

**Bratcher, Mike, EMNRD**

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**From:** Cliff P. Brunson <cbrunson@bbcinternational.com>  
**Sent:** Wednesday, January 01, 2014 1:28 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-Nagooltee Peak 5 Federal #2-Remediation Plan  
**Attachments:** Remediation Packet- NP 5-2.pdf

Mike,

This e-mail is to confirm our conversation on December 18, 2013 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 1 foot in the areas depicted by SP1 and SP2. The rest of the spill area will not be disturbed due to steep terrain. The excavated area will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
Mailing Address:  
P. O. Box 805  
Hobbs, NM 88241-0805 USA  
Shipping Address:  
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Hobbs, NM 88240 USA  
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\*\*\*\*\*  
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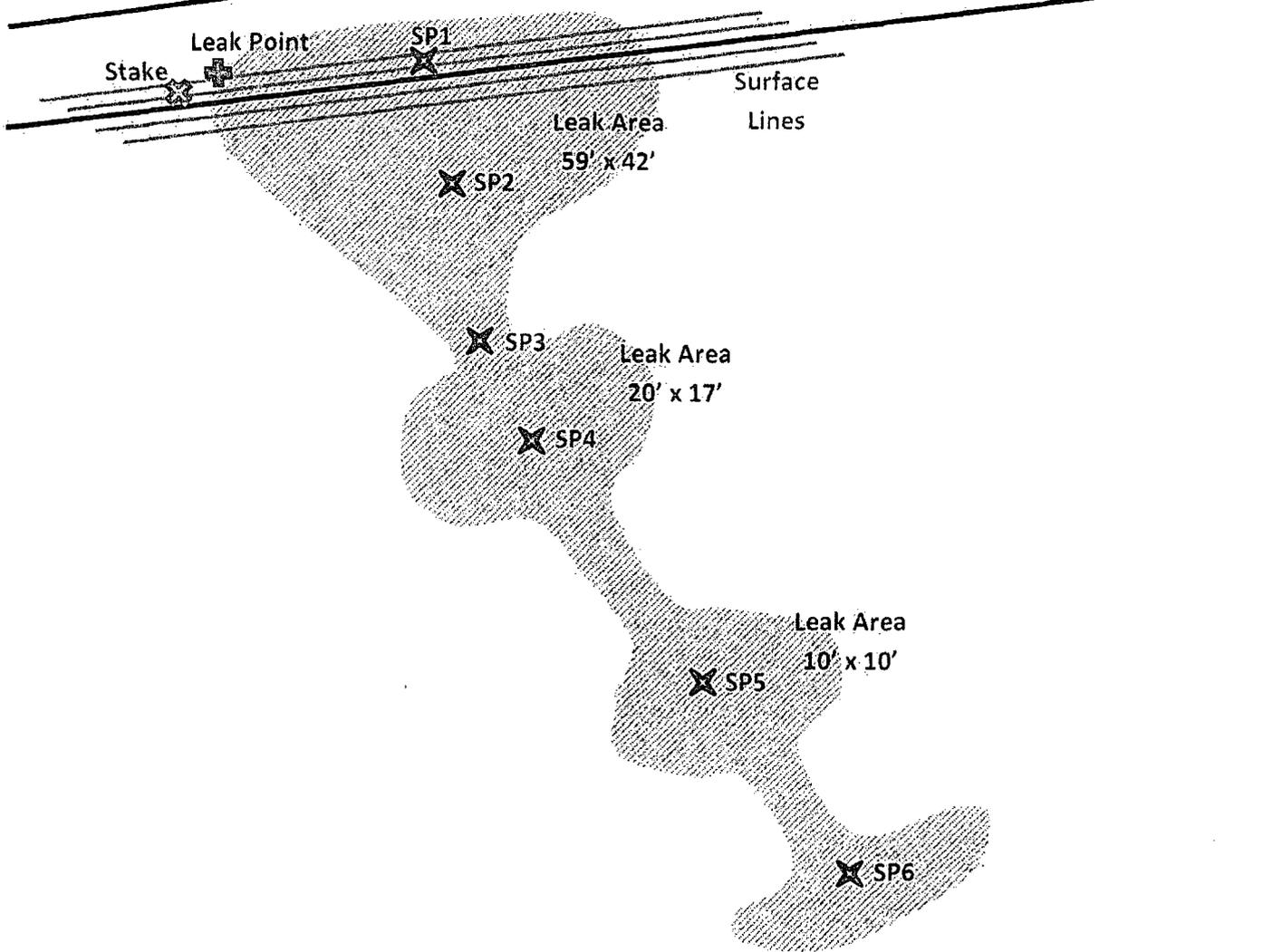


