

# Closure Report

## Site Description

Site Name:	SHU #193
Company:	Oxy Permian Ltd.
Legal Description:	U/L P, Section 5, T19S, R38E
County:	Lea County, NM
GPS Coordinates:	N 32.68488° W 103.16753°

## Release Data

Date of Release:	03/08/2016
Type of Release:	Oil and produced water
Source of Release:	3" fiberglass injection line hit by 3 <sup>rd</sup> party
Volume of Release:	1 bbs oil, 670 bbls produced water
Volume Recovered:	670 bbls

## Remediation Specifications

Remediation Parameters:	Remove contaminated material from around the line strike and replace it with clean material.	
Remediation Activities:	2016	
Plan Sent to OCD:		verbal agreement
OCD Approval of Plan:		verbal agreement
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

## Supporting Documentation

Initial C-141	Signed 03/30/2016
Final C-141	Upon completion
Site Diagram	April 2016
Groundwater Plot	<50'
TOPO Maps	April 2016
Lab Summary	04/06/2016
Lab Analysis	04/06/2016
Correspondence	Request and approval of remediation plan via email

## Request for Closure

Based on the completion of the remediation plan, Oxy requests closure approval from NMOCD.

Casey Summers, NM Environmental Advisor

06/19/2017

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

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

Form C-141  
Revised August 8, 2011

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

Release Notification and Corrective Action

Name of Company Oxy USA Inc.		OPERATOR		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Address 3145 W. State Rd #114, Levelland, TX 79336		Contact Matthew Ledesma			
Facility Name SHU #193		Telephone No. (806) 894-0210			
		Facility Type Line Break			
Surface Owner Oxy		Mineral Owner		API No. 30-025-28984	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	5	19S	38E					Lea County, NM

Latitude N 32.68450° Longitude W 103.16242°

NATURE OF RELEASE

Type of Release Oil and produced water	Volume of Release 1 bbl oil, 670 bbls of produced water	Volume Recovered 670 bbls fluids
Source of Release 3" Fiberglass injection line hit by 3 <sup>rd</sup> party construction crew	Date and Hour of Occurrence 03/08/2016	Date and Hour of Discovery
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jamie Keyes-NMOCD	
By Whom? Jimmy King @ Oxy	Date and Hour 03/18/2016 @ 8:02 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

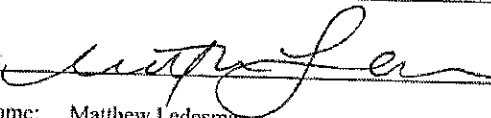
Describe Cause of Problem and Remedial Action Taken.\*

A 3<sup>rd</sup> party construction crew struck an injection line causing 1 bbl of oil and 670 bbls of produced water to spill. A vacuum truck recovered 670 bbls of fluids and the line was repaired.

Describe Area Affected and Cleanup Action Taken.\*

The area affected is approximately 60' x 3' both on and off location. Remediation will be completed in accordance with a remediation plan approved by NMOCD.

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: 		OIL CONSERVATION DIVISION	
Printed Name: Matthew Ledesma		Approved by Environmental Specialist:	
Title: HES Ops Specialist		Approval Date:	Expiration Date:
E-mail Address: Matthew.Ledesma@oxy.com		Conditions of Approval:	
Date: 3/30/16	Phone: (806) 894-0210	Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

