

Closure Report

RECEIVED

FEB 14 2014

NMOCD ARTESIA

Site Description

Site Name:	Righthand Canyon 35-7 SWD Battery
Company:	Oxy Permian Ltd.
Legal Description:	U/L K, Section 35, T21S, R42E
County:	Eddy County, NM
GPS Coordinates:	N 32.43428° W 104.46979°

Release Data

Date of Release:	06/30/2011 and 01/01/2014 (2 nd leak in exact same place)
Type of Release:	Produced water & oil, Produced water
Source of Release:	Gun barrel tank, tank overflow due to bad PLC card
Volume of Release:	800 bbls water & 100 bbls oil, 800 bbls water
Volume Recovered:	140 bbls total, 720 bbls

Remediation Specifications

Remediation Parameters:	Excavate to a depth of 1' in areas of SP1-SP3, & to a depth of 2' in areas of SP4-SP6. Remove impacted gravel inside lined battery and replace with appropriate clean material. Obtain confirmation bottom & sidewall samples. Backfill excavations w/ clean soil. Microblaze remaining TPH as needed.
Remediation Activities:	12/9/2013 to 1/21/2014

Plan Sent to OCD:	09/23/2012	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	11/13/2012	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	12/16/2012	Email from Cliff Brunson to James Amos
BLM Approval of Plan:	12/17/2012	Email from James Amos to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 07/06/2011, Signed 01/09/2014
Final C-141	Signed 02/12/2014 (both)
Site Diagram	January 2012, January 2014
Groundwater Plot	75'-80'
TOPO Maps	January 2012
Lab Summary	04/05/2012, 01/03/2014, 01/10/2014
Lab Analysis	04/05/2012, 01/03/2014, 01/10/2014
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.

02/13/2014

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

Release Notification and Corrective Action

MLB/122338019

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company OXY USA 192463	Contact Kelton Beaird
Address 1502 W. Commerce Carlsbad, NM 88220	Telephone No. (O) 575-628-4100
Facility Name Righthand Canyon 35-7	Facility Type SWD

Surface Owner	Mineral Owner	Lease No. API: 3001534529
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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
	35	21S	24E					Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Produced Water & Oil	Volume of Release 800 water/100 oil	Volume Recovered 140
Source of Release Gun Barrel Tank	Date and Hour of Occurrence	Date and Hour of Discovery 6-30-11 @ 4:00pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher: NMOCD, Jim Amos-BLM	
By Whom? Kelton Beaird (Oxy)	Date and Hour See above 7/1/11 7:15A	
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.*

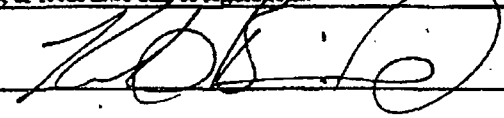
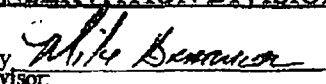
Describe Cause of Problem and Remedial Action Taken.*

Tank Collapsed causing fluid to be released. Vacuum Truck was called to pick up remaining fluid.

Describe Area Affected and Cleanup Action Taken.*

Area affected was on and off of location into the pasture down the bottom of the slope north of the location. As per request by BLM and upon like approval by the state, the area off location on top just before the ravine will be washed with biodegradable soap. A catchment basin will be installed to gather all free liquid. The affected area on the road and on location will be cleaned up to required state levels or hard rock, whichever is met first.

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	Signed By  Approved by District Supervisor.	
Title: HES Specialist	Approval Date: AUG 11 2011	Expiration Date:
E-mail Address: kelton.beaird@oxy.com	Conditions of Approval: Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN: 9/11/2011	Attached <input type="checkbox"/>
Date: 7-6-11		

* Attach Additional Sheets If Necessary

2RP-828
Leak 1

District I
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Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Righthand Canyon 35-7 SWD Battery	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	API No.30-015-34529(nearest well)

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	35	21S	24E					Eddy County, NM

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	800 bbls	Volume Recovered	720 bbls
Source of Release	Bad service card on PLC caused power loss to pumps so tanks spilled over	Date and Hour of Occurrence	01/01/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-NMOCD, James Amos-BLM		
By Whom?	Jennifer Gilkey, BBC International	Date and Hour	01/02/2014 @ 1:58 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.*					
Describe Cause of Problem and Remedial Action Taken.* A bad service card on the PLC caused a power loss to the pumps causing the tanks to spill 800 bbls of produced water onto the ground. 720 bbls of produced water were recovered via vacuum truck and the service card was replaced.					
Describe Area Affected and Cleanup Action Taken.* The affected area is approximately 60' x 100' on location. Remediation will be completed in accordance with a plan approved by NMOCD and the BLM.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Signature: 		OIL CONSERVATION DIVISION			
Printed Name: Christopher Jones		Approved by District Supervisor:			
Title: HES Specialist		Approval Date:		Expiration Date:	
E-mail Address: Christopher_Jones@oxy.com		Conditions of Approval:		Attached <input type="checkbox"/>	
Date: 1/9/14		Phone: (575) 628-4121			

* Attach Additional Sheets If Necessary

Leak 2

District I
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OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Righthand Canyon 35-7	Facility Type	SWD
Surface Owner	Mineral Owner	API No. 30-015-34529	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	35	21S	24E					Eddy County, NM

Latitude **N 32.43428°** Longitude **W 104.46379°**

NATURE OF RELEASE

Type of Release	Produced water & Oil	Volume of Release	800 bbls water, 100 bbls oil	Volume Recovered	140 bbls
Source of Release	Gun Barrel Tank	Date and Hour of Occurrence		Date and Hour of Discovery	06/30/2011 @ 4:00 pm
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher- NMOCD, Jim Amos- BLM		
By Whom?	Kelton Beard (Oxy)	Date and Hour	07/01/2011 @ 7:15 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

RECEIVED

FEB 14 2014

NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The collapse of a gun barrel tank caused 800 bbls of produced water and 100 bbls of oil to leak onto the ground. A vacuum truck picked up all free-standing fluids.

Describe Area Affected and Cleanup Action Taken.*

The area affected was on the location and into the pasture down the bottom of the slope North of the location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/13/2012 and approved by James Amos of the BLM via email on 12/17/2012.

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OIL CONSERVATION DIVISION

Signature:	Approved by District Supervisor:		
Printed Name: Christopher Jones	Approval Date:	Expiration Date:	Attached <input type="checkbox"/>
Title: HES Specialist	Conditions of Approval:		
E-mail Address: Christopher.Jones@oxy.com			
Date: 2/12/14	Phone: (575) 628-4121		

* Attach Additional Sheets If Necessary

Leak 1

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Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Righthand Canyon 35-7 SWD Battery	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	
		API No. 30-015-34529 (nearest well)	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	35	21S	24E					Eddy County, NM

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	800 bbls	Volume Recovered	720 bbls
Source of Release	Bad service card on PLC caused power loss to pumps so tanks spilled over	Date and Hour of Occurrence	01/01/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher-NMOCD, James Amos-BLM			
By Whom?	Jennifer Gilkey, BBC International	Date and Hour 01/02/2014 @ 1:58 pm			
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Printed Name: Christopher Jones		Approved by District Supervisor:			
Title: HES Specialist		Approval Date:		Expiration Date:	
E-mail Address: Christopher.Jones@oxy.com		Conditions of Approval:		Attached <input type="checkbox"/>	
Date: 2/12/14		Phone: (575) 628-4121			

* Attach Additional Sheets If Necessary

Leak 2

Righthand Canyon 35 Federal #7 SWD



U/L K, Section 35, T21S, R24E
Eddy County, NM
N 32.43428 W 104.46979

Road

Lined Battery

★ SP1

★ SP7

★ SP2

★ SP8

★ SP6

★ SP5

★ SP3

★ SP4

BBC International, Inc.

Oxy

Righthand Canyon 35 Fed #7 SWD

Date: 04/10/12

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2012

15K

Righthand Canyon 35 Federal #7 SWD

Road

Lined Battery

SP1



U/L K, Section 35, T21S, R24E
Eddy County, NM
N 32.43428 W 104.46979

BBC International, Inc.

