SITE REMEDIATION AND CLOSURE REPORT

8808 JV-P Pardue D-2 Salt Water Disposal (SWD)
Unit "D", Section 11, Township 23 South and Range 28 East
3.0 miles northeast of the city of Loving to New Mexico
Eddy County, New Mexico

Prepared for:

New Mexico Oil Conservation Division
1301 W. Grand Avenue
Artesia, New Mexico 88210



Prepared by: **BTA Oil Producers** 104 S. Pecos Midland, Texas 79701

April 2011

Joseph A. Baca, P.G Environmental Coordinator RECEIVED

APR 1 8 2011

NMOCD ARTESIA

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1.0 INTRODUCTION

BTA Oil Producers (BTA) is pleased to submit this Site Remediation and Closure Report (SRCR) for the BTA Pardue D-2 SWD (D-2) site remediation of produced fluids impacted soil. The D-2 is located in Eddy County approximately 3.0 miles northeast of the town site of Loving, New Mexico, Eddy County, New Mexico. The GPS coordinates are N 32° 19.480' and W 104° 3.877'. A Site Location Map is provided as FIGURE 1.

On Thursday, January 13, 2011 BTA dispatched equipment to address a release at the Pardue D-2 SWD. It was found that an unscheduled release of produced fluid occurred at the site. The volume of the release and the source of the release were unknown; however the limits of the release were delineated and ultimately remediated. A completed initial C-141 was submitted to the NMOCD on December 2010. A Final Report copy of the C-141 is included with this report in the Appendices as Appendix A.

1.1 Purpose of Report

The purpose of this report is to document remediation activities and present supporting analytical data to the NMOCD requesting remediation of the referenced produced water release accordance with the applicable NMOCD cleanup guidelines for produced water releases.

2.0 SUMMARY OF FIELD ACTIVITIES

2.1 Impacted Soil Removal

After a meeting with a NMOCD representative at the site, BTA, mobilized equipment to the site on the morning of Thursday, January 13, 2011. A backhoe and operator, and one (1) laborer were utilized to collect surface soil samples, submit them to an analytical laboratory and excavate impacted soil. Impacted soil was excavated and hauled to an approved disposal facility.

Visual and olfactory methods were used to delineate the impact to the site. Excavated impacted soil from the release was removed and shipped to Lea Land, LLC Disposal Facility. This material included only impacted soil from the site excavation, which measured approximately 26-feet long by approximately 22-feet wide by approximately 4-feet deep. A soil volume of approximately 84 yds³, that included impacted soil was removed from the site and transported to an approved disposal site. Approximately 88 yds³ of clean soil and caliche were trucked into the site and used to backfill the excavation.

2.2 Soil Sampling – Excavated Area

Laboratory submitted samples were placed in a new sterile glass container, equipped with a Teflon-lined lid furnished by the laboratory. The samples were labeled, placed on ice, chilled to a temperature of approximately 4°C and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis of DRO (Mod. 8015B), GRO (S 8015B), BTEX (8021 B) and Chlorides (SM 4500-CI B). Appropriate chain-of-custody documentation and shipping protocols were followed.

On January 13, 2011 eight (8) soil samples were collected from the surface and at 2-feet below ground surface (bgs) of the excavation. The samples were identified as SP1 @ Surface, SP1 @ 2', SP2 @ Surface, SP2 @ 2', SP3 @ Surface, SP3 @ 2', SP4 @ Surface, SP4 @ 2'. There were also two (2) soil samples collected approximately 200-feet south of the excavation identified as Background @ Surface and Background @ 2' (see Figure 2). All samples collected were submitted to a laboratory for DRO, GRO, BTEX and Chlorides analysis (see Table 1).

On February 8, 2011 five (5) soil samples were collected from 3-feet below ground surface (bgs) of the excavation. The samples were identified as SP1 @ 3', SP2 @ 3', SP3 @ 3', SP4 @ 3', and SP5 @ 3'

(see Figure 2). All samples collected were submitted to a laboratory for TPH, BTEX and Chlorides analysis.

On March 3, 2011 five (5) soil samples were collected from the excavation floor at approximately 3.5-feet below ground surface (bgs) of the excavation. The samples were identified as #1 NW Corner, #2 Middle, #3 SW Corner, #4 SE Corner, and #5 NE Corner (see Figure 2). All samples collected were submitted to a laboratory for DRO, GRO, BTEX and Chlorides analysis (see Table 1).

On March 21, 2011 five (5) soil samples were collected from the excavation floor at approximately 4-feet below ground surface (bgs) of the excavation. The samples were identified as NW Corner, NE Corner, Middle, SW Corner, and SE Corner (see Figure 2). All samples collected were submitted to a laboratory for DRO, GRO, BTEX and Chlorides analysis (see Table 1).

2.3 Analytical Results

On January 20, 2011 results were received for the soil samples collected on January 1, 2011. It was found that DRO, GRO, BTEX concentrations in the soil samples identified as SP1 @ Surface, SP1 @ 2', SP2 @ Surface, SP2 @ 2', SP3 @ Surface, SP3 @ 2', SP4 @ Surface, SP4 @ 2' were found to be below regulatory limits. The Chlorides analysis indicated that the samples identified as SP1 @ Surface, SP1 @ 2', SP2 @ Surface, SP2 @ 2', SP3 @ Surface, SP3 @ 2', SP4 @ Surface, SP4 @ 2' were found above regulatory limits (see Table 1).

On February 14, 2011 results were received for the soil samples collected on February 8, 2011 and it was found that DRO, GRO, BTEX concentrations in the soil samples identified as SP1 @ 3', SP2 @ 3', SP3 @ 3', SP4 @ 3', and SP5 @ 3' were found to be below regulatory limits. The Chlorides analysis indicated that the samples identified as SP1 @ 3', SP2 @ 3', SP3 @ 3', SP4 @ 3', and SP5 @ 3' were found above regulatory limits (see Table 1).

On March 9, 2011 results were received for the soil samples collected on March 3, 2011 and it was found that DRO, GRO, BTEX concentrations in the soil samples identified as #1 NW Corner, #2 Middle, #3 SW Corner, #4 SE Corner, and #5 NE Corner were found to be below regulatory limits. The Chlorides analysis indicated that the samples identified as #1 NW Corner, #2 Middle, #3 SW Corner, #4 SE Corner, and #5 NE Corner were found slightly elevated above regulatory limits (see Table 1).