# Oxy, SHU #193



Leak date: 03/08/2016

Lea County, NM

API# 30-025-28984

1RP-4227

## Legend

-  Sample points, hand auger
-  Spill Area

SP1

SP2

SP3

Google Earth

© 2017 Google



100 ft

Oxy, SHU #193

Sample point, hand auger

SP1, N 32.68492 W-103.16746

SP2, N 32.68484 W-103.16743

SP3, N 32.68475 W-103.16741

## Oxy, SHU #193

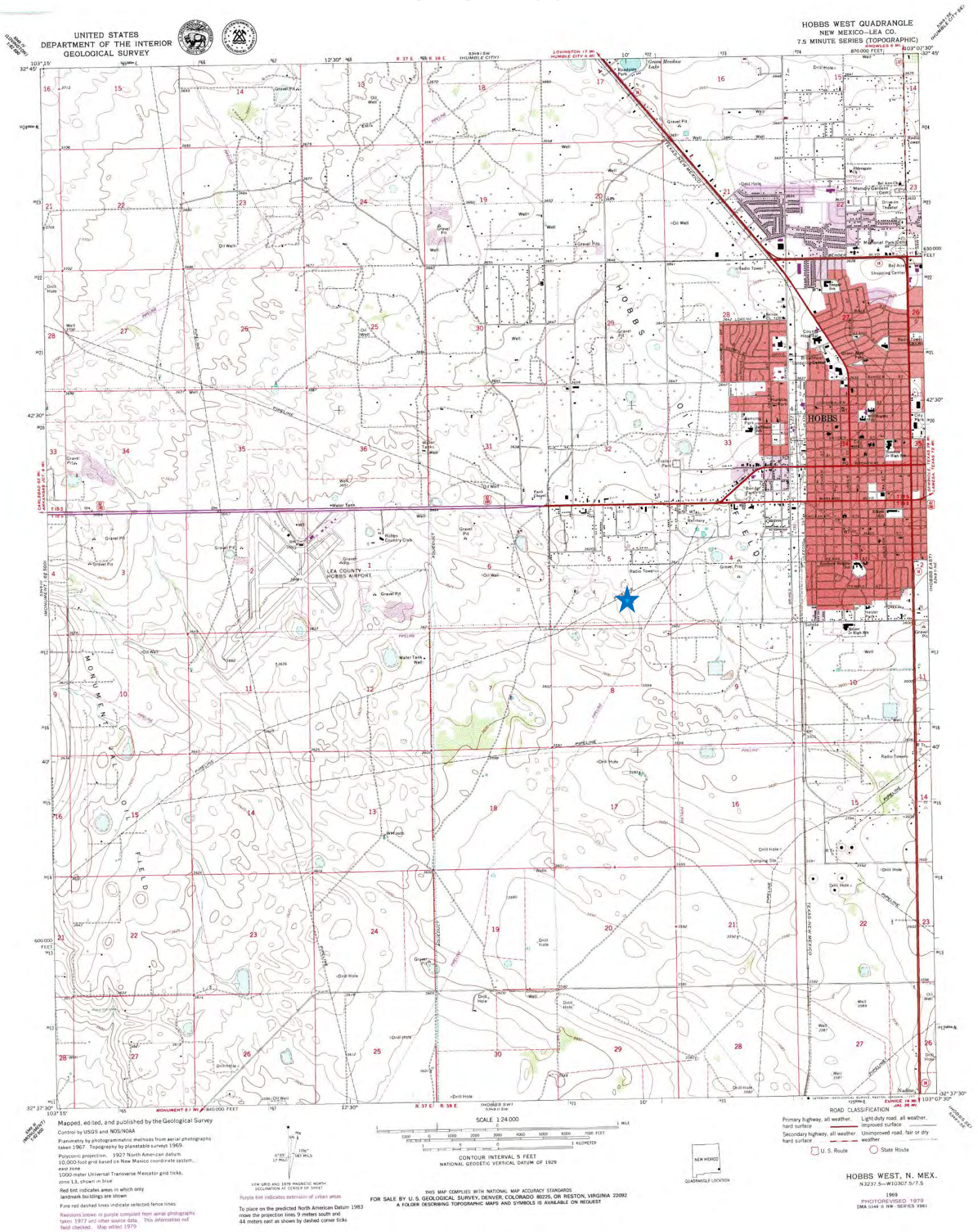
# U/L P, Section 5, T19S, R38E

**Groundwater: <50'**



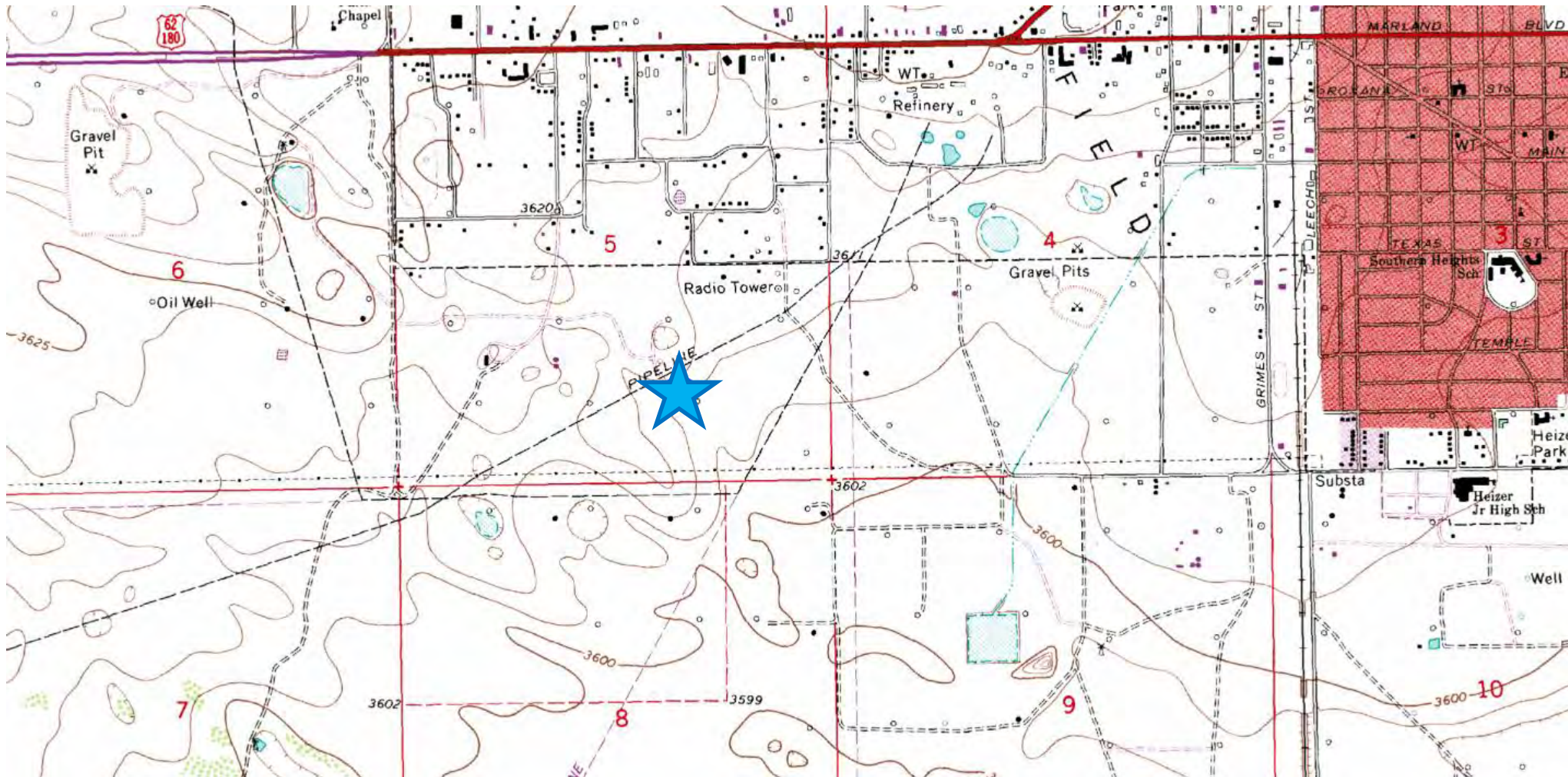
# Oxy

## SHU #193



# Oxy

## SHU #193



**Laboratory Analytical Results Summary  
SHU #193**

		Sample	SP1 @ 4'	SP1 @ 4.5'
Analyte	Method	Date	4/6/16	4/6/16
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>80</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0

		Sample	SP2 @ 5'	SP2 @ 5.5'
Analyte	Method	Date	4/6/16	4/6/16
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>80</b>	<b>48</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<b>90.5</b>

		Sample	SP3 @ 7'	SP3 @ 7.5'
Analyte	Method	Date	4/6/16	4/6/16
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>96</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<b>13</b>

		Sample	SP4 @ West Sidewall	SP4 @ West Sidewall @ 1'
Analyte	Method	Date	4/6/16	4/6/16
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.051</b>	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<16.0	<b>144</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0

