

Closure Report

Site Description

Site Name:	Indian Basin CTB	<div>RECEIVED</div> <div>JUN 20 2013</div> <div>NMOCD ARTESIA</div>
Company:	Oxy Permian Ltd.	
Legal Description:	U/L K, Section 8, T22S, R24E	
County:	Eddy County, NM	
GPS Coordinates:	N 32.40140° W 104.52237°	

Release Data

Date of Release:	02/11/2011
Type of Release:	Oil and Produced water
Source of Release:	Freezing temperatures caused a flow line to bust.
Volume of Release:	67 bbls
Volume Recovered:	30 bbls

Remediation Specifications

Remediation Parameters:	Excavate 2' across entire battery inside berm and place a 1' clay liner in excavation. Backfill with clean soil. Repair berm with compactable caliche & install secondary berms. Natural attenuation will occur for subsurface hydrocarbons after excavation.	
Remediation Activities:	05/20/2013 to 06/07/2013	
Plan Sent to OCD:	09/16/2011	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	10/11/2011	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	01/23/2013	Email from Cliff Brunson to Terry Gregston
BLM Approval of Plan:	01/24/2013	Email from Terry Gregston to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 02/15/2011
Final C-141	Signed 06/19/2013
Site Diagram	September 2011
Groundwater Plot	100'
TOPO Maps	May 2013
Lab Summary	06/13/2011-6/14/2011 and 07/14/2011
Lab Analysis	06/13/2011-6/14/2011 and 07/14/2011
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.

06/19/2013

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

nkmw 1106146398

Name of Company OXY USA <i>192463</i>		Contact Kelton Beaird
Address 1502 W. Commerce Carlsbad, NM 88220		Telephone No. (O) 575-628-4100
Facility Name Indian Basin CTB		Facility Type Central Tank Battery Facility
Surface Owner Federal	Mineral Owner	Lease No. API # 3001531326

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	8	22S	24E					Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Oil and Produced Water	Volume of Release 67 bbls	Volume Recovered 30
Source of Release Flowline	Date and Hour of Occurrence	Date and Hour of Discovery 2-11-11 @ 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, Terry Gregston-BLM	
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. **API number is for the closest well, which is Old Ranch Knoll 8-5.**

Describe Area Affected and Cleanup Action Taken.*

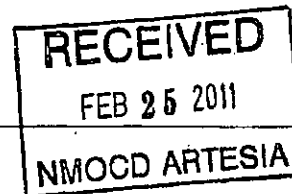
Area affected was on location around the tank batteries Delineation will occur and a clean-up plan will be submitted for approval.

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

* Attach Additional Sheets If Necessary

2 RP-628



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Energy Minerals and Natural Resources

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1220 South St. Francis Dr.
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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 Christopher Jones	
Address 1502 W. Commerce Carlsbad, NM 88220	Telephone No. 575-628-4121	
Facility Name Indian Basin CTB	Facility Type Central Tank Battery Facility	
Surface Owner Federal	Mineral Owner	API No. 30-015-31326

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	8	22S	24E					Eddy

Latitude N 32.40140° Longitude W 104.52237°

NATURE OF RELEASE

Type of Release Oil and Produced Water	Volume of Release 67 bbls	Volume Recovered 30
Source of Release Flowline	Date and Hour of Occurrence	Date and Hour of Discovery 2-11-11 @ 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. Terry Gregston-BLM	
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.*

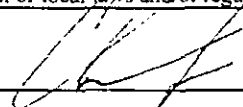
Line busted due to freezing temperatures. Line was repaired 30 bbls of oil and produced water were recovered via vacuum truck. **API number is for the closest well, which is Old Ranch Knoll 8-5.**

Describe Area Affected and Cleanup Action Taken.*

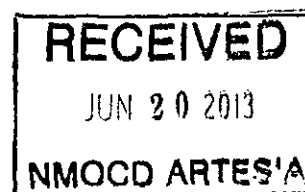
Area affected was on location around the tank batteries Remediation was completed in accordance with a remediation plan approved by Mike Bratcher of NMOCD via email on 10/11/2011 and by Terry Gregston of BLM via email on 01/24/2013.

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

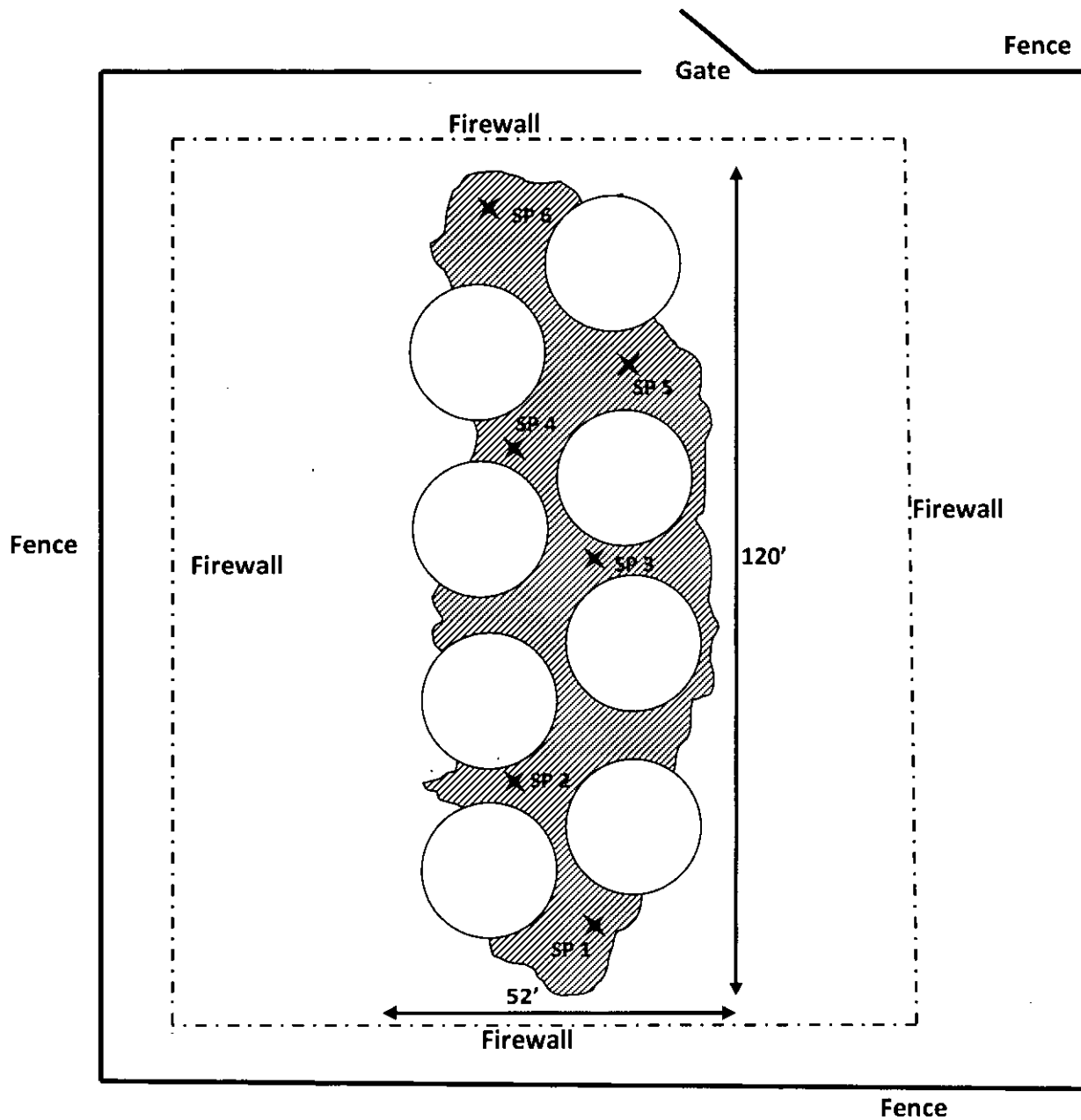
Signature: 	Approved by District Supervisor:		
Printed Name: Christopher Jones	Approval Date:		
Title: HES Specialist	Expiration Date:		Attached <input type="checkbox"/>
E-mail Address: Christopher_jones@oxy.com	Conditions of Approval:		
Date: 6-19-13			