On March 23, 2011 results were received for the soil samples collected on March 21, 2011 and it was found that DRO, GRO, BTEX concentrations in the soil samples identified as #1 NW Corner, #2 Middle, #3 SW Corner, #4 SE Corner, and #5 NE Corner were found to be below regulatory limits. The Chlorides analysis indicated that the samples identified as Middle, SW Corner, and SE Corner were found to be slightly above Background level of 336 mg/Kg (see Table 1).

2.4 SITE RESTORATION

Based on the confirmation soil samples collected from the site and analytical results of those samples and the written approval from the New Mexico Oil Conservation Division in Artesia, New Mexico, the site will be deemed clean, backfilled and the site will be restored to its original condition.

3.0 SUMMARY AND REQUEST FOR CLOSURE

Based on the laboratory analysis of soil samples collected from the site, impacted soil was removed, properly disposed at an approved disposal facility. The site was remediated to background limits applicable regulatory clean up levels. Upon approval by the NMOCD to close site clean soil from a

nearby source was used to backfill the excavation and close the project. Consequently, after backfill of the excavation no further action is recommended or planned for the site at this time. BTA requests that the NMOCD grant closure to the Pardue D-2 SWD release of produced fluids of March 29, 2006.

4.0 LIMITATIONS

BTA has prepared this Site Closure Report to the best of its ability. No other warranty, expressed or implied, is made or intended. BTA has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. BTA has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. BTA has prepared this report in a professional manner, using a degree of skill and care. BTA also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared by BTA. The information contained in this report including all exhibits and attachments may not be used by any other party without the express written consent of BTA.

5.0 DISTRIBUTION

5.0 DISTRIBUTION

Site Remediation and Closure Report

BTA Oil Producers, LLC Pardue D-2 SWD Battery Eddy County, New Mexico

Copies 1-2

New Mexico Oil Conservation Division

1301 W. Grand Avenue Artesia, New Mexico 88210

Copy 3

BTA Central File

COPY #	#
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ATTACHMENTS

FIGURES

Figure 1

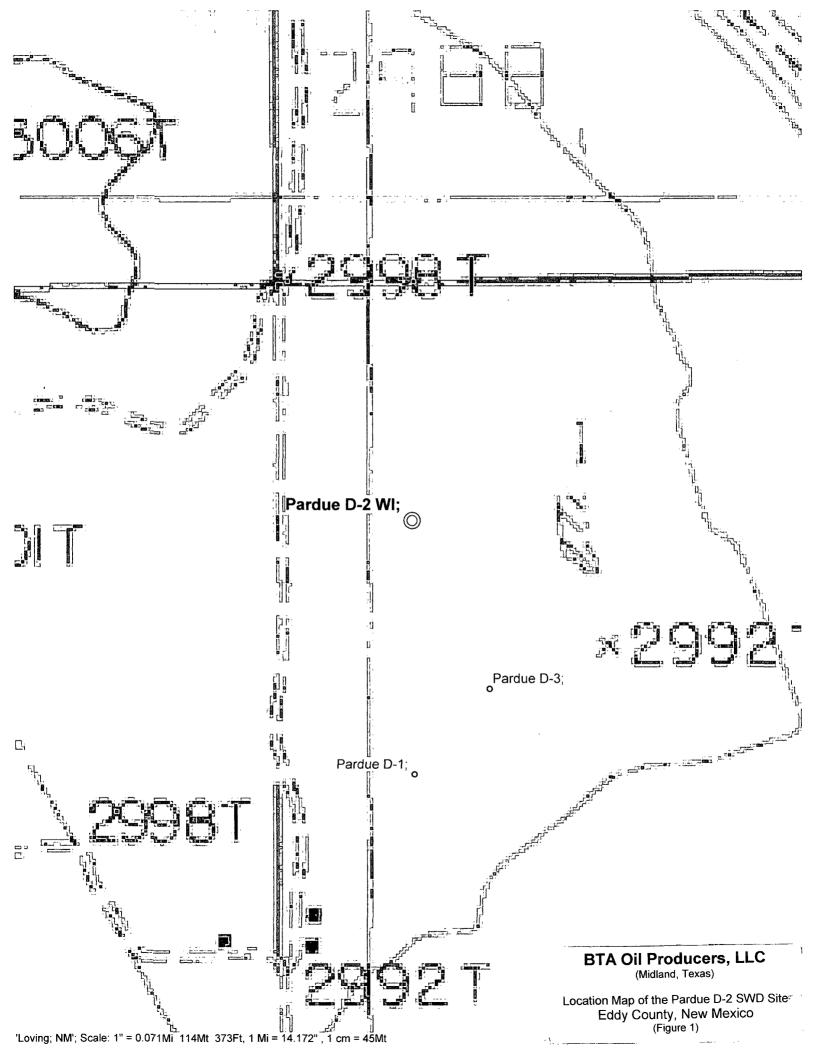
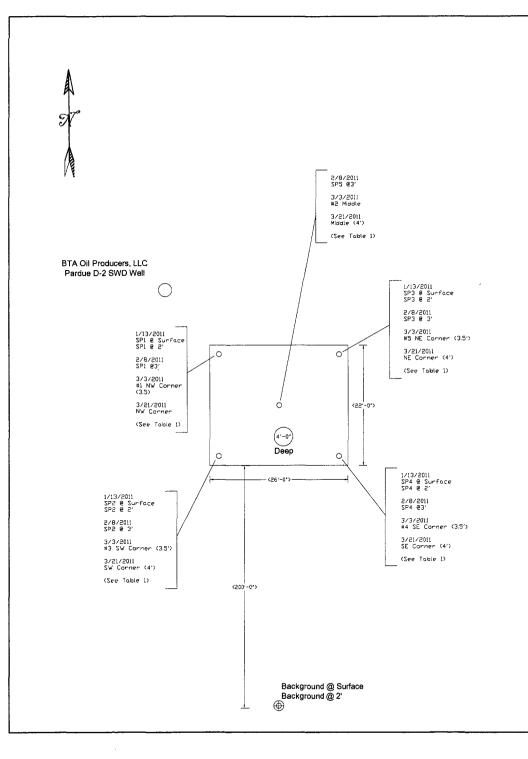
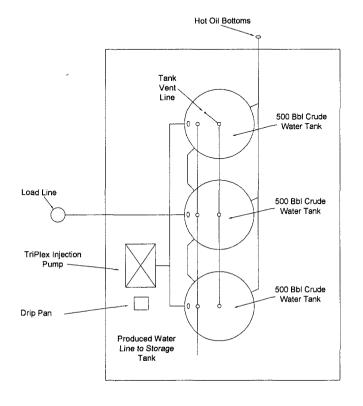


