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## **OXY – HACKBERRY 6 FED COM #4H**

### **REMEDIATION PLAN**

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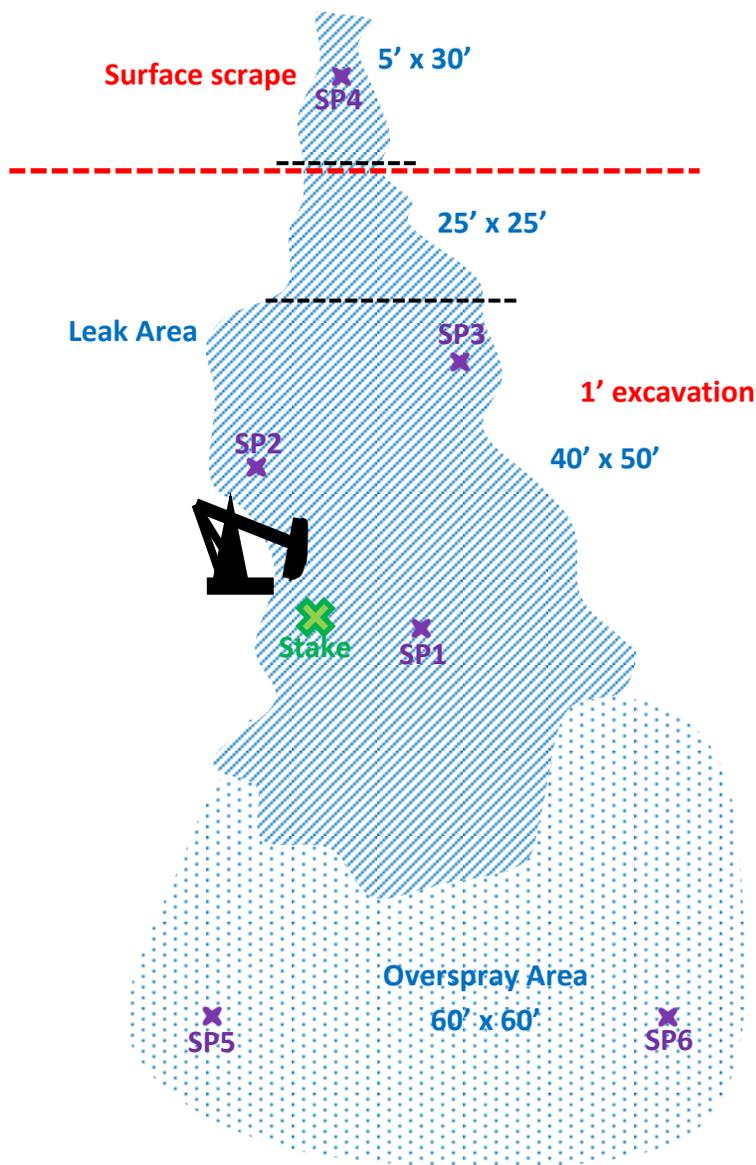
OXY will excavate the spill area as depicted on the following site diagram. The spill area near SP1, SP2, SP3, SP5, and SP6 will be excavated to a depth of 1 foot. The remainder of the spill area near SP4 will be surfaced scraped. All excavated materials will be disposed of at an NMOCD-approved disposal facility.

This plan will remove the contaminants to NMOCD acceptable levels as agreed upon.

The site will then be backfilled with clean soil.



