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
Ct IV
S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

HOBBS OCD

Form C-141 Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 APR 27 2011

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

Release Notification and Corrective Action

Nama of C						OPERA	IUK		✓ Initi	al Report		al Rep
		pache Corpo				Contact Na	talie Gladden				7-	
		9 Eunice, NI	M 88231				No. 575-390-41				1	
Facility Na	me WBDI	U #139				Facility Typ	e Production v	vell				6240
Surface Ov	ner Deck	Estate		Mineral (Owner	OCD			Lease 1	No. 30-025	39989	3/19/
		North Control		LOC	ATIO	N OF RE	FASE		•			
Unit Letter	Section	Township	Range	Feet from the	-	South Line	Feet from the	East/	West Line	County		
	100											
1	17	21S	37E	550'	FSL		1650	FWL		Lea	-	
			La	titude		Longitud	le					
				NAT	TURE	OF REL	EASE					
ype of Rele	ease Brine V	Water				Volume of	Release 30		Volume I	Recovered 0		
Source of Re	elease Gene	erator failure				Date and F 02/27/11 2	Hour of Occurrence	ce		Hour of Disc	covery	
Was Immedi	ate Notice (Given?				If YES, To			02/27/11	24/am		1/3
			Yes 🗵	No Not R	equired							
	Natalie Glad						Hour 02/28/11 81					
Was a Water	course Read		Yes 🗵	1 No		If YES, Vo	olume Impacting	the Wat	ercourse.			
		pacted, Descr										
While circul	ating between		ne product	n Taken.* ion cement job, t			ator died. While			working on t		or, the
While circul orine water in najority of t	ating between an over the he brine was	en stages on the shaker due to ter was squees and Cleanup A	ne product the shaker gied into the	n Taken.* ion cement job, to r not having any posterior he cell and jetted	power. The back int	The roll off bi o the closed le	n filled with water			working on t	he generate	or, the
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HOBBS OCD

WBDU #139

APR 27 2011

RECEIVED

Lea County
Unit N, S17, T21S, R37E
550' FSL and 1650' FWL
API # 30-025-39989
GWD Approx 71' bgs
Release Date 02/27/11

Prepared by: Natalie Gladden

Apache Corporation

APR 27 2011

Dear Geoffrey,

RECEIVED

Attached you will find a copy of the Original C141, Final C141, initial and final analyticals taken from this site.

With this information that is provided, Apache Corporation respectfully requests your review and approval of the Closure Document for the brine water release that occurred when the well was drilled on the WBDU #139.

If you have any questions or concerns, please feel free to contact me at anytime.

Sincerely,

Natalie Gladden

EH&S Environmental Tech

Permain Eunice and Notree's District

Walle Gladden

The purpose of this report is to document the clean up activities and present supporting analytical data to the NMOCD, requesting closure of the referenced brine water release incident in accordance with the Guidelines for Remediation of Leaks, Spills and Releases.

On February 27th 2011, during the drilling process approximately 30bbls of brine water was released onto the lined location. While circulating between stages on the production cement job the rigs generator died. While the Capstar employee's were working on the generator the brine water ran over the shaker; due to not having any power. The roll-off bin filled with water and spilled over onto the lined location. The standing fluid was squeegied into the cellar and jetted back into the closed loop system, therefore no fluid was taken to disposal.

The contaminated soil above the liner was excavated to a depth between 1' to 2' in some areas, the soil was hauled to Sundance Services where a total of 720yds of contaminated soil was hauled to Sundance Services and 628yds of caliche purchased from Deck Estate's pit was used to backfill ontop of the liner. Trenches were dug to find the size and placement of the liner. Before excavation began initial samples were taken of the surface then soil was excavated ontop of the liner then at time final samples were taken to ensure the all contamination ontop of the liner was excavated.

Based on the analytical results of the confirmation soil samples collected from the excavation of which only one was higher than the 250-ppm threshold, but this sample is above the liner (ID H100405-05); all other samples are below 250-ppm. Consequently, no further action is recommended or planned for this site at this time and on behalf of Apache Corporation we respectfully request that the NMOCD grant this closure for the WBDU #139 release.



