

# Closure Report

## Site Description

Site Name:	Indian Hills State Well #3
Company:	Oxy Permian Ltd.
Legal Description:	U/L D, Section 36, T20S, R24E
County:	Eddy County, NM
GPS Coordinates:	N 32.53572° W 104.54790°

## Release Data

Date of Release:	02/04/2011
Type of Release:	Oil
Source of Release:	Steel line
Volume of Release:	100 bbls
Volume Recovered:	80 bbls

## Remediation Specifications

Remediation Parameters:	Backfill the site and in 8-10 months from the backfill date, the site will be re-sampled at the same sample points and depths to determine if the hydrocarbons are either migrating downward or staying in place and concentration levels are decreasing.	
Remediation Activities:	08/04/2011 to 08/10/2011	
Plan Sent to OCD:	07/13/2011	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	07/14/2011	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	Not required	Not required
BLM Approval of Plan:	Not required	Not required

## Supporting Documentation

Initial C-141	Signed 02/15/2011 and received by OCD 02/25/2011
Final C-141	Signed 08/29/2011
Site Diagram	September 2011
Groundwater Plot	175'-200'
TOPO Maps	September 2011
Lab Summary	06/01/2011 to 06/06/2011 and 09/27/2012 to 09/28/2012
Lab Analysis	06/01/2011 to 06/06/2011 and 09/27/2012 to 09/28/2012
Correspondence	Request and approval of remediation plan via email

## Request for Closure

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

Cliff Brunson, President of BBC International Inc.

03/29/2013

1025 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

Energy Minerals and Natural Resources

Form C-141  
Revised October 10, 2003

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

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 USA	Contact	Kelton Beaird
Address	1502 W. Commerce Carlsbad, NM 88220	Telephone No. (O)	575-628-4100
Facility Name	Indian Hills State Com # 3 Battery	Facility Type	Oil well

Surface Owner 1	Mineral Owner	Lease No. API #: 3001527168
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	36	20S	24E					Eddy

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	100 bbls	Volume Recovered	80
Source of Release	Steel line	Date and Hour of Occurrence		Date and Hour of Discovery	2-4-11 @ 8:00 am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher- Left Message		
By Whom?	Kelton Beaird- Oxy	Date and Hour	See above		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

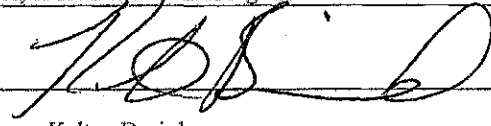
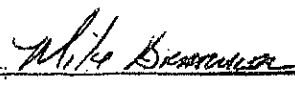
If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
line busted due to freezing temperatures.

Describe Area Affected and Cleanup Action Taken.\*

Area affected was all on location and contained inside the berms. Area will be delineated, and a clean-up plan will be submitted for approval.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Kelton Beaird	Approved by District Supervisor: 	
Title: HES Specialist	Approval Date: 3/9/11	Expiration Date:
E-mail Address: kelton_beaird@oxy.com	Conditions of Approval: Remediation per OCD Rules & Guidelines. <b>SUBMIT REMEDIATION</b> <b>PROPOSAL NOT LATER THAN:</b> 4/9/11	Attached <input type="checkbox"/>
Date: 2-15-11		

\* Attach Additional Sheets If Necessary

2RP-630

DISTRICT I  
1625N. 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 USA	Contact	Dusty Wilson
Address	1502 W. Commerce Carlsbad, NM 88220	Telephone No.	575-628-4100
Facility Name	Indian Hills State Com #3 Battery	Facility Type	Oil Well
Surface Owner	Mineral Owner	Lease No.	

**LOCATION OF RELEASE API #30-015-27168**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	36	20S	24E					Eddy

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

Type of Release	Oil	Volume of Release	100 bbls	Volume Recovered	80 BBLS
Source of Release	Steel line	Date and Hour of Occurrence	2/4/11 08:00 A.M.		
Was Immediate Notice Given?	X <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required		If YES, To Whom?		
By Whom?			Mike Bratcher-left message		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Date and Hour See above		
		If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
Line busted due to freezing temperatures

Describe Area Affected and Cleanup Action Taken.\*  
Area affected was all on location and contained inside the berms. Delineation was conducted and an approved remediation plan was granted by the NMOCD. The site was backfilled and will be resampled in April 2012 to determine effectiveness of natural attenuation of hydrocarbons. The remediation was completed.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

**OIL CONSERVATION DIVISION**

Signature:

Printed Name: Dusty Wilson

Title: HES Specialist

E-mail Address: Dusty\_Wilson@oxy.com

Date: 8/29/11

Phone: 575-628-4100

Approved by District Supervisor: Bradford Billings (Santa Fe)

Approval Date: 10/28/2019

Expiration Date:

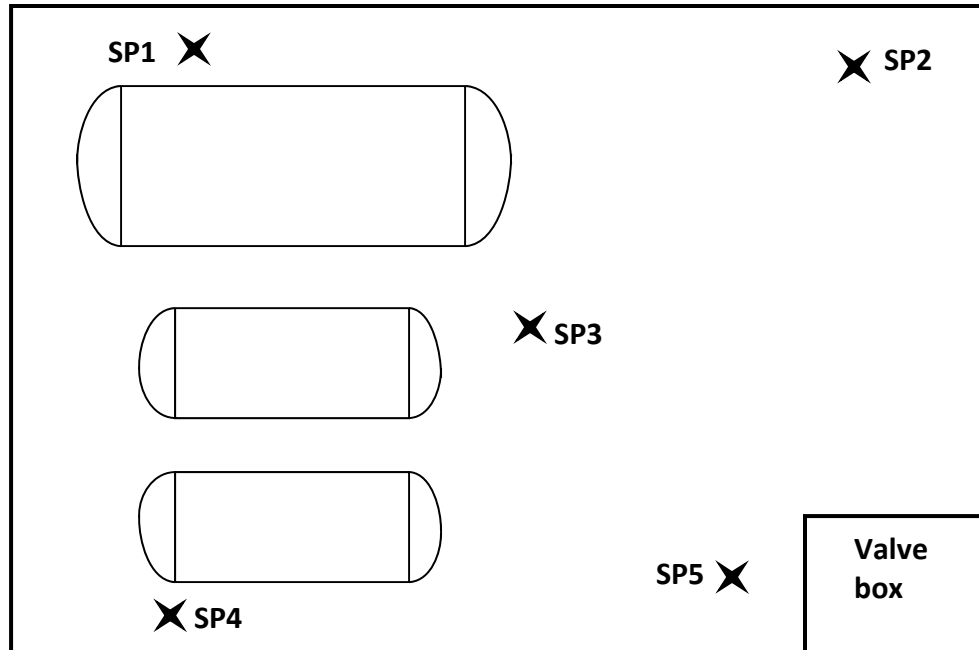
Conditions of Approval:

Attached ☐

\* Attach Additional Sheets If Necessary



**Oxy**  
Indian Hills State Well #3



UL D, Sec 36, T20S, R24E  
Eddy County, NM  
N 32.53572, W  
104.54790

<b>BBC International, Inc.</b>	
<b>Oxy</b> Indian Hills State Well #3	
Date: 09/20/11	DRWG by: KAP
Disk:	Sheet 1 of 1
Scale: Not to Scale	File Name: DRWG



# Groundwater Plot

## Oxy Indian Hills State Well #3

County  
Eddy

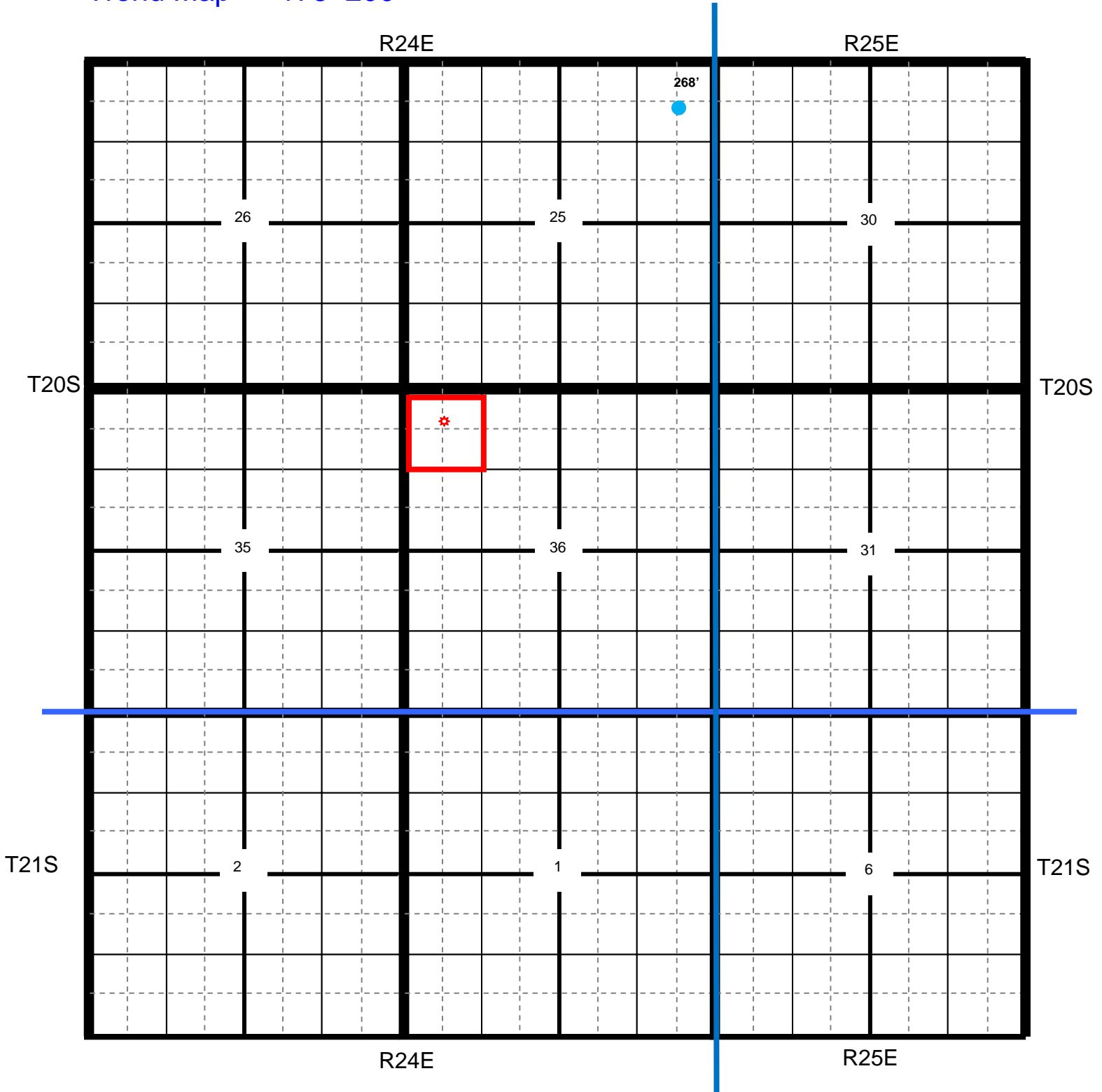
Unit Letter  
D

Section  
36

Township  
20S

Range  
24E

Trend Map 175'-200'