* Attach Additional Sheets If Necessary





Oxy
Indian Basin Central Tank Battery



UL L, Sec 8, T22S, R24E Eddy
County, NM
N 32.40140, W 104.52237
N 32.40130° W 104.52248° at Stake

BBC International, Inc.	
Oxy Indian Basin Central Tank Battery	
Date: 09/19/11	DRWG by: KAP
Disk:	Sheet 1 of 1
Scale: Not to Scale	File Name:



Groundwater Plot

Oxy Indian Basin CTB

County
Eddy

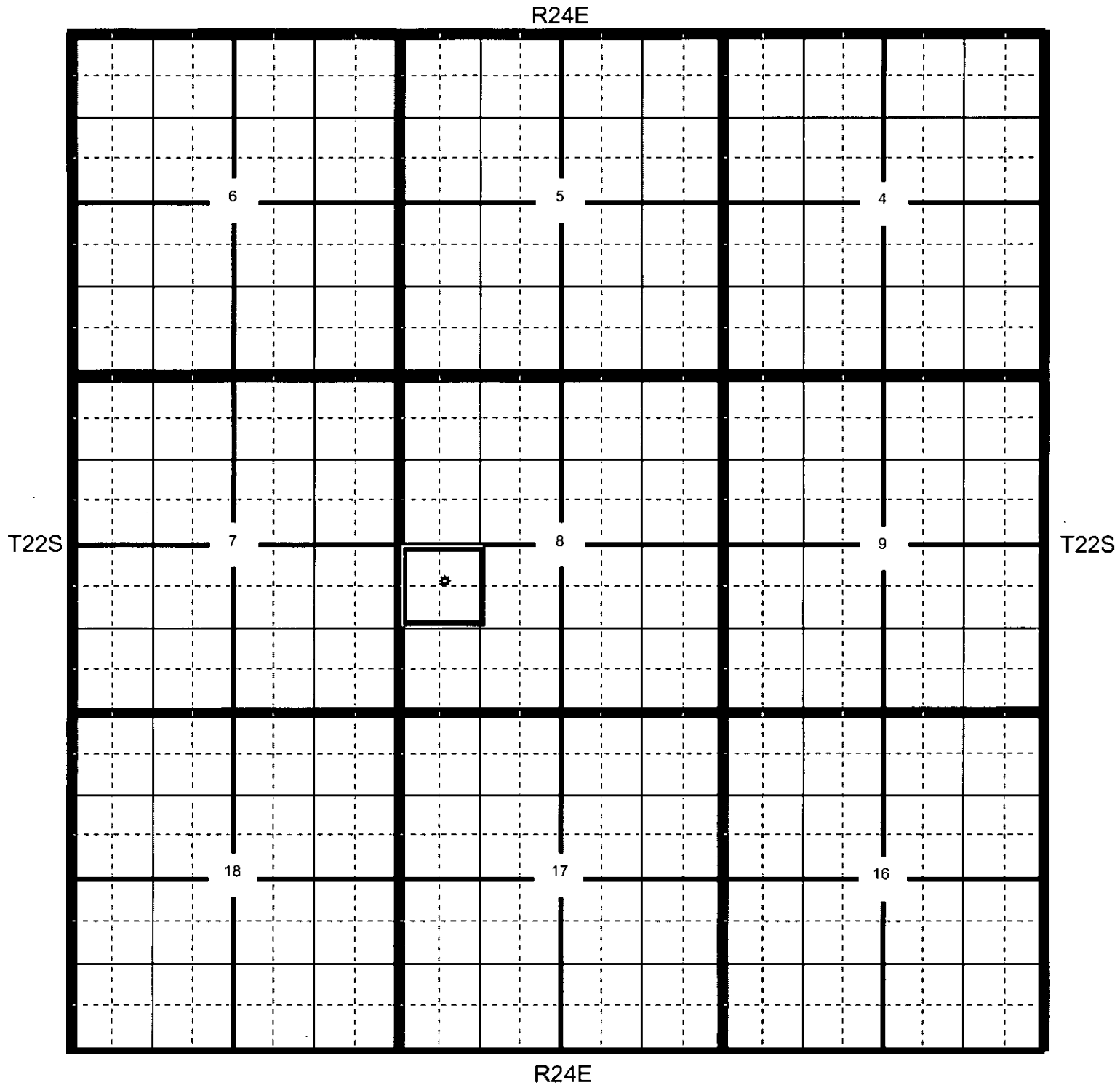
Unit Letter
L

Section
8

Township
22S

Range
24E

Trend Map 100'