Oxy

Righthand Canyon 35 Fed #7 SWD

Date: 01/01/2014

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2014

2nd

Righthand Canyon 35 Federal #7 SWD



Road

Lined Battery

U/L K, Section 35, T21S, R24E
Eddy County, NM
N 32.43428 W 104.46979

Confirmation sample
Sidewall 1

Confirmation sample
Bottom 1

Confirmation sample
Sidewall 2

Confirmation sample
Sidewall 4

Confirmation sample
Bottom 2

Confirmation sample
Sidewall 3

BBC International, Inc.

Oxy

Righthand Canyon 35 Fed #7 SWD

Date: 01/16/14

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2013

Confirmation



Groundwater Plot

Oxy Righthand Canyon 35-7 SWD Btry

County
Eddy

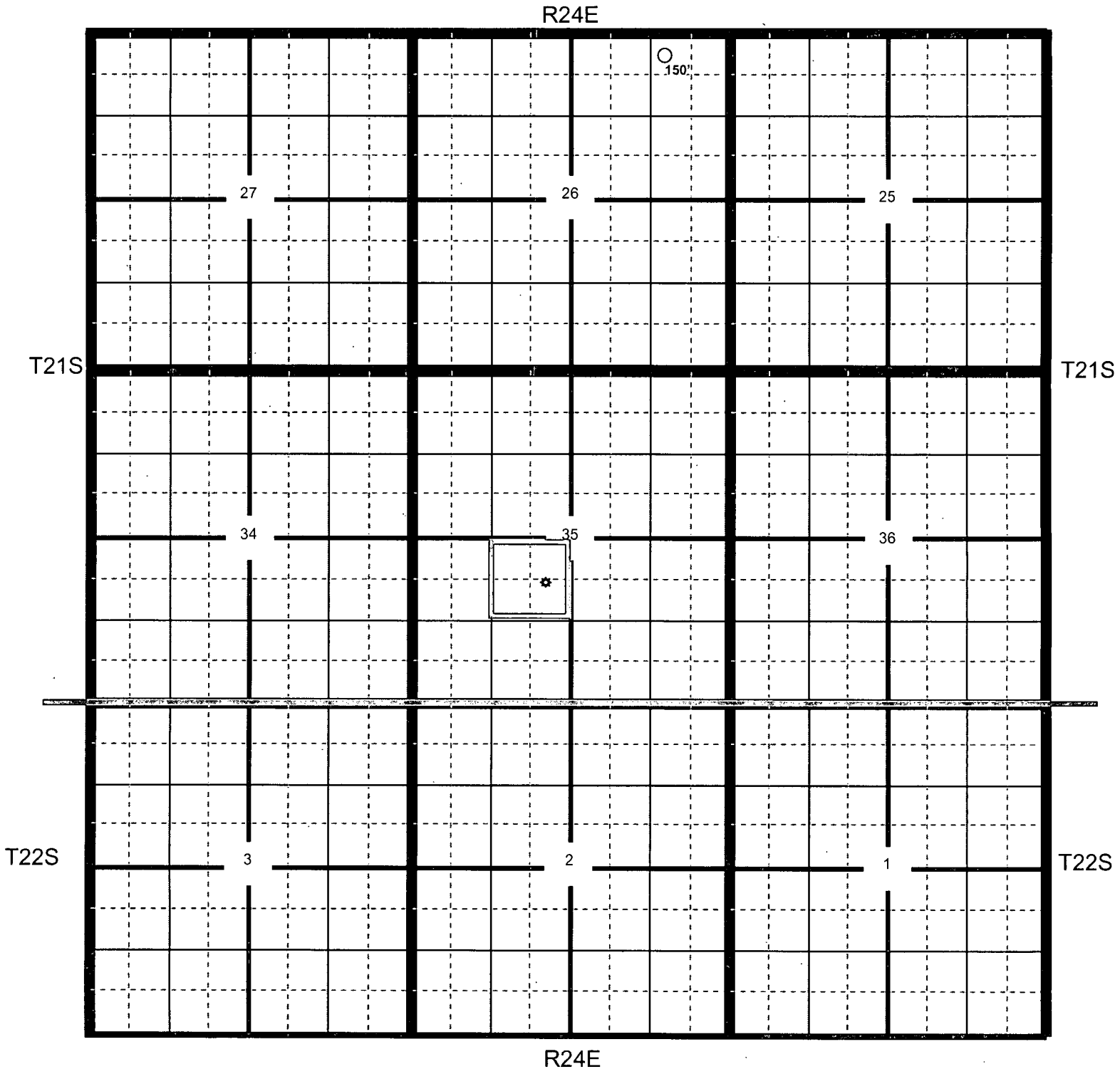
Unit Letter
K

Section
35

Township
21S

Range
24E

Trend Map 75'-80'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases

Both

Oxy Righthand Canyon 35-7 SWD Btry

County Eddy Unit Letter K Section 35 Township 21S Range 24E

Trend Map 75'-80'

1

2

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

3

4

⊛ Location

○ OCD

○ USGS

○ SEO

● All Databases

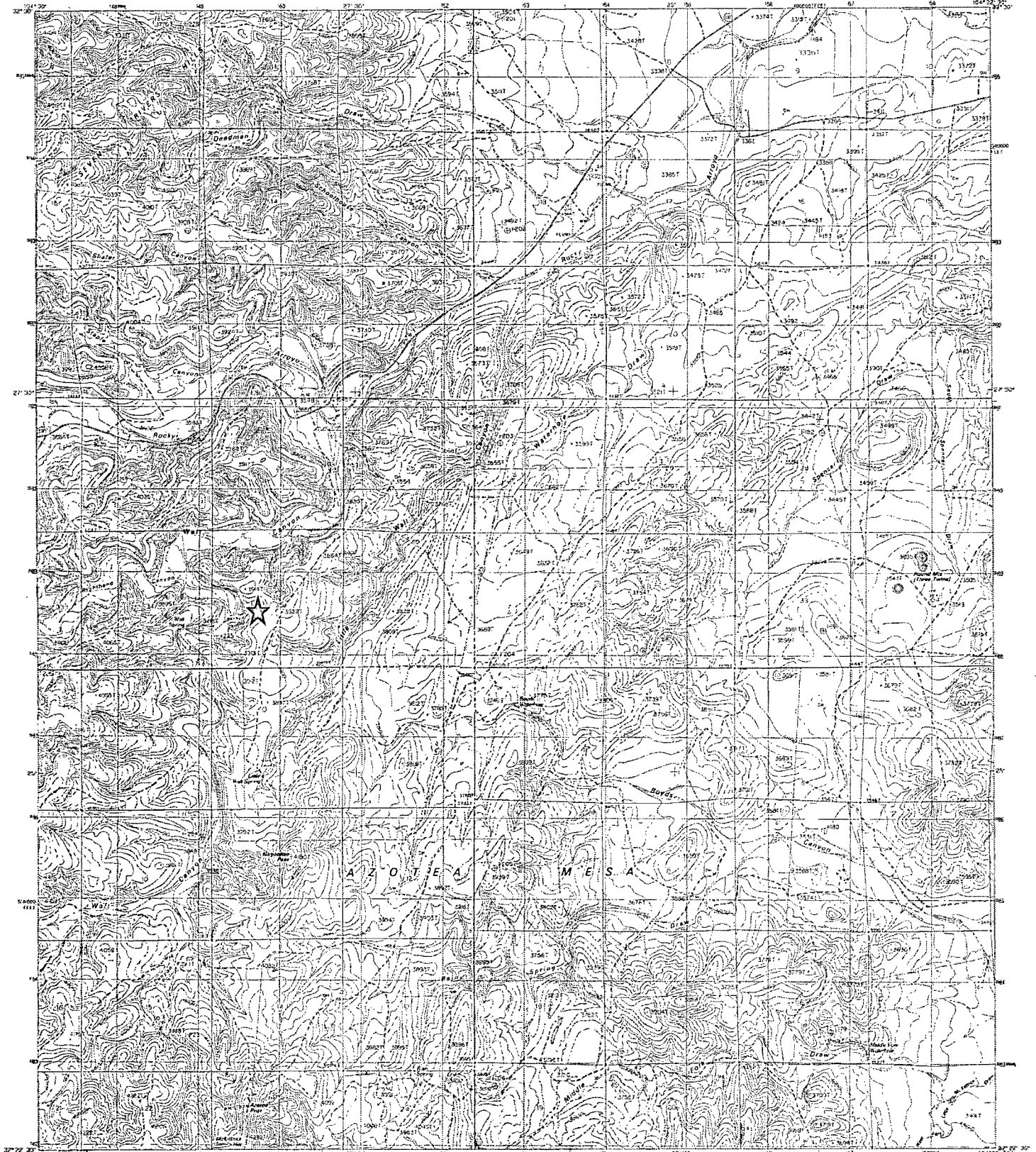
Both

Oxy

Righthand Canyon 35-7 SWD Battery

AZOTEA PEAK QUADRANGLE
NEW MEXICO-EDDY CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



PROVISIONAL MAP
Produced from original
manuscript drawings. Infor-
mation shown as of date of
field check.

