# **Closure Report**

NM OIL CONSERVATION

ARTESIA DISTRICT

JUL 22 2014

	Sile Description Received
Site Name:	Righthand Canyon 35-7
Company:	Oxy Permian Ltd.
Legal Description:	U/L K, Section 35, T21S, R24E
County:	Eddy County, NM
GPS Coordinates:	N 32.43406° W 104.47120°

	Release Data
Date of Release:	12/27/2012
Type of Release:	Produced water
Source of Release:	Failure in 2" valve on discharge line
Volume of Release:	175 bbls
Volume Recovered:	0 bbls

a ta parta da ser	Remediatio	on Specifications
Remediation Parameters:	remainder of th Obtain sidewal elevate flow line	depth of 1 foot around SP1. Excavate the le area on top of the hill to a depth of 6 inches. I samples. Sample downslope areas. Move or e to remove contaminates underneath. Obtain a B at 1.5'. Backfill the site with clean soil.
<b>Remediation Activities:</b>	06/05/2014 to (	06/19/2014
Plan Sent to OCD:	04/01/2014	Meeting between M. Bratcher & C. Brunson

Fian Sent to OCD.	04/01/2014	Meeting between M. Dratcher & C. Drunson
OCD Approval of Plan:	04/01/2014	Meeting between M. Bratcher & C. Brunson
Plan Sent to BLM:	04/18/2014	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	05/01/2014	Email from J. Van Curen to Cliff Brunson

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	Supporting D		■ 「おおえ」 シジョン・シングがない み、さ	
- メイン・特徴は19月2日の時間の時間になると、運動は後期の時間に、よりのそうとなった。それで、ション・ション・ション・ション・ション・ション・ション・ション・ション・ション・		تمال مدار ماند شک مدارد ا مدارد ا دار آناما ا م	TO CARLEN AND A CARE WORK WARK	· · · · · · · · · · · · · · · · · · ·
	그는 것은 가슴을 가지 않는 것이 많이 많이 가지 않는 것이 없다.	ション ためたい ション・パート しょうかん たい	enter han en la servición de la construction de	ショント たいしょう あん しょう しょうかん たいしょう ディン

Signed 01/03/2013
Signed 07/08/2014
January 2013
75'
January 2013
02/05/2013, 01/03/2014, 06/16/2014, and 06/16/2014
02/05/2013, 01/03/2014, 06/16/2014, and 06/16/2014
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.

07/17/2014

NM OIL CONSERVATION ARTESIA DISTRICT District I State of New Mexico 1625 N. French Dr., Hobbs, NM 88240 JUL 2 2 2014 Form C-141 Energy Minerals and Natural Resources Revised October 10, 2003 District II 1301 W. Grand Avenue, Artesia, NM 88210 Submit 2 Copies to appropriate District Office in accordance District III **Oil Conservation Division** RECEIVED 1000 Rio Brazos Road, Aztec, NM 87410 1220 South St. Francis Dr. District IV with Rule 116 on back 1220 S. St. Francis Dr., Santa Fe, NM 87505 side of form Santa Fe, NM 87505 **Release Notification and Corrective Action OPERATOR** 🛛 Initial Report Final Report Contact Christopher Jones Name of Company Oxy Permian Ltd. Address 1502 W. Commerce Dr., Carlsbad, NM Telephone No. (575) 628-4121 Facility Name Righthand Canyon 35-7 SWD Facility Type SWD Surface Owner Mineral Owner Lease No. API#30-015-34529 LOCATION OF RELEASE Unit Letter Section Township Feet from the North/South Line East/West Line Range Feet from the County K 35 21\$ 24E 1975 2405 South West Eddy County, NM Latitude Longitude NATURE OF RELEASE Type of Release Produced water Volume of Release 175 bbls Volume Recovered 0 bbls Source of Release Failure in 2" valve on the discharge line Date and Hour of Occurrence Date and Hour of Discovery 12/27/2012 If YES, To Whom? Was Immediate Notice Given? Yes 🗌 No 🗌 Not Required Mike Bratcher- OCD, James Amos-BLM, Terry Gregston-BLM Date and Hour 12/27/2012 @ 1:53 pm By Whom? Christopher Jones Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes 🛛 No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action Taken.\* Failure in a 2" valve on the discharge line caused 175 bbls of produce water to leak onto the ground. Fluids were not recoverable. The valve was repaired. Describe Area Affected and Cleanup Action Taken.\* Failure in a 2" valve on the discharge line caused 175 bbls of produce water to leak onto the ground. Fluids were not recoverable. Remediation will be performed in accordance with an OCD and BLM approved remediation plan. 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 NMCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Printed Name: Christopper Jones Title: HES Specialist Approval Date: Expiration Date: E-mail Address: Christopher Jones@oxy.com Conditions of Approval: Attached 🔲 Date Phone: (575) 628-4121