Location

OCD

USGS

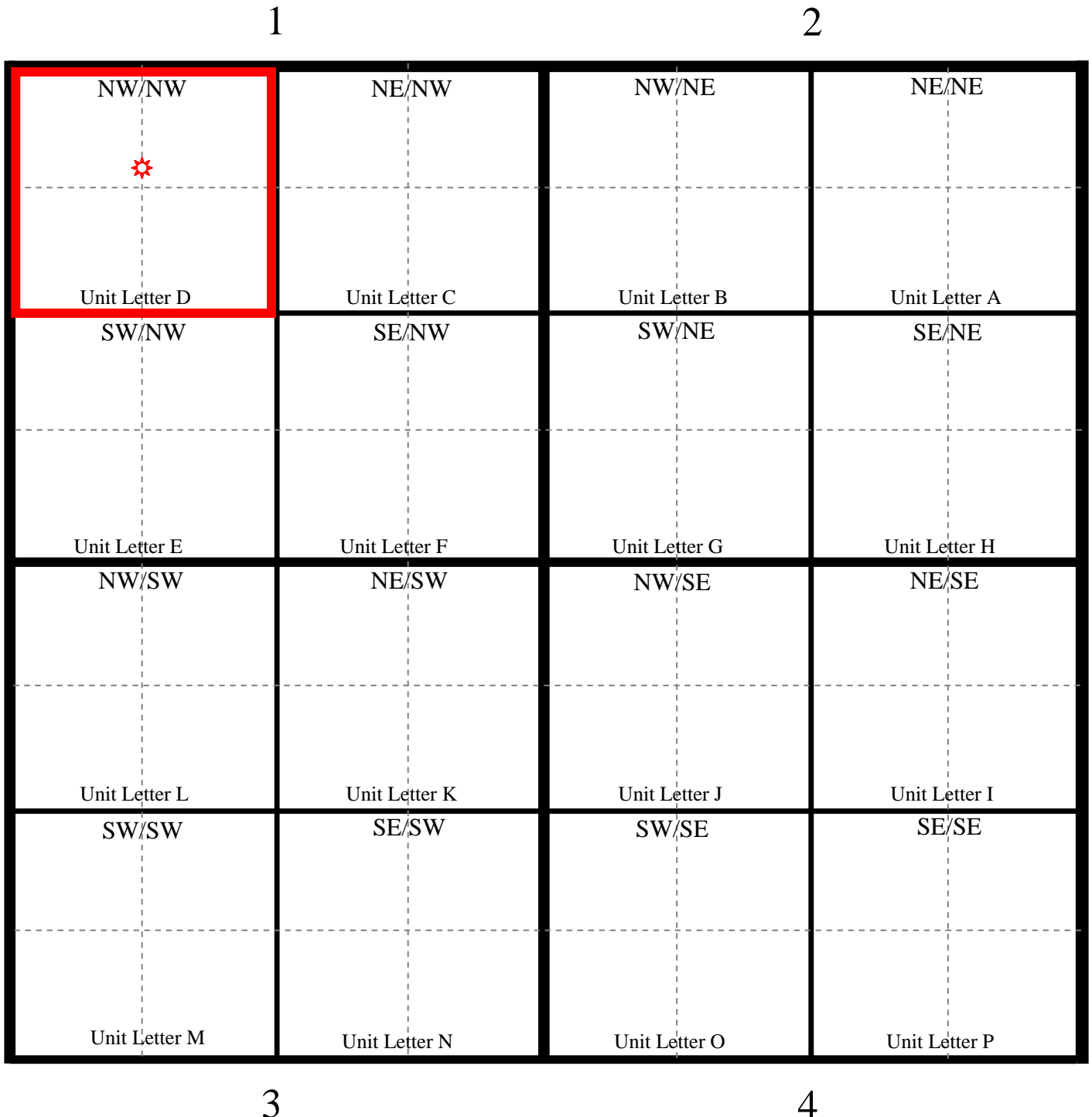
SEO

All Databases

## Oxy Indian Hills State Well #3

**County** Eddy      **Unit Letter** D      **Section** 36      **Township** 20S      **Range** 24E

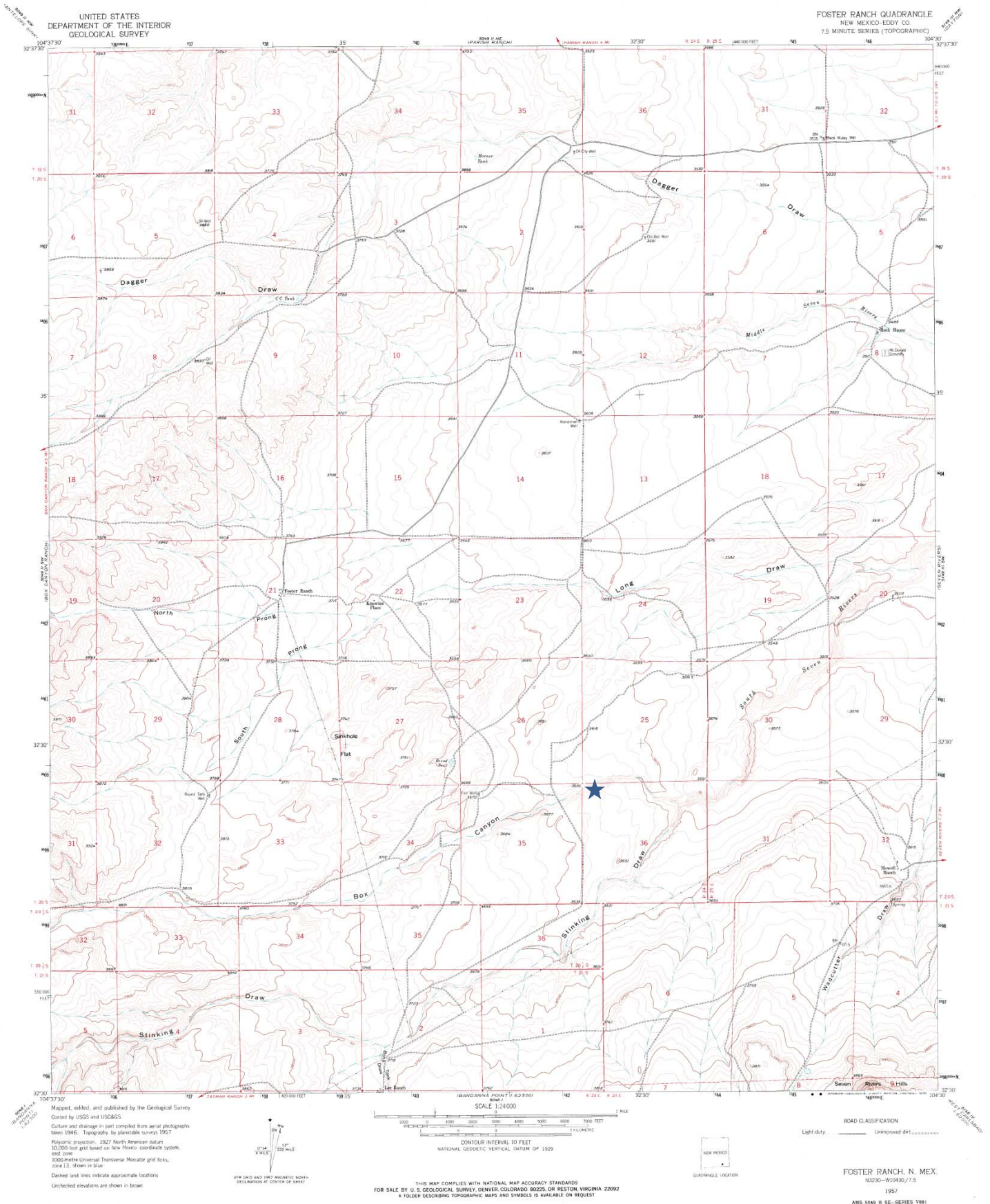
Trend Map 175'-200'