Oxy

Nagooltee Peak 5 Federal #2

Location Pad

Entrance Road



U/L E, Section 5, T22S, R24E  
1562' FNL and 1202' FWL  
Eddy County, NM  
GPS at Stake: N 32.42378° W 104.52532°  
API#30-015-28074, NM Lease # 81217

BBC International, Inc.	
Oxy	
Nagooltee Peak 5 Federal #2	
Date: 07/17/2013	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2013



# Groundwater Plot

## Oxy Nagooltee Peak 5 Federal #2

County  
Eddy

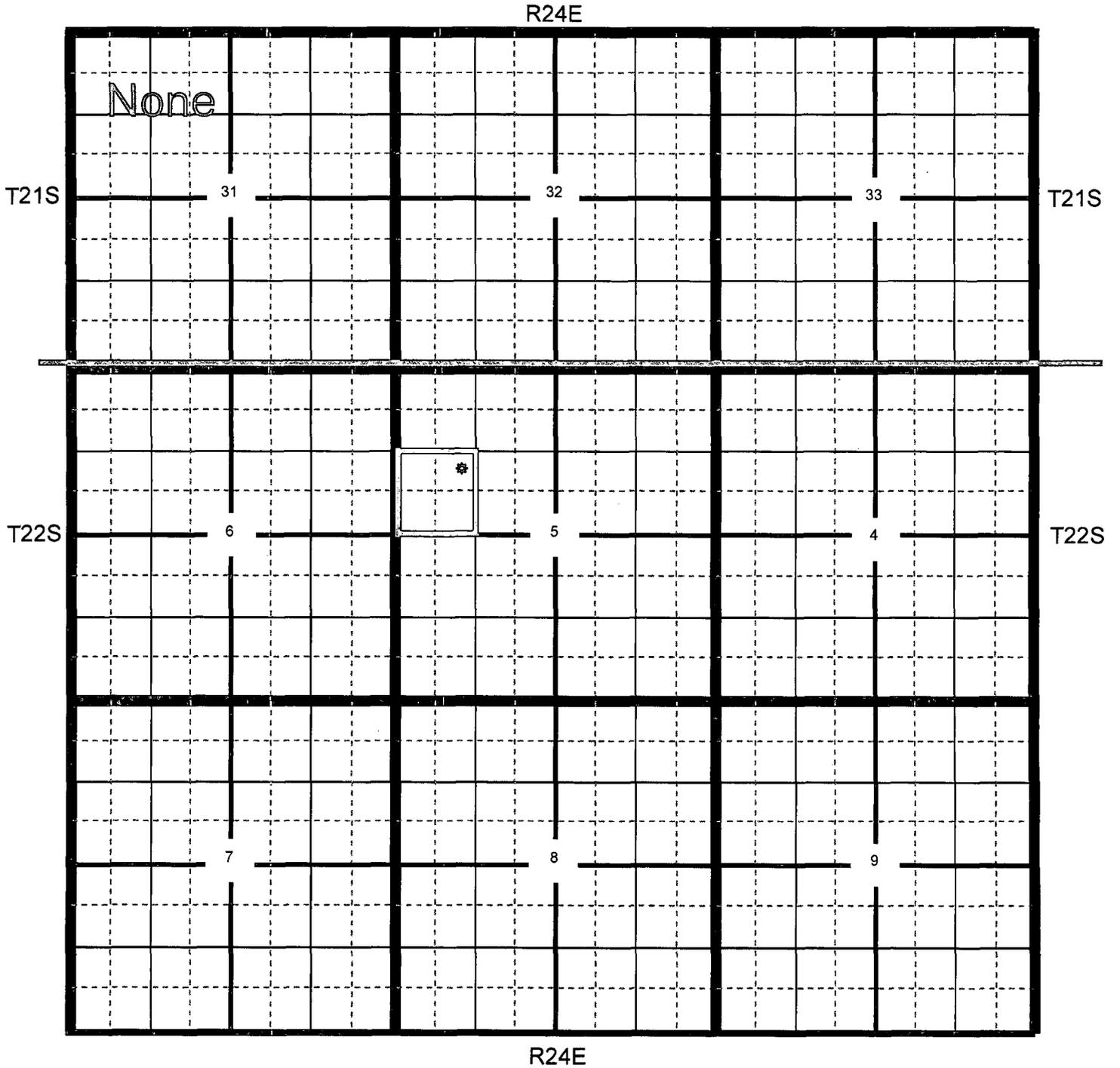
Unit Letter  
E

Section  
5

Township  
22S

Range  
24E

Trend Map <50'



⊛ Location

⊙ OCD

○ USGS

⊙ SEO

● All Databases



Section Quarters

Oxy Nagooltee Peak 5 Federal #2

<b>County</b> Eddy	<b>Unit Letter</b> E	<b>Section</b> 5	<b>Township</b> 22S	<b>Range</b> 24E
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Trend Map <50'

1

2

NW/NW None	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

☼ Location      ⊙ OCD      ○ USGS      ● SEO      ● All Databases

**Laboratory Analytical Results Summary**  
**Nagootee Peak 5 Fed Com #2**

Analyte	Method	Sample Date	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 1.5'
			7/12/13	7/12/13	7/15/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<b>0.103</b>	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<b>0.658</b>	<0.150	<0.150
Total BTEX	BTEX 8021B		<b>0.814</b>	<0.300	<0.300
Chloride	SM4500Cl-B		<b>512</b>	<b>480</b>	<b>256</b>
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<b>57.4</b>	<10.0	<10.0

Analyte	Method	Sample Date	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 1.5'
			7/12/13	7/12/13	7/18/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<b>1570</b>	<b>592</b>	<b>224</b>
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<b>17</b>	<10.0	<10.0

Analyte	Method	Sample Date	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 1.5'
			7/12/13	7/12/13	7/15/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<b>0.412</b>	<0.150	<0.150
Total BTEX	BTEX 8021B		<b>0.499</b>	<0.300	<0.300
Chloride	SM4500Cl-B		<b>1310</b>	<b>496</b>	<b>288</b>
