

# Closure Report

## ID#nMLB1101830357

### Site Description

Site Name:	NORTH INDIAN BASIN #15
Company:	Oxy USA, Inc.
Legal Description:	U /L F, S 2 , TS 21S ,R23E
County:	EDDY
GPS Coordinates:	32.51091 -104.56755

### Release Data

Date of Release:	7/20/2010
Type of Release:	PRODUCED WATER
Source of Release:	STEEL FLOWLINE (BURIED) CORRODED AND LEAKED
Volume of Release:	9 BBLS
Volume Recovered:	0 BBLS

### Remediation Specifications

Remediation Parameters:	This site is listed on the Agreed Compliance Order of 4/5/19. This site had previously been remediated but apparently no paperwork exists on the NMOCD website for closure verification. Therefore, OXY is submitting documentation that verifies remediation was conducted and completed per OCD approval.	
Remediation Activities:	Jul-11	

Plan Sent to OCD:		1/11/2011
OCD Approval of Plan:		1/14/2011
Plan Sent to BLM:		
BLM Approval of Plan:		

### Supporting Documentation

C-141, page 6	signed and included	
Site Diagram	included	
Pictures	Closure photos	
Lab Summary/Analysis	Confirmation lab summary/analysis report	6/1/2011,7/11/2011
Notifications		

### Request for Closure

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

Cliff P. Brunson  
President, BBC International, Inc.

10/11/2022

Form C-141

State of New Mexico  
Oil Conservation Division

Page 6

Incident ID	nMLB1101830357
District RP	
Facility ID	
Application ID	

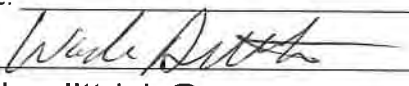
## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities


I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator  
Signature:  Date: 10-11-22  
email: wade\_dittrich@oxy.com Telephone: (575) 390-2828

**OCD Only**

Received by: OCD Date: 10/11/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 2/22/2023  
Printed Name: Ashley Maxwell Title: Environmental Specialist

**Bratcher, Mike, EMNRD**

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**From:** Bratcher, Mike, EMNRD  
**Sent:** Friday, January 14, 2011 4:22 PM  
**To:** 'Cliff P. Brunson'  
**Cc:** Kelton Beard; Ken Swinney; Jennifer Gilkey  
**Subject:** RE: Oxy MidCon-North Indian Basin Unit #15

Reference: OXY (OGRID# 16696) North Indian Basin Ut 015 \* 30-015-28305 \* F-2-21s-23e \* Eddy County, New Mexico

Cliff and Kelton,

The proposal for remediation of the produced fluids release that occurred on 7/20/2010, at or near the above referenced well site, is approved with the following conditions and/or stipulations:

- Notify the OCD District 2 Office 48 hours prior to commencement of remedial activities.
- In the event additional sampling is required, notify OCD 48 hours prior to obtaining samples.
- Submit a Form C-141 marked Final Report along with a closure report upon satisfactory completion of project.
- Project to completed and documentation filed with OCD not later than 3/14/2011.
- Like approval by BLM as may be applicable.

Be advised that OCD approval does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions and or concerns, please contact me.

**MIKE BRATCHER**

NMOCD District 2  
1301 W. Grand Ave.  
Artesia, NM 88210  
575-748-1283 Ext.108  
575-626-0857  
[mike\\_bratcher@state.nm.us](mailto:mike_bratcher@state.nm.us)

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**From:** Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Wednesday, January 12, 2011 3:32 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Kelton Beard; Ken Swinney; Jennifer Gilkey  
**Subject:** Oxy MidCon-North Indian Basin Unit #15

Mike,

This e-mail is to confirm our discussion yesterday, Jan. 11, 2010, concerning the remediation plan for the Oxy North Indian Basin Unit #15 release. I have attached the information that we reviewed together.

As you recall, Oxy proposed to backfill the open excavation trench with the spoils pile and then at the north end of the release in the area of sample points SP5, SP6, and SP7, a one foot excavation would be performed. The excavated soil will be disposed of at an OCD-approved facility and the site will be backfilled with clean soil.