Oxy

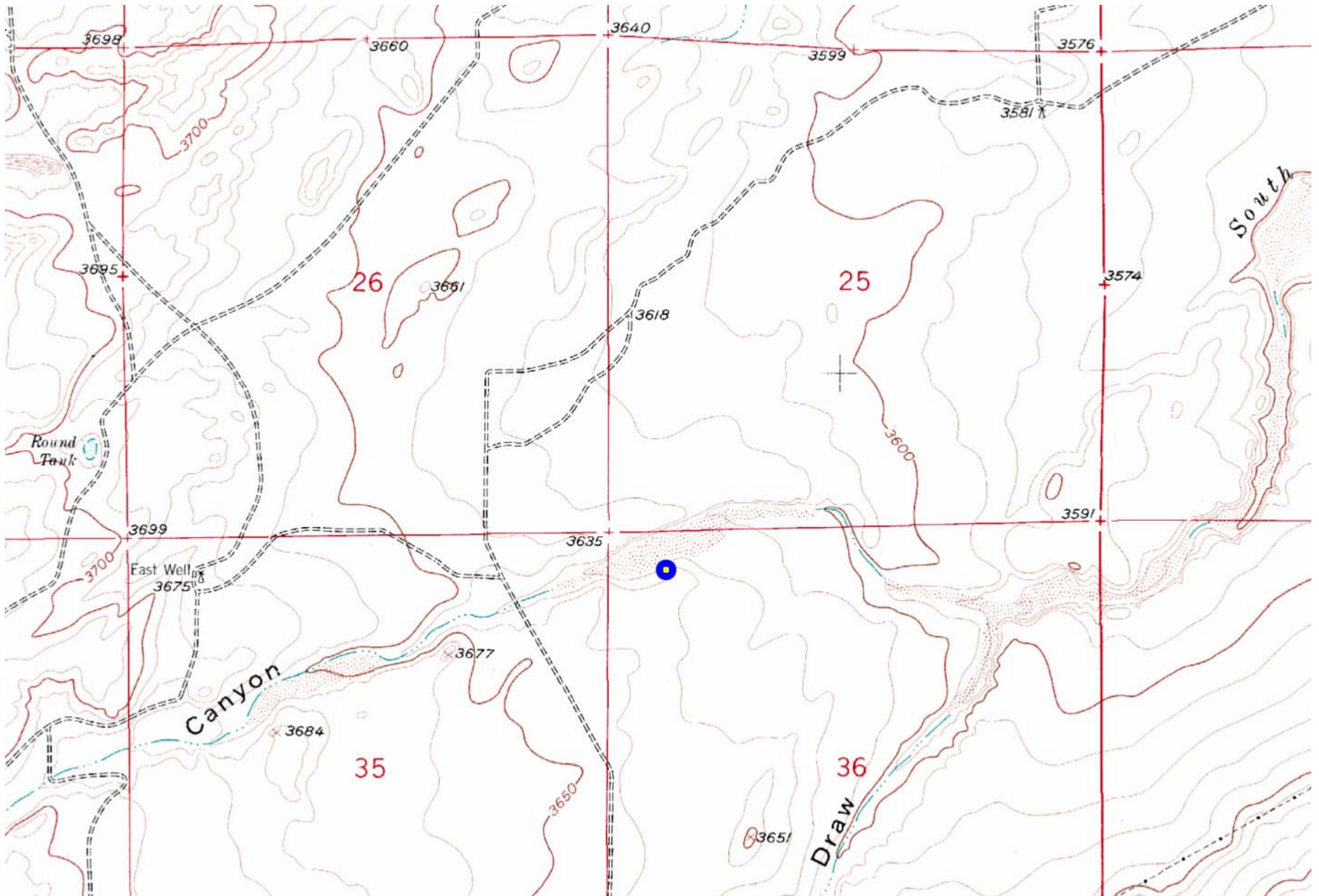
# Indian Hills State Well #3





Oxy

## Indian Hills State Well #3





**Laboratory Analytical Results Summary**  
**Oxy, Indian Hills State Well #3**

		Sample	SP1 @ 2'	SP1 @ 4'	SP1 @ 6'	SP1 @ 8'	SP1 @ 10'	SP1 @ 12'	SP1 @ 14'
Analyte	Method	Date	6/1/11	6/1/11	6/1/11	6/1/11	6/1/11	6/1/11	6/2/11
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX8021B		<1.00	<5.00	<5.00	<0.200	<0.050	<0.050	<1.00
Toluene	BTEX8021B		14.8	25.6	30.9	0.478	0.175	0.27	4.73
Ethylbenzene	BTEX8021B		2.57	<5.00	6.62	<0.200	<0.050	0.06	<1.00
Total Xylenes	BTEX8021B		31.4	60.1	73.6	1.03	0.315	0.521	7.71
Chloride	SM4500CI-B		32	N/A	N/A	N/A	N/A	N/A	16
GRO	TPH8015M		482	5570	8270	15.6	12	11.8	146
DRO	TPH8015M		18900	16700	26300	203	162	110	1120

		Sample	SP2 @ 2'	SP2 @ 4'	SP2 @ 6'	SP2 @ 8'	SP2 @ 10'	SP2 @ 12'	SP2 @ 14'	SP2 @ 16'	SP2 @ 18'
Analyte	Method	Date	6/2/11	6/2/11	6/2/11	6/2/11	6/2/11	6/2/11	6/2/11	6/2/11	6/2/11
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX8021B		<1.00	<1.00	<1.00	<0.050	0.11	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX8021B		14.7	9.2	9.27	0.184	2.05	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX8021B		3.27	2.42	3.08	<0.050	0.774	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX8021B		41.2	34.2	39.3	0.559	9.1	<0.150	<0.150	<0.150	<0.150
Chloride	SM4500CI-B		176	N/A	N/A	N/A	N/A	N/A	N/A	N/A	48
GRO	TPH8015M		1510	817	3520	<10.0	441	<10.0	<10.0	<10.0	<10.0
DRO	TPH8015M		17800	6950	19500	244	3760	<10.0	58.4	54.2	<10.0

		Sample	SP3 @ 2'	SP3 @ 4'	SP3 @ 6'	SP3 @ 8'	SP3 @ 10'	SP3 @ 12'	SP3 @ 14'	SP3 @ 16'	SP3 @ 18'
Analyte	Method	Date	6/2/11	6/2/11	6/2/11	6/2/11	6/2/11	6/2/11	6/2/11	6/2/11	6/2/11
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX8021B		<0.200	<0.050	<0.050	0.06	<0.050	<0.050	<0.050	<0.050	0.061
Toluene	BTEX8021B		3.1	0.74	4.47	0.146	<0.050	<0.050	<0.050	<0.050	0.555
Ethylbenzene	BTEX8021B		0.86	0.154	1.53	0.084	<0.050	<0.050	<0.050	<0.050	0.093
Total Xylenes	BTEX8021B		12.7	2.29	19.9	0.463	<0.150	<0.150	<0.150	<0.150	0.608
Chloride	SM4500CI-B		80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	608
GRO	TPH8015M		330	75	3550	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH8015M		9650	979	22000	<10.0	<10.0	<10.0	<10.0	24.5	89

		Sample	SP4 @ 2'	SP4 @ 4'	SP4 @ 5'
Analyte	Method	Date	6/3/11	6/3/11	6/3/11
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX8021B		<0.050	<0.050	<0.050
Toluene	BTEX8021B		0.099	<0.050	<0.050
Ethylbenzene	BTEX8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX8021B		0.355	<0.150	<0.150
Chloride	SM4500CI-B		400	N/A	272
GRO	TPH8015M		<10.0	<10.0	<10.0
DRO	TPH8015M		83.8	<10.0	<10.0

		Sample	SP5 @ 2'	SP5 @ 4'	SP5 @ 6'	SP5 @ 8'	SP5 @ 11'
Analyte	Method	Date	6/3/11	6/3/11	6/3/11	6/6/11	6/6/11
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX8021B		<0.050	0.532	0.186	<0.050	<0.050
Toluene	BTEX8021B		6.47	5.73	5.19	0.087	<0.050
Ethylbenzene	BTEX8021B		2.05	1.48	1.8	0.085	<0.050
Total Xylenes	BTEX8021B		35.3	17.3	22.6	0.92	<0.150
Chloride	SM4500CI-B		1230	688	256	64	160
GRO	TPH8015M		3250	1970	1130	<10.0	<10.0
DRO	TPH8015M		20500	11400	7370	216	<10.0

**Laboratory Analytical Results Summary**  
**OXY, Indian Hills State Well #3**

		Sample	SP1 @ 6'	SP1 @ 8'
Analyte	Method	Date	9/27/12	9/27/12
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>0.165</b>	<0.150
<b>Chloride</b>	SM4500Cl-B		<b>16</b>	<16.0
<b>GRO</b>	TPH 8015M		<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>195</b>	<b>119</b>

		Sample	SP2 @ 6'	SP2 @ 8'
Analyte	Method	Date	9/27/12	9/27/12
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.200	<0.200
<b>Toluene</b>	BTEX 8021B		<b>2.33</b>	<b>1.3</b>
<b>Ethylbenzene</b>	BTEX 8021B		<b>3.81</b>	<b>2.36</b>
<b>Total Xylenes</b>	BTEX 8021B		<b>16.8</b>	<b>12</b>
<b>Chloride</b>	SM4500Cl-B		<b>32</b>	<b>48</b>
<b>GRO</b>	TPH 8015M		<b>1260</b>	<b>1010</b>
<b>DRO</b>	TPH 8015M		<b>7890</b>	<b>6160</b>

		Sample	SP3 @ 6'	SP3 @ 8'
Analyte	Method	Date	9/28/12	9/28/12
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.200
<b>Toluene</b>	BTEX 8021B		<0.050	<b>0.468</b>
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<b>1.03</b>
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<b>6.92</b>
<b>Chloride</b>	SM4500Cl-B		<b>592</b>	<b>480</b>
<b>GRO</b>	TPH 8015M		<10.0	<b>99.6</b>
<b>DRO</b>	TPH 8015M		<b>46.1</b>	<b>523</b>

		Sample	SP4 @ 6'	SP4 @ 8'
Analyte	Method	Date	9/28/12	9/28/12
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.200	<0.050
<b>Toluene</b>	BTEX 8021B		<b>4.24</b>	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>4.65</b>	<b>0.061</b>
<b>Total Xylenes</b>	BTEX 8021B		<b>21.4</b>	<b>0.231</b>
<b>Chloride</b>	SM4500Cl-B		<b>240</b>	<b>112</b>
<b>GRO</b>	TPH 8015M		<b>298</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>1310</b>	<b>80.6</b>

		Sample	SP5 @ 6'	SP5 @ 8'
Analyte	Method	Date	9/28/12	9/28/12
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.200	<b>0.223</b>
<b>Toluene</b>	BTEX 8021B		<b>1.13</b>	0.808
<b>Ethylbenzene</b>	BTEX 8021B		<b>1.86</b>	<b>0.143</b>
<b>Total Xylenes</b>	BTEX 8021B		<b>7.89</b>	<b>0.558</b>
<b>Chloride</b>	SM4500Cl-B		<b>128</b>	<b>96</b>
<b>GRO</b>	TPH 8015M		<b>300</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>1970</b>	<b>12.8</b>

June 14, 2011

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: INDIAN HILLS STATE WELL #3

Enclosed are the results of analyses for samples received by the laboratory on 06/08/11 13:55.

