

## **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



1RP - 4161

**APACHE CORP** 

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District III
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

Revised October 10, 2003

Form C-141

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

## **Release Notification and Corrective Action**

						OPEKA.	IOK		Initia	al Report	$\boxtimes$	Final Rep
Name of Co	mpany	Apache (	Corp.			Contact	Natalie Glad	den				
Address		ox 1849, Eu	inice, NM	1, 88231		Telephone N	No. (575) 39	90-4180	5			
Facility Nar	ne Mo	Donald AC	1 #10			Facility Typ	e Injection	Well				
Surface Ow	ner Da	sco Cattle C	Company	Mineral C	)wner	State of NN	ſ		Lease N	No. 30-025	-08930	
				LOCA	TIO	N OF DEL	EACE					
Unit Letter	Section	Township	Range	Feet from the		N OF REI	Feet from the	Fact/V	Vest Line	County		
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K	16	22S	36E	1980	FSL		1980	FWL		Lea		
			Lat	itude		Longitue	de					
				NAT	URE	OF REL	EASE					
Type of Rele		e Water				Volume of	Release 400 bbl			Recovered 3		
Source of Re		wback				11/3/11	lour of Occurrence	e	Date and 11/3/11	Hour of Dis	covery	
Was Immedia	ate Notice (		Yes [	No Not Re	equired	If YES, To Geoffrey L						
By Whom?	Natalie G					Date and H						
Was a Water	course Read		Yes 🗵	No		If YES, Vo	lume Impacting t	he Wate	ercourse.			
If a Watercon	irse was Im	pacted, Descr	ibe Fully.	k								
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D "I C	CD 11	1.0	1. 1 4	T 1 *								
		em and Reme ais well, the w		back and BOP di	d not ho	ld. Fluid was	recovered.					
Describe Are	a Affected	and Cleanup	Action Tak	ren.*								
				e wellhead, 2 area	as of pas	ture land, and	a length of lease	road to	the south.	Impacted so	oils wer	e removed i
				tative soil sample						ercial labora	tory for	chloride
				th clean caliche as is true and comp						quant to NM	OCD r	lec and
				nd/or file certain r								
public health	or the envi	ronment. The	acceptano	ce of a C-141 repo	ort by the	e NMOCD m	arked as "Final Re	eport" d	oes not reli	ieve the open	rator of	liability
should their o	perations h	ave failed to	adequately	investigate and re	emediate	e contaminati	on that pose a thre	eat to gr	ound water	r, surface wa	iter, hur	man health
				tance of a C-141	report d	oes not						
iederai, state,	or local lav	ws and/or regu	nations.									
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Signature:	OU	Delle	ju	adder			API					
Printed Name	. Natali	e Gladden				Approv						
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Title: EH	&S Environ	mental Tech				Approval Dat	e: 2/8/1	0 1	Expiration	Date:		
E-mail Addre	ess: Nata	ilie.gladden@	apachecor	p.com		Conditions of	Approval:			Attached		
Date:			Phone:	(575) 390-4186							_	
	tional Shee	ets If Necess								10	141	,
										P	40	pl