		Sample	SP5 @ East Sidewall	SP5 @ East Sidewall @ 1'
Analyte	Method	Date	4/6/16	4/6/16
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<16.0	<16.0
<b>GRO</b>	TPH 8015M		<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0

		Sample	SP6 @ West Sidewall	SP6 @ West Sidewall @ 1'	SP6 @ West Sidewall @ 2'
Analyte	Method	Date	4/6/16	4/6/16	4/6/16
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<b>0.05</b>
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>896</b>	<b>656</b>	<16.0
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>200</b>	<b>134</b>	<10.0

		Sample	SP7 @ East Sidewall	SP7 @ East Sidewall @ 1'	SP7 @ East Sidewall @ 2'
Analyte	Method	Date	4/6/16	4/6/16	4/6/16
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.06</b>	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>1900</b>	<b>464</b>	<16.0
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0	<10.0

April 13, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SHU #193

Enclosed are the results of analyses for samples received by the laboratory on 04/07/16 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 04/07/2016  
Reported: 04/13/2016  
Project Name: SHU #193  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/06/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 4' (H600763-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2016	ND	2.00	100	2.00	1.28	
Toluene*	<0.050	0.050	04/11/2016	ND	1.91	95.3	2.00	0.464	
Ethylbenzene*	<0.050	0.050	04/11/2016	ND	1.69	84.3	2.00	0.793	
Total Xylenes*	<0.150	0.150	04/11/2016	ND	5.20	86.6	6.00	0.493	
Total BTX	<0.300	0.300	04/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/12/2016	ND	416	104	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	04/11/2016	ND	203	101	200	2.98	
DRO >C10-C28	<10.0	10.0	04/11/2016	ND	220	110	200	6.97	

Surrogate: 1-Chlorooctane 78.3 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 04/07/2016  
Reported: 04/13/2016  
Project Name: SHU #193  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/06/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 4.5' (H600763-02)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2016	ND	2.00	100	2.00	1.28	
Toluene*	<0.050	0.050	04/11/2016	ND	1.91	95.3	2.00	0.464	
Ethylbenzene*	<0.050	0.050	04/11/2016	ND	1.69	84.3	2.00	0.793	
Total Xylenes*	<0.150	0.150	04/11/2016	ND	5.20	86.6	6.00	0.493	
Total BTEx	<0.300	0.300	04/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/12/2016	ND	416	104	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	04/11/2016	ND	203	101	200	2.98	
DRO >C10-C28	<10.0	10.0	04/11/2016	ND	220	110	200	6.97	

Surrogate: 1-Chlorooctane 74.5 % 35-147

Surrogate: 1-Chlorooctadecane 95.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 04/07/2016  
Reported: 04/13/2016  
Project Name: SHU #193  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/06/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 5' (H600763-03)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2016	ND	2.00	100	2.00	1.28	
Toluene*	<0.050	0.050	04/11/2016	ND	1.91	95.3	2.00	0.464	
Ethylbenzene*	<0.050	0.050	04/11/2016	ND	1.69	84.3	2.00	0.793	
Total Xylenes*	<0.150	0.150	04/11/2016	ND	5.20	86.6	6.00	0.493	
Total BTEx	<0.300	0.300	04/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/12/2016	ND	416	104	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	04/11/2016	ND	203	101	200	2.98	
DRO >C10-C28	<10.0	10.0	04/11/2016	ND	220	110	200	6.97	

Surrogate: 1-Chlorooctane 67.4 % 35-147

Surrogate: 1-Chlorooctadecane 92.3 % 28-171

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Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 04/07/2016  
Reported: 04/13/2016  
Project Name: SHU #193  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/06/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 5.5' (H600763-04)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2016	ND	2.00	100	2.00	1.28	
Toluene*	<0.050	0.050	04/11/2016	ND	1.91	95.3	2.00	0.464	
Ethylbenzene*	<0.050	0.050	04/11/2016	ND	1.69	84.3	2.00	0.793	
Total Xylenes*	<0.150	0.150	04/11/2016	ND	5.20	86.6	6.00	0.493	
Total BTEx	<0.300	0.300	04/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/12/2016	ND	416	104	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	04/11/2016	ND	203	101	200	2.98	
DRO >C10-C28	90.5	10.0	04/11/2016	ND	220	110	200	6.97	