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,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	06/08/2011	Sampling Date:	06/01/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 1 @ 2' (H101185-01)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	06/10/2011	ND	1.69	84.7	2.00	16.3	
<b>Toluene*</b>	<b>14.8</b>	1.00	06/10/2011	ND	1.75	87.6	2.00	12.5	
<b>Ethylbenzene*</b>	<b>2.57</b>	1.00	06/10/2011	ND	1.87	93.3	2.00	9.10	
<b>Total Xylenes*</b>	<b>31.4</b>	3.00	06/10/2011	ND	5.59	93.1	6.00	7.81	

Surrogate: 4-Bromofluorobenzene (PIL) 79.0 % 70-130

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>32.0</b>	16.0	06/10/2011	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>482</b>	100	06/13/2011	ND	180	89.9	200	1.10		
<b>DRO &gt;C10-C28</b>	<b>18900</b>	100	06/13/2011	ND	207	103	200	2.50		

Surrogate: 1-Chlorooctane 132 % 70-130

Surrogate: 1-Chlorooctadecane 80.8 % 70-130

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	06/08/2011	Sampling Date:	06/01/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 1 @ 4' (H101185-02)**

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	06/10/2011	ND	1.69	84.7	2.00	16.3	
Toluene*	25.6	5.00	06/10/2011	ND	1.75	87.6	2.00	12.5	
Ethylbenzene*	<5.00	5.00	06/10/2011	ND	1.87	93.3	2.00	9.10	
Total Xylenes*	60.1	15.0	06/10/2011	ND	5.59	93.1	6.00	7.81	

Surrogate: 4-Bromofluorobenzene (PIL) 75.7 % 70-130

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	5570	50.0	06/12/2011	ND	232	116	200	18.2	
DRO >C10-C28	16700	50.0	06/12/2011	ND	247	123	200	19.6	

Surrogate: 1-Chlorooctane 123 % 70-130

Surrogate: 1-Chlorooctadecane 182 % 70-130

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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: (505) 397-0397

Received:	06/08/2011	Sampling Date:	06/01/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 1 @ 6' (H101185-03)**

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	06/10/2011	ND	1.69	84.7	2.00	16.3	
<b>Toluene*</b>	<b>30.9</b>	5.00	06/10/2011	ND	1.75	87.6	2.00	12.5	
<b>Ethylbenzene*</b>	<b>6.62</b>	5.00	06/10/2011	ND	1.87	93.3	2.00	9.10	
<b>Total Xylenes*</b>	<b>73.6</b>	15.0	06/10/2011	ND	5.59	93.1	6.00	7.81	

Surrogate: 4-Bromofluorobenzene (PIL) 71.8 % 70-130

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>8270</b>	50.0	06/12/2011	ND	232	116	200	18.2	
<b>DRO &gt;C10-C28</b>	<b>26300</b>	50.0	06/12/2011	ND	247	123	200	19.6	

Surrogate: 1-Chlorooctane 165 % 70-130

Surrogate: 1-Chlorooctadecane 319 % 70-130

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Cliff Brunson  
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Hobbs NM, 88241  
Fax To: (505) 397-0397

Received:	06/08/2011	Sampling Date:	06/01/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 1 @ 8' (H101185-04)**

BTEx 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	06/10/2011	ND	1.69	84.7	2.00	16.3		
<b>Toluene*</b>	<b>0.478</b>	0.200	06/10/2011	ND	1.75	87.6	2.00	12.5		
Ethylbenzene*	<0.200	0.200	06/10/2011	ND	1.87	93.3	2.00	9.10		
<b>Total Xylenes*</b>	<b>1.03</b>	0.600	06/10/2011	ND	5.59	93.1	6.00	7.81		

Surrogate: 4-Bromofluorobenzene (PIL) 89.8 % 70-130

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>15.6</b>	10.0	06/12/2011	ND	232	116	200	18.2		
<b>DRO &gt;C10-C28</b>	<b>203</b>	10.0	06/12/2011	ND	247	123	200	19.6		

Surrogate: 1-Chlorooctane 103 % 70-130

Surrogate: 1-Chlorooctadecane 118 % 70-130

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Hobbs NM, 88241  
Fax To: (505) 397-0397

Received:	06/08/2011	Sampling Date:	06/01/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 1 @ 10' (H101185-05)**

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	06/09/2011	ND	1.69	84.7	2.00	16.3		
<b>Toluene*</b>	<b>0.175</b>	0.050	06/09/2011	ND	1.75	87.6	2.00	12.5		
Ethylbenzene*	<0.050	0.050	06/09/2011	ND	1.87	93.3	2.00	9.10		
<b>Total Xylenes*</b>	<b>0.315</b>	0.150	06/09/2011	ND	5.59	93.1	6.00	7.81		

Surrogate: 4-Bromofluorobenzene (PIL) 87.2 % 70-130

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>12.0</b>	10.0	06/12/2011	ND	232	116	200	18.2		
<b>DRO &gt;C10-C28</b>	<b>162</b>	10.0	06/12/2011	ND	247	123	200	19.6		

Surrogate: 1-Chlorooctane 334 % 70-130

Surrogate: 1-Chlorooctadecane 400 % 70-130

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Fax To: (505) 397-0397

Received:	06/08/2011	Sampling Date:	06/01/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 1 @ 12' (H101185-06)**

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	06/09/2011	ND	1.69	84.7	2.00	16.3	
Toluene*	<b>0.270</b>	0.050	06/09/2011	ND	1.75	87.6	2.00	12.5	
Ethylbenzene*	<b>0.060</b>	0.050	06/09/2011	ND	1.87	93.3	2.00	9.10	
Total Xylenes*	<b>0.521</b>	0.150	06/09/2011	ND	5.59	93.1	6.00	7.81	

Surrogate: 4-Bromofluorobenzene (PIL) 73.6 % 70-130

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>11.8</b>	10.0	06/12/2011	ND	232	116	200	18.2	
DRO >C10-C28	<b>110</b>	10.0	06/12/2011	ND	247	123	200	19.6	

Surrogate: 1-Chlorooctane 107 % 70-130

Surrogate: 1-Chlorooctadecane 116 % 70-130

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Received:	06/08/2011	Sampling Date:	06/02/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 1 @ 14' (H101185-07)**

BTEx 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	06/10/2011	ND	1.69	84.7	2.00	16.3	
Toluene*	4.73	1.00	06/10/2011	ND	1.75	87.6	2.00	12.5	
Ethylbenzene*	<1.00	1.00	06/10/2011	ND	1.87	93.3	2.00	9.10	
Total Xylenes*	7.71	3.00	06/10/2011	ND	5.59	93.1	6.00	7.81	

Surrogate: 4-Bromofluorobenzene (PIL) 78.0 % 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	06/10/2011	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	146	10.0	06/12/2011	ND	232	116	200	18.2	
DRO >C10-C28	1120	10.0	06/12/2011	ND	247	123	200	19.6	

Surrogate: 1-Chlorooctane 112 % 70-130

Surrogate: 1-Chlorooctadecane 108 % 70-130

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Hobbs NM, 88241  
Fax To: (505) 397-0397

Received:	06/08/2011	Sampling Date:	06/02/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 2 @ 2' (H101185-08)**

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	06/10/2011	ND	1.69	84.7	2.00	16.3	
Toluene*	14.7	1.00	06/10/2011	ND	1.75	87.6	2.00	12.5	
Ethylbenzene*	3.27	1.00	06/10/2011	ND	1.87	93.3	2.00	9.10	
Total Xylenes*	41.2	3.00	06/10/2011	ND	5.59	93.1	6.00	7.81	

Surrogate: 4-Bromofluorobenzene (PIL) 61.9 % 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	176	16.0	06/10/2011	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1510	100	06/13/2011	ND	232	116	200	18.2	
DRO >C10-C28	17800	100	06/13/2011	ND	247	123	200	19.6	

Surrogate: 1-Chlorooctane 127 % 70-130

Surrogate: 1-Chlorooctadecane 76.7 % 70-130

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P.O. Box 805  
Hobbs NM, 88241  
Fax To: (505) 397-0397

Received:	06/08/2011	Sampling Date:	06/02/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 2 @ 4' (H101185-09)**

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	06/10/2011	ND	1.69	84.7	2.00	16.3	
<b>Toluene*</b>	<b>9.20</b>	1.00	06/10/2011	ND	1.75	87.6	2.00	12.5	
<b>Ethylbenzene*</b>	<b>2.42</b>	1.00	06/10/2011	ND	1.87	93.3	2.00	9.10	
<b>Total Xylenes*</b>	<b>34.2</b>	3.00	06/10/2011	ND	5.59	93.1	6.00	7.81	

Surrogate: 4-Bromofluorobenzene (PIL) 77.3 % 70-130

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>817</b>	50.0	06/13/2011	ND	232	116	200	18.2	
<b>DRO &gt;C10-C28</b>	<b>6950</b>	50.0	06/13/2011	ND	247	123	200	19.6	

Surrogate: 1-Chlorooctane 91.1 % 70-130

Surrogate: 1-Chlorooctadecane 80.5 % 70-130

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P.O. Box 805  
Hobbs NM, 88241  
Fax To: (505) 397-0397

Received:	06/08/2011	Sampling Date:	06/02/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 2 @ 6' (H101185-10)**