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

Analyte	Method	Sample Date	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 1.5'
			7/12/13	7/12/13	7/18/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<b>0.092</b>	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<b>0.212</b>	<0.150	<0.150
Total BTEX	BTEX 8021B		<b>0.336</b>	<0.300	<0.300
Chloride	SM4500Cl-B		<b>800</b>	<b>576</b>	<b>160</b>
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

Analyte	Method	Sample Date	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 1.5'
			7/12/13	7/12/13	7/15/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<b>656</b>	<b>1150</b>	<b>192</b>
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

Analyte	Method	Sample Date	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 1.5'
			7/12/13	7/12/13	7/18/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<b>0.094</b>	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<b>0.219</b>	<0.150	<0.150
Total BTEX	BTEX 8021B		<b>0.346</b>	<0.300	<0.300
Chloride	SM4500Cl-B		<b>672</b>	<b>576</b>	<b>192</b>
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

July 19, 2013

Cliff Brunson  
BBC International, Inc.  
P.O. Box 805  
Hobbs, NM 88241

RE: NAGOOLTEE PEAK 5 FED COM #2

Enclosed are the results of analyses for samples received by the laboratory on 07/15/13 10:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Mike Snyder  
Organic Supervisor

**Analytical Results For:**

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

Received:	07/15/2013	Sampling Date:	07/12/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 1 @ SURFACE (H301647-01)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2013	ND	2.32	116	2.00	13.8		
<b>Toluene*</b>	<b>0.103</b>	0.050	07/16/2013	ND	2.18	109	2.00	14.6		
Ethylbenzene*	<0.050	0.050	07/16/2013	ND	2.21	110	2.00	15.2		
<b>Total Xylenes*</b>	<b>0.658</b>	0.150	07/16/2013	ND	6.53	109	6.00	13.9		
<b>Total BTEX</b>	<b>0.814</b>	0.300	07/16/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 89.4-126