Figure 2





BTA

Revision

0 04/15/2011

BTA Oil Producers

BTA Oil Producers JV-P 8808, Pardue D-2 SWD Site (Figure 2)

Unit Letter "D", Section 11, T23S, R28E Eddy County, New Mexico

Scale: None Drawn by: jab Date: 04.14,2011 Checked by: jab

TABLES

Table I

BTA - Pardue D-2 SWD Site - Eddy County, New Mexico Floor Soil TPH Analytical Results Floor Soil BTEX Analysis Floor Chloride Analysis

					Analytical Methods							
			801	5			8021B		4500			
SAMPLE	SAMPLE	TOTAL	DRO	GRO	BENZENE	TOLUENE	ETHYLBENZEN	XYLENE	Chlorid			
DATE	IDENT IFICATION	TPH	mg/Kg	mg/Kg	mg/Kg	mg/Kg	E mg/Kg	mg/Kg	mg/Kg			
	Excavation							· · · · · · · · · · · · · · · · · · ·				
1/13/2011	SP1 @ Surface	10500.0	10500.0	< 50.0		< 0.100			3,680.			
1/13/2011	SP1 @ 2'	55.7	55.7	<10.0		< 0.100	< 0.100		1,960.			
1/13/2011	SP2 @ Surface	111.0	111.0	<10.0		< 0.100	< 0.100		13,000.			
1/13/2011	SP2 @ 2'	<10.0	<10.0	<10.0		< 0.100		< 0.300	2,000.			
1/13/2011	SP3 @ Surface	<10.0	<10.0	<10.0		< 0.100	< 0.100	< 0.300	352.			
1/13/2011	SP3 @ 2'	<10.0	<10.0	<10.0		< 0.100	< 0.100	< 0.300	320.			
1/13/2011	SP4 @ Surface	<10.0	<10.0	<10.0	< 0.100	< 0.100	< 0.100		1,220.			
1/13/2011	SP4 @ 2'	<10.0	<10.0	<10.0	< 0.100	< 0.100	<0.100	< 0.300	304.			
1/13/2011	Background @ Surface								336.			
1/13/2011	Background @ 2'								80.			
2/8/2011	SP1 @ 3'	<100.0			0.16	< 0.050	< 0.050		192.			
2/8/2011	SP2 @ 3'_	<100.0			0.06	0.05	< 0.050					
2/8/2011	SP3 @ 3'	<100.0			< 0.050	0.05	< 0.050	< 0.150	4,480.			
2/8/2011	SP4 @ 3'	<100.0			< 0.050	0.05	< 0.050					
2/8/2011	SP5 @ 3'	<100.0			< 0.050	0.05	< 0.050	< 0.150	688.			
3/3/2011	#1 NW Corner	<10.0	<10.0	<10.0	0.050	0.050	0.050	< 0.150	288.			
3/3/2011	#2 Middle	<10.0	<10.0	<10.0	0.050	0.050	0.050	< 0.150	208.			
3/3/2011	#3 SW Corner	<10.0	13.7	<10.0	0.050	0.050	0.050	0.161	1,040.			
3/3/2011	#4 SE Corner	<10.0	<10.0	<10.0	< 0.050	0.05	< 0.050	< 0.150	288.			
3/3/2011	#5 NE Corner	<10.0	69.1	<10.0	< 0.000	0.00	< 0.000	< 0.000	1,800.			
3/21/2011	NW Corner	<10.0	<10.0	<10.0	< 0.050	0.05	< 0.050	< 0.150	336.			
3/21/2011	NE Corner	<10.0	<10.0	<10.0	< 0.050	0.05	< 0.050		336.			
3/21/2011	Middle	<10.0	<10.0	<10.0		0.054	< 0.050		400.			
3/21/2011	SW Corner	<10.0	<10.0	<10.0		0.05	< 0.050	< 0.150	448.			
3/21/2011	SE Corner .	<10.0	<10.0	<10.0	< 0.050	0.05	< 0.050	< 0.150	368.			
							, <u> </u>					

APPENDICES

Appendix A

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

Submit 2 Copies to appropriate District Office in accordance

Attached

with Rule 116 on back side of form

Form C-141

Revised March 17, 1999

Release Notification and Corrective Action OPERATOR Initial Report ☐ Final Report Name of Company BTA Oil Producers LLC Contact Pam Inskeep Address 104 S. Pecos, Midland, TX 79701 Telephone No. (432) 682-3753 Pardue -D-, 8808 JV-P **Facility Name** Facility Type Well Surface Owner Antonio & Gloria Onsurez Mineral Owner Antonio & Gloria Onsurez Lease No. LOCATION OF RELEASE North/South Line Unit Letter Feet from the Feet from the East/West Line County Section **Township** Range 28E 990 Eddy D 11 238 North 660 West NATURE OF RELEASE Type of Release Minor, produced fluid Volume of Release est 0-20 bbls Volume Recovered 0 bbls Source of Release unknown Date and Hour of Occurrence Date and Hour of Discovery on or before 03/29/2006 03/29/2006 If YES, To Whom? Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Taken.* See attached remediation and closure report Describe Area Affected and Cleanup Action Taken.* See above explanation 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. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Printed Name Skip Baca Title: **Environmental Coordinator** Approval Date: **Expiration Date:**

Conditions of Approval:

Phone: (432) 682-3753

04/13/2011

Date:

Attach Additional Sheets If Necessary

Appendix B



January 20, 2011

CLAY TIPTON

BTA Oil Producers

103 South Pecos

Midland, TX 79701

RE: PARDUE D 2

Enclosed are the results of analyses for samples received by the laboratory on 01/14/11 8:46.

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.