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	06/10/2011	ND	1.69	84.7	2.00	16.3	
Toluene*	9.27	1.00	06/10/2011	ND	1.75	87.6	2.00	12.5	
Ethylbenzene*	3.08	1.00	06/10/2011	ND	1.87	93.3	2.00	9.10	
Total Xylenes*	39.3	3.00	06/10/2011	ND	5.59	93.1	6.00	7.81	

Surrogate: 4-Bromofluorobenzene (PIL) 71.4 % 70-130

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3520	50.0	06/12/2011	ND	232	116	200	18.2	
DRO >C10-C28	19500	50.0	06/12/2011	ND	247	123	200	19.6	

Surrogate: 1-Chlorooctane 166 % 70-130

Surrogate: 1-Chlorooctadecane 220 % 70-130

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Hobbs NM, 88241  
Fax To: (505) 397-0397

Received:	06/08/2011	Sampling Date:	06/02/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 2 @ 8' (H101185-11)**

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	06/09/2011	ND	1.69	84.7	2.00	16.3	
Toluene*	0.184	0.050	06/09/2011	ND	1.75	87.6	2.00	12.5	
Ethylbenzene*	<0.050	0.050	06/09/2011	ND	1.87	93.3	2.00	9.10	
Total Xylenes*	0.559	0.150	06/09/2011	ND	5.59	93.1	6.00	7.81	

Surrogate: 4-Bromofluorobenzene (PIL) 87.7 % 70-130

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/12/2011	ND	232	116	200	18.2	
DRO >C10-C28	244	10.0	06/12/2011	ND	247	123	200	19.6	

Surrogate: 1-Chlorooctane 104 % 70-130

Surrogate: 1-Chlorooctadecane 119 % 70-130

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Received:	06/08/2011	Sampling Date:	06/02/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 2 @ 10' (H101185-12)**

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.110	0.050	06/13/2011	ND	1.69	84.3	2.00	11.8	
Toluene*	2.05	0.050	06/13/2011	ND	1.92	95.8	2.00	9.95	
Ethylbenzene*	0.774	0.050	06/13/2011	ND	2.02	101	2.00	11.9	
Total Xylenes*	9.10	0.150	06/13/2011	ND	5.99	99.9	6.00	11.7	

Surrogate: 4-Bromofluorobenzene (PIL) 124 % 70-130

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	441	10.0	06/12/2011	ND	232	116	200	18.2	
DRO >C10-C28	3760	10.0	06/12/2011	ND	247	123	200	19.6	

Surrogate: 1-Chlorooctane 172 % 70-130

Surrogate: 1-Chlorooctadecane 168 % 70-130

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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: (505) 397-0397

Received:	06/08/2011	Sampling Date:	06/02/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 2 @ 12' (H101185-13)**

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	06/13/2011	ND	1.69	84.3	2.00	11.8		
Toluene*	<0.050	0.050	06/13/2011	ND	1.92	95.8	2.00	9.95		
Ethylbenzene*	<0.050	0.050	06/13/2011	ND	2.02	101	2.00	11.9		
Total Xylenes*	<0.150	0.150	06/13/2011	ND	5.99	99.9	6.00	11.7		

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 70-130

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/12/2011	ND	232	116	200	18.2		
DRO >C10-C28	<10.0	10.0	06/12/2011	ND	247	123	200	19.6		

Surrogate: 1-Chlorooctane 236 % 70-130

Surrogate: 1-Chlorooctadecane 268 % 70-130

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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:	06/08/2011	Sampling Date:	06/02/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 2 @ 14' (H101185-14)**

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	06/13/2011	ND	1.69	84.3	2.00	11.8	
Toluene*	<0.050	0.050	06/13/2011	ND	1.92	95.8	2.00	9.95	
Ethylbenzene*	<0.050	0.050	06/13/2011	ND	2.02	101	2.00	11.9	
Total Xylenes*	<0.150	0.150	06/13/2011	ND	5.99	99.9	6.00	11.7	

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 70-130

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/12/2011	ND	232	116	200	18.2	
DRO >C10-C28	58.4	10.0	06/12/2011	ND	247	123	200	19.6	

Surrogate: 1-Chlorooctane 137 % 70-130

Surrogate: 1-Chlorooctadecane 148 % 70-130

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**Analytical Results For:**

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

Received:	06/08/2011	Sampling Date:	06/02/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 2 @ 16' (H101185-15)**

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	06/13/2011	ND	1.69	84.3	2.00	11.8	
Toluene*	<0.050	0.050	06/13/2011	ND	1.92	95.8	2.00	9.95	
Ethylbenzene*	<0.050	0.050	06/13/2011	ND	2.02	101	2.00	11.9	
Total Xylenes*	<0.150	0.150	06/13/2011	ND	5.99	99.9	6.00	11.7	

Surrogate: 4-Bromofluorobenzene (PIL) 94.0 % 70-130

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/12/2011	ND	232	116	200	18.2	
DRO >C10-C28	54.2	10.0	06/12/2011	ND	247	123	200	19.6	

Surrogate: 1-Chlorooctane 231 % 70-130

Surrogate: 1-Chlorooctadecane 257 % 70-130

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

Received:	06/08/2011	Sampling Date:	06/02/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 2 @ 18' (H101185-16)**

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	06/13/2011	ND	1.69	84.3	2.00	11.8	
Toluene*	<0.050	0.050	06/13/2011	ND	1.92	95.8	2.00	9.95	
Ethylbenzene*	<0.050	0.050	06/13/2011	ND	2.02	101	2.00	11.9	
Total Xylenes*	<0.150	0.150	06/13/2011	ND	5.99	99.9	6.00	11.7	

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 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	48.0	16.0	06/10/2011	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/12/2011	ND	232	116	200	18.2	
DRO >C10-C28	<10.0	10.0	06/12/2011	ND	247	123	200	19.6	

Surrogate: 1-Chlorooctane 287 % 70-130

Surrogate: 1-Chlorooctadecane 321 % 70-130

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

Received:	06/08/2011	Sampling Date:	06/02/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 3 @ 2' (H101185-17)**

BTEx 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	06/13/2011	ND	1.69	84.3	2.00	11.8	
Toluene*	<b>3.10</b>	0.200	06/13/2011	ND	1.92	95.8	2.00	9.95	
Ethylbenzene*	<b>0.860</b>	0.200	06/13/2011	ND	2.02	101	2.00	11.9	
Total Xylenes*	<b>12.7</b>	0.600	06/13/2011	ND	5.99	99.9	6.00	11.7	

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 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	<b>80.0</b>	16.0	06/10/2011	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>330</b>	100	06/13/2011	ND	232	116	200	18.2	
DRO >C10-C28	<b>9650</b>	100	06/13/2011	ND	247	123	200	19.6	

Surrogate: 1-Chlorooctane 129 % 70-130

Surrogate: 1-Chlorooctadecane 89.1 % 70-130

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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:	06/08/2011	Sampling Date:	06/02/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 3 @ 4' (H101185-18)**

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	06/13/2011	ND	1.69	84.3	2.00	11.8	
Toluene*	0.740	0.050	06/13/2011	ND	1.92	95.8	2.00	9.95	
Ethylbenzene*	0.154	0.050	06/13/2011	ND	2.02	101	2.00	11.9	
Total Xylenes*	2.29	0.150	06/13/2011	ND	5.99	99.9	6.00	11.7	

Surrogate: 4-Bromofluorobenzene (PIL) 118 % 70-130

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	75.0	10.0	06/12/2011	ND	232	116	200	18.2	
DRO >C10-C28	979	10.0	06/12/2011	ND	247	123	200	19.6	

Surrogate: 1-Chlorooctane 131 % 70-130

Surrogate: 1-Chlorooctadecane 153 % 70-130

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

Received:	06/08/2011	Sampling Date:	06/02/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 3 @ 6' (H101185-19)**

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	06/13/2011	ND	1.69	84.3	2.00	11.8	
<b>Toluene*</b>	<b>4.47</b>	0.050	06/13/2011	ND	1.92	95.8	2.00	9.95	
<b>Ethylbenzene*</b>	<b>1.53</b>	0.050	06/13/2011	ND	2.02	101	2.00	11.9	
<b>Total Xylenes*</b>	<b>19.9</b>	0.150	06/13/2011	ND	5.99	99.9	6.00	11.7	

Surrogate: 4-Bromofluorobenzene (PIL) 92.6 % 70-130

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>3550</b>	50.0	06/12/2011	ND	232	116	200	18.2	
<b>DRO &gt;C10-C28</b>	<b>22000</b>	50.0	06/12/2011	ND	247	123	200	19.6	

Surrogate: 1-Chlorooctane 257 % 70-130

Surrogate: 1-Chlorooctadecane 297 % 70-130

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

Received:	06/08/2011	Sampling Date:	06/02/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 3 @ 8' (H101185-20)**

BTEx 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.060	0.050	06/13/2011	ND	1.69	84.3	2.00	11.8	
Toluene*	0.146	0.050	06/13/2011	ND	1.92	95.8	2.00	9.95	
Ethylbenzene*	0.084	0.050	06/13/2011	ND	2.02	101	2.00	11.9	
Total Xylenes*	0.463	0.150	06/13/2011	ND	5.99	99.9	6.00	11.7	

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

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/13/2011	ND	232	116	200	18.2	
DRO >C10-C28	<10.0	10.0	06/13/2011	ND	247	123	200	19.6	

Surrogate: 1-Chlorooctane 246 % 70-130

Surrogate: 1-Chlorooctadecane 275 % 70-130

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

Received:	06/08/2011	Sampling Date:	06/02/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 3 @ 10' (H101185-21)**

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	06/13/2011	ND	1.69	84.3	2.00	11.8	
Toluene*	<0.050	0.050	06/13/2011	ND	1.92	95.8	2.00	9.95	
Ethylbenzene*	<0.050	0.050	06/13/2011	ND	2.02	101	2.00	11.9	
Total Xylenes*	<0.150	0.150	06/13/2011	ND	5.99	99.9	6.00	11.7	

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 70-130

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/13/2011	ND	232	116	200	18.2	
DRO >C10-C28	<10.0	10.0	06/13/2011	ND	247	123	200	19.6	