★ Location

● OCD

● USGS

● SEO

● All Databases

Oxy Indian Basin CTB

County Eddy Unit Letter L Section 8 Township 22S Range 24E

Trend Map 100'

1

2

NW/NW Unit Letter D	NE/NW Unit Letter C	NW/NE Unit Letter B	NE/NE Unit Letter A
SW/NW Unit Letter E	SE/NW Unit Letter F	SW/NE Unit Letter G	SE/NE Unit Letter H
NW/SW Unit Letter L	NE/SW Unit Letter K	NW/SE Unit Letter J	NE/SE Unit Letter I
SW/SW Unit Letter M	SE/SW Unit Letter N	SW/SE Unit Letter O	SE/SE Unit Letter P

3

4

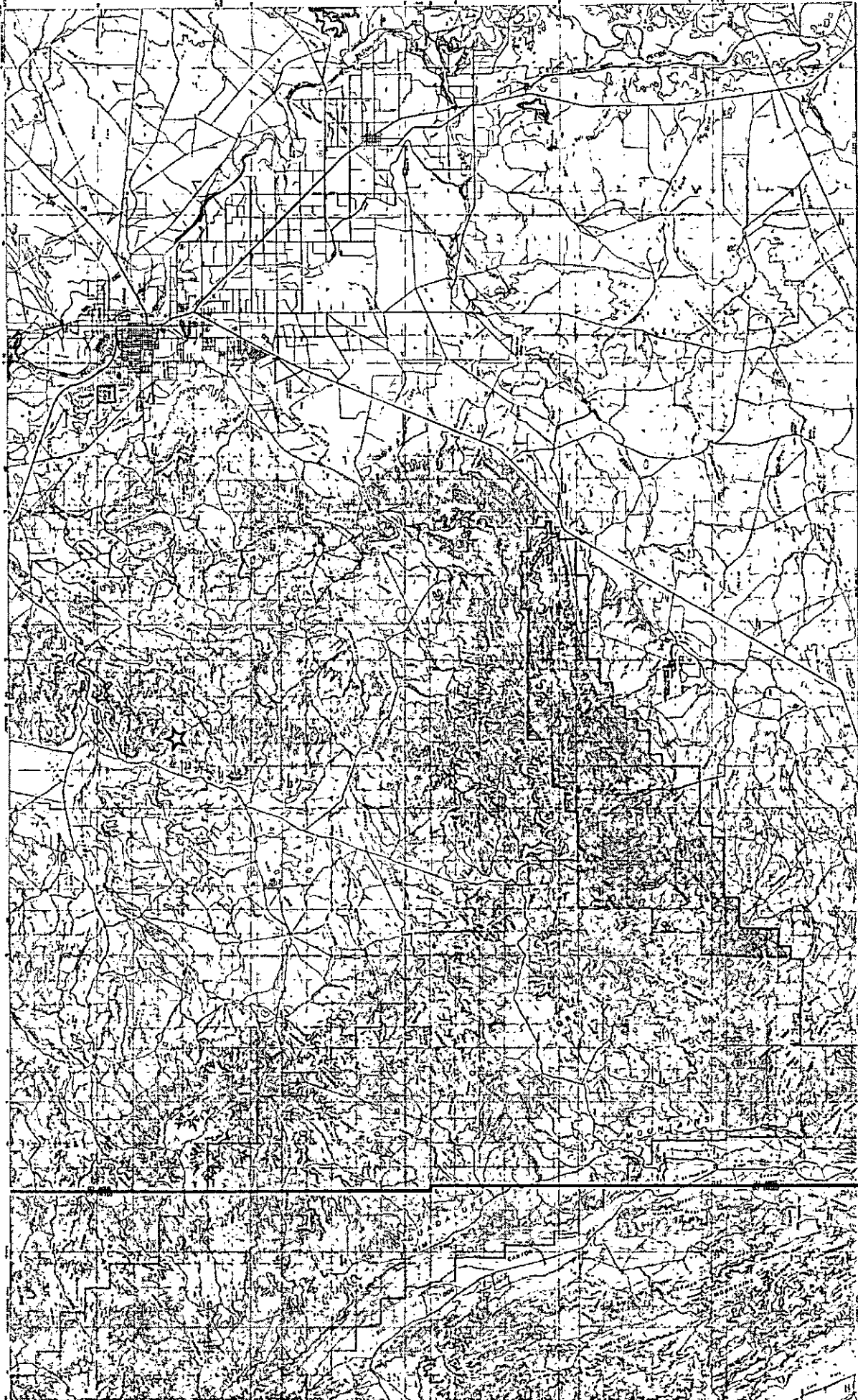
Oxy

Indian Basin CTB

UNITED STATES
DEPARTMENT OF THE ARMY
ENGINEER BUREAU

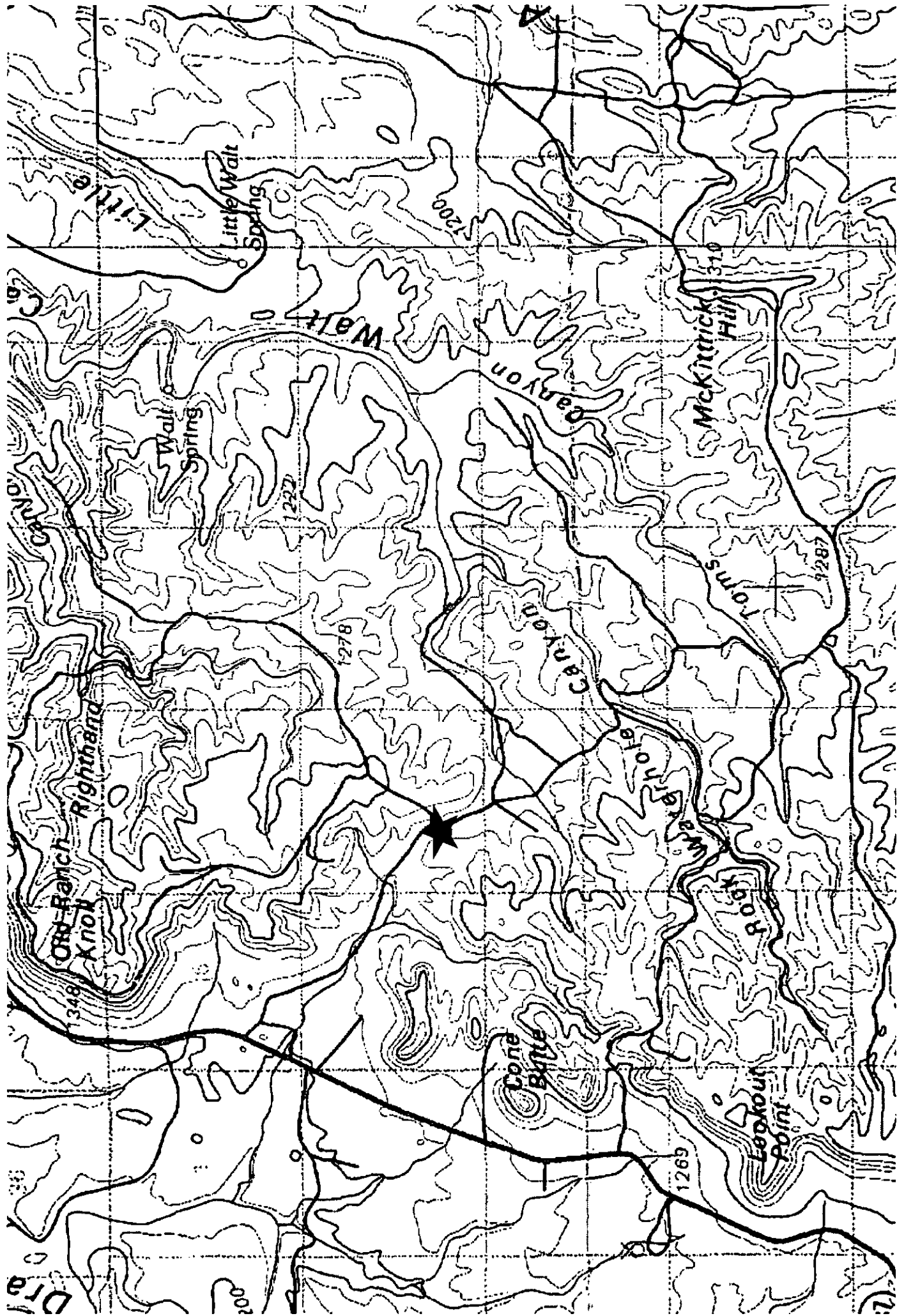


ENGINEER BUREAU
NEW HAVEN, CONNECTICUT
1:50,000 SCALE (HORIZONTAL)



Oxy

Indian Basin CTB



Laboratory Analytical Results Summary
Oxy, Indian Basin Central Tank Battery

Analyte	Method	Sample Date	SP1 @ 1 6/13/11
Benzene	BTEX8021B		mg/Kg <0.050
Toluene	BTEX8021B		0.228
Ethylbenzene	BTEX8021B		0.151
Total Xylenes	BTEX8021B		1.03
Chloride	SM4500Cl-B		144
GRO	TPH8015M		<50.0
DRO	TPH8015M		2830

Analyte	Method	Sample Date	SP2 @ 1 6/13/11
Benzene	BTEX8021B		mg/Kg <0.500
Toluene	BTEX8021B		1.7
Ethylbenzene	BTEX8021B		1.02
Total Xylenes	BTEX8021B		6.16
Chloride	SM4500Cl-B		32
GRO	TPH8015M		213
DRO	TPH8015M		1920

Analyte	Method	Sample Date	SP3 @ 1 6/13/11	SP3 @ 2 7/14/11
Benzene	BTEX8021B		mg/Kg <0.050	mg/Kg <0.050