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,

Celev D. Keene

Lab Director/Quality Manager



BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received: Reported: 01/14/2011

01/20/2011

Project Name: Project Number: PARDUE D 2 NONE GIVEN Sampling Date:

01/13/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Location: NOT GIVEN

Sample ID: SP 1 @ SURFACE (H100099-01)

BTEX 8260B	mg/	kg	Analyze	d By: AB/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/19/2011	ND	1.85	92.5	2.00	5.62	
Toluene*	<0.100	0.100	01/19/2011	ND	1.87	93.3	2.00	3.47	
Ethylbenzene*	<0.100	0.100	01/19/2011	ND	1.78	89.0	2.00	1.12	
Total Xylenes*	<0.300	0.300	01/19/2011	ND	5.70	95.1	6.00	0.249	
Surrogate: Dibromofluoromethane	97.2	% 80-120							
Surrogate: Toluene-d8	105	% 80-120							
Surrogate: 4-Bromofluorobenzene	98.2	% 80-120							
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	01/17/2011	ND	432	108	400	3.77	
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	<50.0	50.0	01/15/2011	ND	224	112	200	0.319	
DRO >C10-C28	10500	50.0	01/15/2011	ND	160	80.1	200	3.86	
Surrogate: 1-Chlorooctane	99.7	% 70-130							
Surrogate: 1-Chlorooctadecane	109 5	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Ameliand Dir. AD /

Received: Reported:

PTEV 0260B

01/14/2011

01/20/2011

Project Name: Project Number: PARDUE D 2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

01/13/2011

Sampling Type: Sampling Condition: Soil Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 1 @ 2' (H100099-02)

BTEX 8260B	mg/	′kg	Analyze	d By: AB/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/19/2011	ND	1.85	92.5	2.00	5.62	
Toluene*	<0.100	0.100	01/19/2011	ND	1.87	93.3	2.00	3.47	
Ethylbenzene*	<0.100	0.100	01/19/2011	ND	1.78	89.0	2.00	1.12	
Total Xylenes*	<0.300	0.300	01/19/2011	ND	5.70	95.1	6.00	0.249	
Surrogate: Dibromofluoromethane	99.1	% 80-120							
Surrogate: Toluene-d8	107	% 80-120							
Surrogate: 4-Bromofluorobenzene	102	% 80-120							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte .	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	01/17/2011	ND	432	108	400	3.77	
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	01/15/2011	ND	224	112	200	0.319	
DRO >C10-C28	55.7	10.0	01/15/2011	NĐ	160	80.1	200	3.86	
Surrogate: 1-Chlorooctane	94.0	% 70-130							
Surrogate: 1-Chlorooctadecane	95.9	% 70-130							

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. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by dient, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such daim 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.



BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Annahament Day AD /

Received:

01/14/2011

Sampling Date:

01/13/2011

Reported:

01/20/2011

Sampling Type:

Soil

Project Name:

PARDUE D 2

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 2 @ SURFACE (H100099-03)

BTEX 8260B	mg/	mg/kg		Analyzed By: AB/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/19/2011	ND	1.85	92.5	2.00	5.62	
Toluene*	<0.100	0.100	01/19/2011	ND	1.87	93.3	2.00	3.47	
Ethylbenzene*	<0.100	0.100	01/19/2011	ND	1.78	89.0	2.00	1.12	
Total Xylenes*	<0.300	0.300	01/19/2011	ND	5.70	95.1	6.00	0.249	
Surrogate: Dibromofluoromethane	103 5	% 80~120							
Surrogate: Toluene-d8	103 9	% 80-120							
Surrogate: 4-Bromofluorobenzene	102 9	% 80-120)						
Chloride, SM4500CI-B	mg/	kg	Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13000	16.0	01/17/2011	ND	432	108	400	3.77	
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	01/15/2011	ND	224	112	200	0.319	
DRQ >C10-C28	111	10.0	01/15/2011	ND	160	80.1	200	3.86	
Surrogate: 1-Chlorooctane	98.1	% 70-130)						
Surrogate: 1-Chlorooctadecane	99.2	% 70-130)						

Cardinal Laboratories

*=Accredited Analyte

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BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received: Reported: 01/14/2011

01/20/2011

Project Name: Project Number: PARDUE D 2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

01/13/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 2 @ 2' (H100099-04)

BTEX 8260B	mg/	kg	Analyze	d By: AB/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/19/2011	ND	1.85	92.5	2.00	5.62	
Toluene*	<0.100	0.100	01/19/2011	ND	1.87	93.3	2.00	3.47	
Ethylbenzene*	<0.100	0.100	01/19/2011	ND	1.78	89.0	2.00	1.12	
Total Xylenes*	<0.300	0.300	01/19/2011	ND	5.70	95.1	6.00	0.249	
Surrogate: Dibromofluoromethane	106 9	% 80-120							
Surrogate: Toluene-d8	105 9	% 80-120							
Surrogate: 4-Bromofluorobenzene	101 9	% 80-120							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	01/17/2011	ND	432	108	400	3.77	
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	01/15/2011	ND	224	112	200	0.319	
DRO >C10-C28	<10.0	10.0	01/15/2011	ND	160	80.1	200	3.86	
Surrogate: 1-Chlorooctane	89.0	% 70-130							
Surrogate: 1-Chlorooctadecane	93.5	% 70-130							

Cardinal Laboratories

*=Accredited Analyte

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BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received:

01/14/2011

Sampling Date:

01/13/2011

Reported:

01/14/2011

Sampling Type:

Soil

Project Name:

PARDUE D 2 NONE GIVEN

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: SP 3 @ SURFACE (H100099-05)

BTEX 8260B	mg/kg		Analyze	Analyzed By: AB/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/19/2011	ND	1.85	92.5	2.00	5.62	
Toluene*	<0.100	0.100	01/19/2011	ND	1.87	93.3	2.00	3.47	
Ethylbenzene*	<0.100	0.100	01/19/2011	ND	1.78	89.0	2.00	1.12	
Total Xylenes*	<0.300	0.300	01/19/2011	ND	5.70	95.1	6.00	0.249	
Surrogate: Dibromofluoromethane	104	% 80-120							
Surrogate: Toluene-d8	103	% 80-120)						
Surrogate: 4-Bromofluorobenzene	101	% 80-120)						
Chloride, SM4500CI-B	mg/kg		Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride .	352	16.0	01/17/2011	ND	432	108	400	3.77	
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	01/15/2011	ND	224	112	200	0.319	
DRO >C10-C28	<10.0	10.0	01/15/2011	ND	160	80.1	200	3.86	
Surrogate: 1-Chlorooctane	91.8	% 70-130)	- 4					
Surrogate: 1-Chlorooctadecane	92.0	% 70-130							

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BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received: Reported: 01/14/2011

01/20/2011

Project Name: Project Number: PARDUE D 2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