\* Attach Additional Sheets If Necessary

NM OIL CONSERVATION

ARTESIA DISTRICT

JUL 22 2014

RECEIVED

Form C-141 Revised October 10, 2003

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

Lease No. API#30-015-34529

District 1 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

# **Release Notification and Corrective Action**

State of New Mexico

Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

	OPERATOR	Initial Report	Final Report
Name of Company Oxy Permian Ltd.	Contact Christopher Jones		
Address 1502 W. Commerce Dr., Carlsbad, NM	Telephone No. (575) 628-412	1	
Facility Name Righthand Canyon 35-7 SWD	Facility Type SWD		

Surface Owner

LOCATION OF RELEASE

Mineral Owner

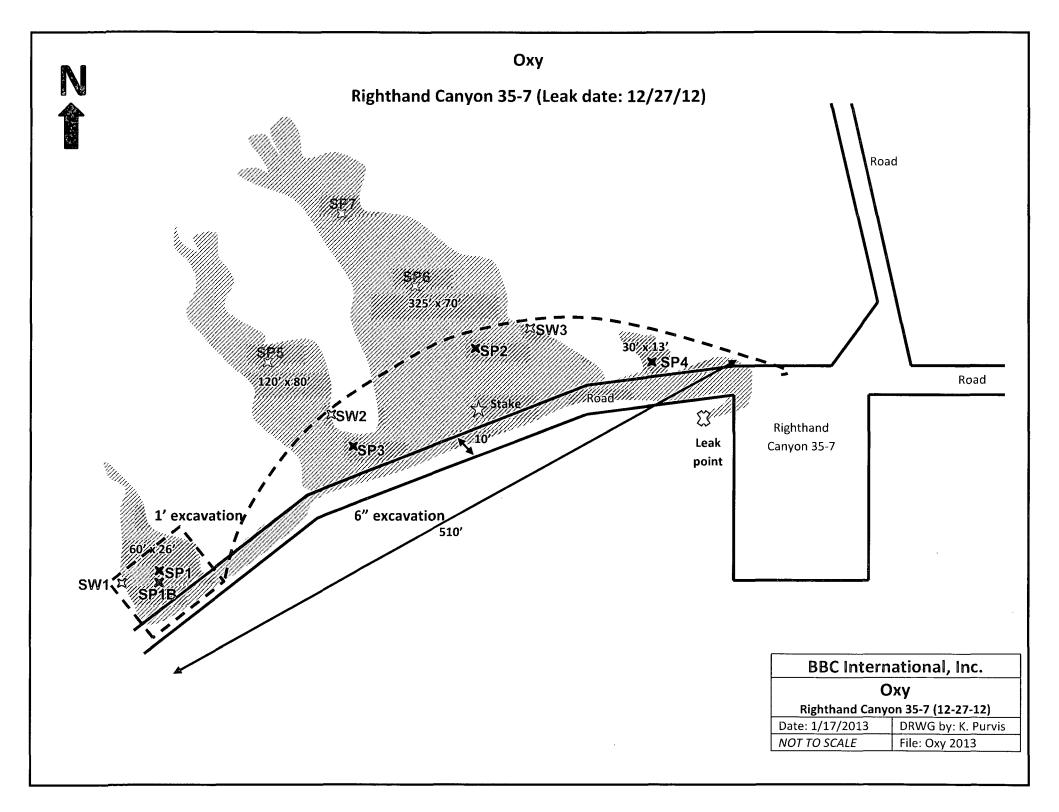
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	35	215	24E	1975	South	2405	West	Eddy County, NM

