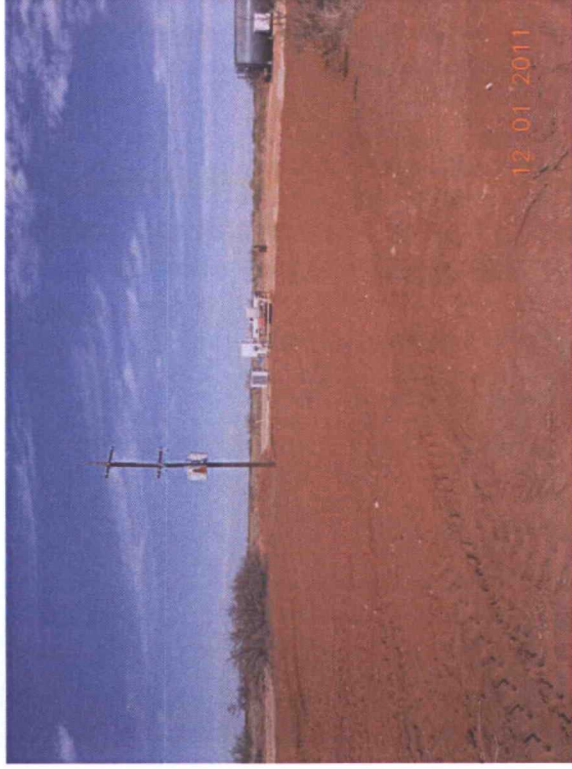


North scrape backfilled, facing south

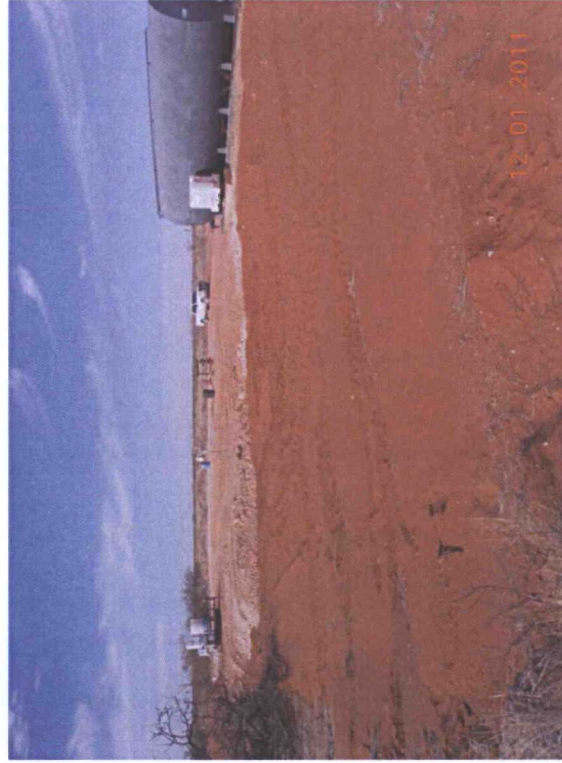
11/30/2011



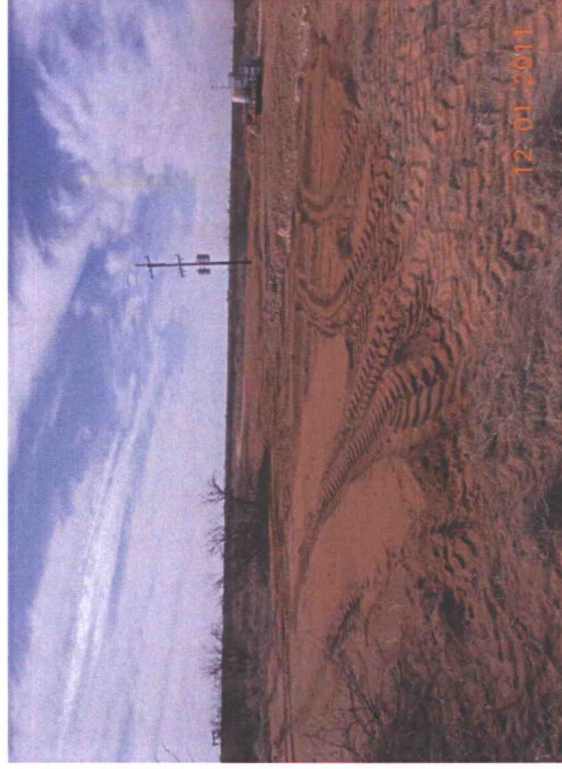
Well pad backfilled/watered, facing east 12/1/2011