## **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,

Swee Baden

Bruce Baker Head Foreman

**RECS** 

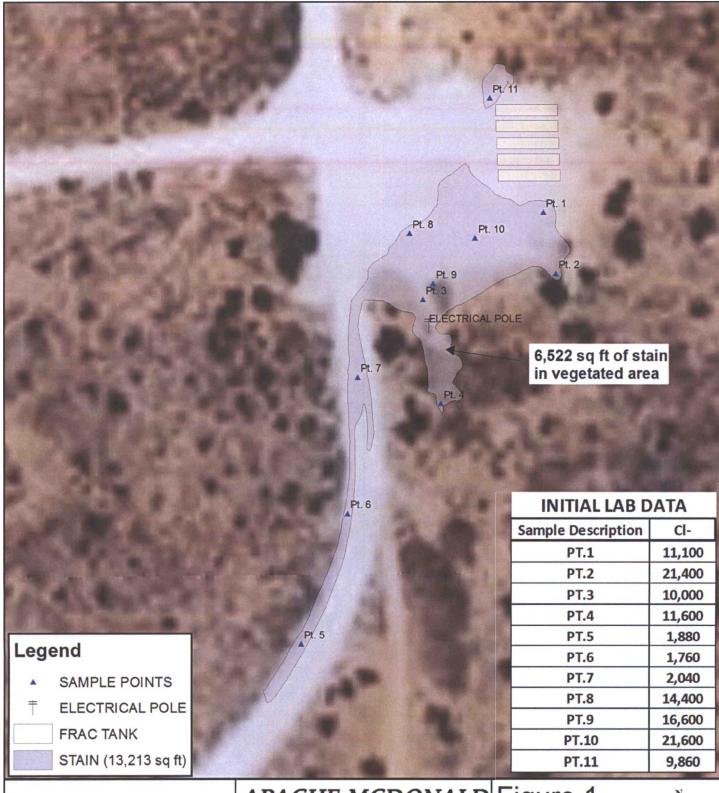
(575) 631-5157

## 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 Figure 1 **STATE AC 1 #10**

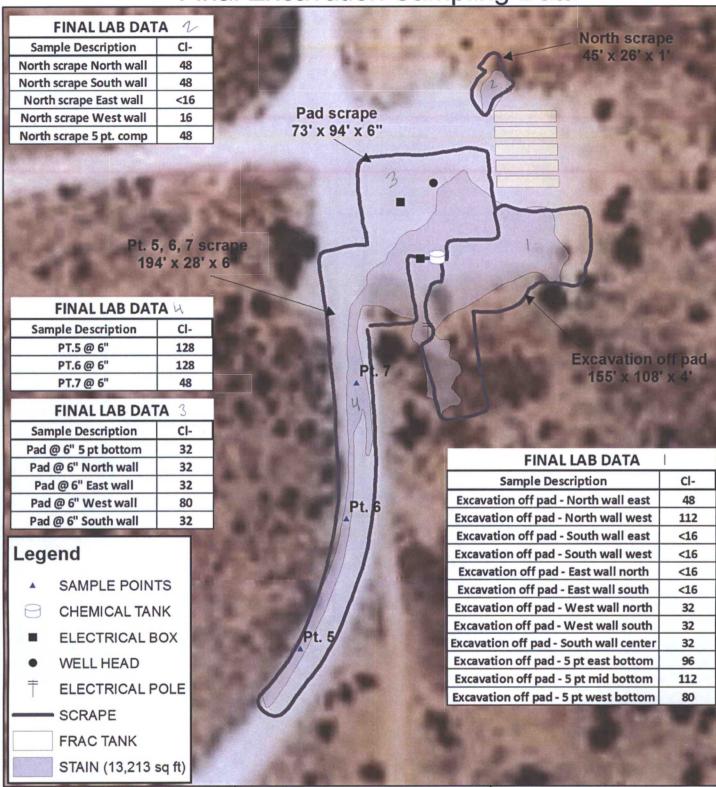
Date: 11/4/11

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



80 20 Feet

GPS date: 11/4/11 RP Drawing date: 11/4/11 Drafted by: L. Weinheimer Final Excavation Sampling Data





## APACHE MCDONALD STATE AC 1 #10

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

## Figure 2



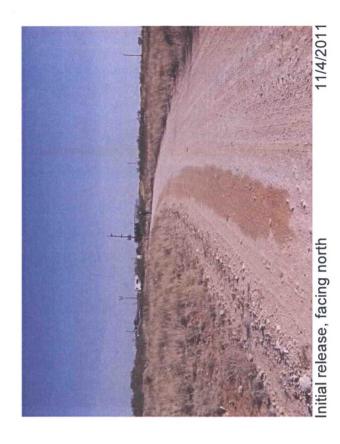
0 20 40 80 Feet

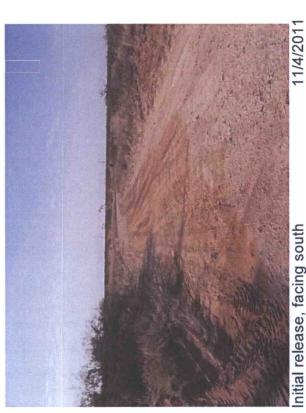
GPS date: 11/28/11 JK Drawing date: 11/29/11 Drafted by: L. Weinheimer