Please respond back via e-mail with your concurrence and approval.

Thanks, Cliff

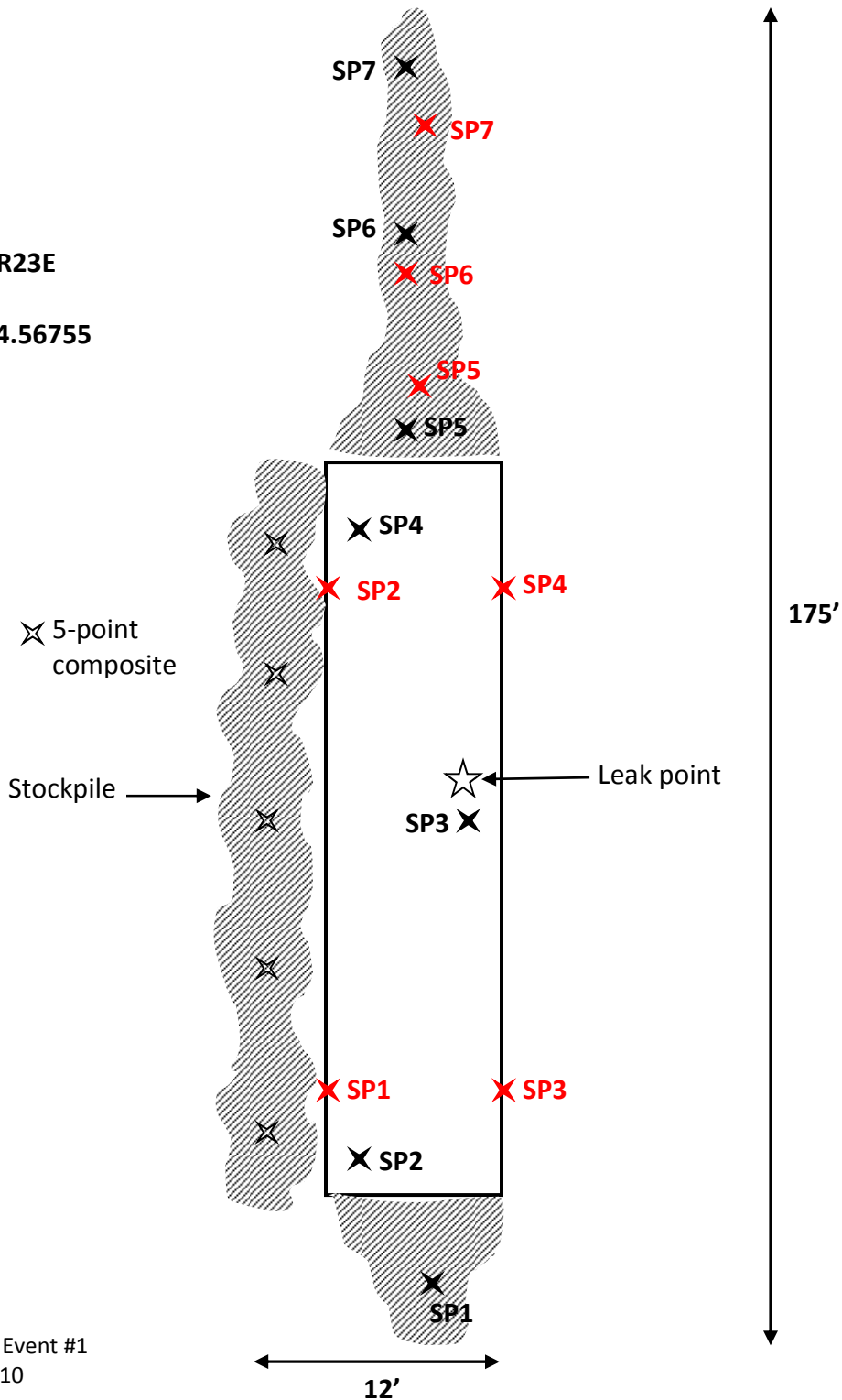
Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
Mailing Address:  
P. O. Box 805  
Hobbs, NM 88241-0805 USA  
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\*\*\*\*\*  
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\*\*\*\*\*