Oxy  
Hackberry 6 Fed Com #4H



Oxy, Hackberry 6 Federal Com #4H

U/L C , Section 6, T19S, R31E

Eddy County, NM

N 32.69558° W 103.91203°

API#30-015-41248

**BBC International, Inc.**

**Oxy  
Hackberry 6 Fed Com #4H**

Date: 07/28/2015	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2015

# Groundwater Plot

## Oxy Hackberry 6 Fed Com #4H

County  
Eddy

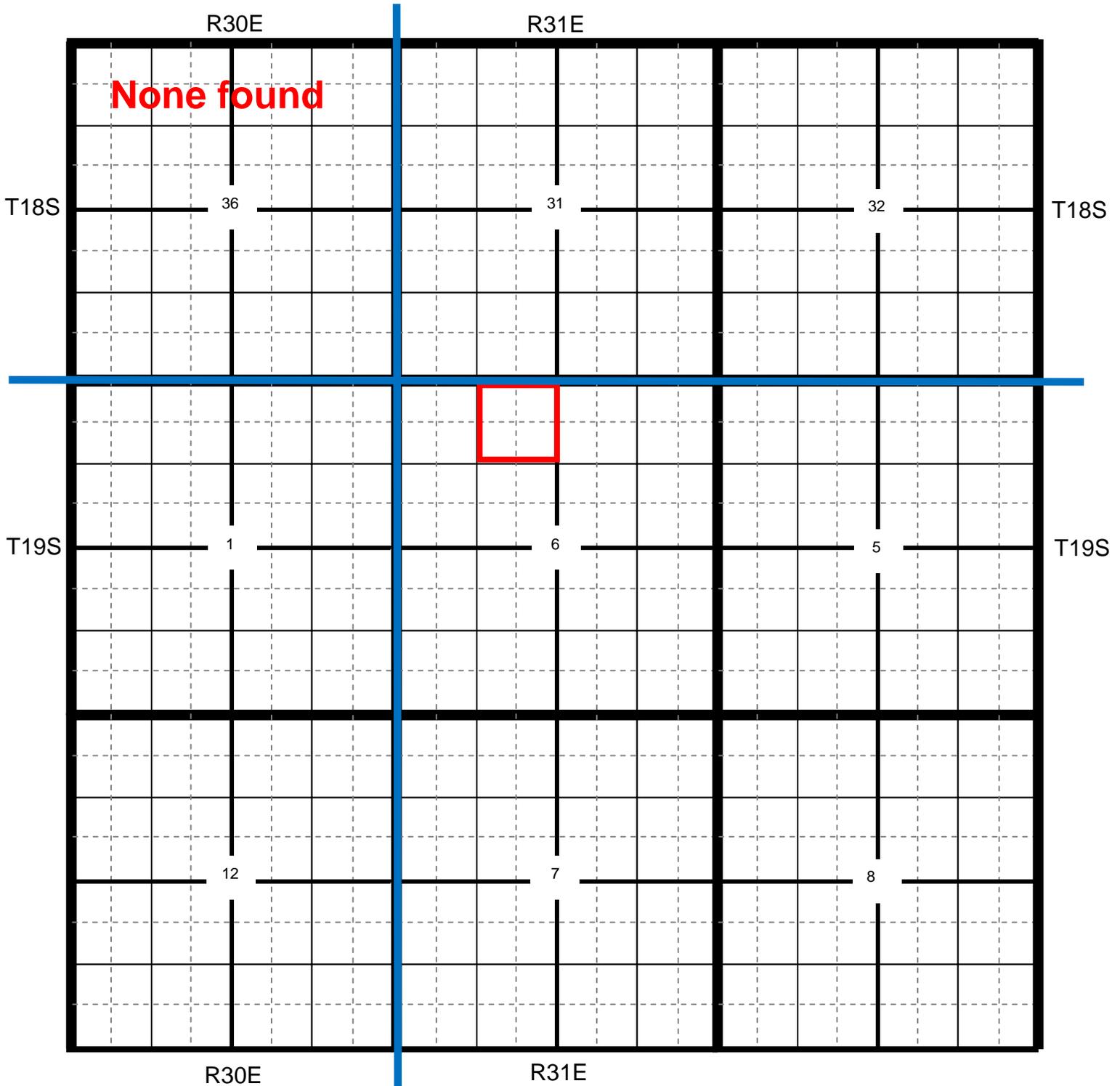
Unit Letter  
C

Section  
6

Township  
19S

Range  
31E

Trend Map 150'-175'



📍 Location

● OCD

● USGS

● SEO

● All Databases

## Oxy Hackberry 6 Fed Com #4H

County Eddy      Unit Letter C      Section 6      Township 19S      Range 31E

Trend Map 150'-175'