Surrogate: 1-Chlorooctane 72.3 % 35-147

Surrogate: 1-Chlorooctadecane 98.9 % 28-171

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Fax To: (575) 397-0397

Received: 04/07/2016  
Reported: 04/13/2016  
Project Name: SHU #193  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/06/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 7' (H600763-05)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2016	ND	2.00	100	2.00	1.28	
Toluene*	<0.050	0.050	04/11/2016	ND	1.91	95.3	2.00	0.464	
Ethylbenzene*	<0.050	0.050	04/11/2016	ND	1.69	84.3	2.00	0.793	
Total Xylenes*	<0.150	0.150	04/11/2016	ND	5.20	86.6	6.00	0.493	
Total BTEx	<0.300	0.300	04/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/12/2016	ND	416	104	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	04/11/2016	ND	203	101	200	2.98	
DRO >C10-C28	<10.0	10.0	04/11/2016	ND	220	110	200	6.97	

Surrogate: 1-Chlorooctane 65.5 % 35-147

Surrogate: 1-Chlorooctadecane 86.5 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 04/07/2016  
Reported: 04/13/2016  
Project Name: SHU #193  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/06/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 7.5' (H600763-06)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2016	ND	2.00	100	2.00	1.28	
Toluene*	<0.050	0.050	04/11/2016	ND	1.91	95.3	2.00	0.464	
Ethylbenzene*	<0.050	0.050	04/11/2016	ND	1.69	84.3	2.00	0.793	
Total Xylenes*	<0.150	0.150	04/11/2016	ND	5.20	86.6	6.00	0.493	
Total BTX	<0.300	0.300	04/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/12/2016	ND	416	104	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	04/11/2016	ND	203	101	200	2.98	
DRO >C10-C28	13.0	10.0	04/11/2016	ND	220	110	200	6.97	

Surrogate: 1-Chlorooctane 68.5 % 35-147

Surrogate: 1-Chlorooctadecane 85.7 % 28-171

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Received: 04/07/2016  
Reported: 04/13/2016  
Project Name: SHU #193  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/06/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ WEST SIDEWALL (H600763-07)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2016	ND	2.00	100	2.00	1.28	
Toluene*	0.051	0.050	04/11/2016	ND	1.91	95.3	2.00	0.464	
Ethylbenzene*	<0.050	0.050	04/11/2016	ND	1.69	84.3	2.00	0.793	
Total Xylenes*	<0.150	0.150	04/11/2016	ND	5.20	86.6	6.00	0.493	
Total BTEx	<0.300	0.300	04/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/12/2016	ND	416	104	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	04/11/2016	ND	203	101	200	2.98	
DRO >C10-C28	<10.0	10.0	04/11/2016	ND	220	110	200	6.97	

Surrogate: 1-Chlorooctane 75.8 % 35-147

Surrogate: 1-Chlorooctadecane 92.0 % 28-171

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Fax To: (575) 397-0397

Received: 04/07/2016  
Reported: 04/13/2016  
Project Name: SHU #193  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/06/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ WEST SIDEWALL @ 1' (H600763-08)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2016	ND	2.00	100	2.00	1.28	
Toluene*	<0.050	0.050	04/11/2016	ND	1.91	95.3	2.00	0.464	
Ethylbenzene*	<0.050	0.050	04/11/2016	ND	1.69	84.3	2.00	0.793	
Total Xylenes*	<0.150	0.150	04/11/2016	ND	5.20	86.6	6.00	0.493	
Total BTX	<0.300	0.300	04/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/12/2016	ND	416	104	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	04/11/2016	ND	203	101	200	2.98	
DRO >C10-C28	<10.0	10.0	04/11/2016	ND	220	110	200	6.97	