Toluene	BTEX8021B		0.487	0.348
Ethylbenzene	BTEX8021B		0.643	0.818
Total Xylenes	BTEX8021B		3.49	1.56
Chloride	SM4500Cl-B		32	32
GRO	TPH8015M		62.5	132
DRO	TPH8015M		5540	1780

Analyte	Method	Sample Date	SP4 @ 1 6/14/11	SP4 @ 2 7/14/11
Benzene	BTEX8021B		mg/Kg <0.050	mg/Kg <0.050
Toluene	BTEX8021B		3.99	0.275
Ethylbenzene	BTEX8021B		0.901	0.802
Total Xylenes	BTEX8021B		5.91	1.33
Chloride	SM4500Cl-B		32	48
GRO	TPH8015M		72	73.1
DRO	TPH8015M		5300	807

Analyte	Method	Sample Date	SP5 @ 1 6/14/11	SP5 @ 2 7/14/11	SP5 @ 4 7/14/11	SP5 @ 5 7/14/11
Benzene	BTEX8021B		mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050
Toluene	BTEX8021B		0.62	0.593	0.222	0.112
Ethylbenzene	BTEX8021B		1.71	1.75	0.89	0.722
Total Xylenes	BTEX8021B		6.9	4.34	2.94	2.45
Chloride	SM4500Cl-B		<16.0	16	<16.0	16
GRO	TPH8015M		442	660	242	202
DRO	TPH8015M		21100	4910	2280	1920

Analyte	Method	Sample Date	SP6 @ Surface 6/14/11	SP6 @ 2 7/14/11
Benzene	BTEX8021B		mg/Kg <0.050	mg/Kg <0.050
Toluene	BTEX8021B		0.088	0.925
Ethylbenzene	BTEX8021B		0.062	1.87
Total Xylenes	BTEX8021B		0.37	2.4
Chloride	SM4500Cl-B		<16.0	<16.0
GRO	TPH8015M		<50.0	723
DRO	TPH8015M		6310	2460

June 21, 2011

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: INDIAN BASIN CTB

Enclosed are the results of analyses for samples received by the laboratory on 06/15/11 17:00.

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.

