

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

State of New Mexico  
Energy Minerals and Natural Resources

HOBBS OCD

Form C-141  
Revised August 8, 2011

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

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

JUL 23 2014

RECEIVED

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ XX Final Report

Name of Company: Conoco Phillips Company	Contact: Jesse A. Sosa	
Address: 3300 N. A St. Building 6 #247 Midland TX 79705	Telephone No. 505-391-3126	
Facility Name: State E Well #9	Facility Type: Oil	
Surface Owner: New Mexico	Mineral Owner: BLM	API No. 3002508920

LOCATION OF RELEASE

Unit Letter E	Section 16	Township 22S	Range 36E	Feet from the 1980	North/South Line North	Feet from the 660	East/West Line West	County Lea
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Latitude 32 23.616 Longitude 103 16.603

NATURE OF RELEASE

Type of Release Brine Water	Volume of Release: 50 bbl	Volume Recovered: 35 bbl
Source of Release: Well Head	Date and Hour of Occurrence: 11/4/11	Date and Hour of Discovery 11/4/11
Was Immediate Notice Given? Required XX <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not	If YES, To Whom? NMOCD	
By Whom? Sean Robinson	Date and Hour 11/4/11 4:30 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> XX No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.*  N/A		
Describe Cause of Problem and Remedial Action Taken.*  Casing failure - Lease was shut in and flow ceased.		
Describe Area Affected and Cleanup Action Taken.* Affected area was 30' X 180' all on caliche pad and road. Site was closed as per NMOCD approved work plan ( see attached). Approximately 720 cy of impacted soils were disposed at NMOCD approved site. Site was backfilled with clean granular soil.		
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>Sean Robinson</u>		OIL CONSERVATION DIVISION	
Printed Name: <u>Sean Robinson</u>		Approved by Environmental Specialist:	
Title: <u>Operations Supervisor</u>	Approval Date: <u>7-23-14</u>	Expiration Date: _____	
E-mail Address: <u>Sean.T.Robinson@cop.com</u>	Conditions of Approval: <u>Site Supply provided.</u>		Attached <input type="checkbox"/>
Date: <u>7/2/14</u>	Phone: <u>505-790-8673</u>	<u>100-7-193194</u>	

\* Attach Additional Sheets If Necessary

Area delimited & remediated

JUL 23 2014

07-217817  
1701920451793  
P70

HOBBS OCD

JUL 23 2014

RECEIVED

## State E #9

(Located in Section-16 Township 22S Range 36E)

# Site Closure Report

Presented to:

**ConocoPhillips**  
**HC 60, Box 66**  
**Lovington, NM 88260**

Prepared By:



Diamondback Disposal Services, Inc.  
PO Box 2491  
Hobbs, NM 88241

## **Introduction**

This report presents the results of remediation activities at the State E #9. The site is located in Section 16, Township 22S, Range 36E in Lea County, New Mexico. Impacted areas are owned by State of New Mexico. Diamondback Disposal Services, Inc. (Diamondback) was contacted November 4, 2012 by Mr. Justin Wright, of Conoco Phillips Inc, to perform the remediation activities at the spill site. The remediation was performed in general accordance with the New Mexico Oil Conservation Division (NMOCD) rules and regulations. The following sections present: an overview, remediation activities, and recommendations of all remediation work performed on site.

## **Overview**

The spill site is located mostly on state land consisting of good grass, prairie, or range lands with a little ponding on COPC location. Approximately 50 bbls of produced water were lost, with approximately 35 bbls being recovered from the use of a vacuum truck. Approximately 5,400 square feet of location was impacted. The depth to groundwater in the area is estimated to be greater than 150' below ground surface (BGS) based on the information, reviewed at the State Engineers web site. There were no water courses affected, no water wells within 1,000 feet, and no surface water bodies within 1,000 feet of the site, giving this site a ranking criteria score of zero. The potential contaminants of concern are mid to high-level concentrations of petroleum-based hydrocarbons and chlorides that were lost due to a leak in the well casing.