1

2

NW/NW <b>None found</b>	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

Laboratory Analytical Results Summary  
Hackberry 6 Fed Com #4H

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	7/28/15	7/28/15	7/28/15	7/28/15	7/29/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<b>0.061</b>	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<b>0.145</b>	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<b>0.458</b>	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<b>0.664</b>	<0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		<b>14000</b>	<b>1710</b>	<b>1620</b>	<b>80</b>	<b>32</b>
GRO	TPH 8015M		<100	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<b>27600</b>	<b>42.8</b>	n/a	n/a	n/a

		Sample	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'	SP5 @ 5'	SP5 @ 6'
Analyte	Method	Date	7/29/15	7/29/15	7/29/15	7/29/15	7/29/15	7/29/15	7/29/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		<b>29600</b>	<b>3800</b>	<b>736</b>	<b>576</b>	<b>224</b>	<b>192</b>	<b>256</b>
GRO	TPH 8015M		<50.0	<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<b>3090</b>	<b>16.9</b>	n/a	n/a	n/a	n/a	n/a

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	7/29/15	7/29/15	7/29/15	7/29/15	7/29/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.100	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<b>2.62</b>	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<b>4.22</b>	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<b>7.55</b>	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<b>14.4</b>	<0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		<b>20400</b>	<b>592</b>	<b>576</b>	<b>64</b>	<b>16</b>
GRO	TPH 8015M		<b>227</b>	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<b>36800</b>	<10.0	n/a	n/a	n/a

		Sample	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'	SP6 @ 5'	SP6 @ 6'
Analyte	Method	Date	7/29/15	7/29/15	7/29/15	7/29/15	7/29/15	7/29/15	7/29/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		<b>28000</b>	<b>3400</b>	<b>704</b>	<b>704</b>	<b>320</b>	<b>224</b>	<b>208</b>
GRO	TPH 8015M		<50.0	<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<b>2430</b>	<b>19.4</b>	n/a	n/a	n/a	n/a	n/a

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	7/29/15	7/29/15	7/29/15	7/29/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<b>0.209</b>	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<b>0.978</b>	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<b>1.99</b>	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<b>3.18</b>	<0.300	n/a	n/a
Chloride	SM4500CI-B		<b>7520</b>	<b>320</b>	<b>304</b>	<16.0
GRO	TPH 8015M		<b>122</b>	<10.0	n/a	n/a
DRO	TPH 8015M		<b>34500</b>	<b>713</b>	n/a	n/a

		Sample	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	7/29/15	7/29/15	7/29/15	7/29/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<b>0.099</b>	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<b>0.665</b>	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<b>1.36</b>	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<b>2.13</b>	<0.300	n/a	n/a
Chloride	SM4500CI-B		<b>24400</b>	<b>160</b>	<b>224</b>	<b>48</b>
GRO	TPH 8015M		<b>102</b>	<10.0	n/a	n/a
DRO	TPH 8015M		<b>46100</b>	<10.0	n/a	n/a



August 06, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: HACKBERRY 6 FED COM #4H

Enclosed are the results of analyses for samples received by the laboratory on 07/30/15 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

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:	07/30/2015	Sampling Date:	07/28/2015
Reported:	08/06/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 6 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP1 @ SURFACE (H501981-01)**

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	07/31/2015	ND	1.98	99.2	2.00	3.64	
<b>Toluene*</b>	<b>0.061</b>	0.050	07/31/2015	ND	2.02	101	2.00	4.60	
<b>Ethylbenzene*</b>	<b>0.145</b>	0.050	07/31/2015	ND	2.17	108	2.00	5.97	
<b>Total Xylenes*</b>	<b>0.458</b>	0.150	07/31/2015	ND	5.68	94.7	6.00	6.65	
<b>Total BTEX</b>	<b>0.664</b>	0.300	07/31/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>14000</b>	16.0	08/04/2015	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	07/31/2015	ND	209	105	200	1.89		
<b>DRO &gt;C10-C28</b>	<b>27600</b>	100	07/31/2015	ND	188	94.1	200	1.68		

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 1090 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	07/30/2015	Sampling Date:	07/28/2015
Reported:	08/06/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 6 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP1 @ 1' (H501981-02)**