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

# NATURE OF RELEASE

	OT RELEASE		
Type of Release Produced water	Volume of Release 175 bbls	Volume Recovered 0 bbls	
Source of Release Failure in 2" valve on the discharge line	Date and Hour of Occurrence 12/27/2012	Date and Hour of Discovery	
Was Immediate Notice Given?	If YES, To Whom?		
🛛 Yes 🔲 No 🗌 Not Required	Mike Bratcher- OCD, James Amo	s-BLM,	
	Terry Gregston-BLM		
By Whom? Christopher Jones	Date and Hour 12/27/2012 @ 1	53 pm	
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	itercourse.	
🗋 Yes 🛛 No			
If a Watercourse was Impacted, Describe Fully.*			
Describe Cause of Problem and Remedial Action Taken.*			
Failure in a 2" valve on the discharge line caused 175 bbls of produce wat	er to leak onto the ground. Fluids we	ere not recoverable. The valve was repaired.	
Describe Area Affected and Cleanup Action Taken.*			
Failure in a 2" valve on the discharge line caused 175 bbls of produce wa	ter to leak onto the ground. Fluids w	ere not recoverable. Remediation was	
completed in accordance with the remediation plan approved by Mike Bra	ttcher of NMOCD on 04/01/2014 and	approved by Jennifer Van Curen of the	
BLM via email on 05/01/2014.			
I hereby certify that the information given above is true and complete to the	te best of my knowledge and underst	and that pursuant to NMOCD rules and	
regulations all operators are required to report and/or file certain release n	otifications and perform corrective ac	tions for releases which may endanger	
public health or the environment. The acceptance of a C-141 report by the	e NMOCD marked as "Final Report"	does not relieve the operator of hability	
should their operations have failed to adequately investigate and remediat	e contamination that pose a threat to	ground water, surface water, human health	
or the environment. In addition, NMOOD acceptance of a C-141 report d	oes not relieve the operator of respon	sibility for compliance with any other	
federal, state, or local aws and/or regulations.			
	<u>OIL CONSER</u>	VATION DIVISION	
Signature:			
Printed Name: Christopher Jønes	Approved by District Supervisor:		
Printed tvaine. Chilistopher Janes			
Title: HES Specialist	Approval Date:	Expiration Date:	
	Approval Date.	Expiration Date:	
E-mail Address: Christopher_Jones@oxy.com	Conditions of Approval:		
	contantons of Approval.	Attached 🔲	
Date: 718114 Phone: (575) 628-4121			
Daw. 1010/ 11000. (373) 026-4121			