## McDonald AC 1 #10 Unit Letter K, Section 16, T22S R36E



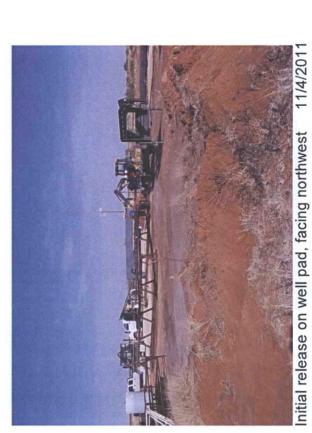


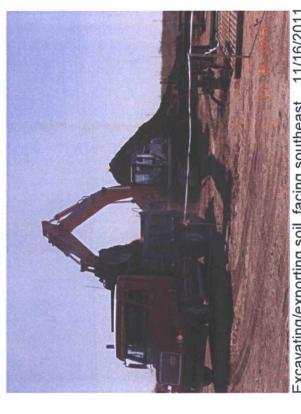




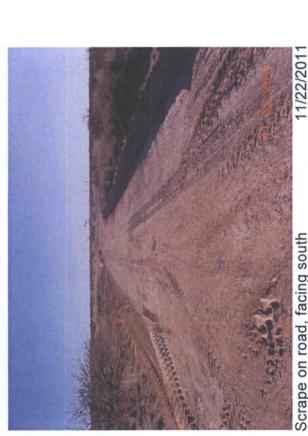
Initial release, facing south







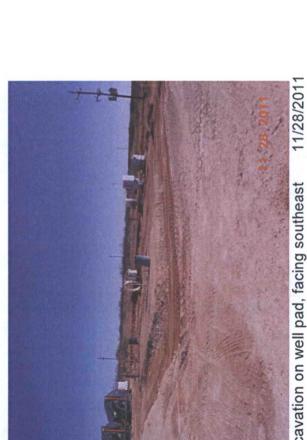
Excavating/exporting soil, facing southeast 11/16/2011



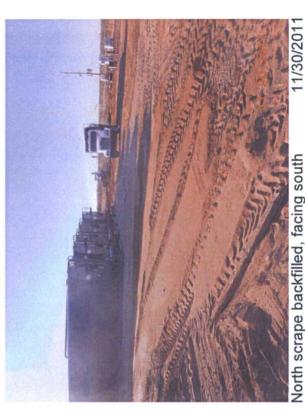
Scrape on road, facing south



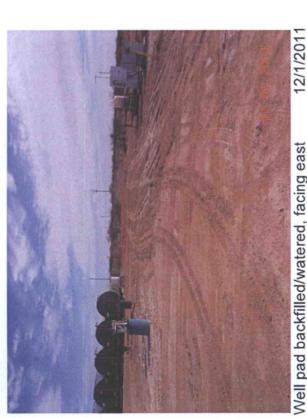
Area south of pad excavation, facing northeast 11/23/2011



Excavation on well pad, facing southeast



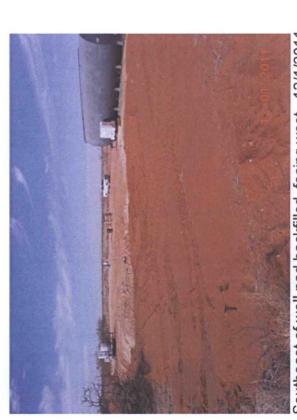
North scrape backfilled, facing south



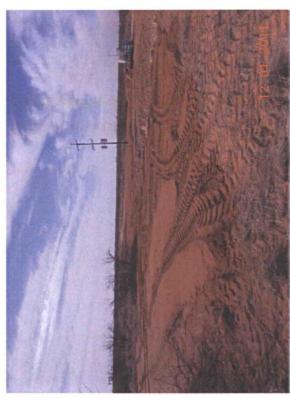
Well pad backfilled/watered, facing east



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



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: Project Number: MC DONALD AC #1 #10

Project Location:

NONE GIVEN

NOT GIVEN

Result

11100

Result

21400

10000

Sampling Date:

11/04/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: PT. 1 (H102398-01)

Analyte

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AP

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 11/07/2011

Analyzed

11/07/2011

Method Blank ND

BS 448

BS

448

% Recovery 112

True Value QC 400

RPD

Sample ID: PT. 2 (H102398-02)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

ND

ND

% Recovery

112

112

True Value QC

400

3.51

Qualifier

Qualifier

Analyte

Sample ID: PT. 3 (H102398-03) Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Result Analyte