01/13/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 3 @ 2' (H100099-06)

BTEX 8260B	mg,	/kg	Analyze	d By: AB/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/19/2011	ND	1.85	92.5	2.00	5.62	
Toluene*	<0.100	0.100	01/19/2011	ND	1.87	93.3	2.00	3.47	
Ethylbenzene*	<0.100	0.100	01/19/2011	ND	1.78	89.0	2.00	1.12	
Total Xylenes*	<0.300	0.300	01/19/2011	ND	5.70	95.1	6.00	0.249	
Surrogate: Dibromofluoromethane	104	% 80-120	1						
Surrogate: Toluene-d8	106	% 80-120	•						
Surrogate: 4-Bromofluorobenzene	111	% 80-120	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	320	16.0	01/17/2011	ND	432	108	400	3.77	
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	01/15/2011	ND	224	112	200	0.319	
DRO >C10-C28	<10.0	10.0	01/15/2011	ND	160	80.1	200	3.86	
Surrogate: 1-Chlorooctane	93.1	% 70-130)						
Surrogate: 1-Chlorooctadecane	99.6	% 70-130)						

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BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received:

01/14/2011

Reported:

01/20/2011

Project Name: Project Number: PARDUE D 2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

01/13/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 4 @ SURFACE (H100099-07)

BTEX 8260B	mg/	kg	Analyzed By: AB/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/19/2011	ND	1.85	92.5	2.00	5.62	
Toluene*	<0.100	0.100	01/19/2011	ND	1.87	93.3	2.00	3.47	
Ethylbenzene*	<0.100	0.100	01/19/2011	ND	1.78	89.0	2.00	1.12	
Total Xylenes*	<0.300	0.300	01/19/2011	ND	5.70	95.1	6.00	0.249	
Surrogate: Dibromofluoromethane	107 9	% 80-120							
Surrogate: Toluene-d8	109 9	% 80-120							
Surrogate: 4-Bromofluorobenzene	105 9	% 80-120							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	01/17/2011	ND	432	108	400	3.77	
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	01/15/2011	ND	224	112	200	0.319	
DRO >C10-C28	<10.0	10.0	01/15/2011	ND	160	80.1	200	3.86	
Surrogate: 1-Chlorooctane	109	% 70-130							
Surrogate: 1-Chlorooctadecane	108	% 70-130							

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BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received:

01/14/2011

Reported: Project Name: 01/20/2011 PARDUE D 2 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

01/13/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 4 @ 2' (H100099-08)

BTEX 8260B	mg/	kg	Analyze	d By: AB/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.100	0.100	01/19/2011	ND	1.85	92.5	2.00	5.62	
Toluene*	<0.100	0.100	01/19/2011	ND	1.87	93.3	2.00	3.47	
Ethylbenzene*	<0.100	0.100	01/19/2011	ND	1.78	89.0	2.00	1.12	
Total Xylenes*	<0.300	0.300	01/19/2011	ND	5.70	95.1	6.00	0.249	
Surrogate: Dibromofluoromethane	103	% 80-120							
Surrogate: Toluene-d8	106	% 80-120							
Surrogate: 4-Bromofluorobenzene	106	% 80-120							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/17/2011	ND	432	108	400	3.77	
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	01/15/2011	ND	224	112	200	0.319	
DRO >C10-C28	<10.0	10.0	01/15/2011	ND	160	80.1	200	3.86	
Surrogate: 1-Chlorooctane	84.0	% 70-130					\$ 10 1 10 1 1 1 1 1 1 1 1 1 1 1 1 1		
Surrogate: 1-Chlorooctadecane	87.3	% 70-130							

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BTA Oil Producers **CLAY TIPTON** 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received:

01/14/2011

Sampling Date:

01/13/2011

Reported:

01/20/2011

Sampling Type:

Soil

Project Name:

PARDUE D 2 NONE GIVEN

Sampling Condition:

Cool & Intact

Project Number: Project Location:

Sample Received By:

Jodi Henson

NOT GIVEN

Sample ID: BACKGROUND @ SURFACE (H100099-09)

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/17/2011	ND	432	108	400	3.77	
Sample ID: BACKGROUN	D @ 2' (H1000	99-10)							
Chloride, SM4500CI-B	ma	/kg	Analyze	ed By: LR					

Chloride, Sh4300Cl-B	i+300Ci*B ing/kg		Analyzeu by. LK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/17/2011	ND	432	108	400	3.77	

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Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

ND

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 BILL TO BTH Of Production ANALYSIS REQUEST Project Manager: (LAL TIPPLES Address: IOU S. PULOS Company: BIAOrt Product city: Midland State: TV Zip: 79781 Attn: (lay Tippter) Phone #: 4 75 - 369 - 5184 Fax #: Project #: Project Name: PARCUE DH2 Project Location: Parche D#7 Sampler Name: Shanan Rusk Phone #: 144 Fax # SAMPLING FOR LAB USE ONLY MATRIX SIGNRAB OR (C)OMF GROUNDWATER WASTEWATER の取 OIL SLUDGE OTHER: ACID/BASE: ICE / COOL #4 Lab I.D. Sample I.D. < DATE TIME SPIC SUPPLICE
SPICE SPICE
SPICE SPICE
SPICE SUPPLICE
SPICE SUPPLICE 1-13-11 8:50 4100019-1 80 8:58 9:50 9:55 3 1. 15 10:31 SPAIR SURFACE SPAIR S' SURFACE BACKGROUND SURFACE BACKGROUND & 2' 11 11 Phone Result: U Yes U No | Add' | Phone #:
Fax Result: U Yes U No | Add' | Fax #:
REMARKS: SROSKOW INDSTREAM NE + Delivered By: (Circle One)

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

Sampler - UPS - Bus - Other:

Page 12 of 12



February 14, 2011

CLAY TIPTON

BTA Oil Producers

103 South Pecos

Midland, TX 79701

RE: PARDUE D 2

Enclosed are the results of analyses for samples received by the laboratory on 02/08/11 13:17.

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.