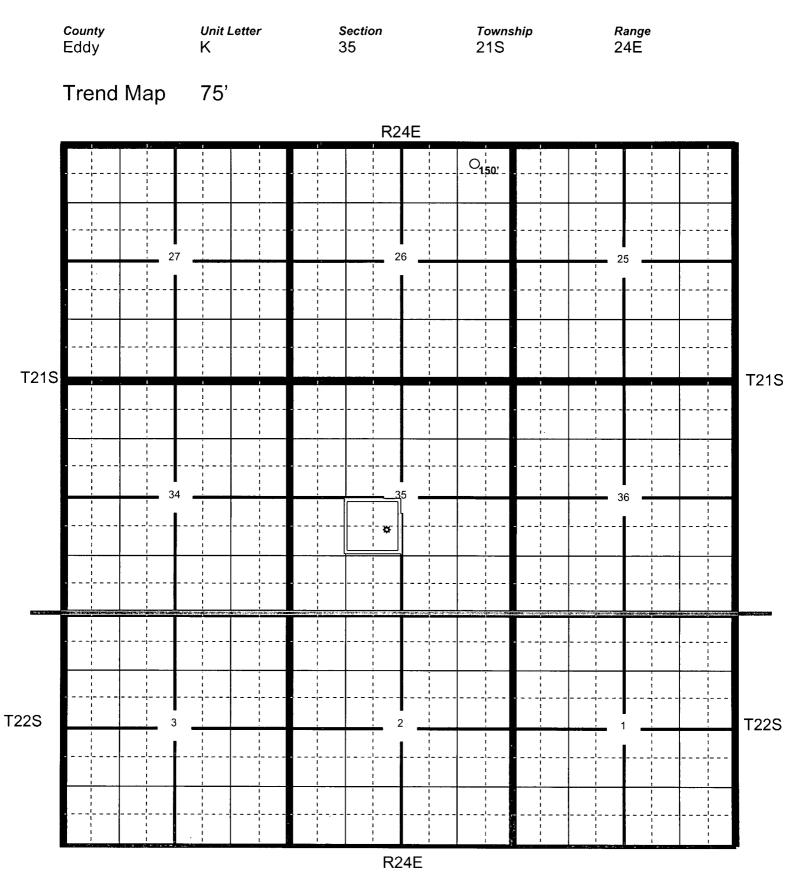
\* Attach Additional Sheets If Necessary