Surrogate: 1-Chlorooctane 155 % 70-130

Surrogate: 1-Chlorooctadecane 171 % 70-130

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Hobbs NM, 88241  
Fax To: (505) 397-0397

Received:	06/08/2011	Sampling Date:	06/02/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 3 @ 12' (H101185-22)**

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	06/13/2011	ND	1.69	84.3	2.00	11.8		
Toluene*	<0.050	0.050	06/13/2011	ND	1.92	95.8	2.00	9.95		
Ethylbenzene*	<0.050	0.050	06/13/2011	ND	2.02	101	2.00	11.9		
Total Xylenes*	<0.150	0.150	06/13/2011	ND	5.99	99.9	6.00	11.7		

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 70-130

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	06/12/2011	ND	224	112	200	12.3		
DRO >C10-C28	<10.0	10.0	06/12/2011	ND	206	103	200	13.9		

Surrogate: 1-Chlorooctane 153 % 70-130

Surrogate: 1-Chlorooctadecane 169 % 70-130

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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: (505) 397-0397

Received:	06/08/2011	Sampling Date:	06/02/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 3 @ 14' (H101185-23)**

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	06/13/2011	ND	1.69	84.3	2.00	11.8		
Toluene*	<0.050	0.050	06/13/2011	ND	1.92	95.8	2.00	9.95		
Ethylbenzene*	<0.050	0.050	06/13/2011	ND	2.02	101	2.00	11.9		
Total Xylenes*	<0.150	0.150	06/13/2011	ND	5.99	99.9	6.00	11.7		

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 70-130

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	06/12/2011	ND	224	112	200	12.3		
DRO >C10-C28	<10.0	10.0	06/12/2011	ND	206	103	200	13.9		

Surrogate: 1-Chlorooctane 168 % 70-130

Surrogate: 1-Chlorooctadecane 182 % 70-130

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

Received:	06/08/2011	Sampling Date:	06/02/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 3 @ 16' (H101185-24)**

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	06/13/2011	ND	1.69	84.3	2.00	11.8		
Toluene*	<0.050	0.050	06/13/2011	ND	1.92	95.8	2.00	9.95		
Ethylbenzene*	<0.050	0.050	06/13/2011	ND	2.02	101	2.00	11.9		
Total Xylenes*	<0.150	0.150	06/13/2011	ND	5.99	99.9	6.00	11.7		

Surrogate: 4-Bromofluorobenzene (PIL) 96.4 % 70-130

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	06/12/2011	ND	224	112	200	12.3		
DRO >C10-C28	24.5	10.0	06/12/2011	ND	206	103	200	13.9		

Surrogate: 1-Chlorooctane 160 % 70-130

Surrogate: 1-Chlorooctadecane 176 % 70-130

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

Received:	06/08/2011	Sampling Date:	06/02/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 3 @ 18' (H101185-25)**

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.061</b>	0.050	06/13/2011	ND	1.69	84.3	2.00	11.8	
<b>Toluene*</b>	<b>0.555</b>	0.050	06/13/2011	ND	1.92	95.8	2.00	9.95	
<b>Ethylbenzene*</b>	<b>0.093</b>	0.050	06/13/2011	ND	2.02	101	2.00	11.9	
<b>Total Xylenes*</b>	<b>0.608</b>	0.150	06/13/2011	ND	5.99	99.9	6.00	11.7	

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 70-130

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>608</b>	16.0	06/10/2011	ND	448	112	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	06/12/2011	ND	224	112	200	12.3	
<b>DRO &gt;C10-C28</b>	<b>89.0</b>	10.0	06/12/2011	ND	206	103	200	13.9	

Surrogate: 1-Chlorooctane 135 % 70-130

Surrogate: 1-Chlorooctadecane 144 % 70-130

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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: (505) 397-0397

Received:	06/08/2011	Sampling Date:	06/03/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 4 @ 2' (H101185-26)**

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	06/13/2011	ND	1.69	84.3	2.00	11.8	
Toluene*	0.099	0.050	06/13/2011	ND	1.92	95.8	2.00	9.95	
Ethylbenzene*	<0.050	0.050	06/13/2011	ND	2.02	101	2.00	11.9	
Total Xylenes*	0.355	0.150	06/13/2011	ND	5.99	99.9	6.00	11.7	

Surrogate: 4-Bromofluorobenzene (PIL) 98.8 % 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	400	16.0	06/10/2011	ND	448	112	400	3.64		

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	06/12/2011	ND	224	112	200	12.3	
DRO >C10-C28	83.8	10.0	06/12/2011	ND	206	103	200	13.9	

Surrogate: 1-Chlorooctane 129 % 70-130

Surrogate: 1-Chlorooctadecane 137 % 70-130

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

Received:	06/08/2011	Sampling Date:	06/03/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 4 @ 4' (H101185-27)**

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	06/13/2011	ND	1.69	84.3	2.00	11.8		
Toluene*	<0.050	0.050	06/13/2011	ND	1.92	95.8	2.00	9.95		
Ethylbenzene*	<0.050	0.050	06/13/2011	ND	2.02	101	2.00	11.9		
Total Xylenes*	<0.150	0.150	06/13/2011	ND	5.99	99.9	6.00	11.7		

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 70-130

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	06/12/2011	ND	224	112	200	12.3		
DRO >C10-C28	<10.0	10.0	06/12/2011	ND	206	103	200	13.9		

Surrogate: 1-Chlorooctane 145 % 70-130

Surrogate: 1-Chlorooctadecane 157 % 70-130

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

Received:	06/08/2011	Sampling Date:	06/03/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 4 @ 5' (H101185-28)**

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	06/13/2011	ND	1.69	84.3	2.00	11.8	
Toluene*	<0.050	0.050	06/13/2011	ND	1.92	95.8	2.00	9.95	
Ethylbenzene*	<0.050	0.050	06/13/2011	ND	2.02	101	2.00	11.9	
Total Xylenes*	<0.150	0.150	06/13/2011	ND	5.99	99.9	6.00	11.7	

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 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	272	16.0	06/10/2011	ND	448	112	400	3.64		

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	06/12/2011	ND	224	112	200	12.3	
DRO >C10-C28	<10.0	10.0	06/12/2011	ND	206	103	200	13.9	

Surrogate: 1-Chlorooctane 139 % 70-130

Surrogate: 1-Chlorooctadecane 152 % 70-130

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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:	06/08/2011	Sampling Date:	06/03/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 5 @ 2' (H101185-29)**

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	06/13/2011	ND	1.69	84.3	2.00	11.8		
Toluene*	<b>6.47</b>	0.050	06/13/2011	ND	1.92	95.8	2.00	9.95		
Ethylbenzene*	<b>2.05</b>	0.050	06/13/2011	ND	2.02	101	2.00	11.9		
Total Xylenes*	<b>35.3</b>	1.50	06/14/2011	ND	5.99	99.9	6.00	11.7		

Surrogate: 4-Bromofluorobenzene (PIL) 99.4 % 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	<b>1230</b>	16.0	06/10/2011	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<b>3250</b>	50.0	06/12/2011	ND	224	112	200	12.3		
DRO >C10-C28	<b>20500</b>	50.0	06/12/2011	ND	206	103	200	13.9		

Surrogate: 1-Chlorooctane 128 % 70-130

Surrogate: 1-Chlorooctadecane 130 % 70-130

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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: (505) 397-0397

Received:	06/08/2011	Sampling Date:	06/03/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

### Sample ID: SP 5 @ 4' (H101185-30)

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.532</b>	0.050	06/13/2011	ND	1.69	84.3	2.00	11.8	
<b>Toluene*</b>	<b>5.73</b>	0.050	06/13/2011	ND	1.92	95.8	2.00	9.95	
<b>Ethylbenzene*</b>	<b>1.48</b>	0.050	06/13/2011	ND	2.02	101	2.00	11.9	
<b>Total Xylenes*</b>	<b>17.3</b>	0.150	06/13/2011	ND	5.99	99.9	6.00	11.7	

Surrogate: 4-Bromofluorobenzene (PIL) 119 % 70-130

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>688</b>	16.0	06/10/2011	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>1970</b>	50.0	06/12/2011	ND	224	112	200	12.3	
<b>DRO &gt;C10-C28</b>	<b>11400</b>	50.0	06/12/2011	ND	206	103	200	13.9	

Surrogate: 1-Chlorooctane 141 % 70-130

Surrogate: 1-Chlorooctadecane 144 % 70-130

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

Received:	06/08/2011	Sampling Date:	06/03/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 5 @ 6' (H101185-31)**

BTEx 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.186</b>	0.050	06/13/2011	ND	1.69	84.3	2.00	11.8	
<b>Toluene*</b>	<b>5.19</b>	0.050	06/13/2011	ND	1.92	95.8	2.00	9.95	
<b>Ethylbenzene*</b>	<b>1.80</b>	0.050	06/13/2011	ND	2.02	101	2.00	11.9	
<b>Total Xylenes*</b>	<b>22.6</b>	0.150	06/13/2011	ND	5.99	99.9	6.00	11.7	

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 70-130

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>256</b>	16.0	06/10/2011	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>1130</b>	50.0	06/12/2011	ND	224	112	200	12.3	
<b>DRO &gt;C10-C28</b>	<b>7370</b>	50.0	06/12/2011	ND	206	103	200	13.9	

Surrogate: 1-Chlorooctane 122 % 70-130

Surrogate: 1-Chlorooctadecane 130 % 70-130

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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: (505) 397-0397

Received:	06/08/2011	Sampling Date:	06/06/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 5 @ 8' (H101185-32)**

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	06/14/2011	ND	1.69	84.4	2.00	2.79	
Toluene*	<b>0.087</b>	0.050	06/14/2011	ND	1.77	88.5	2.00	1.96	
Ethylbenzene*	<b>0.085</b>	0.050	06/14/2011	ND	1.82	91.1	2.00	1.28	
Total Xylenes*	<b>0.920</b>	0.150	06/14/2011	ND	5.39	89.9	6.00	1.01	