THIS MAP COMPLETES THE NATIONAL MAP SERIES
FOR SALE BY THE GEOLOGICAL SURVEY, WASHINGTON, D.C. 20508
OR BOSTON, VIRGINIA 22062

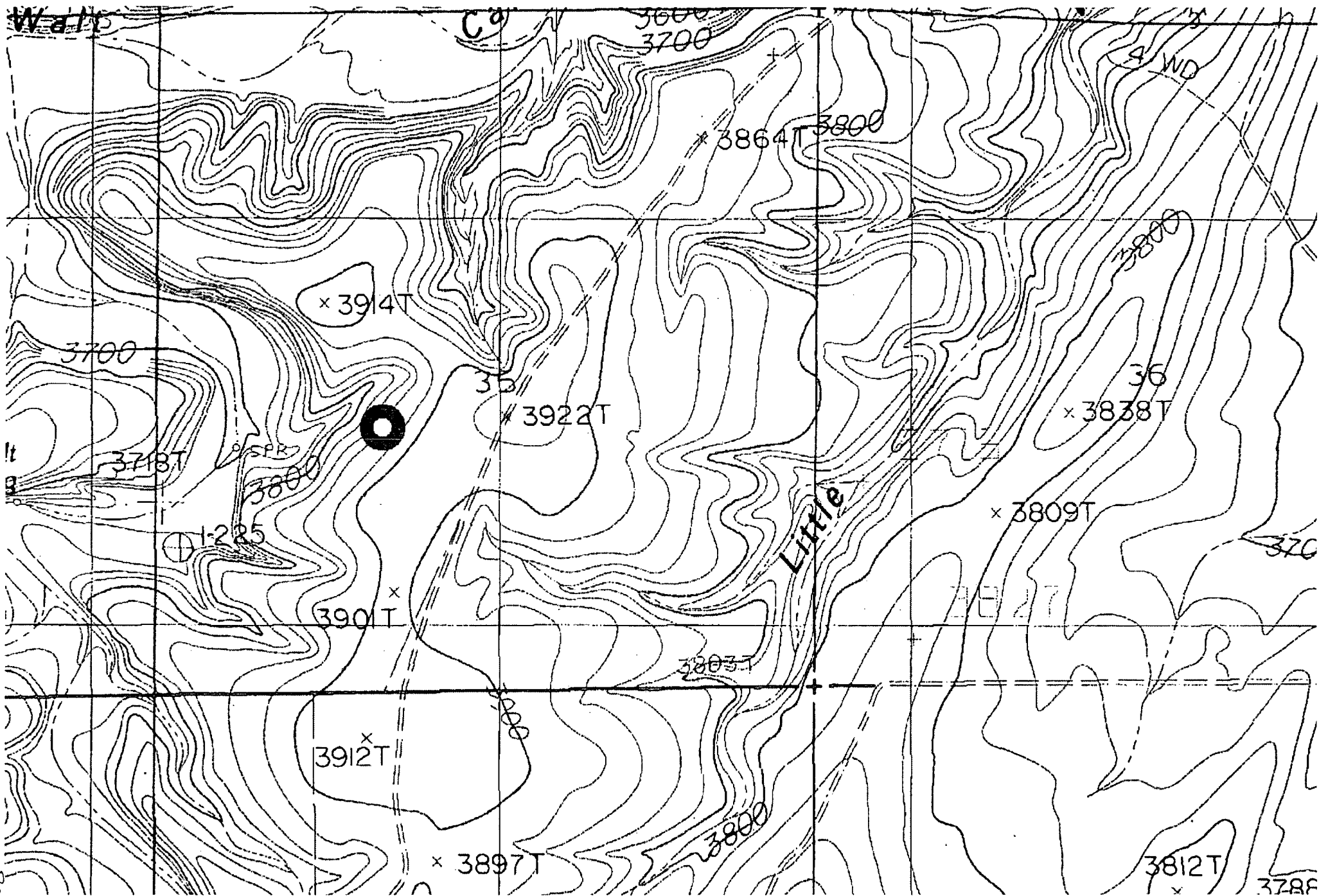
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

AZOTEA PEAK, NEW MEXICO
PROVISIONAL EDITION 1985
1:104-04-17-024

Both

Oxy

Righthand Canyon 35-7 SWD Battery



**Laboratory Analytical Results Summary
Right Hand Canyon 35-7 SWD**

		Sample	SP1 @ Surface	SP1 @ 1 ft	SP2 @ Surface	SP2 @ 1 ft	SP3 @ Surface	SP3 @ 1 ft	SP4 @ Surface	SP4 @ 1 ft
Analyte	Method	Date	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.056
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Chloride	SM4500Cl-B		256	<16.0	576	80.0	<16.0	32.0	96.0	48.0
GRO	TPH 8015M		<10.0	<10.0	<50.0	<10.0	<50.0	<10.0	<10.0	<10
DRO	TPH 8015M		556	748	8110	218	8390	863	2360	1690

		Sample	SP5 @ Surface	SP5 @ 1 ft	SP6 @ Surface	SP6 @ 1 ft	SP7 @ Surface	SP7 @ 1 ft	SP8 @ Surface	SP8 @ 1 ft
Analyte	Method	Date	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	0.167	<0.150
Chloride	SM4500Cl-B		560.0	80.0	400	144	<16.0	<16.0	192	32.0
GRO	TPH 8015M		<10.0	<10.0	60.9	14.1	<10.0	<10.0	61.0	11.3
DRO	TPH 8015M		2390	1770	20300	3310	209	<10.0	40600	522

15x

**Laboratory Analytical Results Summary
Righthand Canyon 35-7 SWD Battery**

		Sample	SP1 @ SURFACE	SP1 @ 6"	SP1 @ 1'
Analyte	Method	Date	1/3/14	1/3/14	1/3/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		880	80	48
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		244	29.5	24.7

**Laboratory Analytical Results Summary
Righthand Canyon 35-7**

Confirmation		Sample	SIDEWALL 1	SIDEWALL 2	SIDEWALL 3	SIDEWALL 4
Analyte	Method	Date	1/10/14	1/10/14	1/10/14	1/10/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		240	224	<16.0	240
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		903	1240	16.7	525

		Sample	BOTTOM 1	BOTTOM 2
Analyte	Method	Date	1/10/14	1/10/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		224	144
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		836	280

Confirmation



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

April 12, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RIGHT HAND CANYON 35-7 SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/09/12 10:05.

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.