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	07/31/2015	ND	1.98	99.2	2.00	3.64		
Toluene*	<0.050	0.050	07/31/2015	ND	2.02	101	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/31/2015	ND	2.17	108	2.00	5.97		
Total Xylenes*	<0.150	0.150	07/31/2015	ND	5.68	94.7	6.00	6.65		
Total BTEX	<0.300	0.300	07/31/2015	ND						

*Surrogate: 4-Bromofluorobenzene (PID) 118 % 85.6-137*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1710</b>	16.0	08/04/2015	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/31/2015	ND	202	101	200	3.18		
<b>DRO &gt;C10-C28</b>	<b>42.8</b>	10.0	07/31/2015	ND	182	91.0	200	4.59		

*Surrogate: 1-Chlorooctane 100 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 125 % 52.1-176*
**Sample ID: SP1 @ 2' (H501981-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1620</b>	16.0	08/04/2015	ND	432	108	400	3.64		

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\* = 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:	07/30/2015	Sampling Date:	07/28/2015
Reported:	08/06/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 6 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP1 @ 3' (H501981-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	08/04/2015	ND	432	108	400	3.64	

**Sample ID: SP1 @ 4' (H501981-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	08/04/2015	ND	432	108	400	3.64	

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Received:	07/30/2015	Sampling Date:	07/29/2015
Reported:	08/06/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 6 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP2 @ SURFACE (H501981-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/31/2015	ND	1.98	99.2	2.00	3.64	
<b>Toluene*</b>	<b>2.62</b>	0.100	07/31/2015	ND	2.02	101	2.00	4.60	
<b>Ethylbenzene*</b>	<b>4.22</b>	0.100	07/31/2015	ND	2.17	108	2.00	5.97	
<b>Total Xylenes*</b>	<b>7.55</b>	0.300	07/31/2015	ND	5.68	94.7	6.00	6.65	
<b>Total BTEX</b>	<b>14.4</b>	0.600	07/31/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>20400</b>	16.0	08/04/2015	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>227</b>	100	07/31/2015	ND	202	101	200	3.18		
<b>DRO &gt;C10-C28</b>	<b>36800</b>	100	07/31/2015	ND	182	91.0	200	4.59		

Surrogate: 1-Chlorooctane 138 % 47.2-157

Surrogate: 1-Chlorooctadecane 1620 % 52.1-176

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 Fax To: (575) 397-0397

Received:	07/30/2015	Sampling Date:	07/29/2015
Reported:	08/06/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 6 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP2 @ 1' (H501981-07)**

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	07/31/2015	ND	1.98	99.2	2.00	3.64		
Toluene*	<0.050	0.050	07/31/2015	ND	2.02	101	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/31/2015	ND	2.17	108	2.00	5.97		
Total Xylenes*	<0.150	0.150	07/31/2015	ND	5.68	94.7	6.00	6.65		
Total BTEX	<0.300	0.300	07/31/2015	ND						

*Surrogate: 4-Bromofluorobenzene (PID) 117 % 85.6-137*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>592</b>	16.0	08/04/2015	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/31/2015	ND	202	101	200	3.18		
DRO >C10-C28	<10.0	10.0	07/31/2015	ND	182	91.0	200	4.59		

*Surrogate: 1-Chlorooctane 102 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 123 % 52.1-176*
**Sample ID: SP2 @ 2' (H501981-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>576</b>	16.0	08/05/2015	ND	432	108	400	3.77		

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\* = 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:	07/30/2015	Sampling Date:	07/29/2015
Reported:	08/06/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 6 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP2 @ 3' (H501981-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	08/05/2015	ND	432	108	400	3.77	

**Sample ID: SP2 @ 4' (H501981-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	08/05/2015	ND	432	108	400	3.77	

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**Analytical Results For:**

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

Received:	07/30/2015	Sampling Date:	07/29/2015
Reported:	08/06/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 6 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP3 @ SURFACE (H501981-11)**