# **Groundwater Plot**

# Oxy Righthand Canyon 35-7 SWD

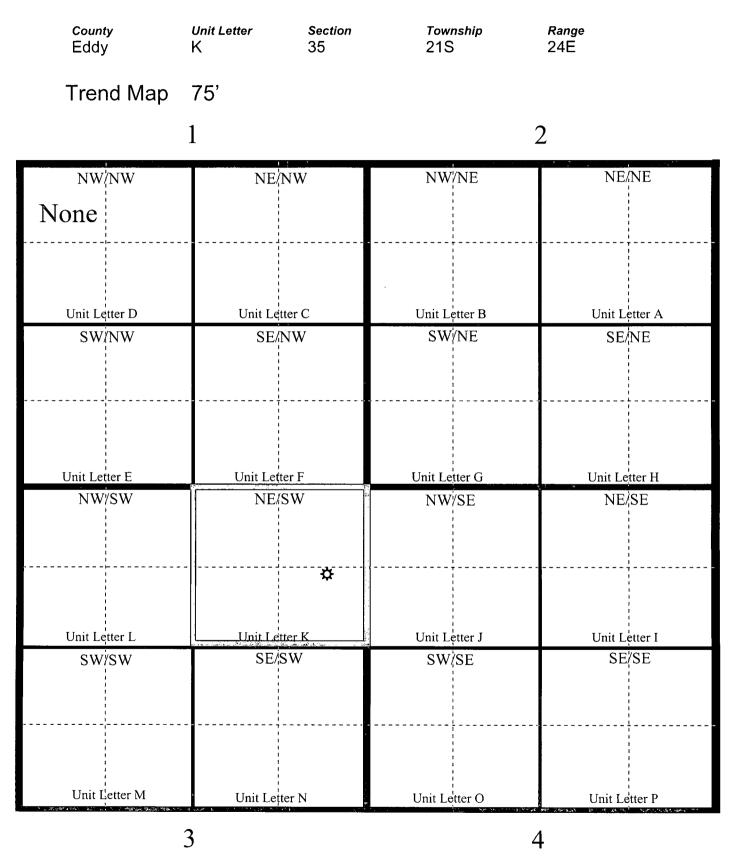


**C**Location

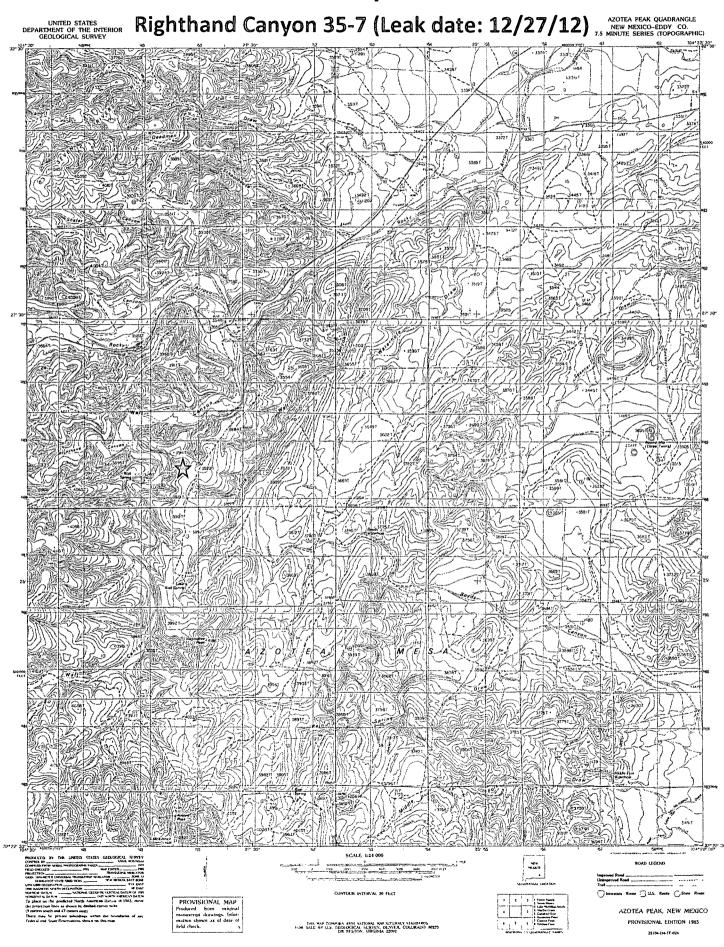


Section Quarters

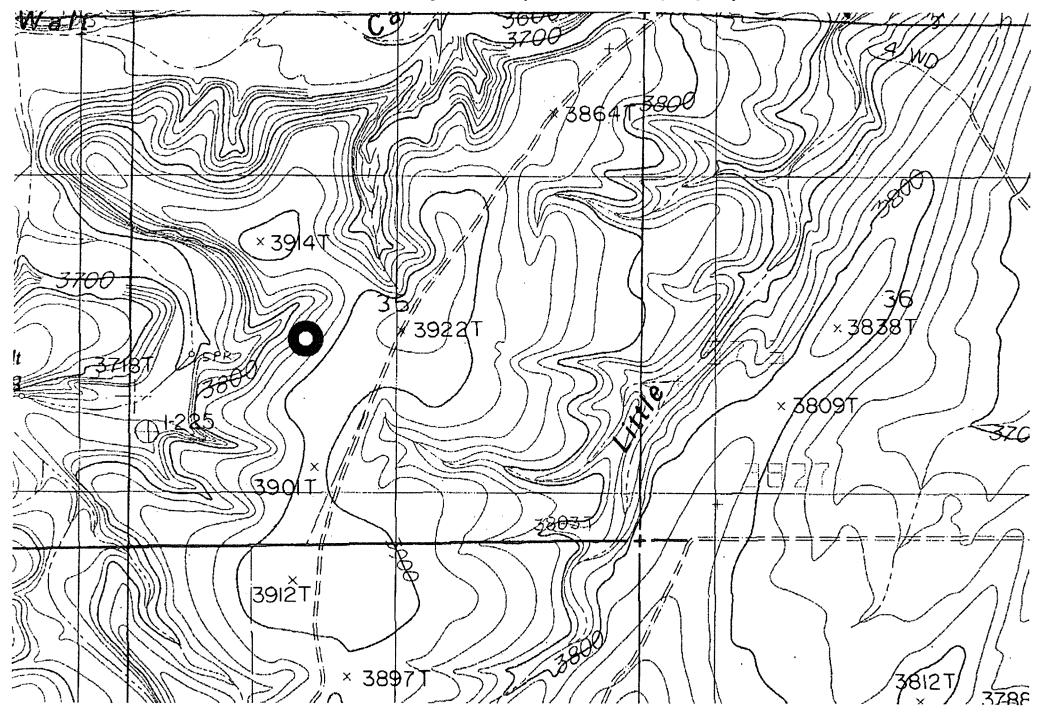
# Oxy Righthand Canyon 35-7 SWD



# Oxy



# Oxy Righthand Canyon 35-7 (Leak date: 12/27/12)



# Laboratory Analytical Results Summary Righthand Canyon 35-7 SWD

		Sample	SP1 @ SURFACE	SP1 @ 6"
Analyte	Method	Date	2/5/13	2/5/13
			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	SM4500CI-B		128	32
GRO	TPH 8015M		<50.0	<50.0
DRO	TPH 8015M		6720	11400

		Sample	SP2 @ SURFACE	SP2 @ 6"
Analyte	Method	Date	2/5/13	2/5/13
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		32	176

		Sample	SP3 @ SURFACE	SP3 @ 6"
Analyte	Method	Date	2/5/13	2/5/13
			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	SM4500CI-B		448	240
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		4820	541

		Sample	SP4 @ SURFACE	SP4 @ 6"
Analyte	Method	Date	2/5/13	2/5/13
			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	SM4500CI-B		400	160
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		4200	229

# Laboratory Analytical Results Summary Righthand Canyon 35-7

		Sample	SP1B @ 6"	SP1B @ 1'
Analyte	Method	Date	1/3/14	1/3/14
_			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
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		762	1700

#### Laboratory Analytical Results Summary Righthand Canyon 35-7 SWD

		Sample	SP5 @ SURFACE
Analyte	Method	Date	6/16/14
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B	•	<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SP6 @ SURFACE
Analyte	Method	Date	6/16/14
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SP7 @ SURFACE
Analyte	Method	Date	6/16/14
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

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

		Sample	Sidewall #1
Analyte	Method	Date	6/16/14
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		< 0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	Sidewall #2
Analyte	Method	Date	6/16/14
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	Sidewall #3
Analyte	Method	Date	6/16/14
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		< 0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SP1B
Analyte	Method	Date	6/16/14