South of well pad backfilled, facing northwest 12/1/2011



Southeast of well pad backfilled, facing west 12/1/2011



Site complete, facing southwest 12/1/2011

Analytical Results For:

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

 Received: 11/04/2011
 Reported: 11/08/2011
 Project Name: MC DONALD AC #1 #10
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 11/04/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 1 (H102398-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11100	16.0	11/07/2011	ND	448	112	400	3.51	

Sample ID: PT. 2 (H102398-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21400	16.0	11/07/2011	ND	448	112	400	3.51	

Sample ID: PT. 3 (H102398-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	11/07/2011	ND	448	112	400	3.51	

Sample ID: PT. 4 (H102398-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	11/07/2011	ND	448	112	400	3.51	

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: 11/04/2011
Reported: 11/08/2011
Project Name: MC DONALD AC #1 #10
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/04/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT. 5 (H102398-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	11/07/2011	ND	448	112	400	3.51	

Sample ID: PT. 6 (H102398-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	11/07/2011	ND	448	112	400	3.51	

Sample ID: PT. 7 (H102398-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	11/07/2011	ND	448	112	400	3.51	

Sample ID: PT. 8 (H102398-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14400	16.0	11/07/2011	ND	448	112	400	3.51	

Sample ID: PT. 9 (H102398-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16600	16.0	11/07/2011	ND	448	112	400	3.51	

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: 11/04/2011
Reported: 11/08/2011
Project Name: MC DONALD AC #1 #10
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/04/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT. 10 (H102398-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	21600	16.0	11/07/2011	ND	448	112	400	3.51		


Sample ID: PT. 11 (H102398-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9860	16.0	11/07/2011	ND	448	112	400	3.51	

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO										ANALYSIS REQUEST									
Company Name: Apache Corp.										P.O. #:									
Project Manager: Natalie Gladden										Company:									
Address:										Attn:									
City:										Address:									
Phone #:										City:									
Project #:										State:									
Project Name: <i>McLure AC H1 #10</i>										Phone #:									
Project Location: <i>Zonder</i>										Fax #:									
Sampler Name: <i>Robert J. J. J.</i>																			
FOR LAB USE ONLY																			
Lab I.D.										Sample I.D.									
H102995																			
1 Pt. 1										DATE TIME									
2 Pt. 2										11-4-11 10:15 AM									
3 Pt. 3										11-4-11 10:19 AM									
4 Pt. 4										11-4-11 10:22 AM									
5 Pt. 5										11-4-11 10:25 AM									
6 Pt. 6										11-4-11 10:31 AM									
7 Pt. 7										11-4-11 10:33 AM									
8 Pt. 8										11-4-11 10:37 AM									
9 Pt. 9										11-4-11 10:40 AM									
10 Pt. 10										11-4-11 10:57 AM									

MATRIX		PRESERV		SAMPLING	
GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:
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ARDINAL LABORATORIES