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

Received:

03/02/2011

Reported:

03/03/2011

Project Name:

Project Location:

WBDU #139

Project Number:

NONE GIVEN NOT GIVEN

Sampling Date:

02/28/2011

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: E SCRAPE 5 PT BTM COMP @1' (H100405-01)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte

Result

Reporting Limit

Analyzed

Method Blank ND

416

True Value QC

RPD

Qualifier

Chloride

96.0

16.0

Reporting Limit

03/03/2011

104

% Recovery

400

3.77

Sample ID: E SCRAPE S WALL @ 1' (H100405-02)

Chloride, SM4500Cl-B

Analyte

mg/kg

Analyzed By: HM Analyzed Method Blank

BS

% Recovery

RPD

Chloride

Result 48.0

16.0 03/03/2011 ND

432

108

True Value QC 400

Qualifier

Sample ID: E SCRAPE N WALL @ 1' (H100405-03)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte

Result

16.0

Result

112

Reporting Limit

Reporting Limit

16.0

Analyzed

Method Blank

BS

% Recovery

True Value QC

RPD

3.77

Qualifier

Qualifier

Chloride

03/03/2011 16.0

ND

432

108

Chloride

400

3.77

Sample ID: E SCRAPE E WALL @ 1' (H100405-04)

Chloride, SM4500Cl-B

Analyte

Analyzed By: HM

Analyzed

03/03/2011

Method Blank

ND

BS

432

% Recovery

108

True Value QC 400

RPD

3.77

Cardinal Laboratories

*=Accredited Analyte

claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Labo

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 7



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

Received:

03/02/2011

Reported:

03/03/2011

Project Name: Project Number: WBDU #139 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/28/2011

Sampling Type:

Soil

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

Jodi Henson

Sample ID: E SCRAPE W WALL @ 1' (H100405-05)

Chlorida	SM4500Cl-B
Chioride.	. 3M43UULI"D

mg/kg

Analyzed By: HM

Analyte

Chloride

Chloride

Chloride

Chloride

Result

416

Result

192

128

64.0

Reporting Limit 16.0

Reporting Limit

16.0

16.0

Analyzed 03/03/2011

Analyzed

03/03/2011

Method Blank ND

BS 432 % Recovery 108

108

108

True Value QC

400

RPD

3.77

3.77

3.77

Qualifier

Sample ID: SW EXC E WALL (H100405-06)

Chloride, SM4500Cl-B

Analyte

Analyzed By: HM

Method Blank

ND

BS % Recovery True Value QC

400

RPD

Qualifier

Sample ID: SW EXC N WALL (H100405-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte

Result Reporting Limit

Analyzed 03/03/2011 Method Blank ND

BS 432

432

True Value QC % Recovery

RPD

Qualifier

Sample ID: SW EXC S WALL (H100405-08)

Chloride, SM4500Cl-B

Analyte

mg/kg

Analyzed By: HM

Result

Reporting Limit 16.0

Analyzed 03/03/2011 Method Blank ND

ND

BS 432 % Recovery 108

True Value OC 400

400

RPD 3.77

Qualifier

Sample ID: SW EXC W WALL (H100405-09)

Chloride, SM4500Cl-B

Analyzed By: HM

Analyte Result Reporting Limit Chloride 112 16.0

Analyzed 03/03/2011

Method Blank

BS 432 % Recovery 108

True Value QC 400

RPD

3.77

Qualifier

Cardinal Laboratories

*=Accredited Analyte

any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or succ claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced exce ors arising out of or related to the perform

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 7



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

Received:

03/02/2011

Reported: Project Name:

03/03/2011 WBDU #139

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

Sampling Type:

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

Jodi Henson

02/28/2011

Sample ID: N SCRAPE OFF PAD S WALL (H100405-10)

Chloride, SM4500Cl-B

mg/kg

80.0

64.0

96.0

Analyzed By: HM

Analyte

Analyte

Result Reporting Limit Analyzed

03/03/2011

Method Blank ND

RS 432 % Recovery 108

True Value QC 400

RPD

Qualifier

Sample ID: N SCRAPE OFF PAD E WALL (H100405-11)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

% Recovery

108

3.77

Chloride

Chloride

Chloride

Result

Reporting Limit 16.0

16.0

16.0

Analyzed 03/03/2011 Method Blank

ND

BS 432 True Value OC

400

RPD 3.77 Oualifier

Sample ID: N SCRAPE OFF PAD W WALL (H100405-12)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte Result