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>512</b>	16.0	07/18/2013	ND	448	112	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	07/18/2013	ND	197	98.4	200	4.69		
<b>DRO &gt;C10-C28</b>	<b>57.4</b>	10.0	07/18/2013	ND	202	101	200	7.67		

Surrogate: 1-Chlorooctane 89.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

 Received: 07/15/2013  
 Reported: 07/19/2013  
 Project Name: NAGOOLTEE PEAK 5 FED COM #2  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 07/12/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1 FT (H301647-02)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8		
Toluene*	<0.050	0.050	07/18/2013	ND	2.11	106	2.00	13.7		
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6		
Total Xylenes*	<0.150	0.150	07/18/2013	ND	6.77	113	6.00	13.9		
Total BTEX	<0.300	0.300	07/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	07/18/2013	ND	448	112	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	07/18/2013	ND	197	98.4	200	4.69		
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67		

Surrogate: 1-Chlorooctane 91.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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\*=Accredited Analyte

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

Received:	07/15/2013	Sampling Date:	07/12/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 2 @ SURFACE (H301647-03)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8		
Toluene*	<0.050	0.050	07/18/2013	ND	2.11	106	2.00	13.7		
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6		
<b>Total Xylenes*</b>	<b>0.412</b>	0.150	07/18/2013	ND	6.77	113	6.00	13.9		
<b>Total BTEX</b>	<b>0.499</b>	0.300	07/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 89.4-126

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>1310</b>	16.0	07/18/2013	ND	448	112	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	07/18/2013	ND	197	98.4	200	4.69		
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67		

Surrogate: 1-Chlorooctane 88.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.4 % 63.6-154

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

Received:	07/15/2013	Sampling Date:	07/12/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 2 @ 1 FT (H301647-04)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8		
Toluene*	<0.050	0.050	07/18/2013	ND	2.11	106	2.00	13.7		
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6		
Total Xylenes*	<0.150	0.150	07/18/2013	ND	6.77	113	6.00	13.9		
Total BTEX	<0.300	0.300	07/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	07/18/2013	ND	448	112	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	07/18/2013	ND	197	98.4	200	4.69		
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67		

Surrogate: 1-Chlorooctane 86.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.6 % 63.6-154

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Mike Snyder, Organic Supervisor

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

Received:	07/15/2013	Sampling Date:	07/12/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 3 @ SURFACE (H301647-05)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8		
Toluene*	<0.050	0.050	07/18/2013	ND	2.11	106	2.00	13.7		
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6		
Total Xylenes*	<0.150	0.150	07/18/2013	ND	6.77	113	6.00	13.9		
Total BTEX	<0.300	0.300	07/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 89.4-126

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	07/18/2013	ND	448	112	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	07/18/2013	ND	197	98.4	200	4.69		
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67		

Surrogate: 1-Chlorooctane 90.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

Received:	07/15/2013	Sampling Date:	07/12/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 3 @ SURFACE (H301647-06)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8		
Toluene*	<0.050	0.050	07/18/2013	ND	2.11	106	2.00	13.7		
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6		
Total Xylenes*	<0.150	0.150	07/18/2013	ND	6.77	113	6.00	13.9		
Total BTEX	<0.300	0.300	07/18/2013	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	07/18/2013	ND	448	112	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	07/18/2013	ND	197	98.4	200	4.69		
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67		

Surrogate: 1-Chlorooctane 86.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

Received:	07/15/2013	Sampling Date:	07/12/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 4 @ SURFACE (H301647-07)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8		
Toluene*	<0.050	0.050	07/18/2013	ND	2.11	106	2.00	13.7		
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6		
Total Xylenes*	<0.150	0.150	07/18/2013	ND	6.77	113	6.00	13.9		
Total BTEX	<0.300	0.300	07/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	07/18/2013	ND	448	112	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	07/18/2013	ND	197	98.4	200	4.69		
DRO >C10-C28	17.0	10.0	07/18/2013	ND	202	101	200	7.67		

Surrogate: 1-Chlorooctane 88.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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\* = Accredited Analyte