Company Name: Apache Corp. Project Manager: Natalie Gladden Address: City: State: <i>NM</i> Zip: Phone #: Fax #: Project #: Project Owner: Project Name: <i>McDonald AC #11 #10</i> Project Location: <i>Enrique</i> Sampler Name: <i>Robertto Pava</i>										BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #: Matrix: PRESERV SAMPLING <div style="display: flex; justify-content: space-between;"> <div> LABORATORY USE ONLY Lab I.D. Sample I.D. <i>H102398</i> <i>11 PL-11</i> </div> <div> <div style="display: flex; justify-content: space-between;"> <div> Matrix: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER: <input checked="" type="checkbox"/> GROUNDWATER, <input type="checkbox"/> WASTEWATER, <input checked="" type="checkbox"/> SOIL, <input type="checkbox"/> OIL, <input type="checkbox"/> SLUDGE, <input type="checkbox"/> OTHER: <input checked="" type="checkbox"/> ACID/BASE, <input type="checkbox"/> ICE / COOL, <input type="checkbox"/> OTHER: <input checked="" type="checkbox"/> (G)RAB OR (C)OMP., <input type="checkbox"/> # CONTAINERS </div> <div> DATE TIME <i>11-4-11</i> <i>12:54pm</i> </div> </div> </div> </div>									
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ANALYSIS REQUEST

PLEASE NOTE: Liability and Damages. Cardmark'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 Cardmark within 30 days after completion of the applicable analyses. In no event shall Cardmark be liable for consequential or compensatory damages, including lost profits, income, or any other indirect or special damages, or any other damages, except as expressly stated herein. Cardmark's liability shall be limited to the amount paid by the client for the analyses. Cardmark's liability shall be limited to the amount paid by the client for the analyses. Cardmark's liability shall be limited to the amount paid by the client for the analyses.

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

Analytical Results For:

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

 Received: 11/28/2011
 Reported: 11/30/2011
 Project Name: MC DONALD AC #1 #10
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 11/18/2011
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: N. SCRAPE N. WALL (H102555-01)

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	11/29/2011	ND	432	108	400	0.00	

Sample ID: N. SCRAPE S. WALL (H102555-02)

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	11/29/2011	ND	432	108	400	0.00	

Sample ID: N. SCRAPE E. WALL (H102555-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/29/2011	ND	432	108	400	0.00	


Sample ID: N. SCRAPE W. WALL (H102555-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/29/2011	ND	432	108	400	0.00	

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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: 11/28/2011
 Reported: 11/30/2011
 Project Name: MC DONALD AC #1 #10
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 11/18/2011
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: N. SCRAPE 5 PT. COMP (H102555-05)

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	11/29/2011	ND	432	108	400	0.00		

Sample ID: PT. 5 @ 6" (H102555-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/29/2011	ND	432	108	400	0.00	

Sample ID: PT. 6 @ 6" (H102555-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	11/29/2011	ND	432	108	400	0.00		

Sample ID: PT. 7 @ 6" (H102555-08)

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	11/29/2011	ND	432	108	400	0.00	


Sample ID: EXC OFF PAD N WALL E (H102555-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/29/2011	ND	432	108	400	0.00		

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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: 11/28/2011
Reported: 11/30/2011
Project Name: MC DONALD AC #1 #10
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/28/2011
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: EXC OFF PAD N WALL W (H102555-10)

Chloride, SM4500CI-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/29/2011	ND	432	108	400	0.00	

Sample ID: EXC OFF PAD S WALL E (H102555-11)

Chloride, SM4500CI-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/29/2011	ND	432	108	400	0.00	

Sample ID: EXC OFF PAD S WALL W (H102555-12)

Chloride, SM4500CI-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	11/29/2011	ND	448	112	400	0.00	

Sample ID: EXC OFF PAD E WALL N (H102555-13)

Chloride, SM4500CI-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	11/29/2011	ND	448	112	400	0.00	

Sample ID: EXC OFF PAD E WALL S (H102555-14)

Chloride, SM4500CI-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	11/29/2011	ND	448	112	400	0.00	

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Analytical Results For:

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

Received: 11/28/2011
Reported: 11/30/2011
Project Name: MC DONALD AC #1 #10
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/28/2011
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: EXC OFF PAD W WALL N (H102555-15)

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	11/29/2011	ND	448	112	400	0.00	

Sample ID: EXC OFF PAD W WALL S (H102555-16)

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	11/29/2011	ND	448	112	400	0.00	