**Oxy**  
North Indian Basin Unit 15



UL F, Sec 2, T21S, R23E  
Eddy County, NM  
N 32.51091 W 104.56755



✕ Sampling Event #1  
12/23/2010

✕ Sampling Event #2  
06/01/2011

BBC International, Inc.	
Oxy	
North Indian Basin Unit 15	
Date: 09/20/11	DRWG by: KAP
Disk:	Sheet 1 of 1
Scale: Not to Scale	File Name: DRWG

**Laboratory Analytical Results Summary**  
**Oxy, North Indian Basin Unit 15**

		Sample	5-Point Composite
Analyte	Method	Date	12/23/10
			mg/Kg
Benzene	BTEX8021B		<0.100
Toluene	BTEX8021B		<0.100
Ethylbenzene	BTEX8021B		<0.100
Total Xylenes	BTEX8021B		<0.300
Chloride	SM4500CI-B		272
GRO	TPH8015M		<10.0
DRO	TPH8015M		<10.0

		Sample	SP1 @ SURFACE	SP1 @ 1'
Analyte	Method	Date	12/23/10	12/23/10
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		<16.0	<16.0

		Sample	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	12/23/10	12/23/10
			mg/Kg	mg/Kg
Benzene	BTEX8021B		N/A	<0.100
Toluene	BTEX8021B		N/A	<0.100
Ethylbenzene	BTEX8021B		N/A	<0.100
Total Xylenes	BTEX8021B		N/A	<0.300
Chloride	SM4500CI-B		32	144
GRO	TPH8015M		N/A	<10.0
DRO	TPH8015M		N/A	<10.0

		Sample	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	12/28/10	12/28/10
			mg/Kg	mg/Kg
Benzene	BTEX8021B		N/A	<0.100
Toluene	BTEX8021B		N/A	<0.100
Ethylbenzene	BTEX8021B		N/A	<0.100
Total Xylenes	BTEX8021B		N/A	<0.300
Chloride	SM4500CI-B		128	352
GRO	TPH8015M		N/A	<10.0
DRO	TPH8015M		N/A	<10.0

		Sample	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	12/28/10	12/28/10
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		64	256

		Sample	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	12/28/10	12/28/10	12/29/10
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX8021B		N/A	<0.050	<0.100
Toluene	BTEX8021B		N/A	<0.050	<0.100
Ethylbenzene	BTEX8021B		N/A	<0.050	<0.100
Total Xylenes	BTEX8021B		N/A	<0.150	<0.300
Chloride	SM4500CI-B		2720	144	112
GRO	TPH8015M		N/A	N/A	<10.0
DRO	TPH8015M		N/A	N/A	89.3

		Sample	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	12/29/10	12/28/10	12/29/10
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX8021B		N/A	<0.050	N/A
Toluene	BTEX8021B		N/A	<0.050	N/A
Ethylbenzene	BTEX8021B		N/A	<0.050	N/A
Total Xylenes	BTEX8021B		N/A	<0.150	N/A
Chloride	SM4500CI-B		1630	160	128

		Sample	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 3'
Analyte	Method	Date	12/29/10	12/28/10	12/29/10
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX8021B		N/A	<0.050	<0.100
Toluene	BTEX8021B		N/A	<0.050	<0.100
Ethylbenzene	BTEX8021B		N/A	<0.050	<0.100
Total Xylenes	BTEX8021B		N/A	<0.150	<0.300
Chloride	SM4500CI-B		544	368	112
GRO	TPH8015M		N/A	N/A	<10.0
DRO	TPH8015M		N/A	N/A	<10.0