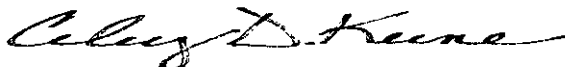
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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: 06/15/2011
Reported: 06/21/2011
Project Name: INDIAN BASIN CTB
Project Number: NONE GIVEN
Project Location: CARLSBAD, NM

Sampling Date: 06/13/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H101253-01)

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	06/20/2011	ND	1.89	94.5	2.00	3.65		
Toluene*	0.228	0.050	06/20/2011	ND	2.00	100	2.00	4.10		
Ethylbenzene*	0.151	0.050	06/20/2011	ND	2.02	101	2.00	3.90		
Total Xylenes*	1.03	0.150	06/20/2011	ND	6.00	100	6.00	4.06		

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 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	144	16.0	06/20/2011	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/19/2011	ND	232	116	200	5.92	
DRO >C10-C28	2830	50.0	06/19/2011	ND	229	115	200	1.08	

Surrogate: 1-Chlorooctane 113 % 70-130

Surrogate: 1-Chlorooctadecane 120 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 06/15/2011
Reported: 06/21/2011
Project Name: INDIAN BASIN CTB
Project Number: NONE GIVEN
Project Location: CARLSBAD, NM

Sampling Date: 06/13/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H101253-02)

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	06/20/2011	ND	1.89	94.5	2.00	3.65		
Toluene*	1.70	0.050	06/20/2011	ND	2.00	100	2.00	4.10		
Ethylbenzene*	1.02	0.050	06/20/2011	ND	2.02	101	2.00	3.90		
Total Xylenes*	6.16	0.150	06/20/2011	ND	6.00	100	6.00	4.06		

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
Chloride	32.0	16.0	06/20/2011	ND	448	112	400	3.64	
TPH 8015M		mg/kg		Analyzed By: CK					

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	213	10.0	06/19/2011	ND	232	116	200	5.92	
DRO >C10-C28	1920	10.0	06/19/2011	ND	229	115	200	1.08	

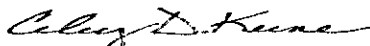
Surrogate: 1-Chlorooctane 97.2 % 70-130

Surrogate: 1-Chlorooctadecane 92.6 % 70-130

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 06/15/2011
Reported: 06/21/2011
Project Name: INDIAN BASIN CTB
Project Number: NONE GIVEN
Project Location: CARLSBAD, NM

Sampling Date: 06/13/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H101253-03)

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	06/20/2011	ND	1.89	94.5	2.00	3.65	
Toluene*	0.487	0.050	06/20/2011	ND	2.00	100	2.00	4.10	
Ethylbenzene*	0.643	0.050	06/20/2011	ND	2.02	101	2.00	3.90	
Total Xylenes*	3.49	0.150	06/20/2011	ND	6.00	100	6.00	4.06	

Surrogate: 4-Bromofluorobenzene (PIL) 98.0 % 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	32.0	16.0	06/20/2011	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	62.5	10.0	06/20/2011	ND	186	93.0	200	4.08	
DRO >C10-C28	5540	10.0	06/20/2011	ND	163	81.7	200	3.24	

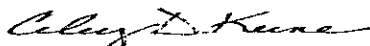
Surrogate: 1-Chlorooctane 85.5 % 70-130

Surrogate: 1-Chlorooctadecane 96.4 % 70-130

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Cliff Brunson
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Fax To: (505) 397-0397

Received: 06/15/2011
Reported: 06/21/2011
Project Name: INDIAN BASIN CTB
Project Number: NONE GIVEN
Project Location: CARLSBAD, NM

Sampling Date: 06/14/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1' (H101253-04)

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	06/20/2011	ND	1.89	94.5	2.00	3.65	
Toluene*	3.99	0.050	06/20/2011	ND	2.00	100	2.00	4.10	
Ethylbenzene*	0.901	0.050	06/20/2011	ND	2.02	101	2.00	3.90	
Total Xylenes*	5.91	0.150	06/20/2011	ND	6.00	100	6.00	4.06	

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	32.0	16.0	06/20/2011	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	72.0	50.0	06/20/2011	ND	186	93.0	200	4.08	
DRO >C10-C28	5300	50.0	06/20/2011	ND	163	81.7	200	3.24	

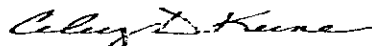
Surrogate: 1-Chlorooctane 110 % 70-130

Surrogate: 1-Chlorooctadecane 97.9 % 70-130

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: 06/15/2011
Reported: 06/21/2011
Project Name: INDIAN BASIN CTB
Project Number: NONE GIVEN
Project Location: CARLSBAD, NM

Sampling Date: 06/14/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ 1' (H101253-05)

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	06/20/2011	ND	1.89	94.5	2.00	3.65		
Toluene*	0.620	0.050	06/20/2011	ND	2.00	100	2.00	4.10		
Ethylbenzene*	1.71	0.050	06/20/2011	ND	2.02	101	2.00	3.90		
Total Xylenes*	6.90	0.150	06/20/2011	ND	6.00	100	6.00	4.06		

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	<16.0	16.0	06/20/2011	ND	448	112	400	3.64	
TPH 8015M		mg/kg		Analyzed By: CK					

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	442	100	06/20/2011	ND	186	93.0	200	4.08	
DRO >C10-C28	21100	100	06/20/2011	ND	163	81.7	200	3.24	

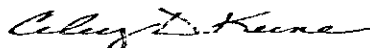
Surrogate: 1-Chlorooctane 79.1 % 70-130

Surrogate: 1-Chlorooctadecane 77.7 % 70-130

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: 06/15/2011
Reported: 06/21/2011
Project Name: INDIAN BASIN CTB
Project Number: NONE GIVEN
Project Location: CARLSBAD, NM

Sampling Date: 06/14/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 6 @ SURFACE (H101253-06)

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	06/20/2011	ND	1.89	94.5	2.00	3.65		
Toluene*	0.088	0.050	06/20/2011	ND	2.00	100	2.00	4.10		
Ethylbenzene*	0.062	0.050	06/20/2011	ND	2.02	101	2.00	3.90		
Total Xylenes*	0.370	0.150	06/20/2011	ND	6.00	100	6.00	4.06		

Surrogate: 4-Bromofluorobenzene (PIL) 94.9 % 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	06/20/2011	ND	448	112	400	3.64	
TPH 8015M		mg/kg		Analyzed By: CK					

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/20/2011	ND	186	93.0	200	4.08	
DRO >C10-C28	6310	50.0	06/20/2011	ND	163	81.7	200	3.24	

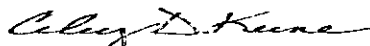
Surrogate: 1-Chlorooctane 99.1 % 70-130

Surrogate: 1-Chlorooctadecane 116 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