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



BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received:

02/08/2011

Reported: Project Name: 02/14/2011 PARDUE D 2

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/08/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 1 @ 3' (H100245-01)

BTEX 8021B	mg/kg		Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.160	0.050	02/09/2011	ND	2.02	101	2.00	1.63	
Toluene*	0.061	0.050	02/09/2011	ND	2.01	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/09/2011	ND	2.05	103	2.00	1.51	
Total Xylenes*	<0.150	0.150	02/09/2011	ND	6.09	101	6.00	0.436	
Surrogate: 4-Bromofluorobenzene (PIL	99.4	% 70-130)		•				
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: LR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/09/2011	ND	416	104	400	3.77	
TPH 418.1	mg/kg		Analyzed By: AB			<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	02/14/2011	ND	1320	111	1190	2.99	

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BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received:

02/08/2011

Sampling Date:

02/08/2011

Reported:

Sampling Type:

Soil

02/14/2011

Sampling Condition:

Cool & Intact

Project Name: Project Number: PARDUE D 2 NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 2 @ 3' (H100245-02)

BTEX 8021B	mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.060	0.050	02/09/2011	ND	2.02	101	2.00	1.63	
Toluene*	<0.050	0.050	02/09/2011	ND	2.01	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/09/2011	ND	2.05	103	2.00	1.51	
Total Xylenes*	<0.150	0.150	02/09/2011	ND	6.09	101	6.00	0.436	
Surrogate: 4-Bromofluorobenzene (PIL	94.9	% 70-130)						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: LR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	02/09/2011	ND	416	104	400	3.77	
TPH 418.1	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	02/14/2011	ND	1320	111	1190	2.99	

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BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received: Reported: 02/08/2011

02/14/2011

Project Name: Project Number: PARDUE D 2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

g Date: 02/08/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 3 @ 3' (H100245-03)

BTEX 8021B	mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2011	ND	2.02	101	2.00	1.63	
Toluene*	<0.050	0.050	02/09/2011	ND	2.01	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/09/2011	ND	2.05	103	2.00	1.51	
Total Xylenes*	<0.150	0.150	02/09/2011	ND	6.09	101	6.00	0.436	
Surrogate: 4-Bromofluorobenzene (PIL	100	% 70-130)						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: LR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	02/09/2011	ND	416	104	400	3.77	
TPH 418.1	mg/kg		Analyzed By: AB			·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	02/14/2011	ND	1320	111	1190	2.99	

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BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received:

02/08/2011

Reported: Project Name: 02/14/2011 PARDUE D 2

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/08/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 4 @ 3' (H100245-04)

BTEX 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	02/09/2011	ND	2.02	101	2.00	1.63	
Toluene*	<0.050	0.050	02/09/2011	ND	2.01	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/09/2011	ND	2.05	103	2.00	1.51	
Total Xylenes*	<0.150	0.150	02/09/2011	ND	6.09	101	6.00	0.436	
Surrogate: 4-Bromofluorobenzene (PIL	96.9	% 70-130)						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: LR			···			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	02/09/2011	ND	416	104	400	3.77	
TPH 418.1	mg/kg		Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	02/14/2011	ND	1320	111	1190	2.99	

Cardinal Laboratories *=Accredited Analyte

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BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To: (432) 683-0312

Received:

02/08/2011

Reported: Project Name: 02/14/2011 PARDUE D 2

Project Number: Project Location:

NONE GIVEN

Sampling Date:

02/08/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 5 @ 3' (H100245-05)

BTEX 8021B	mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2011	ND	2.02	101	2.00	1.63	
Toluene*	<0.050	0.050	02/09/2011	ND	2.01	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/09/2011	ND	2.05	103	2.00	1.51	
Total Xylenes*	<0.150	0.150	02/09/2011	ND	6.09	101	6.00	0.436	
Surrogate: 4-Bromofluorobenzene (PIL	111 9	% 70-130	1						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: LR						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	02/09/2011	ND	416	104	400	3.77	
TPH 418.1	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	02/14/2011	ND	1320	111	1190	2.99	

Cardinal Laboratories *=Accredited Analyte

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Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

ND

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO ANALYSIS REQUEST BTA OIL PRODUCERS Project Manager: Cloun tippton Company: BTA Cil Address Alln: Cliff Tippeton City: Phone # Fax #: Project Owner: Project Name: PARCUE D#2 Project Location: Shanon Rusk :31/2 Sampler Name Fax #: SAMPLING FOR LAB USE ONLY MATRIX PRESERV. GROUNDWATER (G)RAB OR (C)ON Lab I.D. Sample I.D. ACID/BASE: OIL SLUDGE OTHER (2) 7 DATE TIME

SOIL SP16 SP263 SP363 SP463 1100245 1.811 16:00 1, spushowing strain, not Time: Delivered By: (Circle One) Sample Condition
Cool Intact
Yes Yes
No No No CHECKED BY: Sampler - UPS - Bus - Other: 602-1931 Shannen † Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Page 8 of 8



March 09, 2011

CLAY TIPTON

BTA Oil Producers

103 South Pecos

Midland, TX 79701

RE: PARDUE D 2

Enclosed are the results of analyses for samples received by the laboratory on 03/03/11 13:50.

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



BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received:

03/03/2011

Reported:

03/09/2011

Project Name: Project Number: Project Location:

NONE GIVEN

LOVING

PARDUE D 2

Sampling Date:

03/03/2011

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: #1 N W CORNER (H100425-01)

BTEX 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	03/04/2011	ND	1.66	83.0	2.00	6.61	
Toluene*	<0.050	0.050	03/04/2011	ND	1.71	85.4	2.00	8.37	
Ethylbenzene*	<0.050	0.050	03/04/2011	ND	1.74	86.9	2.00	9.49	
Total Xylenes*	<0.150	0.150	03/04/2011	ND	5.13	85.6	6.00	9.59	
Surrogate: 4-Bromofluorobenzene (PIL	98.4	% 70-130)						<u> </u>
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					-,
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/04/2011	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK			,		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/04/2011	ND	192	96.0	200	1.89	
DRO >C10-C28	<10.0	10.0	03/04/2011	ND	189	94.5	200	4.31	
Surrogate: 1-Chlorooctane	112	% 70-130)						
Surrogate: 1-Chlorooctadecane	111	% 70-130)						

*=Accredited Analyte Cardinal Laboratories

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Celey D. Keene



BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received:

03/03/2011

Reported:

03/09/2011

Project Name: Project Number: PARDUE D 2 NONE GIVEN

Project Location:

LOVING

Sampling Date:

03/03/2011

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

Sample ID: #2 MIDDLE (H100425-02)