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: 04/09/2012
 Reported: 04/12/2012
 Project Name: RIGHT HAND CANYON 35-7 SWD
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 04/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H200800-01)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/11/2012	ND	400	100	400	3.92	

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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	556	10.0	04/11/2012	ND	221	110	200	12.5	

Surrogate: 1-Chlorooctane 108 % 55.5-154

Surrogate: 1-Chlorooctadecane 127 % 57.6-158

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

Received: 04/09/2012
Reported: 04/12/2012
Project Name: RIGHT HAND CANYON 35-7 SWD
Project Number: NONE GIVEN
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 04/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1 FT (H200800-02)

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	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 64.4-134

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	04/11/2012	ND	400	100	400	3.92		

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	04/11/2012	ND	197	98.7	200	3.96		
DRO >C10-C28	748	10.0	04/11/2012	ND	221	110	200	12.5		

Surrogate: 1-Chlorooctane 110 % 55.5-154

Surrogate: 1-Chlorooctadecane 139 % 57.6-158

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Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: SP 2 @ SURFACE (H200800-03)

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	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 64.4-134

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	04/12/2012	ND	197	98.7	200	3.96		
DRO >C10-C28	8110	50.0	04/12/2012	ND	221	110	200	12.5		

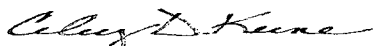
Surrogate: 1-Chlorooctane 123 % 55.5-154

Surrogate: 1-Chlorooctadecane 325 % 57.6-158

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Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: SP 2 @ 1 FT (H200800-04)

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	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/11/2012	ND	400	100	400	3.92		

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	04/11/2012	ND	197	98.7	200	3.96		
DRO >C10-C28	218	10.0	04/11/2012	ND	221	110	200	12.5		

Surrogate: 1-Chlorooctane 114 % 55.5-154

Surrogate: 1-Chlorooctadecane 147 % 57.6-158

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

Received: 04/09/2012
Reported: 04/12/2012
Project Name: RIGHT HAND CANYON 35-7 SWD
Project Number: NONE GIVEN
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 04/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ SURFACE (H200800-05)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 64.4-134

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	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	04/12/2012	ND	197	98.7	200	3.96		
DRO >C10-C28	8390	50.0	04/12/2012	ND	221	110	200	12.5		

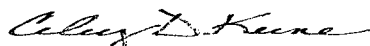
Surrogate: 1-Chlorooctane 130 % 55.5-154

Surrogate: 1-Chlorooctadecane 329 % 57.6-158

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

Received: 04/09/2012
Reported: 04/12/2012
Project Name: RIGHT HAND CANYON 35-7 SWD
Project Number: NONE GIVEN
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 04/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1 FT (H200800-06)

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	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2012	ND	400	100	400	3.92	

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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	863	10.0	04/11/2012	ND	221	110	200	12.5	

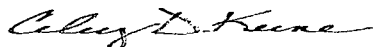
Surrogate: 1-Chlorooctane 120 % 55.5-154

Surrogate: 1-Chlorooctadecane 132 % 57.6-158

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

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: SP 4 @ SURFACE (H200800-07)

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	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 64.4-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/11/2012	ND	400	100	400	3.92	

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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	2360	10.0	04/11/2012	ND	221	110	200	12.5	

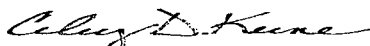
Surrogate: 1-Chlorooctane 118 % 55.5-154

Surrogate: 1-Chlorooctadecane 129 % 57.6-158

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

Received: 04/09/2012
Reported: 04/12/2012
Project Name: RIGHT HAND CANYON 35-7 SWD
Project Number: NONE GIVEN
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 04/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1 FT (H200800-08)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	0.056	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	

Surrogate: 4-Bromofluorobenzene (PIL) 122 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/11/2012	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					

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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	1690	10.0	04/11/2012	ND	221	110	200	12.5	


Surrogate: 1-Chlorooctane 116 % 55.5-154

Surrogate: 1-Chlorooctadecane 126 % 57.6-158

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 Cliff Brunson
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 Fax To: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: SP 5 @ SURFACE (H200800-09)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	04/11/2012	ND	400	100	400	3.92	

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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	2390	10.0	04/11/2012	ND	221	110	200	12.5	

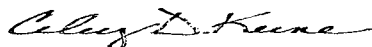
Surrogate: 1-Chlorooctane 115 % 55.5-154

Surrogate: 1-Chlorooctadecane 128 % 57.6-158

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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: 04/09/2012
 Reported: 04/12/2012
 Project Name: RIGHT HAND CANYON 35-7 SWD
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 04/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ 1 FT (H200800-10)

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	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/11/2012	ND	400	100	400	3.92	

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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	1770	10.0	04/11/2012	ND	221	110	200	12.5	


Surrogate: 1-Chlorooctane 120 % 55.5-154

Surrogate: 1-Chlorooctadecane 126 % 57.6-158

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

Received: 04/09/2012
Reported: 04/12/2012
Project Name: RIGHT HAND CANYON 35-7 SWD
Project Number: NONE GIVEN
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 04/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 6 @ SURFACE (H200800-11)

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	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	04/11/2012	ND	400	100	400	3.92		

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	60.9	50.0	04/12/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	20300	50.0	04/12/2012	ND	221	110	200	12.5	

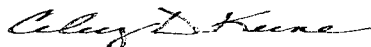
Surrogate: 1-Chlorooctane 130 % 55.5-154

Surrogate: 1-Chlorooctadecane 331 % 57.6-158

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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: 04/09/2012
Reported: 04/12/2012
Project Name: RIGHT HAND CANYON 35-7 SWD
Project Number: NONE GIVEN
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 04/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 6 @ 1 FT (H200800-12)

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	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	14.1	10.0	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	3310	10.0	04/11/2012	ND	221	110	200	12.5	

Surrogate: 1-Chlorooctane 118 % 55.5-154

Surrogate: 1-Chlorooctadecane 119 % 57.6-158

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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:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: SP 7 @ SURFACE (H200800-13)

8TEX 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	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134

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	04/11/2012	ND	400	100	400	3.92		

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	04/12/2012	ND	207	103	200	4.03		
DRO >C10-C28	209	10.0	04/12/2012	ND	234	117	200	15.1		

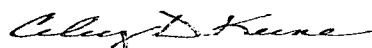
Surrogate: 1-Chlorooctane 106 % 55.5-154

Surrogate: 1-Chlorooctadecane 133 % 57.6-158

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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: 04/09/2012
 Reported: 04/12/2012
 Project Name: RIGHT HAND CANYON 35-7 SWD
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 04/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 7 @ 1 FT (H200800-14)

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	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134

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	04/11/2012	ND	400	100	400	3.92		

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	04/12/2012	ND	207	103	200	4.03	
DRO >C10-C28	<10.0	10.0	04/12/2012	ND	234	117	200	15.1	

Surrogate: 1-Chlorooctane 115 % 55.5-154

Surrogate: 1-Chlorooctadecane 143 % 57.6-158

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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: 04/09/2012
 Reported: 04/12/2012
 Project Name: RIGHT HAND CANYON 35-7 SWD
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 04/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 8 @ SURFACE (H200800-15)

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	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	0.167	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/11/2012	ND	400	100	400	3.92		

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	61.0	50.0	04/12/2012	ND	207	103	200	4.03	
DRO >C10-C28	40600	50.0	04/12/2012	ND	234	117	200	15.1	

Surrogate: 1-Chlorooctane 102 % 55.5-154

Surrogate: 1-Chlorooctadecane 613 % 57.6-158

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* = Accredited Analyte

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Analytical Results For:

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

 Received: 04/09/2012
 Reported: 04/12/2012
 Project Name: RIGHT HAND CANYON 35-7 SWD
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 04/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 8 @ 1 FT (H200800-16)

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	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2012	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	11.3	10.0	04/12/2012	ND	207	103	200	4.03		
DRO >C10-C28	522	10.0	04/12/2012	ND	234	117	200	15.1		

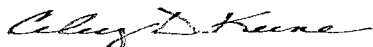
Surrogate: 1-Chlorooctane 103 % 55.5-154

Surrogate: 1-Chlorooctadecane 128 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

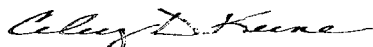
Notes and Definitions

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

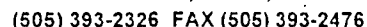
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Celey D. Keene, Lab Director/Quality Manager



Page 19 of 20



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Relinquished By: <u>Jordan Woody</u> Date: <u>8-9-12</u> Time: <u>8:00 AM</u>		Received By: <u>Ken Swearing</u> Date: <u>8-9-12</u> Time: <u>10:00 AM</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ REMARKS: <u>EMAIL ALL</u>	
Relinquished By: <u>Ken Swearing</u> Date: <u>8-9-12</u> Time: <u>10:00 AM</u>		Received By: <u>Godi Jensen</u> Date: <u>8-9-12</u> Time: <u>10:00 AM</u>			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <u>50%</u>		CHECKED BY: (Initials) <u>AK</u>	

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



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

January 13, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RIGHT HAND CANYON 35