Sample ID: EXC OFF PAD S WALL C (H102555-17)

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	11/29/2011	ND	448	112	400	0.00	

Sample ID: EXC OFF PAD 5 PT. E. BOTTOM (H102555-18)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/29/2011	ND	448	112	400	0.00	

Sample ID: EXC OFF PAD 5 PT MID BOTTOM (H102555-19)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/29/2011	ND	448	112	400	0.00	

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Analytical Results For:

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

 Received: 11/28/2011
 Reported: 11/30/2011
 Project Name: MC DONALD AC #1 #10
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 11/28/2011
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: EXC OFF PAD 5 PT W BOTTOM (H102555-20)

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	11/29/2011	ND	448	112	400	0.00		

Sample ID: PAD @ 6" 5 PT BOTTOM (H102555-21)

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	11/29/2011	ND	448	112	400	0.00		

Sample ID: PAD @ 6" N WALL (H102555-22)

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	11/29/2011	ND	448	112	400	0.00		

Sample ID: PAD @ 6" E WALL (H102555-23)

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	11/29/2011	ND	448	112	400	0.00		

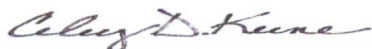
Sample ID: PAD @ 6" W WALL (H102555-24)

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	11/29/2011	ND	448	112	400	0.00		

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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: 11/28/2011
Reported: 11/30/2011
Project Name: MC DONALD AC #1 #10
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/28/2011
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: PAD @ 6" S WALL (H102555-25)**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	11/29/2011	ND	448	112	400	0.00	

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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

BILL TO										ANALYSIS REQUEST													
Company Name: Apache Corp.										P.O. #:													
Project Manager: Natalie Gladden										Company:													
Address:										Attn:													
City:										Address:													
Phone #:										City:													
Project #:										State:													
Project Name:										Phone #:													
Project Location: <i>McDonald St. A/C 1 #10</i>										Fax #:													
Sampler Name: <i>Skowron</i>																							
Lab I.D.	Sample I.D.	(G) RAB OR (C) O.M.P.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	PRESERV	SAMPLING	DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS	
<i>H102558</i>	<i>N. escape N. wall</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>11-16-11</i>	<i>9:00</i>	<i>✓</i>						
<i>2</i>	<i>S. wall</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>11-16-11</i>	<i>9:05</i>	<i>✓</i>						
<i>3</i>	<i>E. wall</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>11-16-11</i>	<i>9:10</i>	<i>✓</i>						
<i>4</i>	<i>W. wall</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>11-16-11</i>	<i>9:15</i>	<i>✓</i>						
<i>5</i>	<i>Spt. Comp</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>11-16-11</i>	<i>9:20</i>	<i>✓</i>						
<i>6</i>	<i>A-36 C. 1"</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>11-22-11</i>	<i>7:25</i>	<i>✓</i>						
<i>7</i>	<i>P. 6. 24"</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>11-22-11</i>	<i>7:30</i>	<i>✓</i>						
<i>8</i>	<i>P. 7. 24"</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>11-22-11</i>	<i>7:35</i>	<i>✓</i>						

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Relinquished By: <i>[Signature]</i>	Date: <i>11-26-11</i>	Received By: <i>[Signature]</i>	Date: <i>11-26-11</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Date: <i>11-26-11</i>	Received By: <i>[Signature]</i>	Date: <i>11-26-11</i>	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
REMARKS:					
email results					
natalie.gladden@apachecorp.com					
Zcorder@rice-ecs.com; Bbaker@rice-ecs.com;					
hconder@rice-ecs.com; Lweinheimer@rice-ecs.com					