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	08/01/2015	ND	1.98	99.2	2.00	3.64	
<b>Toluene*</b>	<b>0.209</b>	0.050	08/01/2015	ND	2.02	101	2.00	4.60	
<b>Ethylbenzene*</b>	<b>0.978</b>	0.050	08/01/2015	ND	2.17	108	2.00	5.97	
<b>Total Xylenes*</b>	<b>1.99</b>	0.150	08/01/2015	ND	5.68	94.7	6.00	6.65	
<b>Total BTEX</b>	<b>3.18</b>	0.300	08/01/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>7520</b>	16.0	08/05/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>122</b>	100	07/31/2015	ND	202	101	200	3.18		
<b>DRO &gt;C10-C28</b>	<b>34500</b>	100	07/31/2015	ND	182	91.0	200	4.59		

Surrogate: 1-Chlorooctane 148 % 47.2-157

Surrogate: 1-Chlorooctadecane 1420 % 52.1-176

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

Received:	07/30/2015	Sampling Date:	07/29/2015
Reported:	08/06/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 6 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP3 @ 1' (H501981-12)**

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	08/04/2015	ND	1.92	96.2	2.00	0.311	
Toluene*	<0.050	0.050	08/04/2015	ND	1.95	97.4	2.00	0.357	
Ethylbenzene*	<0.050	0.050	08/04/2015	ND	2.10	105	2.00	0.478	
Total Xylenes*	<0.150	0.150	08/04/2015	ND	5.55	92.4	6.00	0.104	
Total BTEX	<0.300	0.300	08/04/2015	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 115 % 85.6-137*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>320</b>	16.0	08/05/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/31/2015	ND	202	101	200	3.18	
<b>DRO &gt;C10-C28</b>	<b>713</b>	10.0	07/31/2015	ND	182	91.0	200	4.59	

*Surrogate: 1-Chlorooctane 112 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 142 % 52.1-176*
**Sample ID: SP3 @ 2' (H501981-13)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>304</b>	16.0	08/05/2015	ND	432	108	400	3.77	

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 Fax To: (575) 397-0397

Received:	07/30/2015	Sampling Date:	07/29/2015
Reported:	08/06/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 6 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP3 @ 3' (H501981-14)**

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	08/05/2015	ND	432	108	400	3.77	

**Sample ID: SP4 @ SURFACE (H501981-15)**

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	08/04/2015	ND	1.92	96.2	2.00	0.311	
<b>Toluene*</b>	<b>0.099</b>	0.050	08/04/2015	ND	1.95	97.4	2.00	0.357	
<b>Ethylbenzene*</b>	<b>0.665</b>	0.050	08/04/2015	ND	2.10	105	2.00	0.478	
<b>Total Xylenes*</b>	<b>1.36</b>	0.150	08/04/2015	ND	5.55	92.4	6.00	0.104	
<b>Total BTEX</b>	<b>2.13</b>	0.300	08/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>24400</b>	16.0	08/05/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>102</b>	100	07/31/2015	ND	202	101	200	3.18		
<b>DRO &gt;C10-C28</b>	<b>46100</b>	100	07/31/2015	ND	182	91.0	200	4.59		

Surrogate: 1-Chlorooctane 141 % 47.2-157

Surrogate: 1-Chlorooctadecane 1990 % 52.1-176

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 Fax To: (575) 397-0397

Received:	07/30/2015	Sampling Date:	07/29/2015
Reported:	08/06/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 6 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP4 @ 1' (H501981-16)**

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	08/04/2015	ND	1.92	96.2	2.00	0.311	
Toluene*	<0.050	0.050	08/04/2015	ND	1.95	97.4	2.00	0.357	
Ethylbenzene*	<0.050	0.050	08/04/2015	ND	2.10	105	2.00	0.478	
Total Xylenes*	<0.150	0.150	08/04/2015	ND	5.55	92.4	6.00	0.104	
Total BTEX	<0.300	0.300	08/04/2015	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 113 % 85.6-137*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	08/05/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/31/2015	ND	202	101	200	3.18	
DRO >C10-C28	<10.0	10.0	07/31/2015	ND	182	91.0	200	4.59	

*Surrogate: 1-Chlorooctane 102 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 103 % 52.1-176*
**Sample ID: SP4 @ 2' (H501981-17)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>224</b>	16.0	08/05/2015	ND	432	108	400	3.77	

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**Analytical Results For:**

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 Cliff Brunson  
 P.O. Box 805  
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 Fax To: (575) 397-0397