Surrogate: 1-Chlorooctane 65.0 % 35-147

Surrogate: 1-Chlorooctadecane 83.4 % 28-171

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Received: 04/07/2016  
Reported: 04/13/2016  
Project Name: SHU #193  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/06/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ EAST SIDEWALL (H600763-09)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2016	ND	2.00	100	2.00	1.28	
Toluene*	<0.050	0.050	04/11/2016	ND	1.91	95.3	2.00	0.464	
Ethylbenzene*	<0.050	0.050	04/11/2016	ND	1.69	84.3	2.00	0.793	
Total Xylenes*	<0.150	0.150	04/11/2016	ND	5.20	86.6	6.00	0.493	
Total BTX	<0.300	0.300	04/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/12/2016	ND	416	104	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	04/11/2016	ND	203	101	200	2.98	
DRO >C10-C28	<10.0	10.0	04/11/2016	ND	220	110	200	6.97	

Surrogate: 1-Chlorooctane 69.0 % 35-147

Surrogate: 1-Chlorooctadecane 83.4 % 28-171

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Received: 04/07/2016  
Reported: 04/13/2016  
Project Name: SHU #193  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/06/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ EAST SIDEWALL @ 1' (H600763-10)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2016	ND	2.00	100	2.00	1.28	
Toluene*	<0.050	0.050	04/11/2016	ND	1.91	95.3	2.00	0.464	
Ethylbenzene*	<0.050	0.050	04/11/2016	ND	1.69	84.3	2.00	0.793	
Total Xylenes*	<0.150	0.150	04/11/2016	ND	5.20	86.6	6.00	0.493	
Total BTX	<0.300	0.300	04/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/12/2016	ND	416	104	400	3.92		

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	04/11/2016	ND	203	101	200	2.98	
DRO >C10-C28	<10.0	10.0	04/11/2016	ND	220	110	200	6.97	

Surrogate: 1-Chlorooctane 69.7 % 35-147

Surrogate: 1-Chlorooctadecane 85.7 % 28-171

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Fax To: (575) 397-0397

Received: 04/07/2016  
Reported: 04/13/2016  
Project Name: SHU #193  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/06/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 @ WEST SIDEWALL (H600763-11)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2016	ND	2.00	100	2.00	1.28	
Toluene*	<0.050	0.050	04/11/2016	ND	1.91	95.3	2.00	0.464	
Ethylbenzene*	<0.050	0.050	04/11/2016	ND	1.69	84.3	2.00	0.793	
Total Xylenes*	<0.150	0.150	04/11/2016	ND	5.20	86.6	6.00	0.493	
Total BTEx	<0.300	0.300	04/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	04/12/2016	ND	416	104	400	3.92	

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	04/11/2016	ND	203	101	200	2.98	
DRO >C10-C28	200	10.0	04/11/2016	ND	220	110	200	6.97	

Surrogate: 1-Chlorooctane 65.1 % 35-147

Surrogate: 1-Chlorooctadecane 85.7 % 28-171

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Fax To: (575) 397-0397

Received: 04/07/2016  
Reported: 04/13/2016  
Project Name: SHU #193  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/06/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 @ WEST SIDEWALL @ 1' (H600763-12)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2016	ND	2.00	100	2.00	1.28		
Toluene*	<0.050	0.050	04/11/2016	ND	1.91	95.3	2.00	0.464		
Ethylbenzene*	<0.050	0.050	04/11/2016	ND	1.69	84.3	2.00	0.793		
Total Xylenes*	<0.150	0.150	04/11/2016	ND	5.20	86.6	6.00	0.493		
Total BTEx	<0.300	0.300	04/11/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	04/12/2016	ND	416	104	400	3.92	

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	04/11/2016	ND	203	101	200	2.98	
DRO >C10-C28	134	10.0	04/11/2016	ND	220	110	200	6.97	

Surrogate: 1-Chlorooctane 69.0 % 35-147

Surrogate: 1-Chlorooctadecane 93.7 % 28-171

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Received: 04/07/2016  
Reported: 04/13/2016  
Project Name: SHU #193  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/06/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 @ WEST SIDEWALL @ 2' (H600763-13)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2016	ND	2.00	100	2.00	1.28	
Toluene*	0.050	0.050	04/11/2016	ND	1.91	95.3	2.00	0.464	
Ethylbenzene*	<0.050	0.050	04/11/2016	ND	1.69	84.3	2.00	0.793	
Total Xylenes*	<0.150	0.150	04/11/2016	ND	5.20	86.6	6.00	0.493	
Total BTEx	<0.300	0.300	04/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/12/2016	ND	416	104	400	3.92		