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

#26

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

BILL TO				ANALYSIS REQUEST										
Company Name: Apache Corp.				P.O. #:										
Project Manager: Natalie Gladden				Company:										
Address:				Attn:										
City:				Address:										
State:				City:										
Phone #:				State:										
Fax #:				Phone #:										
Project #:				Fax #:										
Project Name:				Zip:										
Project Location:				Project Owner:										
Sampler Name:				Project #:										
FOR LAB USE ONLY				Fax #:										
Lab I.D.	Sample I.D.	# CONTAINERS	(G)RAB OR (C)OMP	MATRIX	PRESERV	SAMPLING	DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
H102555	Excavator off Pad	9	g	GROUNDWATER	OTHER	ACID/BASE	11-28-11	10:00	-	-	-	-	-	-
9	N. wall E.	1	g	SLUDGE	ICE / COOL	OTHER	11-28-11	10:00	-	-	-	-	-	-
10	N. wall W.	1	g	SOIL			11-28-11	10:10	-	-	-	-	-	-
11	S. wall E.	1	g	WASTEWATER			11-28-11	10:15	-	-	-	-	-	-
12	S. wall W.	1	g	SLUDGE			11-28-11	10:20	-	-	-	-	-	-
13	E. wall N.	1	g	OTHER			11-28-11	10:25	-	-	-	-	-	-
14	E. wall S.	1	g	GROUNDWATER			11-28-11	10:30	-	-	-	-	-	-
15	W. wall N.	1	g	SLUDGE			11-28-11	10:35	-	-	-	-	-	-
16	W. wall S.	1	g	OTHER			11-28-11	10:40	-	-	-	-	-	-
17	S. wall E.	1	g	SLUDGE			11-28-11	10:45	-	-	-	-	-	-

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Relinquished By: *[Signature]* Date: 11-28-11 Time: 4:10
Relinquished By: *[Signature]* Date: Time:

Received By: *[Signature]* Date: 11-28-11 Time: 4:10
Received By: *[Signature]* Date: Time:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Sample Condition: Cool ☒ Intact ☒
Cool ☐ Intact ☐ Yes ☒ No ☐ Yes ☐ No ☐

Checked By: *[Signature]*

Phone Result: ☐ Yes ☒ No ☐ Add'l Phone #:
Fax Result: ☐ Yes ☒ No ☐ Add'l Fax #:

REMARKS:
email results
natalie.gladden@apachecorp.com
Zcorder@rice-ecs.com; Bbaker@rice-ecs.com;
hcorder@rice-ecs.com; Lweinheimer@rice-ecs.com

† 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

BILL TO				ANALYSIS REQUEST																
Company Name: Apache Corp.				P.O. #:	Chlorides					TPH 8015 M		BTX		Texas TPH		Complete Cations/Anions		TDS		
Project Manager: Natalie Gladden				Company:																
Address:				Attn:																
City:				State:	Zip:															
Phone #:				Fax #:																
Project #:				Project Owner:																
Project Name:				City:	State:	Zip:														
Project Location: Mubald St. Alc 1 H/O				Phone #:																
Sampler Name:				Fax #:																
Lab I.D.	Sample I.D.	MATRIX	PRESERV	SAMPLING	DATE	TIME														
H102555	Excavation off road	GROUNDWATER	OTHER:	ACID/BASE	ICE/COOL	OTHER:														
18	Spt. 5 Bottom	SOIL			11-28-11	10:40														
19	Spt. Mid Bottom	SLUDGE			11-28-11	10:45														
20	Spt. W. Bottom	WASTEWATER			11-28-11	10:50														
21	Rad. @ 1' sp. Bottom	GROUNDWATER			11-28-11	11:30														
22	" " N. wall	SOIL			11-28-11	11:40														
23	" " E wall	SLUDGE			11-28-11	11:45														
24	" " W wall	WASTEWATER			11-28-11	11:50														
25	Excavation off road Skell	GROUNDWATER			11-28-11	11:55														

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 time, 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 theories or otherwise.

Relinquished By:	Date: 11/28/11	Received By:	Date: 11/28/11
Relinquished By:		Received By:	
Delivered By: (Circle One)		Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:		Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>	
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

email results
natalie.gladden@apachecorp.com
Zcorder@rice-ecs.com; Bbaker@rice-ecs.com;
hconder@rice-ecs.com; Lweinheimer@rice-ecs.com

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

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