Enclosed are the results of analyses for samples received by the laboratory on 01/07/14 8:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 01/07/2014
 Reported: 01/13/2014
 Project Name: RIGHT HAND CANYON 35
 Project Number: NONE GIVEN
 Project Location: INDIAN BASIN

 Sampling Date: 01/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H400039-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2014	ND	1.86	93.1	2.00	2.40	
Toluene*	<0.050	0.050	01/09/2014	ND	1.85	92.5	2.00	2.47	
Ethylbenzene*	<0.050	0.050	01/09/2014	ND	1.90	94.8	2.00	2.46	
Total Xylenes*	<0.150	0.150	01/09/2014	ND	5.64	93.9	6.00	1.54	
Total BTEX	<0.300	0.300	01/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	880	16.0	01/09/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/08/2014	ND	175	87.7	200	2.38	
DRO >C10-C28	244	10.0	01/08/2014	ND	180	90.1	200	1.19	


Surrogate: 1-Chlorooctane 83.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.3 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 01/07/2014
 Reported: 01/13/2014
 Project Name: RIGHT HAND CANYON 35
 Project Number: NONE GIVEN
 Project Location: INDIAN BASIN

 Sampling Date: 01/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 6" (H400039-02)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2014	ND	1.92	96.1	2.00	2.06		
Toluene*	<0.050	0.050	01/09/2014	ND	1.89	94.6	2.00	2.20		
Ethylbenzene*	<0.050	0.050	01/09/2014	ND	1.93	96.4	2.00	2.32		
Total Xylenes*	<0.150	0.150	01/09/2014	ND	5.63	93.8	6.00	2.42		
Total BTEX	<0.300	0.300	01/09/2014	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/09/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/08/2014	ND	175	87.7	200	2.38	
DRO >C10-C28	29.5	10.0	01/08/2014	ND	180	90.1	200	1.19	

Surrogate: 1-Chlorooctane 90.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.0 % 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: (575) 397-0397

Received:	01/07/2014	Sampling Date:	01/03/2014
Reported:	01/13/2014	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

Sample ID: SP 1 @ 1' (H400039-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2014	ND	1.92	96.1	2.00	2.06		
Toluene*	<0.050	0.050	01/09/2014	ND	1.89	94.6	2.00	2.20		
Ethylbenzene*	<0.050	0.050	01/09/2014	ND	1.93	96.4	2.00	2.32		
Total Xylenes*	<0.150	0.150	01/09/2014	ND	5.63	93.8	6.00	2.42		
Total BTEX	<0.300	0.300	01/09/2014	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/09/2014	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: ms					

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	01/08/2014	ND	175	87.7	200	2.38	
DRO >C10-C28	24.7	10.0	01/08/2014	ND	180	90.1	200	1.19	

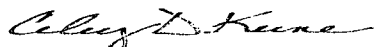
Surrogate: 1-Chlorooctane 83.7 % 63.2-140

Surrogate: 1-Chlorooctadecane 86.9 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager


Notes and Definitions

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

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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

Page 6 of 6

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST													
Project Manager: Cliff Brunson				P.O. #:																	
Address: P.O. Box 805				Company:																	
City: Hobbs		State: NM		Zip: 88241		Attn: SAME															
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:		City:															
Project #:		Project Owner: OXY		State:		Zip:															
Project Name: Right Hand Canyon 350		Project Location: Indian Basin		Phone #:		Fax #:															
Sampler Name: ROGER HERNANDEZ																					
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		MATRIX		PRESERV		SAMPLING													
H4DD039																					
1 SP10 SURFACE		C 1																			
2 @ 6"		C 1																			
3 @ 1'		C 1																			

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Relinquished By: ROGER HERNANDEZ		Date: 1-7-14		Received By: Ramon Montoya		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 8:10				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: Ramon Montoya		Date: 1-7-14		Received By: Jodi Benson		REMARKS:			
		Time: 8:13							
Delivered By: (Circle One)									
Sampler - UPS - Bus - Other:		2.20		Sample Condition					
				Cool Intact					
				Yes Yes					
				No No					
				CHECKED BY: (Initials)					

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

#54



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

January 14, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RIGHT HAND CANYON 35

Enclosed are the results of analyses for samples received by the laboratory on 01/13/14 16:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' at the beginning.

Celey D. Keene

Lab Director/Quality Manager

A handwritten signature in black ink, likely of the same person as the one above, written in a cursive style.

Analytical Results For:

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

Received: 01/13/2014
Reported: 01/14/2014
Project Name: RIGHT HAND CANYON 35
Project Number: NONE GIVEN
Project Location: INDIAN BASIN

Sampling Date: 01/10/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SIDEWALL 1 (H400109-01)

BTEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2014	ND	1.97	98.7	2.00	5.22	
Toluene*	<0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25	
Ethylbenzene*	<0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02	
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47	
Total BTEX	<0.300	0.300	01/14/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/14/2014	ND	432	108	400	7.14	

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	01/14/2014	ND	209	105	200	6.89	
DRO >C10-C28	903	10.0	01/14/2014	ND	233	116	200	1.72	

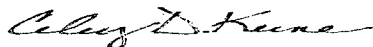
Surrogate: 1-Chlorooctane 75.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.2 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 01/13/2014
 Reported: 01/14/2014
 Project Name: RIGHT HAND CANYON 35
 Project Number: NONE GIVEN
 Project Location: INDIAN BASIN

 Sampling Date: 01/10/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SIDEWALL 2 (H400109-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2014	ND	1.97	98.7	2.00	5.22		
Toluene*	<0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25		
Ethylbenzene*	<0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02		
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47		
Total BTEX	<0.300	0.300	01/14/2014	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/14/2014	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/14/2014	ND	209	105	200	6.89	
DRO >C10-C28	1240	10.0	01/14/2014	ND	233	116	200	1.72	


Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 158 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 01/13/2014
 Reported: 01/14/2014
 Project Name: RIGHT HAND CANYON 35
 Project Number: NONE GIVEN
 Project Location: INDIAN BASIN

 Sampling Date: 01/10/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SIDEWALL 3 (H400109-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2014	ND	1.97	98.7	2.00	5.22	
Toluene*	<0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25	
Ethylbenzene*	<0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02	
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47	
Total BTEX	<0.300	0.300	01/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	01/14/2014	ND	432	108	400	7.14	

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	01/14/2014	ND	209	105	200	6.89	
DRO >C10-C28	16.7	10.0	01/14/2014	ND	233	116	200	1.72	

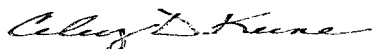
Surrogate: 1-Chlorooctane 88.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/13/2014
Reported: 01/14/2014
Project Name: RIGHT HAND CANYON 35
Project Number: NONE GIVEN
Project Location: INDIAN BASIN

Sampling Date: 01/10/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SIDEWALL 4 (H400109-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/14/2014	ND	1.97	98.7	2.00	5.22		
Toluene*	<0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25		
Ethylbenzene*	<0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02		
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47		
Total BTEX	<0.300	0.300	01/14/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	240	16.0	01/14/2014	ND	432	108	400	7.14	

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	01/14/2014	ND	209	105	200	6.89	
DRO >C10-C28	525	10.0	01/14/2014	ND	233	116	200	1.72	


Surrogate: 1-Chlorooctane 86.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 119 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/13/2014	Sampling Date:	01/10/2014
Reported:	01/14/2014	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

Sample ID: BOTTOM 1 (H400109-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2014	ND	1.97	98.7	2.00	5.22	
Toluene*	<0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25	
Ethylbenzene*	<0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02	
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47	
Total BTEX	<0.300	0.300	01/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	224	16.0	01/14/2014	ND	432	108	400	7.14	

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	01/14/2014	ND	209	105	200	6.89	
DRO >C10-C28	836	10.0	01/14/2014	ND	233	116	200	1.72	

Surrogate: 1-Chlorooctane 93.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 151 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 01/13/2014
 Reported: 01/14/2014
 Project Name: RIGHT HAND CANYON 35
 Project Number: NONE GIVEN
 Project Location: INDIAN BASIN

 Sampling Date: 01/10/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BOTTOM 2 (H400109-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2014	ND	1.97	98.7	2.00	5.22	
Toluene*	<0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25	
Ethylbenzene*	<0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02	
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47	
Total BTEX	<0.300	0.300	01/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 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	144	16.0	01/14/2014	ND	432	108	400	7.14		