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	04/11/2016	ND	203	101	200	2.98	
DRO >C10-C28	<10.0	10.0	04/11/2016	ND	220	110	200	6.97	

Surrogate: 1-Chlorooctane 66.3 % 35-147

Surrogate: 1-Chlorooctadecane 88.1 % 28-171

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Received: 04/07/2016  
Reported: 04/13/2016  
Project Name: SHU #193  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/06/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ EAST SIDEWALL (H600763-14)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2016	ND	2.00	100	2.00	1.28	
Toluene*	0.060	0.050	04/11/2016	ND	1.91	95.3	2.00	0.464	
Ethylbenzene*	<0.050	0.050	04/11/2016	ND	1.69	84.3	2.00	0.793	
Total Xylenes*	<0.150	0.150	04/11/2016	ND	5.20	86.6	6.00	0.493	
Total BTEx	<0.300	0.300	04/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1900	16.0	04/12/2016	ND	416	104	400	3.92	

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	04/11/2016	ND	203	101	200	2.98	
DRO >C10-C28	<10.0	10.0	04/11/2016	ND	220	110	200	6.97	

Surrogate: 1-Chlorooctane 73.8 % 35-147

Surrogate: 1-Chlorooctadecane 86.5 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 04/07/2016  
Reported: 04/13/2016  
Project Name: SHU #193  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/06/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ EAST SIDEWALL @ 1' (H600763-15)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2016	ND	2.00	100	2.00	1.28	
Toluene*	<0.050	0.050	04/11/2016	ND	1.91	95.3	2.00	0.464	
Ethylbenzene*	<0.050	0.050	04/11/2016	ND	1.69	84.3	2.00	0.793	
Total Xylenes*	<0.150	0.150	04/11/2016	ND	5.20	86.6	6.00	0.493	
Total BTEx	<0.300	0.300	04/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	04/12/2016	ND	416	104	400	3.92	

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	04/12/2016	ND	188	94.2	200	1.08	
DRO >C10-C28	<10.0	10.0	04/12/2016	ND	173	86.6	200	7.60	QR-03

Surrogate: 1-Chlorooctane 72.7 % 35-147

Surrogate: 1-Chlorooctadecane 84.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 04/07/2016  
Reported: 04/13/2016  
Project Name: SHU #193  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/06/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ EAST SIDEWALL @ 2' (H600763-16)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2016	ND	2.00	100	2.00	1.28	
Toluene*	<0.050	0.050	04/11/2016	ND	1.91	95.3	2.00	0.464	
Ethylbenzene*	<0.050	0.050	04/11/2016	ND	1.69	84.3	2.00	0.793	
Total Xylenes*	<0.150	0.150	04/11/2016	ND	5.20	86.6	6.00	0.493	
Total BTEx	<0.300	0.300	04/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/12/2016	ND	416	104	400	3.92		

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	04/12/2016	ND	188	94.2	200	1.08	
DRO >C10-C28	<10.0	10.0	04/12/2016	ND	173	86.6	200	7.60	

Surrogate: 1-Chlorooctane 77.3 % 35-147

Surrogate: 1-Chlorooctadecane 87.5 % 28-171

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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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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





# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240  
(505) 393-2326 FAX (505) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2082

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: SHL #113

Project Location:

Sample Name: Telf Creek

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H4007163

11 SHL to West side of creek  
12 SHL to West side of creek  
13 SHL to West side of creek  
14 SHL to West side of creek  
15 SHL to West side of creek  
16 SHL to West side of creek

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

CL

TPA

BTX

BILL TO

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

ANALYSIS REQUEST

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising from this contract or tort, shall be limited to the amount paid by the client for the analysis. 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, or for or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated theories or otherwise.

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Date:

Time:

Date:

Time:

Received By:

Received By:

Received By:

Received By:

Sample Condition

Cool ☐ Intact ☐

CHECKED BY:

(Initials)

Phone Result:

Fax Result:

REMARKS:

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Add'l Phone #:

Add'l Fax #:

Add'l Phone #:

Add'l Fax #:

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