BTEX 8021B	Analyte Result Reporting Lim * <0.050 0.050 * <0.050 0.050 * <0.050 0.050 * izene* <0.050 0.050 lenes* <0.150 0.150 * te: 4-Bromofluorobenzene (PIL 101 % 70- * SM4500Cl-B mg/kg Analyte Result Reporting Lim * Pe	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2011	ND	1.66	83.0	2.00	6.61	
Toluene*	<0.050	0.050	03/04/2011	ND	1.71	85.4	2.00	8.37	
Ethylbenzene*	<0.050	0.050	03/04/2011	ND	1.74	86.9	2.00	9.49	
Total Xylenes*	<0.150	0.150	03/04/2011	ND	5.13	85.6	6.00	9.59	
Surrogate: 4-Bromofluorobenzene (PIL	101	% 70-130							112111111111111111111111111111111111111
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/04/2011	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/04/2011	ND	192	96.0	200	1.89	
DRO >C10-C28	<10.0	10.0	03/04/2011	ND	189	94.5	200	4.31	
Surrogate: 1-Chlorooctane	107	% 70-130)						
Surrogate: 1-Chlorooctadecane	108	% 70-130)						

Cardinal Laboratories *=Accredited Analyte

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Celey & Keine



BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received: Reported: 03/03/2011

03/09/2011

Project Name: Project Number: PARDUE D 2 NONE GIVEN

Project Location:

LOVING

Sampling Date:

03/03/2011

Sampling Type:

Soil

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

Jodi Henson

Sample ID: #3 S W CORNER (H100425-03)

BTEX 8021B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/04/2011	ND	1.66	83.0	2.00	6.61	
Toluene*	<0.050	0.050	03/04/2011	ND	1.71	85.4	2.00	8.37	
Ethylbenzene*	<0.050	0.050	03/04/2011	ND	1.74	86.9	2.00	9.49	
Total Xylenes*	0.161	0.150	03/04/2011	ND	5.13	85.6	6.00	9.59	
Surrogate: 4-Bromofluorobenzene (PIL	97.0	% 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	1040	16.0	03/04/2011	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/04/2011	ND	192	96.0	200	1.89	
DRO >C10-C28	13.7	10.0	03/04/2011	ND	189	94.5	200	4.31	
Surrogate: 1-Chlorooctane	100 :	% 70-130)						
Surrogate: 1-Chlorooctadecane	95.3	% 70-130)						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received: Reported: 03/03/2011

03/09/2011

Project Name: Project Number: PARDUE D 2 NONE GIVEN

Project Location:

LOVING

Sampling Date:

03/03/2011

Sampling Type:

Soil

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

Jodi Henson

Sample ID: # 4 S E CORNER (H100425-04)

BTEX 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	03/04/2011	ND	1.66	83.0	2.00	6.61	
Toluene*	<0.050	0.050	03/04/2011	ND	1.71	85.4	2.00	8.37	
Ethylbenzene*	<0.050	0.050	03/04/2011	ND	1.74	86.9	2.00	9.49	
Total Xylenes*	<0.150	0.150	03/04/2011	ND	5.13	85.6	6.00	9.59	
Surrogate: 4-Bromofluorobenzene (PIL	98.6	% 70-130							
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/04/2011	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/04/2011	ND	192	96.0	200	1.89	
DRO >C10-C28	<10.0	10.0	03/04/2011	ND	189	94.5	200	4.31	•
Surrogate: 1-Chlorooctane	104	% 70-130							,
Surrogate: 1-Chlorooctadecane	104	% 70-130	l						

Cardinal Laboratories

*=Accredited Analyte

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Celey & Keene



BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received:

03/03/2011

Reported: Project Name:

03/09/2011 PARDUE D 2 NONE GIVEN

108 %

70-130

Project Number: Project Location:

LOVING

Sampling Date:

03/03/2011

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By: Jodi Henson

Sample ID: #5 N E CORNER (H100425-05)

BTEX 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	03/04/2011	ND	1.66	83.0	2.00	6.61	
Toluene*	<0.050	0.050	03/04/2011	ND	1.71	85.4	2.00	8.37	
Ethylbenzene*	<0.050	0.050	03/04/2011	ND	1.74	86.9	2.00	9.49	
Total Xylenes*	<0.150	0.150	03/04/2011	ND	5.13	85.6	6.00	9.59	
Surrogate: 4-Bromofluorobenzene (PIL	99.2	% 70-130	1						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					<i></i>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	03/04/2011	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/04/2011	ND	192	96.0	200	1.89	
DRO >C10-C28	69.1	10.0	03/04/2011	ND	189	94.5	200	4.31	
Surrogate: 1-Chlorooctane	101	% 70-130)						

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celey D. Keene



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 Danages, Cardinal's liability and dient's exclusive remedy for any daim 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 whistoewer shall be deemed waived unless made in writing and received by Cardinal within 11th (30) days after completion of the applicable service. In no event shall Cardinal be liable for Incidential or consequential damages, including, within 11th (30) days after completion of the applicable service. In no event shall Cardinal be liable for Incidential or consequential damages, including, within 11th (30) days after completion of the applicable service. In no event shall Cardinal be liable for Incidential or consequential damages, including the samples of the samples of the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: BTA BILL TO ANALYSIS REQUEST Project Manager: Clay P.O. #: Preos Company: Midland State: ty zip: 74701 Attn: 775-432-682-37 Fax#: Address: Project Owner: 374 Project #: City: Project Name: Parking State: Phone #: Project Location: 改 の の 1 los Sampler Name: FOR LABUSE CNUY (G)RAB OR (C)OME 6FE FOF Lab I.D. Sample I.D. OIL SLUDGE OTHER: DATE . TIME #1 NW Corney 3/3/11/9:00 #3 SU COMEN #4 SE COMEN #5 NE COMEN PLEASE NOTE: Liability and Designer. Congress subday and clears exclusive remedy for any closer sixing venture the edit contraction can what be known to the encount part by the clean to the encounter what except and contraction of clear to encounter what except and contraction of centre to the encounter what except and contraction of the encounter what except and contra Relinquished By: hone Result: Yes No Add'l Phone #: Fax Result: REMARKS: Chy Tiphan 369-5184 Ctiphonabotabil.com Relinquished By: Time: CHECKED BY: Delivered By: (Circle One) Sample Condition Cool Intact
Yes Yes
No No Sampler - UPS - Bus - Other:

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

Page 8 of 8



March 23, 2011

CLAY TIPTON

BTA Oil Producers

103 South Pecos

Midland, TX 79701

RE: PARDUE D 2

Enclosed are the results of analyses for samples received by the laboratory on 03/21/11 11:22.