**Laboratory Analytical Results Summary**  
**Oxy, North Indian Basin Unit 15**

		Sample	SP1 @ W WALL #1
Analyte	Method	Date	6/1/11
			mg/Kg
Benzene	BTEX8021B		<0.050
Toluene	BTEX8021B		0.059
Ethylbenzene	BTEX8021B		<0.050
Total Xylenes	BTEX8021B		<0.150
Chloride	SM4500CI-B		<16.0
GRO	TPH8015M		<10.0
DRO	TPH8015M		<10.0

		Sample	SP2 @ W WALL #2
Analyte	Method	Date	6/1/11
			mg/Kg
Benzene	BTEX8021B		<0.050
Toluene	BTEX8021B		<0.050
Ethylbenzene	BTEX8021B		<0.050
Total Xylenes	BTEX8021B		<0.150
Chloride	SM4500CI-B		2320
GRO	TPH8015M		<10.0
DRO	TPH8015M		<10.0

		Sample	SP3 @ E WALL #1
Analyte	Method	Date	6/1/11
			mg/Kg
Benzene	BTEX8021B		<0.050
Toluene	BTEX8021B		0.057
Ethylbenzene	BTEX8021B		<0.050
Total Xylenes	BTEX8021B		<0.150
Chloride	SM4500CI-B		<16.0
GRO	TPH8015M		<10.0
DRO	TPH8015M		<10.0

		Sample	SP4 @ E WALL #2
Analyte	Method	Date	6/1/11
			mg/Kg
Benzene	BTEX8021B		<0.050
Toluene	BTEX8021B		<0.050
Ethylbenzene	BTEX8021B		<0.050
Total Xylenes	BTEX8021B		0.211
Chloride	SM4500CI-B		592
GRO	TPH8015M		12.9
DRO	TPH8015M		56.1

		Sample	SP5 @ 1'
Analyte	Method	Date	6/1/11
			mg/Kg
Benzene	BTEX8021B		<0.050
Toluene	BTEX8021B		<0.050
Ethylbenzene	BTEX8021B		<0.050
Total Xylenes	BTEX8021B		<0.150
Chloride	SM4500CI-B		176
GRO	TPH8015M		<10.0
DRO	TPH8015M		<10.0

		Sample	SP6 @ 1'
Analyte	Method	Date	6/1/11
			mg/Kg
Benzene	BTEX8021B		<0.050
Toluene	BTEX8021B		<0.050
Ethylbenzene	BTEX8021B		<0.050
Total Xylenes	BTEX8021B		<0.150
Chloride	SM4500CI-B		192
GRO	TPH8015M		<10.0
DRO	TPH8015M		<10.0

		Sample	SP7 @ 1'
Analyte	Method	Date	6/1/11
			mg/Kg
Benzene	BTEX8021B		<0.050
Toluene	BTEX8021B		<0.050
Ethylbenzene	BTEX8021B		<0.050
Total Xylenes	BTEX8021B		<0.150
Chloride	SM4500CI-B		448
GRO	TPH8015M		<10.0
DRO	TPH8015M		<10.0

		Sample	SP2 @ W WALL
Analyte	Method	Date	7/11/11
			mg/Kg
Chloride	SM4500CI-B		208



## OXY – NORTH INDAIN BASIN





## OXY – NORTH INDAIN BASIN





## OXY – NORTH INDAIN BASIN





OXY – NORTH INDAIN BASIN





## OXY – NORTH INDAIN BASIN





## OXY – NORTH INDAIN BASIN





## OXY – NORTH INDAIN BASIN





## OXY – NORTH INDAIN BASIN





OXY – NORTH INDAIN BASIN





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

June 08, 2011

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NORTH INDIAN BASIN UNIT #15

Enclosed are the results of analyses for samples received by the laboratory on 06/01/11 16:40.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (505) 397-0397

Received:	06/01/2011	Sampling Date:	06/01/2011
Reported:	06/08/2011	Sampling Type:	Soil
Project Name:	NORTH INDIAN BASIN UNIT #15	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 1 @ W WALL #1 (H101129-01)**

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2011	ND	1.94	96.8	2.00	4.92	
<b>Toluene*</b>	<b>0.059</b>	0.050	06/03/2011	ND	1.92	96.1	2.00	5.37	
Ethylbenzene*	<0.050	0.050	06/03/2011	ND	1.90	95.0	2.00	8.08	
Total Xylenes*	<0.150	0.150	06/03/2011	ND	5.60	93.3	6.00	8.04	