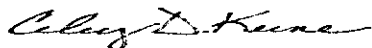
Notes and Definitions

- A-01 Matrix spike was not spiked, use LCS/LCSD for precision and accuracy data.
- 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

Cardinal Laboratories

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Celest D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES

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

Company Name: BBC International, Inc.										Company Name: BBC International, Inc.									
Project Manager: Cliff Brunson										Project Manager: Cliff Brunson									
Address: P.O. Box 805										Address: P.O. Box 805									
City: Hobbs										City: Hobbs									
Phone #: 575-397-6388										Phone #: 575-397-6388									
Project #:										Project #:									
Project Name: Indian Basin CTB										Project Name: Indian Basin CTB									
Project Location: Carlsbad, NM										Project Location: Carlsbad, NM									
Sampler Name: Jeff Ornelas										Sampler Name: Jeff Ornelas									

Lab I.D.		Sample I.D.		Matrix		Preserv		Sampling		Time	
SP1 @ 1'				GROUNDWATER		ACID/BASE		6-13-11	10:20 am		
SP2 @ 1'				WASTEWATER		ICE / COOL		6-13-11	2:08 pm		
SP3 @ 1'				SOIL		OTHER		6-13-11	3:29 pm		
SP4 @ 1'				OIL				6-14-11	8:44 am		
SP5 @ 1'				SLUDGE				6-14-11	9:49 am		
SP6 @ Surface								6-14-11	10:30 am		

Relinquished By: [Signature]		Received By: [Signature]	
Date: 6-15-11	Time: 4:40 pm	Date: 6-15-11	Time: 4:40 pm
Relinquished By: [Signature]		Received By: [Signature]	
Date: 6-15-11	Time: 4:40 pm	Date: 6-15-11	Time: 4:40 pm
Delivered By: [Signature]		Checked By: [Signature]	
Date: 6-15-11	Time: 4:40 pm	Date: 6-15-11	Time: 4:40 pm

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Date: 6-15-11	Time: 4:40 pm	Date: 6-15-11	Time: 4:40 pm
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Delivered By: [Signature]		Checked By: [Signature]	
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Relinquished By: [Signature]		Received By: [Signature]	
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Date: 6-15-11	Time: 4:40 pm	Date: 6-15-11	Time: 4:40 pm

Relinquished By: [Signature]	
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July 22, 2011

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: INDIAN BASIN CTB

Enclosed are the results of analyses for samples received by the laboratory on 07/15/11 8:40.

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.

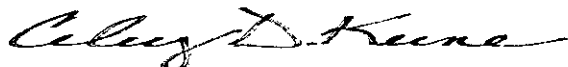
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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,



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: 07/15/2011
Reported: 07/22/2011
Project Name: INDIAN BASIN CTB
Project Number: NONE GIVEN
Project Location: CARLSBAD, NM

Sampling Date: 07/14/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 2 FT. (H101465-01)

BTEX 8021B		mg/kg		Analyzed By: CMS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2011	ND	1.51	75.7	2.00	29.5	
Toluene*	0.348	0.050	07/21/2011	ND	1.63	81.5	2.00	28.3	
Ethylbenzene*	0.818	0.050	07/21/2011	ND	1.73	86.7	2.00	29.0	
Total Xylenes*	1.56	0.150	07/21/2011	ND	5.21	86.9	6.00	27.7	

Surrogate: 4-Bromofluorobenzene (PIL) 170 % 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	32.0	16.0	07/18/2011	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	132	10.0	07/18/2011	ND	201	101	200	3.59	
ORO >C10-C28	1780	10.0	07/18/2011	ND	170	85.1	200	0.0329	

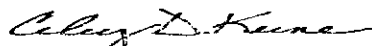
Surrogate: 1-Chlorooctane 106 % 70-130

Surrogate: 1-Chlorooctadecane 125 % 70-130

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: 07/15/2011
Reported: 07/22/2011
Project Name: INDIAN BASIN CTB
Project Number: NONE GIVEN
Project Location: CARLSBAD, NM

Sampling Date: 07/14/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 2 FT. (H101465-02)

BTEX 8021B		mg/kg		Analyzed By: CMS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2011	ND	1.51	75.7	2.00	29.5	
Toluene*	0.275	0.050	07/21/2011	ND	1.63	81.5	2.00	28.3	
Ethylbenzene*	0.802	0.050	07/21/2011	ND	1.73	86.7	2.00	29.0	
Total Xylenes*	1.33	0.150	07/21/2011	ND	5.21	86.9	6.00	27.7	

Surrogate: 4-Bromofluorobenzene (PIL) 164 % 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	07/18/2011	ND	416	104	400	7.41	
TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	73.1	10.0	07/18/2011	ND	201	101	200	3.59	
DRO >C10-C28	807	10.0	07/18/2011	ND	170	85.1	200	0.0329	

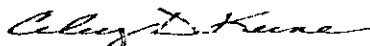
Surrogate: 1-Chlorooctane 103 % 70-130

Surrogate: 1-Chlorooctadecane 119 % 70-130

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: 07/15/2011
Reported: 07/22/2011
Project Name: INDIAN BASIN CTB
Project Number: NONE GIVEN
Project Location: CARLSBAD, NM

Sampling Date: 07/14/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ 2 FT. (H101465-03)

BTEX 8021B		mg/kg	Analyzed By: CMS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2011	ND	1.51	75.7	2.00	29.5	
Toluene*	0.593	0.050	07/21/2011	ND	1.63	81.5	2.00	28.3	
Ethylbenzene*	1.75	0.050	07/21/2011	ND	1.73	86.7	2.00	29.0	
Total Xylenes*	4.34	0.150	07/21/2011	ND	5.21	86.9	6.00	27.7	

Surrogate: 4-Bromofluorobenzene (PIL) 250 % 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	07/18/2011	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	660	10.0	07/18/2011	ND	201	101	200	3.59	
DRO >C10-C28	4910	10.0	07/18/2011	ND	170	85.1	200	0.0329	

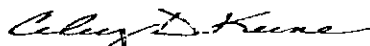
Surrogate: 1-Chlorooctane 108 % 70-130

Surrogate: 1-Chlorooctadecane 107 % 70-130

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: 07/15/2011
Reported: 07/22/2011
Project Name: INDIAN BASIN CTB
Project Number: NONE GIVEN
Project Location: CARLSBAD, NM