Reporting Limit

16.0

Analyzed

Method Blank

BS % Recovery 448

True Value QC

400

RPD

**RPD** 

3.51

Qualifier

3.51

Sample ID: PT. 4 (H102398-04)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte Result 11600 Reporting Limit 16.0

Analyzed 11/07/2011

11/07/2011

Method Blank ND

BS 448

112

% Recovery

True Value QC 400

**RPD** 3.51 Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keena



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, SM4500Cl-B

Chloride

mg/kg

Analyzed By: AP

Analyte

Result

1880

Result

1760

Reporting Limit 16.0

Reporting Limit

16.0

Reporting Limit

Analyzed 11/07/2011 Method Blank ND

BS 448 % Recovery 112

True Value QC

RPD

Sample ID: PT. 6 (H102398-06)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

448

% Recovery

112

400

3.51

Oualifier

Analyte

Analyte

Analyzed

11/07/2011

Analyzed

Method Blank

ND

Method Blank

ND

True Value QC

400

RPD Qualifier

Sample ID: PT. 7 (H102398-07)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

BS

Chloride

Chloride

Result 2040

% Recovery

True Value QC

RPD

Qualifier

16.0 11/07/2011

448

112

400

3.51

3.51

Sample ID: PT. 8 (H102398-08)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP Analyzed Method Blank

Qualifier

Chloride

Chloride

Result 14400

Result

16600

Reporting Limit 16.0

Reporting Limit

16.0

11/07/2011

Analyzed

11/07/2011

ND

448

% Recovery

True Value QC 400

True Value OC

400

**RPD** 

Sample ID: PT. 9 (H102398-09)

Analyte

Analyte

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Method Blank

ND

BS

448

112

% Recovery

112

3.51

**RPD** 

3.51

**Oualifier** 

## Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keine



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

Received:

11/04/2011

Reported:

11/08/2011

Project Name: Project Number: MC DONALD AC #1 #10 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, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result

Reporting Limit

Method Blank

% Recovery

True Value QC

**RPD** 

Qualifier

Chloride

Chloride

21600

Result

9860

16.0

Reporting Limit

16.0

11/07/2011

Analyzed

ND

ND

448

112

400

400

3.51

Sample ID: PT. 11 (H102398-11)

Chloride, SM4500CI-B Analyte

mg/kg

Analyzed By: AP

11/07/2011

Analyzed

Method Blank

BS 448 % Recovery 112

RPD True Value QC

3.51

Qualifier

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 7

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

A ARDINAL LABORATORIES

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

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

Company Name: Apache Corp.	Apache Corp.							B	BILL TO	0					A	ANALYSIS		REQUEST	ST		
Project Manager:	Project Manager: Natalie Gladden						P.O. #:					-		_	_	_	_	_			
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hconder@rice-ecs.com; Lweinheimer@rice-ecs.com Zconder@rice-ecs.com; Bbaker@rice-ecs.com; natalie.gladden@apachecorp.com ☐ No Add'I Phone # □ Yes email results Phone Result: Fax Result: REMARKS: 1 BM CHECKED BY: (Initials) Sample Condition Cool Intact Received By 2:50 Time: D. pshr. Date: 4-11 "hell Sampler - UPS - Bus - Other: Delivered By: (Circle One) porta Sefingwished By

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

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Apache Corp.	Project Manager: Natalie Gladden					loruld A	gentre	Sampler Name: Roberto farma		Sample I.D.		
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Company Name:	Project Manag	Address:	City:	Phone #:	Project #:	Project Name:	Project Location: Suntre	Sampler Name	FOR LAB USE ONLY	Lab I.D. H10,3998		

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Phone Result:     Yes     No   Add'l Phone #:	Fax Result:   ☐ Yes ☐ No Add'l Fax #:	REMARKS:	email results	I natalie.oladden@apachecorp.com	Zoondor Grico com: Dholor Grico con com:	LCOINEI WIICE-ECS.COIII, DUAREI WIICE-ECS.COIII,	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com	
Date; , Received By: / / / /	1	Time: Similarian County	Date: , , Regelved By.	ション インマン	が120と2つつつ ひそうるが	Sample Condition CHECKED BY:	Cool Intact (Initials)	S.C. COND NO NO
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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

Reported: 11/30/2011

Received:

Project Name: MC DONALD AC #1 #10

Project Number: NONE GIVEN

Project Location: NOT GIVEN Sampling Date:

Sampling Type: Soil

Sampling Condition:

Sample Received By:

\*\* (See Notes)

Jodi Henson

11/18/2011

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

Chloride, SM4500CI-B Analyzed By: AP

11/28/2011

Analyte Reporting Limit Qualifier Result Analyzed Method Blank BS True Value QC RPD % Recovery Chloride 48.0 16.0 11/29/2011 ND 432 108 400 0.00

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

Chloride, SM4500CI-B Analyzed By: AP Result Reporting Limit Analyzed Method Blank % Recovery True Value QC RPD Qualifier Analyte Chloride 48.0 11/29/2011 ND 432 108 16.0 400 0.00

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

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

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

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

## Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



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

Received: Reported: 11/28/2011

Project Name: Project Number:

Analyte

Analyte

Analyte

Project Location:

11/30/2011

MC DONALD AC #1 #10

NONE GIVEN NOT GIVEN

Sampling Date:

11/18/2011 Sampling Type: Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

Jodi Henson

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

Chloride, SM4500Cl-B

mg/kg

Result

48.0

Analyzed By: AP

Reporting Limit Analyzed 11/29/2011 16.0

Reporting Limit

Reporting Limit

16.0

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Reporting Limit

16.0

Method Blank ND

BS 432

108

% Recovery

True Value QC 400

RPD

Qualifier

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

Chloride, SM4500CI-B

ma/ka

Analyzed By: AP

Method Blank

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Result 128

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128

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16.0 11/29/2011 ND

BS 432

108

True Value QC 400

RPD Qualifier 0.00

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

Chloride, SM4500CI-B

Analyzed By: AP

Analyzed

11/29/2011

Analyzed

Method Blank ND

BS 432 % Recovery

True Value QC

400

RPD

Qualifier

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

mg/kg

Analyzed By: AP

0.00

Chloride, SM4500CI-B

Analyte

mg/kg

Analyzed 11/29/2011

Method Blank ND

BS 432 % Recovery

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True Value QC 400

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Qualifier

Chloride

Chloride

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte Result

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

Analyzed 11/29/2011 Method Blank ND

BS 432 % Recovery

True Value QC

400

RPD 0.00 Qualifier

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

Received: Reported: 11/28/2011

11/30/2011

Project Name: Project Number: MC DONALD AC #1 #10 NONE GIVEN

Project Location:

Analyte

Analyte

Analyte

Analyte

Analyte

NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: \*\* (See Notes)

Soil

Jodi Henson

11/28/2011

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

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AP

Result Reporting Limit 112 16.0

Analyzed 11/29/2011 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD 0.00

Qualifier

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

Chloride, SM4500CI-B

Result <16.0

Result

<16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: AP

Analyzed

11/29/2011

Method Blank

ND

ND

BS

432

BS

448

% Recovery 108

True Value QC

400

RPD

Qualifier 0.00

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

Chloride, SM4500CI-B

Analyzed By: HM

Analyzed 11/29/2011

Method Blank

% Recovery

True Value QC

400

RPD 0.00

Qualifier

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Method Blank

BS

112

Qualifier

Chloride

Chloride

Result <16.0

Result

<16.0

16.0

Reporting Limit

Analyzed 11/29/2011

ND

448

% Recovery 112

True Value QC 400

RPD 0.00

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Reporting Limit Analyzed 16.0 11/29/2011

Method Blank ND

BS 448 % Recovery 112

True Value QC 400

RPD

Qualifier 0.00

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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: Project Number: MC DONALD AC #1 #10

Project Location:

NONE GIVEN

Sampling Date:

Carralian Taran

11/28/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

Qualifier

Jodi Henson

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD
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, SM4500CI-B	mg	/kg	Analyze	d 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, SM4500CI-B	mg	/kg	Analyze	d 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, SM4500CI-B	mg	/kg	Analyze	d 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, SM4500CI-B	mg	/kg	Analyze	d 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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Received: Reported: 11/28/2011

11/30/2011 MC DONALD AC #1 #10

Project Name: Project Number: Project Location:

NONE GIVEN

NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: \*\* (See Notes)

Soil

11/28/2011

Jodi Henson

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyte Result 80.0 Reporting Limit 16.0