Received:	07/30/2015	Sampling Date:	07/29/2015
Reported:	08/06/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 6 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP4 @ 3' (H501981-18)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	08/05/2015	ND	432	108	400	3.77	

**Sample ID: SP5 @ SURFACE (H501981-19)**

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	08/04/2015	ND	1.92	96.2	2.00	0.311	
Toluene*	<0.050	0.050	08/04/2015	ND	1.95	97.4	2.00	0.357	
Ethylbenzene*	<0.050	0.050	08/04/2015	ND	2.10	105	2.00	0.478	
Total Xylenes*	<0.150	0.150	08/04/2015	ND	5.55	92.4	6.00	0.104	
Total BTEX	<0.300	0.300	08/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>29600</b>	16.0	08/05/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	07/31/2015	ND	202	101	200	3.18		
<b>DRO &gt;C10-C28</b>	<b>3090</b>	50.0	07/31/2015	ND	182	91.0	200	4.59		

Surrogate: 1-Chlorooctane 104 % 47.2-157

Surrogate: 1-Chlorooctadecane 215 % 52.1-176

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

Received:	07/30/2015	Sampling Date:	07/29/2015
Reported:	08/06/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 6 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP5 @ 1' (H501981-20)**

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	08/04/2015	ND	1.92	96.2	2.00	0.311	
Toluene*	<0.050	0.050	08/04/2015	ND	1.95	97.4	2.00	0.357	
Ethylbenzene*	<0.050	0.050	08/04/2015	ND	2.10	105	2.00	0.478	
Total Xylenes*	<0.150	0.150	08/04/2015	ND	5.55	92.4	6.00	0.104	
Total BTEX	<0.300	0.300	08/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3800</b>	16.0	08/05/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/31/2015	ND	202	101	200	3.18	
<b>DRO &gt;C10-C28</b>	<b>16.9</b>	10.0	07/31/2015	ND	182	91.0	200	4.59	

Surrogate: 1-Chlorooctane 104 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 52.1-176

**Sample ID: SP5 @ 2' (H501981-21)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>736</b>	16.0	08/05/2015	ND	432	108	400	3.77	

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 Fax To: (575) 397-0397

Received:	07/30/2015	Sampling Date:	07/29/2015
Reported:	08/06/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 6 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP5 @ 3' (H501981-22)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>576</b>	16.0	08/05/2015	ND	432	108	400	3.77	

**Sample ID: SP5 @ 4' (H501981-23)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>224</b>	16.0	08/05/2015	ND	432	108	400	3.77	

**Sample ID: SP5 @ 5' (H501981-24)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>192</b>	16.0	08/05/2015	ND	432	108	400	3.77	

**Sample ID: SP5 @ 6' (H501981-25)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>256</b>	16.0	08/05/2015	ND	432	108	400	3.77	

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Received:	07/30/2015	Sampling Date:	07/29/2015
Reported:	08/06/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 6 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP6 @ SURFACE (H501981-26)**

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	08/04/2015	ND	1.92	96.2	2.00	0.311	
Toluene*	<0.050	0.050	08/04/2015	ND	1.95	97.4	2.00	0.357	
Ethylbenzene*	<0.050	0.050	08/04/2015	ND	2.10	105	2.00	0.478	
Total Xylenes*	<0.150	0.150	08/04/2015	ND	5.55	92.4	6.00	0.104	
Total BTEX	<0.300	0.300	08/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>28000</b>	16.0	08/05/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	07/31/2015	ND	202	101	200	3.18		
<b>DRO &gt;C10-C28</b>	<b>2430</b>	50.0	07/31/2015	ND	182	91.0	200	4.59		

Surrogate: 1-Chlorooctane 94.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 180 % 52.1-176

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\*=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:	07/30/2015	Sampling Date:	07/29/2015
Reported:	08/06/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 6 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP6 @ 1' (H501981-27)**