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 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	<b>64.0</b>	16.0	06/10/2011	ND	448	112	400	3.64	

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	06/12/2011	ND	224	112	200	12.3	
DRO >C10-C28	<b>216</b>	10.0	06/12/2011	ND	206	103	200	13.9	

Surrogate: 1-Chlorooctane 124 % 70-130

Surrogate: 1-Chlorooctadecane 135 % 70-130

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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: (505) 397-0397

Received:	06/08/2011	Sampling Date:	06/06/2011
Reported:	06/14/2011	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 5 @ 11' (H101185-33)**

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	06/14/2011	ND	1.69	84.4	2.00	2.79	
Toluene*	<0.050	0.050	06/14/2011	ND	1.77	88.5	2.00	1.96	
Ethylbenzene*	<0.050	0.050	06/14/2011	ND	1.82	91.1	2.00	1.28	
Total Xylenes*	<0.150	0.150	06/14/2011	ND	5.39	89.9	6.00	1.01	

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 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	160	16.0	06/10/2011	ND	448	112	400	3.64		

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	06/12/2011	ND	224	112	200	12.3	
DRO >C10-C28	<10.0	10.0	06/12/2011	ND	206	103	200	13.9	

Surrogate: 1-Chlorooctane 127 % 70-130

Surrogate: 1-Chlorooctadecane 140 % 70-130

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Celey D. Keene, Lab Director/Quality Manager



### Notes and Definitions

Z-01	One or more surrogates above historical limits.
S-LOW	Low surrogate recovery confirmed as a matrix effect by a second analysis.
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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Cardinal Laboratories

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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**

1/4

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																						
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CL-</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> </div>																						
Address: P.O. Box 805				Company:																										
City: Hobbs State: NM Zip: 88241				Attn:																										
Phone #: 575-397-6388 Fax #: 575-397-0397				Address: <i>Same</i>																										
Project #: Project Owner: <i>OXY Midcon</i>				City:																										
Project Name: <i>Indian Hills state well #3</i>				State: Zip:																										
Project Location: <i>Carlsbad, NM</i>				Phone #:																										
Sampler Name: <i>Jeff Ornelas</i>				Fax #:																										
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME																
<i>H101185</i>																														
<i>1</i>	<i>Sp1 @ 2'</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>6-1-11</i>	<i>830</i>	<i>X</i>	<i>X</i>	<i>X</i>													
<i>2</i>	<i>Sp1 @ 4'</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>				<i>909</i>	<i>X</i>	<i>X</i>	<i>X</i>													
<i>3</i>	<i>Sp1 @ 6'</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>				<i>942</i>		<i>X</i>	<i>X</i>													
<i>4</i>	<i>Sp1 @ 8'</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>				<i>1014</i>		<i>X</i>	<i>X</i>													
<i>5</i>	<i>Sp1 @ 10'</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>				<i>1046</i>		<i>X</i>	<i>X</i>													
<i>6</i>	<i>Sp1 @ 12'</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>				<i>1111</i>		<i>X</i>	<i>X</i>													
<i>7</i>	<i>Sp1 @ 14'</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>6-2-11</i>	<i>837</i>	<i>X</i>	<i>X</i>	<i>X</i>													
<i>8</i>	<i>Sp2 @ 2'</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>				<i>909</i>	<i>X</i>	<i>X</i>	<i>X</i>													
<i>9</i>	<i>Sp2 @ 4'</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>				<i>930</i>		<i>X</i>	<i>X</i>													
<i>10</i>	<i>Sp2 @ 6'</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>				<i>1000</i>		<i>X</i>	<i>X</i>													

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Relinquished By:	Date: <i>6-8-11</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Jeff Ornelas</i>	Time: <i>1:55</i>	<i>Jodi Benson</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 type="checkbox"/> Yes <input type="checkbox"/> No	(Initials)		
	<i>0.52</i>	<i>JS</i>		

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

#26



# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/4

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																									
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>LL</div> <div>TPH</div> <div>BTEX</div> </div>																									
Address: P.O. Box 805				Company:																													
City: Hobbs State: NM Zip: 88241				Attn:																													
Phone #: 575-397-6388 Fax #: 575-397-0397				Address: Same																													
Project #: Project Owner: Oxy Midcon				City:																													
Project Name: Indian Hills state well #3				State: Zip:																													
Project Location: Carlsbad, NM				Phone #:																													
Sampler Name: Jeff Ornelas				Fax #:																													
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																									
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME																			
H101185																																	
11	Sp2 @ 8'	G	1			X				X			6-2-11	1027		X	X																
12	Sp2 @ 10'	G	1			X				X				1055		X	X																
13	Sp2 @ 12'	G	1			X				X				1129		X	X																
14	Sp2 @ 14'	G	1			X				X				1140		X	X																
15	Sp2 @ 16'	G	1			X				X				1212		X	X																
16	Sp2 @ 18'	G	1			X				X				161	X	X	X																
17	Sp3 @ 2'	G	1			X				X				131	X	X	X																
18	Sp3 @ 4'	G	1			X				X				202		X	X																
19	Sp3 @ 6'	G	1			X				X				222		X	X																
20	Sp3 @ 8'	G	1			X				X				245		X	X																

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Relinquished By:	Date: 6-8-11	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Jeff Ornelas	Time: 1:55	Jodi Newson	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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	<input type="checkbox"/> No <input type="checkbox"/> No			

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

#26

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

 $\frac{3}{4}$ 

Company Name: BCC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: Cliff Brunson				P.O. #:				<div>CL-TPH BTEX</div>																			
Address: P.O. Box 805				Company:																							
City: Hobbs		State: NM		Zip: 88241		Attn:																					
Phone #: 575-397-6388		Fax #: 575-397-0397		Address: Same		City:																					
Project #:		Project Owner: Oxy M. D. Con		State:		Zip:																					
Project Name: Indian Hills, state #3				Phone #:																							
Project Location: Cerro Gordo NM				Fax #:																							
Sampler Name: Jeff Ornelas																											
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING													
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :				ACID/BASE: ICE / COOL OTHER :		DATE TIME													
H101185																											
-21		SP3 @ 10'		G-1		1		X				X		6-2-11 309													
-22		SP3 @ 12'		G-1		1		X				X		320													
-23		SP3 @ 14'		G-1		1		X				X		338													
-24		SP3 @ 16'		G-1		1		X				X		352													
-25		SP3 @ 18'		G-1		1		X				X		401		X											
-26		SP4 @ 2'		G-1		1		X				X		6-3-11 808		X											
-27		SP4 @ 4'		G-1		1		X				X		829		X											
-28		SP4 @ 5'		G-1		1		X				X		845		X											
-29		SP5 @ 2'		G-1		1		X				X		939		X											
-30		SP5 @ 4'		G-1		1		X				X		1018		X											
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Relinquished By: Jeff Ornelas				Date: 6-8-11		Received By: Jodi Benson				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
Relinquished By:				Time: 1:55		Received By:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
Relinquished By:				Date:		Received By:				REMARKS:																	
Relinquished By:				Time:		Received By:																					
Delivered By: (Circle One)								Sample Condition				CHECKED BY:															
Sampler - UPS - Bus - Other:								Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>				(Initials)															
								Yes <input type="checkbox"/> No <input type="checkbox"/>				Yes <input type="checkbox"/> No <input type="checkbox"/>															

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



7/4

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October 09, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: INDIAN HILLS STATE WELL #3

Enclosed are the results of analyses for samples received by the laboratory on 10/01/12 9:10.

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: (505) 397-0397

Received:	10/01/2012	Sampling Date:	09/27/2012
Reported:	10/09/2012	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 1 @ 6' (H202382-01)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2012	ND	2.20	110	2.00	2.03	
Toluene*	<0.050	0.050	10/05/2012	ND	2.03	102	2.00	2.43	
Ethylbenzene*	<0.050	0.050	10/05/2012	ND	2.05	102	2.00	2.41	
<b>Total Xylenes*</b>	<b>0.165</b>	0.150	10/05/2012	ND	6.04	101	6.00	2.51	

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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>16.0</b>	16.0	10/03/2012	ND	400	100	400	4.08	

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	10/03/2012	ND	202	101	200	0.660	
<b>DRO &gt;C10-C28</b>	<b>195</b>	10.0	10/03/2012	ND	206	103	200	0.619	

Surrogate: 1-Chlorooctane 93.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 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: (505) 397-0397

Received:	10/01/2012	Sampling Date:	09/27/2012
Reported:	10/09/2012	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 1 @ 8' (H202382-02)**

BTEx 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2012	ND	2.20	110	2.00	2.03	
Toluene*	<0.050	0.050	10/05/2012	ND	2.03	102	2.00	2.43	
Ethylbenzene*	<0.050	0.050	10/05/2012	ND	2.05	102	2.00	2.41	
Total Xylenes*	<0.150	0.150	10/05/2012	ND	6.04	101	6.00	2.51	

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	<16.0	16.0	10/03/2012	ND	400	100	400	4.08		

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	10/03/2012	ND	202	101	200	0.660	
DRO >C10-C28	119	10.0	10/03/2012	ND	206	103	200	0.619	

Surrogate: 1-Chlorooctane 86.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.9 % 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: (505) 397-0397

Received:	10/01/2012	Sampling Date:	09/27/2012
Reported:	10/09/2012	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 2 @ 6' (H202382-03)**

BTX 8021B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/08/2012	ND	2.20	110	2.00	2.03	
Toluene*	<b>2.33</b>	0.200	10/08/2012	ND	2.03	102	2.00	2.43	
Ethylbenzene*	<b>3.81</b>	0.200	10/08/2012	ND	2.05	102	2.00	2.41	
Total Xylenes*	<b>16.8</b>	0.600	10/08/2012	ND	6.04	101	6.00	2.51	

Surrogate: 4-Bromofluorobenzene (PID) 266 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>32.0</b>	16.0	10/03/2012	ND	400	100	400	4.08	