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.

Lope S. Moreno

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

Sincerely,

Hope Moreno

Inorganic Technical Director



BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received: Reported: 03/21/2011

Project Name:

Project Number: Project Location: 03/23/2011 PARDUE D 2 NONE GIVEN

LOVING

Sampling Date:

03/21/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: MIDDLE (H100540-01)

BTEX 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	03/21/2011	ND	1.73	86.3	2.00	6.57	
Toluene*	0.054	0.050	03/21/2011	ND	1.80	89.9	2.00	6.23	
Ethylbenzene*	<0.050	0.050	03/21/2011	ND	1.85	92.7	2.00	6.70	
Total Xylenes*	<0.150	0.150	03/21/2011	ND	5.51	91.8	6.00	6.51	
Surrogate: 4-Bromofluorobenzene (PIL	102 5	% 70-130)						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/23/2011	ND	432	108	400	3.77	
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	03/22/2011	ND	212	106	200	4.64	
DRO >C10-C28	<10.0	10.0	03/22/2011	ND	212	106	200	2.92	
Surrogate: 1-Chlorooctane	115	% 70-130)						
Surrogate: 1-Chlorooctadecane	115	% 70-130)						

*=Accredited Analyte Cardinal Laboratories

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Lope S. Moreno



BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

To: (432) 683-0312

Received:

03/21/2011

Reported:

03/23/2011

Project Name: Project Number: PARDUE D 2 NONE GIVEN

Project Location:

LOVING

Sampling Date:

03/21/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S W CORNER (H100540-02)

BTEX 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	03/21/2011	ND	1.73	86.3	2.00	6.57	
Toluene*	<0.050	0.050	03/21/2011	ND	1.80	89.9	2.00	6.23	
Ethylbenzene*	<0.050	0.050	03/21/2011	ND	1.85	92.7	2.00	6.70	
Total Xylenes*	<0.150	0.150	03/21/2011	ND	5.51	91.8	6.00	6.51	
Surrogate: 4-Bromofluorobenzene (PIL	102	% 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	448	16.0	03/23/2011	ND	432	108	400	3.77	
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	<10.0	10.0	03/22/2011	ND	212	106	200	4.64	
DRO >C10-C28	<10.0	10.0	03/22/2011	ND	212	106	200	2.92	
Surrogate: 1-Chlorooctane	112	% 70-130							
Surrogate: 1-Chlorooctadecane	107	% 70-130	ı						

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BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received:

03/21/2011

Reported:

03/23/2011 PARDUE D 2

Project Name: Project Number:

NONE GIVEN

Project Location:

LOVING

Sampling Date:

03/21/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: N W CORNER (H100540-03)

BTEX 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	03/23/2011	ND	1.68	84.1	2.00	0.186	
Toluene*	<0.050	0.050	03/23/2011	ND	1.77	88.6	2.00	1.26	
Ethylbenzene*	<0.050	0.050	03/23/2011	ND	1.84	91.9	2.00	0.999	
Total Xylenes*	<0.150	0.150	03/23/2011	ND	5.46	91.0	6.00	0.989	
Surrogate: 4-Bromofluorobenzene (PIL	96.6	% 70-130							
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/23/2011	ND	432	108	400	3.77	
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	03/22/2011	ND	212	106	200	4.64	
DRO >C10-C28	<10.0	10.0	03/22/2011	ND	212	106	200	2.92	
Surrogate: 1-Chlorooctane	116	% 70-130							
Surrogate: 1-Chlorooctadecane	111 9	% 70-130							

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Nope S. Moreno



BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received:

03/21/2011

Reported:

03/23/2011

Project Name: Project Number: PARDUE D 2 NONE GIVEN

Project Location:

LOVING

Sampling Date:

03/21/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S E CORNER (H100540-04)

BTEX 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	03/21/2011	ND	1.73	86.3	2.00	6.57	
Toluene*	<0.050	0.050	03/21/2011	ND	1.80	89.9	2.00	6.23	
Ethylbenzene*	<0.050	0.050	03/21/2011	ND	1.85	92.7	2.00	6.70	
Total Xylenes*	<0.150	0.150	03/21/2011	ND	5.51	91.8	6.00	6.51	
Surrogate: 4-Bromofluorobenzene (PIL	100 5	% 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	368	16.0	03/23/2011	ND	432	108	400	3.77	
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	03/22/2011	ND	212	106	200	4.64	
DRO >C10-C28	<10.0	10.0	03/22/2011	ND	212	106	200	2.92	
Surrogate: 1-Chlorooctane	113	% 70-130							
Surrogate: 1-Chlorooctadecane	111	% 70-130							•

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BTA Oil Producers CLAY TIPTON 103 South Pecos Midland TX, 79701

Fax To:

(432) 683-0312

Received:

03/21/2011

Reported:

03/23/2011

Project Name: Project Number: PARDUE D 2 NONE GIVEN

Project Location:

LOVING

Sampling Date:

Date: 03/21/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: N E CORNER (H100540-05)

BTEX 8021B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	.050 0.050 03 .050 0.050 03 .050 0.050 03 .050 0.050 03 .150 0.150 03 .150 70-130 mg/kg esult Reporting Limit // .050 16.0 03 mg/kg esult Reporting Limit // .050 10.0 03 .050 0.050 03 .050 03 .0		ND	1.73	86.3	2.00	6.57	
Toluene*	<0.050	0.050	03/21/2011	ND	1.80	89.9	2.00	6.23	
Ethylbenzene*	<0.050	0.050	03/21/2011	ND	1.85	92.7	2.00	6.70	
Total Xylenes*	<0.150	0.150	03/21/2011	ND	5.51	91.8	6.00	6.51	
Surrogate: 4-Bromofluorobenzene (PIL	102	% 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	336	16.0	03/23/2011	ND	432	108	400	3.77	
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	03/22/2011	ND	212	106	200	4.64	
DRO >C10-C28	<10.0	10.0	03/22/2011	ND	212	106	200	2.92	
Surrogate: 1-Chlorooctane	104	% 70-130							
Surrogate: 1-Chlorooctadecane	98.5	% 70-130							

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ND

Notes and Definitions

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-8 does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Analyte NOT DETECTED at or above the reporting limit

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Page 8 of 8