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	08/04/2015	ND	1.92	96.2	2.00	0.311	
Toluene*	<0.050	0.050	08/04/2015	ND	1.95	97.4	2.00	0.357	
Ethylbenzene*	<0.050	0.050	08/04/2015	ND	2.10	105	2.00	0.478	
Total Xylenes*	<0.150	0.150	08/04/2015	ND	5.55	92.4	6.00	0.104	
Total BTEX	<0.300	0.300	08/04/2015	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 110 % 85.6-137*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3400</b>	16.0	08/05/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/31/2015	ND	202	101	200	3.18	
<b>DRO &gt;C10-C28</b>	<b>19.4</b>	10.0	07/31/2015	ND	182	91.0	200	4.59	

*Surrogate: 1-Chlorooctane 99.4 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 106 % 52.1-176*
**Sample ID: SP6 @ 2' (H501981-28)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>704</b>	16.0	08/03/2015	ND	400	100	400	3.92	

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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:	07/30/2015	Sampling Date:	07/29/2015
Reported:	08/06/2015	Sampling Type:	Soil
Project Name:	HACKBERRY 6 FED COM #4H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP6 @ 3' (H501981-29)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/03/2015	ND	400	100	400	3.92	

**Sample ID: SP6 @ 4' (H501981-30)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/03/2015	ND	400	100	400	3.92	

**Sample ID: SP6 @ 5' (H501981-31)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/03/2015	ND	400	100	400	3.92	

**Sample ID: SP6 @ 6' (H501981-32)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/03/2015	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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

1 of 4

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc.  
 Project Manager: Cliff Brunson  
 Address: P. O. Box 805  
 City: Hobbs  
 Phone #: 575-397-6388  
 Project #: \_\_\_\_\_  
 Project Name: Hackberry 6 Fed Com #4H  
 Project Location: Eddy County, NM  
 Sampler Name: Price Brunson

State: NM Zip: 88241  
 Fax #: 575-397-0397  
 Project Owner: Oxy  
 City: \_\_\_\_\_  
 State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CI	BTEX	TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H5D1981	1	SP1 @ SURFACE	1	<input checked="" type="checkbox"/>	7/28/15	12:15 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
	2	SP1 @ 1'	1	<input checked="" type="checkbox"/>	7/28/15	12:35 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
	3	SP1 @ 2'	1	<input checked="" type="checkbox"/>	7/28/15	12:50 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
	4	SP1 @ 3'	1	<input checked="" type="checkbox"/>	7/28/15	1:30 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
	5	SP1 @ 4'	1	<input checked="" type="checkbox"/>	7/29/15	10:00 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
	6	SP2 @ SURFACE	1	<input checked="" type="checkbox"/>	7/29/15	10:15 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
	7	SP2 @ 1'	1	<input checked="" type="checkbox"/>	7/29/15	10:20 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
	8	SP2 @ 2'	1	<input checked="" type="checkbox"/>	7/29/15	10:30 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
	9	SP2 @ 3'	1	<input checked="" type="checkbox"/>	7/29/15	10:40 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
	10	SP2 @ 4'	1	<input checked="" type="checkbox"/>	7/29/15	11:00 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					

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Relinquished By: \_\_\_\_\_ Date: 7/30/15  
 Received By: Price Brunson Date: 7/30/15  
 Time: 11:50  
 Relinquished By: \_\_\_\_\_  
 Received By: \_\_\_\_\_  
 Time: \_\_\_\_\_

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other: \_\_\_\_\_  
 Sample Condition: Cool  Intact   
 Yes  No   
 Checked By: \_\_\_\_\_  
 -0.46  
 #54



**ARDINAL LABORATORIES**

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(505) 393-2326 FAX (505) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**ANALYSIS REQUEST**

**BILL TO**

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P. O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: Hackberry 6 Fed Com #4H

Project Location: Eddy County, NM

Sampler Name: Price Brunson

FOR LAB USE ONLY

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME	CI	BTEX	TAP
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:							
H501981	SP3 @ SURFACE	G	1								7/29/15	11:05 AM	✓	✓	✓	
	SP3 @ 1'	G	1								7/29/15	11:15 AM	✓	✓	✓	
	SP3 @ 2'	G	1								7/29/15	11:20 AM	✓	✓	✓	
	SP3 @ 3'	G	1								7/29/15	11:30 AM	✓	✓	✓	
	SP4 @ SURFACE	G	1								7/29/15	11:50 AM	✓	✓	✓	
	SP4 @ 1'	G	1								7/29/15	1:10 PM	✓	✓	✓	
	SP4 @ 2'	G	1								7/29/15	1:20 PM	✓	✓	✓	
	SP4 @ 3'	G	1								7/29/15	1:40 PM	✓	✓	✓	
	SP5 @ SURFACE	G	1								7/29/15	1:50 PM	✓	✓	✓	
	SP5 @ 1'	G	1								7/29/15	2:00 PM	✓	✓	✓	