Sampling Date: 07/14/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ 4 FT (H101465-04)

BTEX 8021B		mg/kg	Analyzed By: CMS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2011	ND	1.51	75.7	2.00	29.5	
Toluene*	0.222	0.050	07/21/2011	ND	1.63	81.5	2.00	28.3	
Ethylbenzene*	0.890	0.050	07/21/2011	ND	1.73	86.7	2.00	29.0	
Total Xylenes*	2.94	0.150	07/21/2011	ND	5.21	86.9	6.00	27.7	

Surrogate: 4-Bromofluorobenzene (PIL) 201 % 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	07/18/2011	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	242	10.0	07/18/2011	ND	201	101	200	3.59	
DRO >C10-C28	2280	10.0	07/18/2011	ND	170	85.1	200	0.0329	

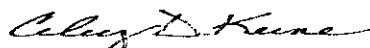
Surrogate: 1-Chlorooctane 122 % 70-130

Surrogate: 1-Chlorooctadecane 116 % 70-130

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: 07/15/2011
Reported: 07/22/2011
Project Name: INDIAN BASIN CTB
Project Number: NONE GIVEN
Project Location: CARLSBAD, NM

Sampling Date: 07/14/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ 5 FT (H101465-05)

BTEX 8021B		mg/kg	Analyzed By: CMS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2011	ND	1.51	75.7	2.00	29.5	
Toluene*	0.112	0.050	07/21/2011	ND	1.63	81.5	2.00	28.3	
Ethylbenzene*	0.722	0.050	07/21/2011	ND	1.73	86.7	2.00	29.0	
Total Xylenes*	2.45	0.150	07/21/2011	ND	5.21	86.9	6.00	27.7	

Surrogate: 4-Bromofluorobenzene (PIL) 190 % 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	07/18/2011	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	202	10.0	07/18/2011	ND	201	101	200	3.59	
DRO >C10-C28	1920	10.0	07/18/2011	ND	170	85.1	200	0.0329	

Surrogate: 1-Chlorooctane 125 % 70-130

Surrogate: 1-Chlorooctadecane 115 % 70-130

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/15/2011
Reported: 07/22/2011
Project Name: INDIAN BASIN CTB
Project Number: NONE GIVEN
Project Location: CARLSBAD, NM

Sampling Date: 07/14/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 6 @ 2 FT (H101465-06)

BTEX 8021B		mg/kg		Analyzed By: CMS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2011	ND	1.51	75.7	2.00	29.5	
Toluene*	0.925	0.050	07/21/2011	ND	1.63	81.5	2.00	28.3	
Ethylbenzene*	1.87	0.050	07/21/2011	ND	1.73	86.7	2.00	29.0	
Total Xylenes*	2.40	0.150	07/21/2011	ND	5.21	86.9	6.00	27.7	

Surrogate: 4-Bromofluorobenzene (PIL) 260 % 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	07/18/2011	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	723	10.0	07/18/2011	ND	201	101	200	3.59	
DRO >C10-C28	2460	10.0	07/18/2011	ND	170	85.1	200	0.0329	

Surrogate: 1-Chlorooctane 101 % 70-130

Surrogate: 1-Chlorooctadecane 110 % 70-130

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

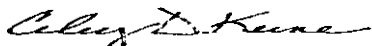
Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO										ANALYSIS REQUEST									
Company Name: BBC International, Inc.										P.O. #:									
Project Manager: Cliff Brunson										Company:									
Address: P.O. Box 805										Attn:									
City: Hobbs										State: NM Zip: 88241									
Phone #: 575-397-6388										Fax #: 575-397-0397									
Project #:										Project Owner: OXY MC									
Project Name: INDIAN BASIN CENTRAL TANK BATTERY										State: Zip:									
Project Location: Coalsbad, NM										Phone #: Fax #:									
Sampler Name: Jeff O'Connell										Fax #:									
Lab I.D.	Sample I.D.	# CONTAINERS	(G) RAB OR (C) O.M.P.	MATRIX	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME	104	BTEX	104	
H101465	-1	1	G	GROUNDWATER	X	X	X	X	X	X	X	X	X	7-4-11	1035	X	X	X	
	2	1	G	GROUNDWATER	X	X	X	X	X	X	X	X	X	1120	X	X	X		
	3	1	G	GROUNDWATER	X	X	X	X	X	X	X	X	X	100	X	X	X		
	4	1	G	GROUNDWATER	X	X	X	X	X	X	X	X	X	139	X	X	X		
	5	1	G	GROUNDWATER	X	X	X	X	X	X	X	X	X	145	X	X	X		
	6	1	G	GROUNDWATER	X	X	X	X	X	X	X	X	X	146	X	X	X		

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Relinquished By: <i>Jeff O'Connell</i>	Date: 7-15-11	Received By: <i>Wade Henderson</i>	Date: 7-15-11
Relinquished By:	Date:	Received By:	Date:

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 checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	<i>Wade Henderson</i>

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:
Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:
REMARKS:

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

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Tuesday, October 11, 2011 3:10 PM
To: Cliff P. Brunson
Cc: Dusty Wilson; C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: Oxy-Indian Basin Central Tank Battery

Reference: OXY USA * Indian Basin CTB (CTB-400) Old Ranch Knoll 8 #5 * 30-015-31326 * K-8-22s-24e * Eddy County, New Mexico

OCD Reference Number: 2RP-628 * DOR: 2/11/11

Cliff,

As discussed, the remediation proposal submitted for cleanup of the above referenced produced fluid release is approved with the following conditions and/or stipulations:

- Notify OCD District 2 office 48 hours prior to commencement of remedial activities.
- Notify OCD District 2 office 48 hours prior to obtaining any samples where the analyses will be submitted to OCD.
- Confirmation samples may be required, dependent on actual excavation depth achieved. OCD approval required prior to backfilling any excavated area.
- Submit a Form C-141 Final Report and closure report upon satisfactory completion of project.
- Project is to be completed and closure documentation submitted to OCD not later than December 11, 2011.
- Like approval by BLM or any other regulatory authority as may be applicable.