Reporting Limit Analyzed

Method Blank

BS

432

% Recovery 108

True Value QC 400

RPD

3.77

Qualifier

Sample ID: N SCRAPE OFF PAD 5 PT BTM COMP (H100405-13)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte Result Reporting Limit Chloride 32.0 16.0

Analyzed 03/03/2011

03/03/2011

Method Blank ND

BS

432

% Recovery True Value QC 108 400

RPD 3.77 Qualifier

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Kreene



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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Celey D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ARDINAL LABORATORIES

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

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

400

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ARDINAL LABORATORIES

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| Received By: Yes Pes ampley-UPS - Bus - Other: Delivered By (Chicle One) elinquished-By 3

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-476

\$ to 505-393-247



March 03, 2011

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WBDU #139

Enclosed are the results of analyses for samples received by the laboratory on 03/02/11 9:09.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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



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

Received:

02/28/2011

Reported:

03/03/2011

Project Name: Project Number:

Project Location:

WBDU #139 NONE GIVEN

NOT GIVEN

Sampling Date:

02/28/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: 5' NORTH (H100395-01)

BTEX 8021B	mg	/kg	Analyze	d By: CMS	Ir	ritia			1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2011	ND	2.21	110	2.00	7.91	
Toluene*	0.335	0.050	03/02/2011	ND	2.24	112	2.00	4.95	
Ethylbenzene*	0.411	0.050	03/02/2011	ND	2.27	113	2.00	3.00	
Total Xylenes*	2.34	0.150	03/02/2011	ND	6.68	111	6.00	2.68	

Surrogate: 4-Bromofluorobenzene (PIL

93.6 %

70-130

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	29600	16.0	03/01/2011	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	177	50.0	03/01/2011	ND	198	98.8	200	3.49	
DRO >C10-C28	6220	50.0	03/01/2011	ND	202	101	200	3.04	

Surrogate: 1-Chlorooctane 125 % 70-130
Surrogate: 1-Chlorooctadecane 100 % 70-130

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Usability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence an any other cause whatsoever shall be deemed walved urless made in writing and received by Cardinal within thirty (20) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages including, without limitation, business interruptions, loss of use, or loss of profits incurred by Client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sucl claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



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

Received:

02/28/2011

Reported:

RTEY SO21B

03/03/2011

Project Name: Project Number: WBDU #139 NONE GIVEN

ma/ka

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type: Sample Received By:

02/28/2011 Soil

Sampling Condition:

Cool & Intact

Jodi Henson

Sample ID: 5' SOUTH (H100395-02)

BTEX 8021B	mg	kg	Analyze	ed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2011	ND	2.21	110	2.00	7.91	
Toluene*	0.555	0.050	03/02/2011	ND	2.24	112	2.00	4.95	
Ethylbenzene*	0.194	0.050	03/02/2011	ND	2.27	113	2.00	3.00	
Total Xylenes*	1.12	0.150	03/02/2011	ND	6.68	111	6.00	2.68	
Surrogate: 4-Bromofluorobenzene (PIL	95.4	% 70-130	7. de	1 P - 1					
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	38800	16.0	03/01/2011	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	127	50.0	03/01/2011	ND	198	98.8	200	3.49	
DRO >C10-C28	5340	50.0	03/01/2011	ND	202	101	200	3.04	
Surrogate: 1-Chlorooctane	120 %	6 70-130						61 20	
Surrogate: 1-Chlorooctadecane	108 9	6 70-130							

Analyzed By: CMS

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Usability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



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

Received:

02/28/2011

Reported: Project Name: 03/03/2011 WBDU #139

Project Number: Project Location:

NONE GIVEN

Sampling Date:

(

Sampling Type:

02/28/2011 Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: 5' EAST (H100395-03)

BTEX 8021B

ma/ko

Inalyzed By: CM

BIEX 8021B	mg/	kg	Analyze	d by: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2011	ND	2.21	110	2.00	7.91	
Toluene*	0.059	0.050	03/02/2011	ND	2.24	112	2.00	4.95	
Ethylbenzene*	<0.050	0.050	03/02/2011	ND	2.27	113	2.00	3.00	
Total Xylenes*	<0.150	0.150	03/02/2011	ND	6.68	111	6.00	2.68	