Surrogate: 4-Bromofluorobenzene (PIL) 92.9 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/02/2011	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/03/2011	ND	190	94.8	200	4.55	
DRO >C10-C28	<10.0	10.0	06/03/2011	ND	153	76.3	200	8.70	

Surrogate: 1-Chlorooctane 139 % 70-130

Surrogate: 1-Chlorooctadecane 138 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (505) 397-0397

Received:	06/01/2011	Sampling Date:	06/01/2011
Reported:	06/08/2011	Sampling Type:	Soil
Project Name:	NORTH INDIAN BASIN UNIT #15	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 2 @ W WALL #2 (H101129-02)**

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2011	ND	1.94	96.8	2.00	4.92	
Toluene*	<0.050	0.050	06/03/2011	ND	1.92	96.1	2.00	5.37	
Ethylbenzene*	<0.050	0.050	06/03/2011	ND	1.90	95.0	2.00	8.08	
Total Xylenes*	<0.150	0.150	06/03/2011	ND	5.60	93.3	6.00	8.04	

Surrogate: 4-Bromofluorobenzene (PIL) 94.2 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	06/02/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/03/2011	ND	190	94.8	200	4.55	
DRO >C10-C28	<10.0	10.0	06/03/2011	ND	153	76.3	200	8.70	

Surrogate: 1-Chlorooctane 141 % 70-130

Surrogate: 1-Chlorooctadecane 134 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (505) 397-0397

Received:	06/01/2011	Sampling Date:	06/01/2011
Reported:	06/08/2011	Sampling Type:	Soil
Project Name:	NORTH INDIAN BASIN UNIT #15	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 3 @ E WALL #1 (H101129-03)**

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2011	ND	1.94	96.8	2.00	4.92	
Toluene*	0.057	0.050	06/03/2011	ND	1.92	96.1	2.00	5.37	
Ethylbenzene*	<0.050	0.050	06/03/2011	ND	1.90	95.0	2.00	8.08	
Total Xylenes*	<0.150	0.150	06/03/2011	ND	5.60	93.3	6.00	8.04	

Surrogate: 4-Bromofluorobenzene (PIL) 93.3 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/02/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/03/2011	ND	190	94.8	200	4.55	
DRO >C10-C28	<10.0	10.0	06/03/2011	ND	153	76.3	200	8.70	

Surrogate: 1-Chlorooctane 130 % 70-130

Surrogate: 1-Chlorooctadecane 127 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (505) 397-0397

Received:	06/01/2011	Sampling Date:	06/01/2011
Reported:	06/08/2011	Sampling Type:	Soil
Project Name:	NORTH INDIAN BASIN UNIT #15	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 4 @ E WALL #2 (H101129-04)**

BTEx 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2011	ND	1.94	96.8	2.00	4.92	
Toluene*	<0.050	0.050	06/03/2011	ND	1.92	96.1	2.00	5.37	
Ethylbenzene*	<0.050	0.050	06/03/2011	ND	1.90	95.0	2.00	8.08	
Total Xylenes*	0.211	0.150	06/03/2011	ND	5.60	93.3	6.00	8.04	

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	06/02/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12.9	10.0	06/03/2011	ND	190	94.8	200	4.55	
DRO >C10-C28	56.1	10.0	06/03/2011	ND	153	76.3	200	8.70	

Surrogate: 1-Chlorooctane 133 % 70-130

Surrogate: 1-Chlorooctadecane 129 % 70-130

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\*=Accredited Analyte

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**Analytical Results For:**

BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (505) 397-0397

Received:	06/01/2011	Sampling Date:	06/01/2011
Reported:	06/08/2011	Sampling Type:	Soil
Project Name:	NORTH INDIAN BASIN UNIT #15	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 5 @ 1 FT (H101129-05)**