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	01/14/2014	ND	209	105	200	6.89	
DRO >C10-C28	280	10.0	01/14/2014	ND	233	116	200	1.72	

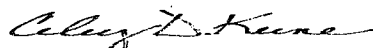
Surrogate: 1-Chlorooctane 97.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

Cardinal Laboratories

*=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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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

Page 9 of 9

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST											
Project Manager: Cliff Brunson		P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>TPH</div> <div>BTEX</div> <div>CL-</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: OKY		City:													
Project Name: Right Hand Canyon		State: Zip:													
Project Location:		Phone #:													
Sampler Name:		Fax #:													

FOR LAB USE ONLY		GRAB OR (COMP. #)	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	TPH	BTEX	CL-	
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER						
H400109																		
1	SIDEWALL 1												1-10-14	1:00	✓	✓	✓	
2	SIDEWALL 2												1-10-14	1:10	✓	✓	✓	
3	SIDEWALL 3												1-10-14	1:20	✓	✓	✓	
4	SIDEWALL 4												1-10-14	1:30	✓	✓	✓	
5	Bottom 1												1-10-14	1:40	✓	✓	✓	
6	Bottom 2												1-10-14	2:00	✓	✓	✓	

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Relinquished By: <i>P. Hernandez</i>	Date: 1-13-14	Received By: <i>Jodi Henson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: 4:15	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:			REMARKS:	
Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			390-6110	

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

#54

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Tuesday, November 13, 2012 2:19 PM
To: Cliff P. Brunson
Cc: Chris Jones; Ken Swinney; Kathy Purvis; Jennifer Gilkey
Subject: RE: Oxy-Righthand Canyon 35 Federal #7 SWD

Reference: OXY USA * Right Hand Canyon 35-7 * 30-015-34529 * K-35-21s-24e * Eddy County, New Mexico
OCD Tracking Number: 2RP-828 * Date of release: 6/30/11

Cliff,

Your proposal for remediation of the above referenced release is approved with the following conditions/stipulations:

- Notify OCD 48 hours prior to commencement of remedial operations.
- Notify OCD 48 hours prior to obtaining samples where the analyses are to be submitted to OCD.
- Obtain representative confirmation samples of bottom and sidewalls of excavation.
- Obtain approval prior to backfilling excavations.
- Submit a closure report and Form C-141 marked Final Report upon satisfactory completion of project.
- Approval by BLM or any other regulatory authority as may be applicable.

As discussed, it is OCD's understanding that the areas identified as SP7 and SP8 are situated on the access road. OXY indicates that it is not practicable to excavate in these areas due to the steep grade of the road.

OCD approval does not relieve the operator of liability should their operations fail 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, or 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
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Sunday, September 23, 2012 5:21 PM
To: Bratcher, Mike, EMNRD
Cc: Chris Jones; Ken Swinney; Kathy Purvis; Jennifer Gilkey
Subject: Oxy-Righthand Canyon 35 Federal #7 SWD

Mike,

This e-mail is to confirm our discussion on September 5, 2012 concerning the remediation plan for the release that occurred at the Oxy Righthand Canyon 35 Federal #7 SWD. As agreed, Oxy will excavate 1 foot across the spill area except in the areas covered by SP4 - SP6 which will be excavated to a depth of 2 feet as depicted on the attached site diagram. In addition, the impacted soil inside the battery containment will be removed off the liner and replaced with clean material. The excavation will then be backfilled with clean soil. The depth to groundwater in this area is approximately 75 to 80 feet.

I have attached the site drawing and the summary of the laboratory data 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 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.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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Kathy Purvis

From: Amos, James <jamos@blm.gov>
Sent: Monday, December 17, 2012 11:13 AM
To: Cliff P. Brunson
Cc: Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Re: Oxy Righthand Canyon 35 Federal #7 SWD - remediation plan

Everyone,

Looking at the numbers, it appears that the delineation reached failure. Excavation of the site will most likely achieve the same. I would like to excavate to failure, remove as much material as possible. Let the excavation air out for a little while prior to closure. With the low chloride level we may want to treat the remaining TPH with Micro Blaze or other products. Keep me in the loop as far as start date and when the excavation is completed.

Thanks,

J. Amos

On Sun, Dec 16, 2012 at 4:46 PM, Cliff P. Brunson <cbrunson@bbcinternational.com> wrote:
Jim,

This message is to request the BLM's approval for Oxy's proposed remediation plan that is attached. I have included the NMOCD's approval and a site diagram that depicts the sample points, a lab data summary table, and the original lab data. Oxy proposed to excavated the impacted soil to depth of 1 foot in the areas that are represented by SP1, SP2, SP3, SP7, and SP8 (SP7 and SP8 are in the road downhill from the battery). In the area that is represented by SP4, SP5, and SP6, the soil will be excavated to a depth of 2 feet. In addition, the impacted gravel inside the lined battery will be removed and replaced. All excavated areas will be backfilled with clean appropriate material.

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

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.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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Righthand Canyon 35 Federal #7 SWD



U/L K, Section 35, T21S, R24E
Eddy County, NM
N 32.43428 W 104.46979

Road

SP7

SP8

SP2

SP1

*Remediation
Project*

SP5

SP6

SP3

SP4

BBC International, Inc.