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	<b>1260</b>	50.0	10/03/2012	ND	202	101	200	0.660	
DRO >C10-C28	<b>7890</b>	50.0	10/03/2012	ND	206	103	200	0.619	

Surrogate: 1-Chlorooctane 173 % 65.2-140

Surrogate: 1-Chlorooctadecane 236 % 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: (505) 397-0397

Received:	10/01/2012	Sampling Date:	09/27/2012
Reported:	10/09/2012	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 2 @ 8' (H202382-04)**

BTEx 8021B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/08/2012	ND	2.20	110	2.00	2.03	
Toluene*	<b>1.30</b>	0.200	10/08/2012	ND	2.03	102	2.00	2.43	
Ethylbenzene*	<b>2.36</b>	0.200	10/08/2012	ND	2.05	102	2.00	2.41	
Total Xylenes*	<b>12.0</b>	0.600	10/08/2012	ND	6.04	101	6.00	2.51	

Surrogate: 4-Bromofluorobenzene (PID) 237 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>48.0</b>	16.0	10/03/2012	ND	400	100	400	4.08	

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	<b>1010</b>	50.0	10/03/2012	ND	202	101	200	0.660	
DRO >C10-C28	<b>6160</b>	50.0	10/03/2012	ND	206	103	200	0.619	

Surrogate: 1-Chlorooctane 173 % 65.2-140

Surrogate: 1-Chlorooctadecane 211 % 63.6-154

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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:	10/01/2012	Sampling Date:	09/28/2012
Reported:	10/09/2012	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 3 @ 6' (H202382-05)**

BTEx 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2012	ND	2.20	110	2.00	2.03	
Toluene*	<0.050	0.050	10/05/2012	ND	2.03	102	2.00	2.43	
Ethylbenzene*	<0.050	0.050	10/05/2012	ND	2.05	102	2.00	2.41	
Total Xylenes*	<0.150	0.150	10/05/2012	ND	6.04	101	6.00	2.51	

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	592	16.0	10/03/2012	ND	400	100	400	4.08	

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	10/03/2012	ND	188	94.2	200	4.31	
DRO >C10-C28	46.1	10.0	10/03/2012	ND	190	95.0	200	5.79	

Surrogate: 1-Chlorooctane 87.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
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Fax To: (505) 397-0397

Received:	10/01/2012	Sampling Date:	09/28/2012
Reported:	10/09/2012	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 3 @ 8' (H202382-06)**

BTX 8021B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/08/2012	ND	2.20	110	2.00	2.03	
Toluene*	<b>0.468</b>	0.200	10/08/2012	ND	2.03	102	2.00	2.43	
Ethylbenzene*	<b>1.03</b>	0.200	10/08/2012	ND	2.05	102	2.00	2.41	
Total Xylenes*	<b>6.92</b>	0.600	10/08/2012	ND	6.04	101	6.00	2.51	

Surrogate: 4-Bromofluorobenzene (PID) 174 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>480</b>	16.0	10/03/2012	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>99.6</b>	10.0	10/03/2012	ND	188	94.2	200	4.31	
DRO >C10-C28	<b>523</b>	10.0	10/03/2012	ND	190	95.0	200	5.79	

Surrogate: 1-Chlorooctane 95.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.9 % 63.6-154

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**Analytical Results For:**

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Hobbs NM, 88241  
Fax To: (505) 397-0397

Received:	10/01/2012	Sampling Date:	09/28/2012
Reported:	10/09/2012	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 4 @ 6' (H202382-07)**

BTEx 8021B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/08/2012	ND	2.20	110	2.00	2.03	
Toluene*	<b>4.24</b>	0.200	10/08/2012	ND	2.03	102	2.00	2.43	
Ethylbenzene*	<b>4.65</b>	0.200	10/08/2012	ND	2.05	102	2.00	2.41	
Total Xylenes*	<b>21.4</b>	0.600	10/08/2012	ND	6.04	101	6.00	2.51	

Surrogate: 4-Bromofluorobenzene (PID) 265 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>240</b>	16.0	10/03/2012	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>298</b>	10.0	10/03/2012	ND	188	94.2	200	4.31	
DRO >C10-C28	<b>1310</b>	10.0	10/03/2012	ND	190	95.0	200	5.79	

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.0 % 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: (505) 397-0397

Received:	10/01/2012	Sampling Date:	09/28/2012
Reported:	10/09/2012	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 4 @ 8' (H202382-08)**

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2012	ND	2.20	110	2.00	2.03	
Toluene*	<0.050	0.050	10/05/2012	ND	2.03	102	2.00	2.43	
Ethylbenzene*	<b>0.061</b>	0.050	10/05/2012	ND	2.05	102	2.00	2.41	
<b>Total Xylenes*</b>	<b>0.231</b>	0.150	10/05/2012	ND	6.04	101	6.00	2.51	

Surrogate: 4-Bromofluorobenzene (PID) 117 % 89.4-126

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>112</b>	16.0	10/03/2012	ND	384	96.0	400	4.08	

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	10/03/2012	ND	188	94.2	200	4.31	
<b>DRO &gt;C10-C28</b>	<b>80.6</b>	10.0	10/03/2012	ND	190	95.0	200	5.79	

Surrogate: 1-Chlorooctane 89.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.3 % 63.6-154

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**Analytical Results For:**

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

Received:	10/01/2012	Sampling Date:	09/28/2012
Reported:	10/09/2012	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 5 @ 6' (H202382-09)**

BTEx 8021B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/08/2012	ND	2.20	110	2.00	2.03	
<b>Toluene*</b>	<b>1.13</b>	0.200	10/08/2012	ND	2.03	102	2.00	2.43	
<b>Ethylbenzene*</b>	<b>1.86</b>	0.200	10/08/2012	ND	2.05	102	2.00	2.41	
<b>Total Xylenes*</b>	<b>7.89</b>	0.600	10/08/2012	ND	6.04	101	6.00	2.51	

Surrogate: 4-Bromofluorobenzene (PID) 214 % 89.4-126

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>128</b>	16.0	10/03/2012	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>300</b>	10.0	10/03/2012	ND	188	94.2	200	4.31	
<b>DRO &gt;C10-C28</b>	<b>1970</b>	10.0	10/03/2012	ND	190	95.0	200	5.79	

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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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:	10/01/2012	Sampling Date:	09/28/2012
Reported:	10/09/2012	Sampling Type:	Soil
Project Name:	INDIAN HILLS STATE WELL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 5 @ 8' (H202382-10)**

BTEx 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.223</b>	0.050	10/05/2012	ND	2.20	110	2.00	2.03	
<b>Toluene*</b>	<b>0.808</b>	0.050	10/05/2012	ND	2.03	102	2.00	2.43	
<b>Ethylbenzene*</b>	<b>0.143</b>	0.050	10/05/2012	ND	2.05	102	2.00	2.41	
<b>Total Xylenes*</b>	<b>0.558</b>	0.150	10/05/2012	ND	6.04	101	6.00	2.51	

Surrogate: 4-Bromofluorobenzene (PID) 113 % 89.4-126

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>96.0</b>	16.0	10/03/2012	ND	384	96.0	400	4.08	

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	10/03/2012	ND	188	94.2	200	4.31	
<b>DRO &gt;C10-C28</b>	<b>12.8</b>	10.0	10/03/2012	ND	190	95.0	200	5.79	

Surrogate: 1-Chlorooctane 84.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.2 % 63.6-154

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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



**Subject:** RE: Oxy-Indian Hills State Well #3

**Date:** Thursday, July 14, 2011 3:18:58 PM MT

**From:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

**To:** Cliff P. Brunson <cbrunson@bbcinternational.com>

**CC:** Kelton Beaird <Kelton\_Beaird@oxy.com>, Rick Kerby <rick\_kerby@oxy.com>, Ken Swinney <kswinney@bbcinternational.com>, Jennifer Gilkey <jgilkey@bbcinternational.com>

Reference: OXY \* Indian Hills St. Com 003 \* 30-015-27168 \* D-36-20s-24e \* DOR-2/4/11 \* 2RP-630

Cliff,

While OCD would recommend the operator relocate the equipment to facilitate excavation of at least the more highly contaminated underlying soils, OCD will approve the current proposal to re-evaluate the site at a later date. The following conditions of approval will apply:

- Notify OCD District 2 office 48 hours prior to obtaining samples where the analyses are to be submitted to OCD.
- Re-sampling event is to be performed after March 15, 2012, but not later than May 15, 2012.
- OXY may submit an alternative remediation proposal at any time prior to the re-sampling event.

Please submit a hard copy of the electronically submitted data and proposal.

Be advised 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 or concerns, and, for notification, please contact me.

**MIKE BRATCHER**

NMOCD District 2  
811 S. First Street  
Artesia, NM 88210  
575-748-1283 Ext.108  
575-626-0857  
mike.bratcher@state.nm.us

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**From:** Cliff P. Brunson [mailto:cbrunson@bbcinternational.com]

**Sent:** Wednesday, July 13, 2011 5:46 PM

**To:** Bratcher, Mike, EMNRD

**Cc:** Kelton Beaird; Rick Kerby; Ken Swinney; Jennifer Gilkey

**Subject:** Oxy-Indian Hills State Well #3

Mike,

This message is to confirm our discussion yesterday on July 12, 2011 concerning the remediation plan for the above referenced site. Per our discussion and mutual agreement, Oxy will backfill the site and in 8-10 months from the backfill date, the site will be re-sampled at the same sample points and depths to determine if the hydrocarbons are either migrating downward or staying in place and if the concentration levels are decreasing. In the event that the hydrocarbon levels are migrating downward

or not decreasing, this site will be subject to further discussions with the OCD and with the possibility that Oxy may have to dismantle the facility and excavate the impacted soils to OCD guideline levels. The purpose of the 8 to 10 months timeframe is to allow for potential moisture to occur which will aid in the microbial degradation of the hydrocarbons.

I have attached the site diagram and lab data for your files. If you would please respond back with your concurrence, it would be greatly appreciated. Thanks again for your time involving this matter.

Thanks, Cliff

Cliff Brunson, CEI, CRS  
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