## **Remediation Activities**

On December 17, 2012 Diamondback began excavating impacted areas defined by ground staining. The excavation is approximately 2 feet in depth where a caliche layer was encountered. Approximately 720 cy of impacted soils were excavated and transported to Sundance Services' NMOCD approved facility. Diamondback then contacted Mr. Geoffrey Leking with NMOCD for approval to sample excavated area. Composite samples of the walls and floor were collected (see attached map), packaged and sent to Cardinal Laboratory (with COC) for analysis of TPH, BTEX, and Chlorides (see analytical).

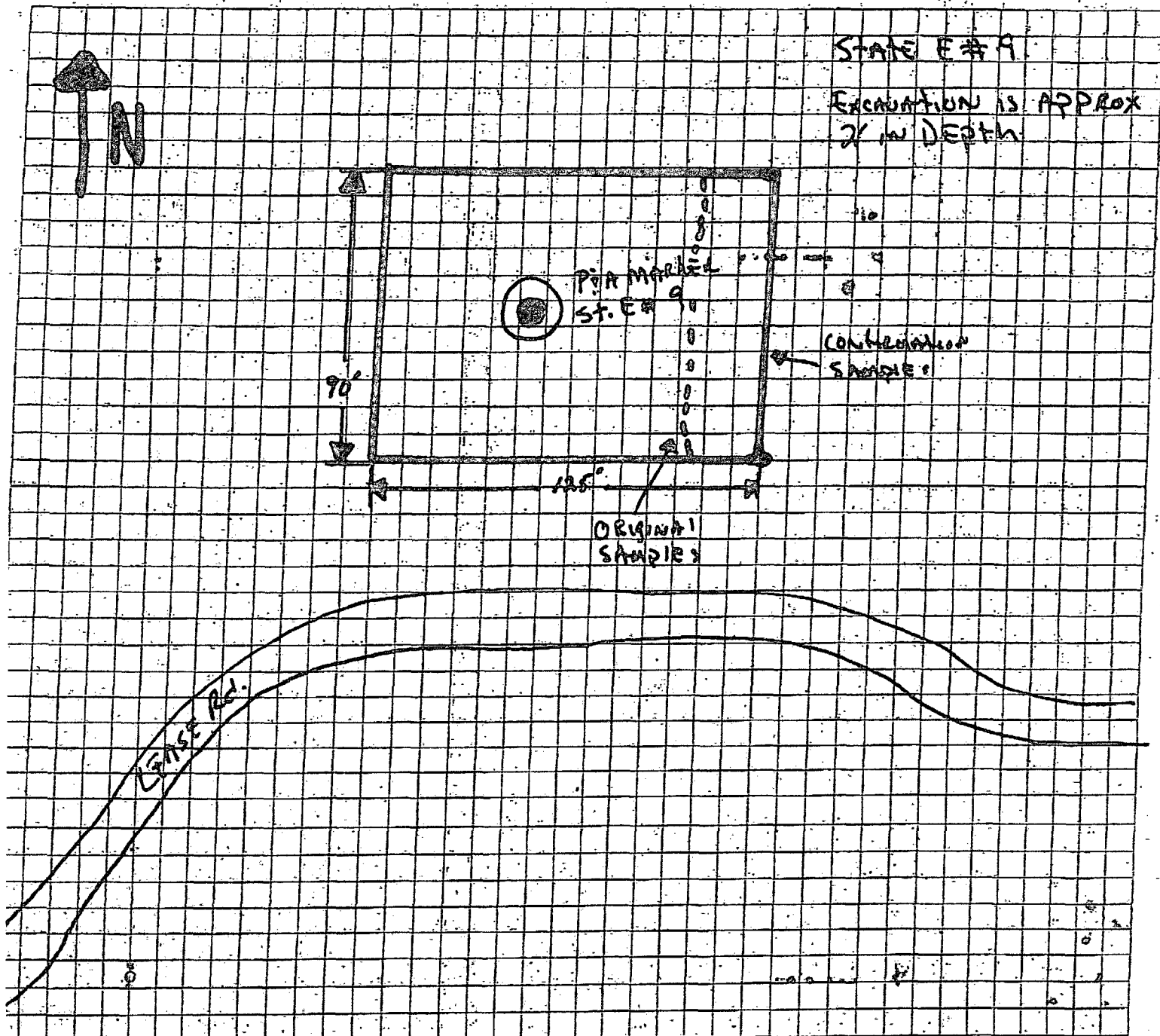
## **Recommendations**

Upon reviewing the analytical provided by the third party independent lab, it is our belief the contaminants shown to be left are well below acceptable limits for sites with ranking criteria of zero. Diamondback feels all guidelines for remediation of leaks and spills have been met. This being said we propose to backfill the excavated area with clean granular soil, contour, crown, and seed area to promote vegetation growth. Diamondback feels this method will significantly reduce migration of impacted material through the vadose zone therefore leaving the site in a manner that will pose very little if any future environmental threat.

# EXCAVATION PLAN

- |                     |                |                    |                   |
|---------------------|----------------|--------------------|-------------------|
| ✕ Railroad crossing | =○= Power Line | == Bridge          | --C-- Cable Line  |
| ○ Power Pole        | ~FL~ Flow Line | ≡ Water            | ↗ Dig Zone        |
| ⊙ Wellhead          | Fence Line     | ...W... Water line | ↑ North Direction |

Search Zone Perimeter - White	Temporary Survey Markings - Pink
Electrical - Red	Potable Water - Blue
Drainage/Sewers - Green	SWD - Light Blue
Communication - Orange	



February 01, 2013

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: STATE E #9

Enclosed are the results of analyses for samples received by the laboratory on 01/31/13 15:00.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

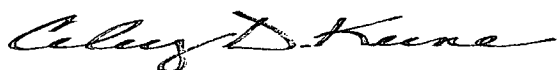
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:**

 DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

 Received: 01/31/2013  
 Reported: 02/01/2013  
 Project Name: STATE E #9  
 Project Number: NONE GIVEN  
 Project Location: EUNCIE, NM

 Sampling Date: 01/31/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: EAST WALL (H300289-01)**

BTEX 8021B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2013	ND	2.10	105	2.00	13.0	
Toluene*	<0.050	0.050	02/01/2013	ND	2.09	105	2.00	12.6	
Ethylbenzene*	<0.050	0.050	02/01/2013	ND	2.06	103	2.00	13.0	
Total Xylenes*	<0.150	0.150	02/01/2013	ND	6.34	106	6.00	12.4	
Total BTEX	<0.300	0.300	02/01/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	02/01/2013	ND	432	108	400	3.77	
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	02/01/2013	ND	198	99.1	200	10.8	
DRO >C10-C28	15.4	10.0	02/01/2013	ND	168	83.8	200	14.4	

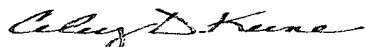
Surrogate: 1-Chlorooctane 91.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 01/31/2013  
Reported: 02/01/2013  
Project Name: STATE E #9  
Project Number: NONE GIVEN  
Project Location: EUNCIE, NM

Sampling Date: 01/31/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SOUTH WALL (H300289-02)**

BTEX 8021B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2013	ND	2.10	105	2.00	13.0	
Toluene*	<0.050	0.050	02/01/2013	ND	2.09	105	2.00	12.6	
Ethylbenzene*	<0.050	0.050	02/01/2013	ND	2.06	103	2.00	13.0	
Total Xylenes*	<0.150	0.150	02/01/2013	ND	6.34	106	6.00	12.4	
Total BTEX	<0.300	0.300	02/01/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 89.4-126

Chloride, SM4500Cl-B mg/kg			Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/01/2013	ND	432	108	400	3.77	
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	01/31/2013	ND	198	99.1	200	10.8	
DRO >C10-C28	24.2	10.0	01/31/2013	ND	168	83.8	200	14.4	

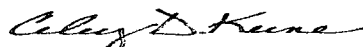
Surrogate: 1-Chlorooctane 80.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.0 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 DIAMONDBACK DISPOSAL SERVICE INC.  
 JUSTIN ROBERTS  
 P. O. BOX 2491  
 HOBBS NM, 88241  
 Fax To: (575) 392-9376

 Received: 01/31/2013  
 Reported: 02/01/2013  
 Project Name: STATE E #9  
 Project Number: NONE GIVEN  
 Project Location: EUNCIE, NM