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

From: Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Friday, September 16, 2011 6:59 PM
To: Bratcher, Mike, EMNRD
Cc: Dusty Wilson; C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Oxy-Indian Basin Central Tank Battery

Mike,

This e-mail is to confirm our discussion on September 13, 2011 concerning the remediation plan for the release that occurred at the Oxy Indian Basin Central Tank Battery. As agreed, Oxy will hand excavate 1 to 2 feet of the impacted soil in the spill area or as practicable. The excavation will then be backfilled with clean soil appropriate for the interior of a battery. In addition, natural attenuation will be occurring for the subsurface hydrocarbons that will be remaining after the excavation. The depth to groundwater in this area is approximately 100 feet.

I have attached the site drawing and laboratory data and a few pictures that we reviewed during our discussion for your files. If you would please reply back via e-mail with your concurrence of this remediation plan, it would be greatly appreciated.

Oxy and I thank you for your assistance in handling this matter.

Thanks, Cliff

Cliff Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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Kathy Purvis

From: Cliff P. Brunson <cbrunson@bbcinternational.com>
Sent: Wednesday, January 30, 2013 4:02 PM
To: Kathy Purvis
Subject: FW: Undesirable Event: 11NU043TG, Indian Basin Central Tank Battery: cleanup plan approval stipulations

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
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Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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From: Terry Gregston <tgregsto@blm.gov>
Date: Thursday, January 24, 2013 10:41 AM
To: C J Summers <Chancey_Summers@oxy.com>, Cliff Brunson <cbrunson@bbcinternational.com>, Mike Bratcher <mike.bratcher@state.nm.us>, Chris Jones <Christopher_Jones@oxy.com>
Cc: James Amos <jamos@blm.gov>
Subject: Undesirable Event: 11NU043TG, Indian Basin Central Tank Battery: cleanup plan approval stipulations

Gentlemen,

This notification is in regard to the following location and undesirable event:

Event Number: 11NU043TG
Event Date: 2/11/2011
Event Name: Indian Basin Central Tank Battery
Legals: T22S/R24E, sec. 8, SESW

The submitted cleanup plan for the above location is approved with the following conditions of approval:

Notification Stipulations:

1. A copy of the cleanup plan and conditions of approval must be given to the contractor or site work personnel and be present on the location during all cleanup operations.
2. The authorized officer must be notified at the following phases of cleanup or conditions:
 - a. Prior to moving equipment on location for cleanup

- b. When the excavation is nearing completion and a BLM inspection of the excavation or witnessing of sampling is required by the cleanup plan COA's.
- c. When the cleanup work is nearing completion and to schedule a final onsite prior to removal of equipment.
- d. Three days before the site is seeded.
- e. Any time that a variance of the approved plan or conditions of approval is required.
- f. In the event that you encounter excavation difficulties, unexpected void areas, or archeological artifacts the Authorized Officer must be contacted immediately. An onsite may be required to assess the situation.

3. The authorized officer on this undesirable event case is:

Terry Gregston
(575) 361-2635
tgregsto@blm.gov

Facility Cleanup Stipulations:

Unlined facility:

- 1. The BLM requires horizontal cleanup of the spill impacted areas in addition to vertical cleanup/mitigation measures. In this case, the location is still a working tank battery location. As such, excavation depths in portions of the spill area in close proximity to standing production equipment may be limited due to safety concerns. In such cases, the cleanup measures will be considered a temporary spill abatement measure that will be further mitigated upon the abandonment of the well/facility location. Appropriate notations to that effect will be entered in the well file.
- 2. Cleanup will include removal of any contaminated berm materials and/or unsuitable berm materials such as sandy soils, gravels, or cobblestones. Tank battery berms should be built of compactable caliche that is capable of fluid containment.
- 3. The BLM may wish to inspect the excavation once it reaches cleanup depth/width. Confirmation samples of excavation sidewalls and any visibly affected areas outside of the excavation trench will be required; the BLM may witness the sampling. Contact the authorized officer to schedule.
- 4. Lab analysis of the confirmation sampling must be forwarded to the authorized officer for final approval before backfilling. Based on the sampling results, additional cleanup may be required or the site may be approved for closure.
- 5. Once final approval of cleanup is given, the excavation can be backfilled with compactable caliche to the level of the original native contour plus enough loft to accommodate the settling and compaction of unconsolidated fill soils.
- 6. Install secondary containment berms of good quality compactable caliche around existing production equipment and the pad to prevent future spills from being released off the facility location.

Pad Cleanup Stipulations:

- 1. Pad should be bermed with compactable material to prevent future spills from leaving the pad and impacting pasture areas.

Installation of Liner Cap in Spill Cleanup Areas:

- 1. The operator proposes to install a 1' clay liner in the tank battery as a spill stabilization measure until the tank battery is abandoned. Further mitigation of the spill impacted areas will take place at tank battery abandonment.

Other Stipulations:

- 1. Spill prevention alarms and automation will be tested to ensure that equipment is working properly.
- 2. At the time of the final onsite for this location, the production facilities, well pad, access road, and the surrounding pasture areas must be in a condition that will pass a routine inspection.
- 3. All household trash, debris, disconnected pipe and equipment must be removed from the area and the surrounding pasture and hauled to an authorized landfill. Do not bury cleanup trash, equipment debris, or household garbage in the cleanup excavation.

BLM approval of this proposal does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health, or the environment, or if the location fails to reclaim properly. In such an event that location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws/regulations.

Thank you for your attention to this matter,

Terry Gregston
Environmental Protection Specialist
Bureau of Land Management
620 E. Greene St.
Carlsbad, NM 88220
Office (575) 234-5958
Cell (575) 361-2635
Fax (575) 234-5927

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Terry,

I have attached a remediation packet of information for your review. This is the same information that was presented in our meeting on January 22, 2013. The packet includes a site diagram with sample points,, a lab data summary table, and the original lab data. As we discussed, Oxy will excavate the impacted soil to a depth of 2 feet across the entire battery area inside the berm and then a 1 foot compacted clay liner in the excavation, then backfill with appropriate clean soil. In addition, repairs will be made to the berm and insure that suitable material will be used that will provide better containment of any future fluid releases if they were to occur.

Oxy is therefore requesting the approval of the BLM to proceed with the submitted remediation plan. If you would please respond back via e-mail with your approval, it would be greatly appreciated. If you have any questions, please let us know.

Thank you,

Cliff