Oxy

Righthand Canyon 35 Fed #7 SWD

Date: 04/10/12

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2012



Groundwater Plot

Oxy Righthand Canyon 35 Fed #7

County
Eddy

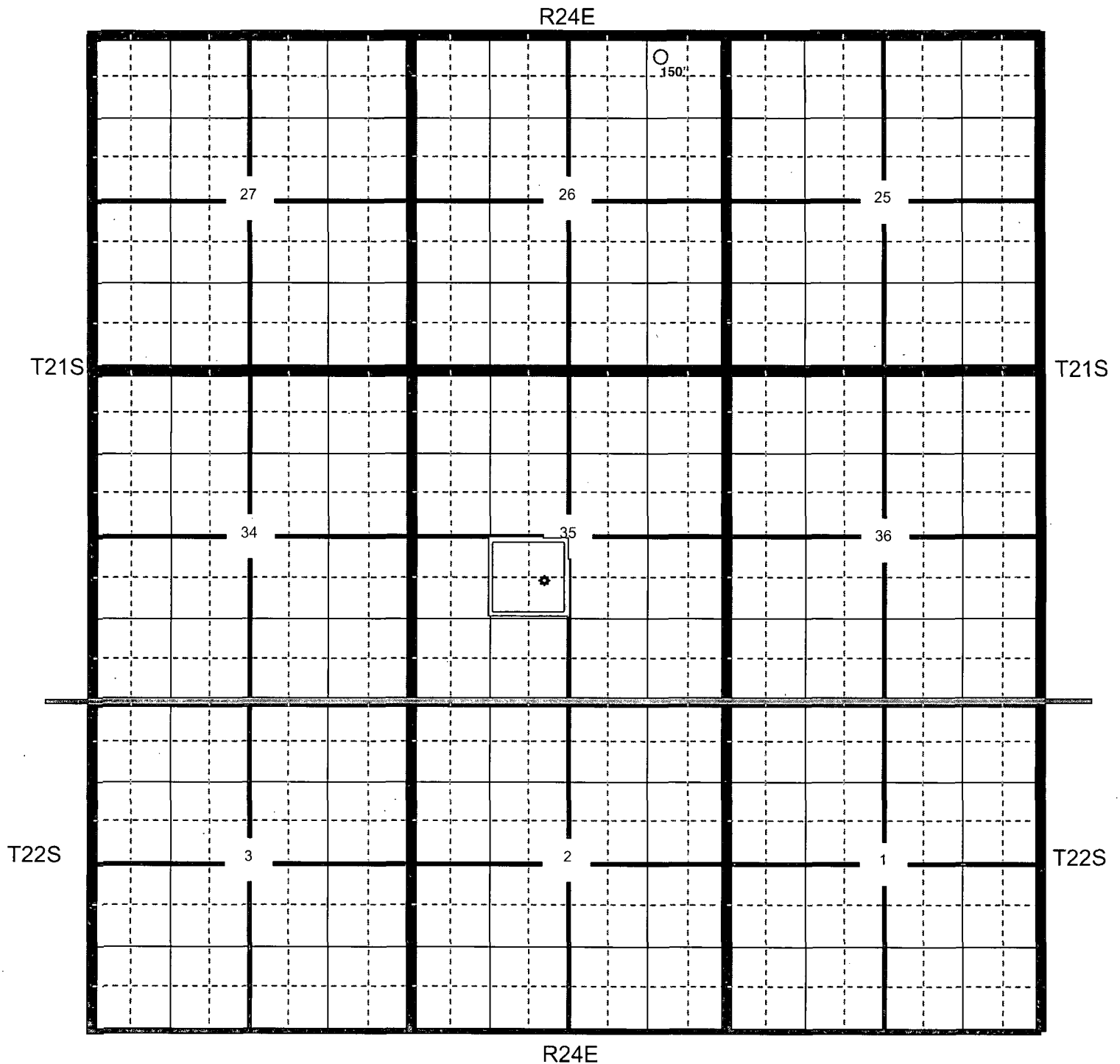
Unit Letter
K

Section
35

Township
21S

Range
24E

Trend Map 75'-80'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases



Section Quarters

Oxy Righthand Canyon 35 Fed #7

County
Eddy

Unit Letter
K

Section
35


Township
21S

Range
24E

Trend Map 75'-80'


1


2

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

3

4

 Location

 OCD

 USGS

 SEO

 All Databases

**Laboratory Analytical Results Summary
Right Hand Canyon 35-7 SWD**

		Sample	SP1 @ Surface	SP1 @ 1 ft	SP2 @ Surface	SP2 @ 1 ft	SP3 @ Surface	SP3 @ 1 ft	SP4 @ Surface	SP4 @ 1 ft
Analyte	Method	Date	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.056
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Chloride	SM4500Cl-B		256	<16.0	576	80.0	<16.0	32.0	96.0	48.0
GRO	TPH 8015M		<10.0	<10.0	<50.0	<10.0	<50.0	<10.0	<10.0	<10
DRO	TPH 8015M		556	748	8110	218	8390	863	2360	1690

		Sample	SP5 @ Surface	SP5 @ 1 ft	SP6 @ Surface	SP6 @ 1 ft	SP7 @ Surface	SP7 @ 1 ft	SP8 @ Surface	SP8 @ 1 ft
Analyte	Method	Date	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	0.167	<0.150
Chloride	SM4500Cl-B		560.0	80.0	400	144	<16.0	<16.0	192	32.0
GRO	TPH 8015M		<10.0	<10.0	60.9	14.1	<10.0	<10.0	61.0	11.3
DRO	TPH 8015M		2390	1770	20300	3310	209	<10.0	40600	522



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

April 12, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RIGHT HAND CANYON 35-7 SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/09/12 10:05.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 04/09/2012
 Reported: 04/12/2012
 Project Name: RIGHT HAND CANYON 35-7 SWD
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 04/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H200800-01)

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	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/11/2012	ND	400	100	400	3.92	

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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	556	10.0	04/11/2012	ND	221	110	200	12.5	

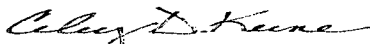
Surrogate: 1-Chlorooctane 108 % 55.5-154

Surrogate: 1-Chlorooctadecane 127 % 57.6-158

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: 04/09/2012
Reported: 04/12/2012
Project Name: RIGHT HAND CANYON 35-7 SWD
Project Number: NONE GIVEN
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 04/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1 FT (H200800-02)

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	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 64.4-134

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	04/11/2012	ND	400	100	400	3.92		

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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	748	10.0	04/11/2012	ND	221	110	200	12.5	

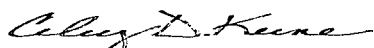
Surrogate: 1-Chlorooctane 110 % 55.5-154

Surrogate: 1-Chlorooctadecane 139 % 57.6-158

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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: 04/09/2012
Reported: 04/12/2012
Project Name: RIGHT HAND CANYON 35-7 SWD
Project Number: NONE GIVEN
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 04/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ SURFACE (H200800-03)

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	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	04/11/2012	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
									S-06

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	04/12/2012	ND	197	98.7	200	3.96		
DRO >C10-C28	8110	50.0	04/12/2012	ND	221	110	200	12.5		

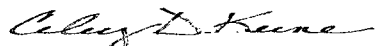
Surrogate: 1-Chlorooctane 123 % 55.5-154

Surrogate: 1-Chlorooctadecane 325 % 57.6-158

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Celèy 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: 04/09/2012
Reported: 04/12/2012
Project Name: RIGHT HAND CANYON 35-7 SWD
Project Number: NONE GIVEN
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 04/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1 FT (H200800-04)

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	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 64.4-134

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/11/2012	ND	400	100	400	3.92		

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	04/11/2012	ND	197	98.7	200	3.96		
DRO >C10-C28	218	10.0	04/11/2012	ND	221	110	200	12.5		

Surrogate: 1-Chlorooctane 114 % 55.5-154

Surrogate: 1-Chlorooctadecane 147 % 57.6-158

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Analytical Results For:

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 Received: 04/09/2012
 Reported: 04/12/2012
 Project Name: RIGHT HAND CANYON 35-7 SWD
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 04/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ SURFACE (H200800-05)

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	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 64.4-134

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	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	04/12/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	8390	50.0	04/12/2012	ND	221	110	200	12.5	

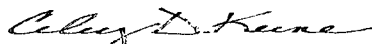
Surrogate: 1-Chlorooctane 130 % 55.5-154

Surrogate: 1-Chlorooctadecane 329 % 57.6-158

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Received: 04/09/2012
Reported: 04/12/2012
Project Name: RIGHT HAND CANYON 35-7 SWD
Project Number: NONE GIVEN
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 04/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1 FT (H200800-06)

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	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2012	ND	400	100	400	3.92	

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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	863	10.0	04/11/2012	ND	221	110	200	12.5	

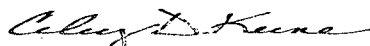
Surrogate: 1-Chlorooctane 120 % 55.5-154

Surrogate: 1-Chlorooctadecane 132 % 57.6-158

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

Received: 04/09/2012
Reported: 04/12/2012
Project Name: RIGHT HAND CANYON 35-7 SWD
Project Number: NONE GIVEN
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 04/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ SURFACE (H200800-07)

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	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/11/2012	ND	400	100	400	3.92	

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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	2360	10.0	04/11/2012	ND	221	110	200	12.5	

Surrogate: 1-Chlorooctane 118 % 55.5-154

Surrogate: 1-Chlorooctadecane 129 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 04/09/2012
Reported: 04/12/2012
Project Name: RIGHT HAND CANYON 35-7 SWD
Project Number: NONE GIVEN
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 04/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1 FT (H200800-08)

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	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	0.056	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 122 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/11/2012	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					

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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	1690	10.0	04/11/2012	ND	221	110	200	12.5	

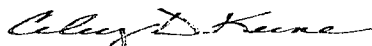
Surrogate: 1-Chlorooctane 116 % 55.5-154

Surrogate: 1-Chlorooctadecane 126 % 57.6-158

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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: 04/09/2012
 Reported: 04/12/2012
 Project Name: RIGHT HAND CANYON 35-7 SWD
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 04/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ SURFACE (H200800-09)

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	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	04/11/2012	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					

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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	2390	10.0	04/11/2012	ND	221	110	200	12.5	

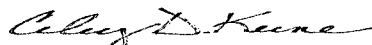
Surrogate: 1-Chlorooctane 115 % 55.5-154

Surrogate: 1-Chlorooctadecane 128 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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 Cliff Brunson
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 Fax To: (505) 397-0397

 Received: 04/09/2012
 Reported: 04/12/2012
 Project Name: RIGHT HAND CANYON 35-7 SWD
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 04/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ 1 FT (H200800-10)

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	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/11/2012	ND	400	100	400	3.92	

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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	1770	10.0	04/11/2012	ND	221	110	200	12.5	

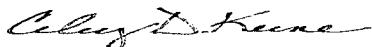
Surrogate: 1-Chlorooctane 120 % 55.5-154