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

Received:	07/15/2013	Sampling Date:	07/12/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 4 @ 1 FT (H301647-08)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8		
Toluene*	<0.050	0.050	07/18/2013	ND	2.11	106	2.00	13.7		
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6		
Total Xylenes*	<0.150	0.150	07/18/2013	ND	6.77	113	6.00	13.9		
Total BTEX	<0.300	0.300	07/18/2013	ND						

*Surrogate: 4-Bromofluorobenzene (PIC) 103 % 89.4-126*

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	07/18/2013	ND	448	112	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	07/18/2013	ND	197	98.4	200	4.69		
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67		

*Surrogate: 1-Chlorooctane 84.1 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 96.9 % 63.6-154*

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\* = Accredited Analyte

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

Received:	07/15/2013	Sampling Date:	07/12/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 5 @ SURFACE (H301647-09)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8		
<b>Toluene*</b>	<b>0.092</b>	0.050	07/18/2013	ND	2.11	106	2.00	13.7		
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6		
<b>Total Xylenes*</b>	<b>0.212</b>	0.150	07/18/2013	ND	6.77	113	6.00	13.9		
<b>Total BTEX</b>	<b>0.336</b>	0.300	07/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 89.4-126

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>800</b>	16.0	07/18/2013	ND	448	112	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	07/18/2013	ND	197	98.4	200	4.69		
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67		

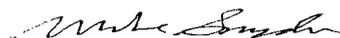
Surrogate: 1-Chlorooctane 86.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

Received:	07/15/2013	Sampling Date:	07/12/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 5 @ 1 FT (H301647-10)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8		
Toluene*	<0.050	0.050	07/18/2013	ND	2.11	106	2.00	13.7		
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6		
Total Xylenes*	<0.150	0.150	07/18/2013	ND	6.77	113	6.00	13.9		
Total BTEX	<0.300	0.300	07/18/2013	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	07/18/2013	ND	448	112	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	07/18/2013	ND	197	98.4	200	4.69		
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67		

*Surrogate: 1-Chlorooctane 83.8 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 94.8 % 63.6-154*

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\* = Accredited Analyte

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

Received:	07/15/2013	Sampling Date:	07/12/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 6 @ SURFACE (H301647-11)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8		
<b>Toluene*</b>	<b>0.094</b>	0.050	07/18/2013	ND	2.11	106	2.00	13.7		
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6		
<b>Total Xylenes*</b>	<b>0.219</b>	0.150	07/18/2013	ND	6.77	113	6.00	13.9		
<b>Total BTEX</b>	<b>0.346</b>	0.300	07/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 89.4-126

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>672</b>	16.0	07/18/2013	ND	448	112	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	07/18/2013	ND	197	98.4	200	4.69		
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67		

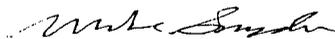
Surrogate: 1-Chlorooctane 80.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.1 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder, Organic Supervisor

**Analytical Results For:**

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

Received:	07/15/2013	Sampling Date:	07/12/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 6 @ 1 FT (H301647-12)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8		
Toluene*	<0.050	0.050	07/18/2013	ND	2.11	106	2.00	13.7		
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6		
Total Xylenes*	<0.150	0.150	07/18/2013	ND	6.77	113	6.00	13.9		
Total BTEX	<0.300	0.300	07/18/2013	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	07/18/2013	ND	448	112	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	07/18/2013	ND	197	98.4	200	4.69		
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67		

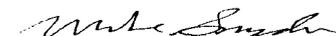
Surrogate: 1-Chlorooctane 84.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.7 % 63.6-154

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\* = Accredited Analyte

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Mike Snyder, Organic Supervisor

**Notes and Definitions**

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

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\*=Accredited Analyte

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---

Mike Snyder, Organic Supervisor





# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>												
Project Manager: Cliff Brunson		P.O. #:														
Address: P.O. Box 805		Company:														
City: Hobbs State: NM Zip: 88241		Attn:														
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:														
Project #: Project Owner: Oxy		City: <i>Same</i>														
Project Name: <i>Nagotee Peak 5-2</i>		State: Zip:														
Project Location: <i>Cards Bad.</i>		Phone #:														
Sampler Name: <i>JEFF or Release</i>		Fax #:														
FOR LAB USE ONLY		G/RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV		SAMPLING		CL-	TPH	B-TEX	
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:				DATE
H301647	11 SP 6 @ Sur Face	6	2			X				X		7-12-13	3:02	X	X	X
	12 SP 6 @ 2 FT	6	2			X				X		7-12-13	3:19	X	X	X