BTEx 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2011	ND	1.94	96.8	2.00	4.92	
Toluene*	<0.050	0.050	06/03/2011	ND	1.92	96.1	2.00	5.37	
Ethylbenzene*	<0.050	0.050	06/03/2011	ND	1.90	95.0	2.00	8.08	
Total Xylenes*	<0.150	0.150	06/03/2011	ND	5.60	93.3	6.00	8.04	

Surrogate: 4-Bromofluorobenzene (PIL) 93.3 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	06/02/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/03/2011	ND	190	94.8	200	4.55	
DRO >C10-C28	<10.0	10.0	06/03/2011	ND	153	76.3	200	8.70	

Surrogate: 1-Chlorooctane 136 % 70-130

Surrogate: 1-Chlorooctadecane 132 % 70-130

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (505) 397-0397

Received:	06/01/2011	Sampling Date:	06/01/2011
Reported:	06/08/2011	Sampling Type:	Soil
Project Name:	NORTH INDIAN BASIN UNIT #15	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 6 @ 1 FT (H101129-06)**

BTEx 8021B			mg/kg							
			Analyzed By: CMS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/03/2011	ND	1.94	96.8	2.00	4.92		
Toluene*	<0.050	0.050	06/03/2011	ND	1.92	96.1	2.00	5.37		
Ethylbenzene*	<0.050	0.050	06/03/2011	ND	1.90	95.0	2.00	8.08		
Total Xylenes*	<0.150	0.150	06/03/2011	ND	5.60	93.3	6.00	8.04		

Surrogate: 4-Bromofluorobenzene (PIL) 94.4 % 70-130

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	06/02/2011	ND	432	108	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: AB							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/04/2011	ND	190	94.8	200	4.55		
DRO >C10-C28	<10.0	10.0	06/04/2011	ND	153	76.3	200	8.70		

Surrogate: 1-Chlorooctane 129 % 70-130

Surrogate: 1-Chlorooctadecane 130 % 70-130

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (505) 397-0397

Received:	06/01/2011	Sampling Date:	06/01/2011
Reported:	06/08/2011	Sampling Type:	Soil
Project Name:	NORTH INDIAN BASIN UNIT #15	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 7 @ 1 FT (H101129-07)**

BTEx 8021B			mg/kg							
			Analyzed By: CMS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/03/2011	ND	1.94	96.8	2.00	4.92		
Toluene*	<0.050	0.050	06/03/2011	ND	1.92	96.1	2.00	5.37		
Ethylbenzene*	<0.050	0.050	06/03/2011	ND	1.90	95.0	2.00	8.08		
Total Xylenes*	<0.150	0.150	06/03/2011	ND	5.60	93.3	6.00	8.04		

Surrogate: 4-Bromofluorobenzene (PIL) 93.8 % 70-130

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	06/02/2011	ND	432	108	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: AB							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/04/2011	ND	190	94.8	200	4.55		
DRO >C10-C28	<10.0	10.0	06/04/2011	ND	153	76.3	200	8.70		

Surrogate: 1-Chlorooctane 145 % 70-130

Surrogate: 1-Chlorooctadecane 142 % 70-130

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### Notes and Definitions

Z-01	One or more surrogates above historical limits.
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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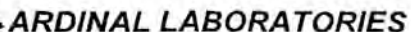
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A handwritten signature in black ink, reading "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: <i>[Signature]</i>		Date: <i>6-7-11</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <i>9:40</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		(Initials)	
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		<i>[Signature]</i>	

22



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

July 12, 2011

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NORTH INDIAN BASIN UNIT #15

Enclosed are the results of analyses for samples received by the laboratory on 07/11/11 17:09.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (505) 397-0397

Received:	07/11/2011	Sampling Date:	07/11/2011
Reported:	07/12/2011	Sampling Type:	Soil
Project Name:	NORTH INDIAN BASIN UNIT #15	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 2 @ WEST WALL (H101424-01)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>208</b>	16.0	07/12/2011	ND	432	108	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager



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### 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

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

**District I**  
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**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS  
  
Action 150274

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 150274
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/22/2023