 Sampling Date: 01/31/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SE FLOOR (H300289-03)**

BTEX 8021B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2013	ND	2.10	105	2.00	13.0	
Toluene*	<0.050	0.050	02/01/2013	ND	2.09	105	2.00	12.6	
Ethylbenzene*	<0.050	0.050	02/01/2013	ND	2.06	103	2.00	13.0	
Total Xylenes*	<0.150	0.150	02/01/2013	ND	6.34	106	6.00	12.4	
Total BTEX	<0.300	0.300	02/01/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/01/2013	ND	432	108	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	01/31/2013	ND	198	99.1	200	10.8	
DRO >C10-C28	<10.0	10.0	01/31/2013	ND	168	83.8	200	14.4	

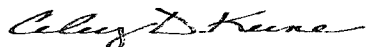
Surrogate: 1-Chlorooctane 71.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.4 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

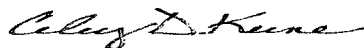
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received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

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\* = 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  
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Diamondback Disposal Serv. Inc.</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																									
Project Manager: <u>Justin Roberts</u>				P.O. #:																													
Address: <u>P.O. Box 2491</u>				Company:																													
City: <u>Hobbs</u> State: <u>N.M.</u> Zip: <u>88241</u>				Attn:																													
Phone #: <u>575-392-9986</u> Fax #: <u>575-392-9374</u>				Address:																													
Project #: <u>N/A</u> Project Owner: <u>COPC</u>				City:																													
Project Name: <u>State E #9</u>				State: Zip:																													
Project Location: <u>EUNICE</u>				Phone #:																													
Sampler Name: <u>Justin Roberts</u>				Fax #:																													
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																									
Lab I.D.	Sample I.D.	(GRAB OR C) OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME																			
H300789																																	
1	EAST WALL	( )				X				X			1-31-13	10:18	X	X	X																
2	SOUTH WALL	( )				X				X			1-31-13	10:29	X	X	X																
3	SE FLOOR	( )				X				X			1-31-13	10:36	X	X	X																

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: <u>Justin L</u>	Date: <u>1-31-13</u> Time: <u>3:00</u>	Received By: <u>Jodi Benson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:			REMARKS:  <u>RUSH!!</u>	
Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		CHECKED BY: <u>[Signature]</u>		

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

#26



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

January 16, 2013

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: STATE E #9

Enclosed are the results of analyses for samples received by the laboratory on 01/10/13 12:50.

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](http://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,

A handwritten signature in cursive script, reading "Coley D. Keene".

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 01/10/2013  
Reported: 01/16/2013  
Project Name: STATE E #9  
Project Number: NONE GIVEN  
Project Location: EUNCIE, NM

Sampling Date: 01/10/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: NORTH WALL (H300078-01)**

BTEX 8021B		mg/kg	Analyzed By: AP				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2013	ND	1.83	91.5	2.00	18.4	
Toluene*	<0.050	0.050	01/16/2013	ND	1.97	98.3	2.00	18.7	
Ethylbenzene*	<0.050	0.050	01/16/2013	ND	1.89	94.3	2.00	19.1	
Total Xylenes*	<0.150	0.150	01/16/2013	ND	5.72	95.3	6.00	18.6	
Total BTEX	<0.300	0.300	01/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 128 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/15/2013	ND	432	108	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	01/15/2013	ND	204	102	200	8.39	
DRO >C10-C28	<10.0	10.0	01/15/2013	ND	220	110	200	11.0	

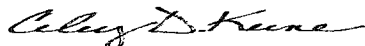
Surrogate: 1-Chlorooctane 82.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.7 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

DIAMONDBACK DISPOSAL SERVICE INC.  
JUSTIN ROBERTS  
P. O. BOX 2491  
HOBBS NM, 88241  
Fax To: (575) 392-9376

Received: 01/10/2013  
Reported: 01/16/2013  
Project Name: STATE E #9  
Project Number: NONE GIVEN  
Project Location: EUNCIE, NM