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Relinquished By: <i>Jeff</i>	Date: <i>7/15/13</i>	Received By: <i>Jodi Henson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>10:25</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	<i>JA</i>		

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

#54

July 23, 2013

Cliff Brunson  
BBC International, Inc.  
P.O. Box 805  
Hobbs, NM 88241

RE: NAGOOLTEE PEAK 5 FED COM #2

Enclosed are the results of analyses for samples received by the laboratory on 07/17/13 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/17/2013	Sampling Date:	07/15/2013
Reported:	07/23/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 1 @ 1 1/2 (H301678-01)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/22/2013	ND	2.02	101	2.00	10.3		
Toluene*	<0.050	0.050	07/22/2013	ND	2.03	102	2.00	10.8		
Ethylbenzene*	<0.050	0.050	07/22/2013	ND	2.16	108	2.00	10.9		
Total Xylenes*	<0.150	0.150	07/22/2013	ND	6.53	109	6.00	11.6		
Total BTEX	<0.300	0.300	07/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	07/22/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/22/2013	ND	184	91.8	200	1.99		
DRO >C10-C28	<10.0	10.0	07/22/2013	ND	193	96.6	200	3.15		

Surrogate: 1-Chlorooctane 87.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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:	07/17/2013	Sampling Date:	07/15/2013
Reported:	07/23/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 2 @ 1 1/2 (H301678-02)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/22/2013	ND	2.02	101	2.00	10.3		
Toluene*	<0.050	0.050	07/22/2013	ND	2.03	102	2.00	10.8		
Ethylbenzene*	<0.050	0.050	07/22/2013	ND	2.16	108	2.00	10.9		
Total Xylenes*	<0.150	0.150	07/22/2013	ND	6.53	109	6.00	11.6		
Total BTEX	<0.300	0.300	07/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	07/22/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/22/2013	ND	184	91.8	200	1.99		
DRO >C10-C28	<10.0	10.0	07/22/2013	ND	193	96.6	200	3.15		

Surrogate: 1-Chlorooctane 76.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.7 % 63.6-154

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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:	07/17/2013	Sampling Date:	07/15/2013
Reported:	07/23/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 3 @ 1 1/2 (H301678-03)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/22/2013	ND	2.02	101	2.00	10.3		
Toluene*	<0.050	0.050	07/22/2013	ND	2.03	102	2.00	10.8		
Ethylbenzene*	<0.050	0.050	07/22/2013	ND	2.16	108	2.00	10.9		
Total Xylenes*	<0.150	0.150	07/22/2013	ND	6.53	109	6.00	11.6		
Total BTEX	<0.300	0.300	07/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	07/22/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/22/2013	ND	184	91.8	200	1.99		
DRO >C10-C28	<10.0	10.0	07/22/2013	ND	193	96.6	200	3.15		

Surrogate: 1-Chlorooctane 81.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.4 % 63.6-154

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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:	07/17/2013	Sampling Date:	07/16/2013
Reported:	07/23/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 4 @ 1 1/2 (H301678-04)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/22/2013	ND	2.02	101	2.00	10.3		
Toluene*	<0.050	0.050	07/22/2013	ND	2.03	102	2.00	10.8		
Ethylbenzene*	<0.050	0.050	07/22/2013	ND	2.16	108	2.00	10.9		
Total Xylenes*	<0.150	0.150	07/22/2013	ND	6.53	109	6.00	11.6		
Total BTEX	<0.300	0.300	07/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	07/22/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/22/2013	ND	184	91.8	200	1.99		
DRO >C10-C28	<10.0	10.0	07/22/2013	ND	193	96.6	200	3.15		

Surrogate: 1-Chlorooctane 81.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.9 % 63.6-154