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Relinquished By: *[Signature]* Date: 7/30/15 Received By: *[Signature]* Time: 11:50

Relinquished By: *[Signature]* Date: *[Blank]* Received By: *[Signature]* Time: *[Blank]*

Delivered By: (Circle One)  UPS  Bus  Other: *[Blank]*

Sample Condition:  Cool  Intact  Broken  Damaged

Checked By: *[Signature]*

Phone Result:  Yes  No  Add'l Phone #: *[Blank]*

Fax Result:  Yes  No  Add'l Fax #: *[Blank]*

REMARKS: *[Blank]*

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

#54





# ARDINAL LABORATORIES

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(505) 393-2326 FAX (505) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4 of 4

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc.  
 Project Manager: Cliff Brunson  
 Address: P.O. Box 805  
 City: Hobbs  
 State: NM Zip: 88241  
 Phone #: 575-397-6388 Fax #: 575-397-0397  
 Project #: Project Owner: Oxy  
 Project Name: Hackberry 6 Fed Com #4H  
 Project Location: Eddy County, NM  
 Sampler Name: Price Brunson

P.O. #: \_\_\_\_\_ Company: \_\_\_\_\_  
 Attn: \_\_\_\_\_ Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME								
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:										
H501941																			
31	SP6 @ 5'		6			<input checked="" type="checkbox"/>				7/29/15	3:30 PM								
32	SP6 @ 6'		6			<input checked="" type="checkbox"/>				7/29/15	3:40 PM								
7/30/15 KBP																			

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Relinquished By: \_\_\_\_\_ Date: 7/30/15  
 Relinquished By: \_\_\_\_\_ Time: 11:50  
 Received By: Matt Johnson  
 Received By: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Delivered By: (Circle One) \_\_\_\_\_  
 Sampler - UPS - Bus - Other: - OHC

Sample Condition: Cool  Intact   
 Yes  No  Yes  No

CHECKED BY: \_\_\_\_\_ (Initials)

REMARKS: \_\_\_\_\_  
 Phone Result:  Yes  No  Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No  Add'l Fax #: \_\_\_\_\_

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

#54

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**

**OPERATOR**

Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	CJ Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(432) 685-5824
Facility Name	Hackberry 6 Fed Com #4H	Facility Type	Well
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-41248

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	6	19S	31E					Eddy County, NM

Latitude N 32.69558° Longitude W 103.91203°

**NATURE OF RELEASE**

Type of Release	Oil	Volume of Release	8 bbls	Volume Recovered	6 bbls
Source of Release	Over pressure on the stuffing box caused the packing to blow out of the well head	Date and Hour of Occurrence	07/19/2015	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?	Mike Bratcher and Heather Patterson-NMOCD, Shelly Tucker and James Amos-BLM		
By Whom?	Kathy Purvis @ BBC International Inc.	Date and Hour	07/20/2015 @ 4:06 pm		
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.\*

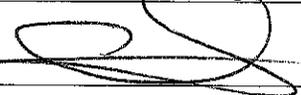
Describe Cause of Problem and Remedial Action Taken.\*

Over pressure on the stuffing box caused the packing to blow out on the well head and spill 8 bbls of oil onto the ground. A vacuum truck recovered 6 bbls of oil and the packing was replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 105' x 40' on location. Remediation will be completed according to a remediation plan approved by NMOCD and the BLM.

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: 	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: CJ Summers	Approved by Environmental Specialist:		
Title: HES Lead	Approval Date:	Expiration Date:	
E-mail Address: chancey_summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8-13-15	Phone: (432) 685-5824		

\* Attach Additional Sheets If Necessary