Surrogate: 4-Bromofluorobenzene (PIL

94.0 %

70-130

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM	*				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11000	16.0	03/01/2011	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2011	ND	198	98.8	200	3.49	
DRO >C10-C28	141	10.0	03/01/2011	ND	202	101	200	3.04	

Surrogate: 1-Chlorooctane

115 %

70-130

Surrogate: 1-Chlorooctadecane

112 %

70-130

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



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

Received:

02/28/2011

Reported:

BTEX 8021B

03/03/2011

Project Name:

WBDU #139 NONE GIVEN

mg/kg

90.8 %

70-130

Project Number: Project Location:

NOT GIVEN

Sampling Date:

02/28/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: 5' WEST (H100395-04)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2011	ND	2.21	110	2.00	7.91	
Toluene*	0.905	0.050	03/02/2011	ND	2.24	112	2.00	4.95	
Ethylbenzene*	0.201	0.050	03/02/2011	ND	2.27	113	2.00	3.00	
Total Xylenes*	1.29	0.150	03/02/2011	ND	6.68	111	6.00	2.68	
Surrogate: 4-Bromofluorobenzene (PIL	97.4	% 70-130							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	03/01/2011	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AB					1 2 4
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	170	50.0	03/01/2011	ND	198	98.8	200	3.49	
DRO >C10-C28	13900	50.0	03/01/2011	ND	202	101	200	3.04	
Surrogate: 1-Chlorooctane	104 %	6 70-130					i i		

Analyzed By: CMS

Sample ID: 106' WEST / 13' SOUTH (H100395-05)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM				J. Mari	19
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	104000	16.0	03/01/2011	ND	432	108	400	0.00	

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=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:

02/28/2011

Reported:

03/03/2011

Project Name: Project Number: WBDU #139 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/28/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: 92' WEST / 20' NORTH (H100395-06)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte

Result

Reporting Limit

Analyzed

Method Blank

BS

108

% Recovery

True Value QC

Oualifier

Chloride

38000

16.0

Reporting Limit

03/01/2011

Analyzed

03/01/2011

ND

432

400

RPD

0.00

Sample ID: 65' WEST / 45' NORTH (H100395-07)

Chloride, SM4500Cl-B Analyte

mg/kg

Analyzed By: HM

Method Blank

BS

% Recovery

True Value OC RPD

Chloride

Result 22000

16.0

432

108

400

Oualifier

Sample ID: 55' NORTH (H100395-08)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte

Result

Reporting Limit

Analyzed

Method Blank

% Recovery

True Value QC

RPD

Chloride

55400

16.0

ND

Qualifier

Chloride

Chloride

17600

14200

03/01/2011

432

108

400

0.00

0.00

Sample ID: 60' EAST / 15' SOUTH (H100395-09)

Chloride, SM4500Cl-B

Analyte

mg/kg

Analyzed By: HM

Result

Reporting Limit 16.0

Analyzed 03/01/2011 Method Blank

ND

BS

432

% Recovery

108

True Value QC

400

RPD 0.00

0.00

Qualifier

Sample ID: 65' NORTH / 27' WEST (H100395-10)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte Result

Reporting Limit 16.0

Analyzed 03/01/2011 Method Blank ND

BS 432 % Recovery 108

True Value QC

400

RPD Qualifier

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 8



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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This reproduced except in full with written approval of Cardinal laboratories.

Celey D. Keene

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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City:	State: NM	Zip:						Attn:								_		3110						
Phone #:	Fax#:							Address	0.50								-:-	ווור						
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any of the above stated reasons or otherwise.

Phone Result: II Yes
Fax Result: II Yes
Fax Result: II Yes

C No Add Phone #:

zconder@rice-ecs.com; Lweinheimer@rice-ecs.com Hconder@riceswd.com: Bbaker@rice-ecs.com Natalie. Gladden@usa.apachecorp.com email results CHECKED BY: Sample Condition Con Intact 4.5% Fampler JPS - Bus - Other: Delivered By: (Circle One) Relinquished By

† Cardinal cannot accept verbal changes. Please fax written changes to 505.393.4476





March 03, 2011

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: WBDU #139

Enclosed are the results of analyses for samples received by the laboratory on 02/28/11 16:41.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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