Surrogate: 1-Chlorooctadecane 126 % 57.6-158

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Received: 04/09/2012
Reported: 04/12/2012
Project Name: RIGHT HAND CANYON 35-7 SWD
Project Number: NONE GIVEN
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 04/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 6 @ SURFACE (H200800-11)

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	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	04/11/2012	ND	400	100	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						S-06

Surrogate: 1-Chlorooctane 130 % 55.5-154

Surrogate: 1-Chlorooctadecane 331 % 57.6-158

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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: 04/09/2012
Reported: 04/12/2012
Project Name: RIGHT HAND CANYON 35-7 SWD
Project Number: NONE GIVEN
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 04/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 6 @ 1 FT (H200800-12)

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	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 64.4-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	14.1	10.0	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	3310	10.0	04/11/2012	ND	221	110	200	12.5	

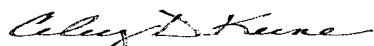
Surrogate: 1-Chlorooctane 118 % 55.5-154

Surrogate: 1-Chlorooctadecane 119 % 57.6-158

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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: 04/09/2012
 Reported: 04/12/2012
 Project Name: RIGHT HAND CANYON 35-7 SWD
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 04/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 7 @ SURFACE (H200800-13)

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	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/11/2012	ND	400	100	400	3.92		

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	04/12/2012	ND	207	103	200	4.03	
DRO >C10-C28	209	10.0	04/12/2012	ND	234	117	200	15.1	

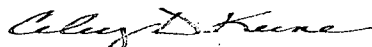
Surrogate: 1-Chlorooctane 106 % 55.5-154

Surrogate: 1-Chlorooctadecane 133 % 57.6-158

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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:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: SP 7 @ 1 FT (H200800-14)

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	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134

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	04/11/2012	ND	400	100	400	3.92		

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	04/12/2012	ND	207	103	200	4.03	
DRO >C10-C28	<10.0	10.0	04/12/2012	ND	234	117	200	15.1	

Surrogate: 1-Chlorooctane 115 % 55.5-154

Surrogate: 1-Chlorooctadecane 143 % 57.6-158

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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:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

Sample ID: SP 8 @ SURFACE (H200800-15)

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	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	0.167	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134

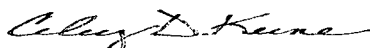
Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/11/2012	ND	400	100	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
									S-06	

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	61.0	50.0	04/12/2012	ND	207	103	200	4.03	
DRO >C10-C28	40600	50.0	04/12/2012	ND	234	117	200	15.1	
Surrogate: 1-Chlorooctane	102 %	55.5-154							
Surrogate: 1-Chlorooctadecane	613 %	57.6-158							

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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: 04/09/2012
Reported: 04/12/2012
Project Name: RIGHT HAND CANYON 35-7 SWD
Project Number: NONE GIVEN
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 04/05/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 8 @ 1 FT (H200800-16)

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	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/11/2012	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	11.3	10.0	04/12/2012	ND	207	103	200	4.03		
DRO >C10-C28	522	10.0	04/12/2012	ND	234	117	200	15.1		

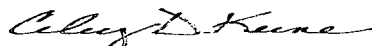
Surrogate: 1-Chlorooctane 103 % 55.5-154

Surrogate: 1-Chlorooctadecane 128 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

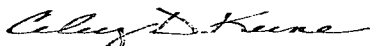
Notes and Definitions

- 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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO												ANALYSIS REQUEST																							
Project Manager: Cliff Brunson				P.O. #:												<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">C1-</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH&CISOL</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:																																			
Project #:		Project Owner: Oxy		City:																																			
Project Name: Right Hand Canyon 35-78WD				State: Zip:																																			
Project Location: Carlsbad, NM				Phone #:																																			
Sampler Name: Jordan Woodfin				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		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">C1-</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH&CISOL</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> </div>									
H20081D																																							
1 SP 1 Surface				9		1						X								X		X		X		4-5-12		10:51				X		X		X			
2 SP 1 @ 1ft				9		1						X								X		X		X		"		11:00				X		X		X			
3 SP 2 Surface				9		1						X								X		X		X		"		11:23				X		X		X			
4 SP 2 @ 1ft				9		1						X								X		X		X		"		11:33				X		X		X			
5 SP 3 Surface				9		1						X								X		X		X		"		12:34				X		X		X			
6 SP 3 @ 1ft				9		1						X								X		X		X		"		12:50				X		X		X			
7 SP 4 Surface				9		1						X								X		X		X		"		11:5				X		X		X			
8 SP 4 @ 1ft				9		1						X								X		X		X		"		12:9				X		X		X			
9 SP 5 Surface				9		1						X								X		X		X		"		1:40				X		X		X			
10 SP 5 @ 1ft				9		1						X								X		X		X		"		2:01		X		X		X					

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Relinquished By: Jordan Wood		Date: 4-4-12		Received By: Kim Sweeney		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 10:00 AM				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: Kim Sweeney		Date: 4-4-12		Received By: Jodi Jensen		REMARKS: EMAIL ALL			
		Time: 10:05 AM							
Delivered By: (Circle One)									
Sampler - UPS - Bus - Other: <u>SC</u>		Sample Condition		CHECKED BY: (Initials)					
		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		JJA					
		<input type="checkbox"/> Yes <input type="checkbox"/> No							

† 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

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																																																																																																																																																																									
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);">CI - TPH & OILS</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:																																																																																																																																																																													
Project #:		Project Owner: Oxy		City:																																																																																																																																																																													
Project Name: Right Hand Canyon 35-7 SUD				State: Zip:																																																																																																																																																																													
Project Location: Croftland NM				Phone #:																																																																																																																																																																													
Sampler Name: Jordan Woodfin				Fax #:																																																																																																																																																																													
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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 the client for the 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 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 or its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Jordan Woodfin	Date: 8-9-12	Received By: Ken Swearing	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 8:00 AM		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: Ken Swearing	Date: 8-9-12	Received By: Jodi Benson	REMARKS: EMAIL ALL	
	Time: 12:30 PM			
Delivered By: (Circle One)				
Sampler - UPS - Bus - Other:	Sample Condition	CHECKED BY: (Initials)		
	Cool Intact			
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

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

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

NMLB1122338019

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company OXY USA 192463	Contact Kelton Beaird
Address 1502 W. Commerce Carlsbad, NM 88220	Telephone No. (O) 575-628-4100
Facility Name Righthand Canyon 35-7	Facility Type SWD

Surface Owner	Mineral Owner	Lease No. API: 3001534529
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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
	35	21S	24E					Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Produced Water & Oil	Volume of Release 800 water/100 oil	Volume Recovered 140
Source of Release Gun Barrel Tank	Date and Hour of Occurrence	Date and Hour of Discovery 6-30-11 @ 4:00pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher: NMOCD, Jim Amos-BLM	
By Whom? Kelton Beaird (Oxy)	Date and Hour See above 7/1/11 7:15A	
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.*

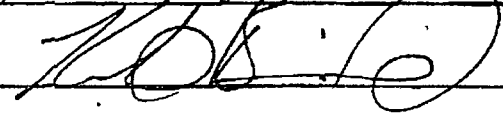
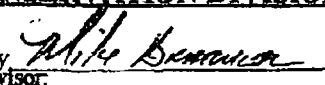
Describe Cause of Problem and Remedial Action Taken.*

Tank Collapsed causing fluid to be released. Vacuum Truck was called to pick up remaining fluid.

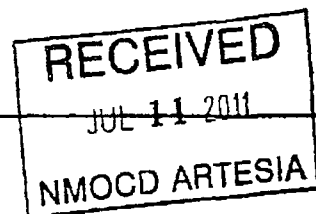
Describe Area Affected and Cleanup Action Taken.*

Area affected was on and off of location into the pasture down the bottom of the slope north of the location. As per request by BLM and upon like approval by the state, the area off location on top just before the ravine will be washed with biodegradable soap. A catchment basin will be installed to gather all free liquid. The affected area on the road and on location will be cleaned up to required state levels or hard rock, whichever is met first.

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	Signed By  Approved by District Supervisor:	
Title: HES Specialist	Approval Date: AUG 11 2011	Expiration Date:
E-mail Address: kelton.beaird@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7-6-11	Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN: 9/11/2011	

* Attach Additional Sheets If Necessary



2RP-828