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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:	07/17/2013	Sampling Date:	07/16/2013
Reported:	07/23/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 5 @ 1 1/2 (H301678-05)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/22/2013	ND	2.02	101	2.00	10.3		
Toluene*	<0.050	0.050	07/22/2013	ND	2.03	102	2.00	10.8		
Ethylbenzene*	<0.050	0.050	07/22/2013	ND	2.16	108	2.00	10.9		
Total Xylenes*	<0.150	0.150	07/22/2013	ND	6.53	109	6.00	11.6		
Total BTEX	<0.300	0.300	07/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/22/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/22/2013	ND	184	91.8	200	1.99		
DRO >C10-C28	<10.0	10.0	07/22/2013	ND	193	96.6	200	3.15		

Surrogate: 1-Chlorooctane 80.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.1 % 63.6-154

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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:	07/17/2013	Sampling Date:	07/16/2013
Reported:	07/23/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 6 @ 1 1/2 (H301678-06)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/22/2013	ND	2.02	101	2.00	10.3		
Toluene*	<0.050	0.050	07/22/2013	ND	2.03	102	2.00	10.8		
Ethylbenzene*	<0.050	0.050	07/22/2013	ND	2.16	108	2.00	10.9		
Total Xylenes*	<0.150	0.150	07/22/2013	ND	6.53	109	6.00	11.6		
Total BTEX	<0.300	0.300	07/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	07/22/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/22/2013	ND	184	91.8	200	1.99		
DRO >C10-C28	<10.0	10.0	07/22/2013	ND	193	96.6	200	3.15		

Surrogate: 1-Chlorooctane 85.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.5 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

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

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																									
Project Manager: Cliff Brunson		P.O. #:																											
Address: P.O. Box 805		Company:																											
City: Hobbs State: NM Zip: 88241		Attn:																											
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:																											
Project #: Project Owner: oxy		City: Same																											
Project Name: Negotiated Peak 5-2		State: Zip:																											
Project Location: Carl's Pad		Phone #:																											
Sampler Name: Jeff Orndorff		Fax #:																											
FOR LAB USE ONLY			MATRIX				PRESERV.		SAMPLING																				
Lab I.D.	Sample I.D.	GIRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME															
H301678															CL	B-TEX	TPH												
1	SP 2 @ 1 1/2	6	2			X					X		7-15-13	1:11	X	X	X												
2	SP 2 @ 1 1/2	6	2			X					X		7-15-13	2:00	X	X	X												
3	SP 3 @ 2 1/2	6	2			X					X		7-15-13	3:03	X	X	X												
4	SP 4 @ 2 1/2	6	1			X					X		7-16-13	9:19	X	X	X												
5	SP 5 @ 2 1/2	6	2			X					X		7-16-13	10:11	X	X	X												
6	SP 6 @ 2 1/2	6	2			X					X		7-16-13	1:09	X	X	X												

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Relinquished By: <i>Jeff Orndorff</i>	Date: 7/11/13 Time: 4:30	Received By: <i>Jodi Benson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -3c			Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: <i>[Signature]</i>
REMARKS:				

† 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  
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

Form C-141  
Revised October 10, 2003

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Nagooltee Peak 5 Federal #2	Facility Type	

Surface Owner	BLM	Mineral Owner		API No.	30-015-28074
---------------	-----	---------------	--	---------	--------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	5	22S	24E	1562	North	1202	West	Eddy County, NM

Latitude N 32.42378° Longitude W 104.52532°

**NATURE OF RELEASE**

Type of Release	Produced water	Volume of Release	60 bbls	Volume Recovered	0 bbls
Source of Release	Hole in steel flow line	Date and Hour of Occurrence	07/11/2013	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 Jean Marie Warren- OCD, James Amos- BLM
-----------------------------	---	------------------	---

By Whom?	Christopher Jones	Date and Hour	07/12/2013 @ 10:54 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 hole in a steel flow line caused 60 bbls of produced water to leak onto the ground. No fluids were recovered. The line was repaired.

Describe Area Affected and Cleanup Action Taken.\*  
The affected area is approximately 200' x 60'. Remediation will be completed in accordance with a 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:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Christopher Jones	Approved by District Supervisor:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Christopher.Jones@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 7-29-13	Phone: (575) 628-4121		

\* Attach Additional Sheets If Necessary