Sampling Date: 01/10/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: WEST WALL (H300078-02)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2013	ND	1.83	91.5	2.00	18.4	
Toluene*	<0.050	0.050	01/16/2013	ND	1.97	98.3	2.00	18.7	
Ethylbenzene*	<0.050	0.050	01/16/2013	ND	1.89	94.3	2.00	19.1	
Total Xylenes*	<0.150	0.150	01/16/2013	ND	5.72	95.3	6.00	18.6	
Total BTEX	<0.300	0.300	01/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PII) 125 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/15/2013	ND	432	108	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	01/15/2013	ND	204	102	200	8.39	
DRO >C10-C28	<10.0	10.0	01/15/2013	ND	220	110	200	11.0	

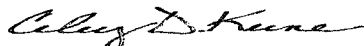
Surrogate: 1-Chlorooctane 85.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.0 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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Received: 01/10/2013  
Reported: 01/16/2013  
Project Name: STATE E #9  
Project Number: NONE GIVEN  
Project Location: EUNCIE, NM

Sampling Date: 01/10/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: EAST WALL (H300078-03)**

BTEX 8021B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2013	ND	1.83	91.5	2.00	18.4	
Toluene*	<0.050	0.050	01/16/2013	ND	1.97	98.3	2.00	18.7	
Ethylbenzene*	<0.050	0.050	01/16/2013	ND	1.89	94.3	2.00	19.1	
Total Xylenes*	<0.150	0.150	01/16/2013	ND	5.72	95.3	6.00	18.6	
Total BTEX	<0.300	0.300	01/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 124 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	01/15/2013	ND	432	108	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	01/15/2013	ND	204	102	200	8.39	
DRO >C10-C28	<10.0	10.0	01/15/2013	ND	220	110	200	11.0	

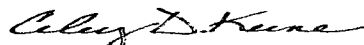
Surrogate: 1-Chlorooctane 84.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.1 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Received: 01/10/2013  
Reported: 01/16/2013  
Project Name: STATE E #9  
Project Number: NONE GIVEN  
Project Location: EUNCIE, NM

Sampling Date: 01/10/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SOUTH WALL (H300078-04)**
**BTEX 8021B**
**mg/kg**
**Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2013	ND	1.83	91.5	2.00	18.4	
Toluene*	<0.050	0.050	01/16/2013	ND	1.97	98.3	2.00	18.7	
Ethylbenzene*	<0.050	0.050	01/16/2013	ND	1.89	94.3	2.00	19.1	
Total Xylenes*	<0.150	0.150	01/16/2013	ND	5.72	95.3	6.00	18.6	
Total BTEX	<0.300	0.300	01/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 124 % 89.4-126

**Chloride, SM4500Cl-B**
**mg/kg**
**Analyzed By: DW**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	01/15/2013	ND	432	108	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	01/15/2013	ND	204	102	200	8.39	
DRO >C10-C28	<10.0	10.0	01/15/2013	ND	220	110	200	11.0	

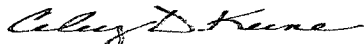
Surrogate: 1-Chlorooctane 80.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.3 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Received: 01/10/2013  
 Reported: 01/16/2013  
 Project Name: STATE E #9  
 Project Number: NONE GIVEN  
 Project Location: EUNCIE, NM

Sampling Date: 01/10/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: FLOOR 1.5 BGS (H300078-05)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2013	ND	1.83	91.5	2.00	18.4	
Toluene*	<0.050	0.050	01/16/2013	ND	1.97	98.3	2.00	18.7	
Ethylbenzene*	<0.050	0.050	01/16/2013	ND	1.89	94.3	2.00	19.1	
Total Xylenes*	<0.150	0.150	01/16/2013	ND	5.72	95.3	6.00	18.6	
Total BTEX	<0.300	0.300	01/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 125 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/16/2013	ND	432	108	400	3.64	

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	01/15/2013	ND	204	102	200	8.39	
DRO >C10-C28	<10.0	10.0	01/15/2013	ND	220	110	200	11.0	

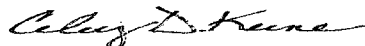
Surrogate: 1-Chlorooctane 81.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.7 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

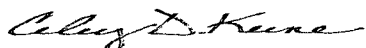
- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature 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

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Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2478.