Reporting Limit

Reporting Limit

16.0

Analyzed 11/29/2011

ND

Method Blank

BS 448 % Recovery 112

True Value QC 400

RPD 0.00 Qualifier

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

Chloride, SM4500CI-B Analyte Result

Analyzed By: HM

Analyzed

Method Blank

BS

% Recovery

True Value QC

Chloride

Chloride

Chloride

Chloride

Chloride

32.0

11/29/2011 16.0

ND

448

112

400

RPD Qualifier 0.00

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

Chloride, SM4500CI-B

Analyte

Result

32.0

Analyzed By: HM

BS

% Recovery

True Value QC

RPD

Qualifier

Chloride, SM4500CI-B

mg/kg

ND

Method Blank

448

112

400

0.00

Analyzed By: HM

Analyzed

11/29/2011

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

Analyte

Result

32.0

Result

80.0

Reporting Limit 16.0

16.0

Analyzed 11/29/2011 Method Blank ND

BS 448 % Recovery 112

True Value QC

RPD

Qualifier

mg/kg

11/29/2011

Analyzed By: HM

400

0.00

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

Chloride, SM4500Cl-B

Reporting Limit Analyzed

Method Blank ND

BS 448 % Recovery 112

True Value QC 400

RPD 0.00

Qualifier

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

Received: Reported: 11/28/2011

Project Name: Project Number: 11/30/2011 MC DONALD AC #1 #10

NONE GIVEN Project Location: NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: \*\* (See Notes)

11/28/2011

Soil

Jodi Henson

Sample ID: PAD @ 6" S WALL (H102555-25)

Chloride, SM4500CI-B

Chloride

Analyte

mg/kg

Reporting Limit

16.0

Result

32.0

Analyzed By: HM

ND

Analyzed Method Blank

11/29/2011

BS 448 % Recovery 112

True Value QC 400

RPD Qualifier

0.00

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 11

## Page 9 of 11

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	e: Apache Corp.		18	B/LL TO				AN	ANALYSIS		REQUEST		٦
Project Manage	Project Manager: Natalie Gladden		P.O. #:										
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City:	State:	Zip:	Attn:			-			10			 	
Phone #:	Fax #:	And the second section of the second section of the second section second section sect	Address:					-	111			 	
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PLEASE NOTE: Liability and Domages, Cardinal's liability and client's accelarive remedy for any claim artising whether based in contract or lort, shall be implied to the amount paid by the clears for the ambyes. All claims including those for negligence and any other cause whatsoever shall be deemed waked unless made in writing and received by Cardinal within 30 days after completion of the applicable services. In the overal half of surfamiles be like for includent of consequent day certify the subdishinger an affiliate or successors assisting out of or related to the performance of services hermide by Cardinal's leaking.

ult:     Yes     No	Fax Result:	REMARKS:	email results	natalie.gladden@apachecorp.com	СНЕСКЕВ ВУ:	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com
Received By:	1. 26.11	TIME: 10 COC 21	Received By:		Sample Condition	A 10 Cool Infact Nes Pres
Relinquis/jed/By:   Date:   Date:   Received By:   Phone Res		Time	Relinquished By: Date:	Time:	Delivered By: (Circle One)	Sampler - UPS - Bus - Other:

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

#26

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79503 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	e: Apache Corp.		BII	BILL TO	NO POLICE DE LA COMPONION DE L	NYON, MACCORDA	BATTERCANA	ANA	ANALYSIS	REQUEST	EST	PATRICIA DA CONTRACTOR	STATES AND STATES
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FOR LAB USE ONLY		MATRIX	PRESERV	SAMPLING	CI								
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Phone Result:	email results	natalie.gladden@apachecorp.com	Zconder@rice-ecs.com; Bbaker@rice-ecs.com;	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com	
Received By:	Received By:		Sample Condition CHECKED BY:	Type (Types (Types)	000
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† Cardinal cannot accept verbal changes. Please fax written changes to 5p5-393-2476

#26

# - ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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FOR LAB USE ONLY		-	NAME OF TAXABLE PARTY.		M	MATRIX	×	Q.	PRESERV	ERV.	SAR	SAMPLING		10	10	]	(9	Э								
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Fax Result: 17 Yes 12 No Add'l Fax #:
FEMARKS: email results CHECKED BY: Sample Condition
Cool Intact
Ver II Yes Regeived By: 1821 Times: 16 Time: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relingifished By: Relinquished By

ተ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-9476

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