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		< 0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0



February 11, 2013

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 02/06/13 8:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceg.texas.gov/field/ga/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	02/06/2013	Sampling Date:	02/05/2013
Reported:	02/11/2013	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 1 @ SURFACE (H300329-01)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9	
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4	
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8	
Total Xylenes*	< 0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0	
Total BTEX	<0.300	0.300	02/07/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	116 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/07/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	6720	50.0	02/07/2013	ND	202	101	200	21.9	
Surrogate: 1-Chlorooctane	74.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	280 9	63.6-15	4						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by claimal, within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptons, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successons arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such damin based upon any of the above stated resons or othewise. Results related only to the samples identified above. This report shall note performance cycle in full with written approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/06/2013	Sampling Date:	02/05/2013
Reported:	02/11/2013	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 1 @ 6" (H300329-02)

BTEX 8021B	mg/l	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9	
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4	
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8	
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0	
Total BTEX	<0.300	0.300	02/07/2013	ND			·		
Surrogate: 4-Bromofluorobenzene (PIL	123 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/07/2013	ND	432	108	400	0.00	
TPH 8015M	mg/l	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	11400	50.0	02/07/2013	ND	202	101	200	21.9	
Surrogate: 1-Chlorooctane	79.7 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	457 %	63.6-15	1						

# Sample ID: SP 2 @ SURFACE (H300329-03)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/07/2013	ND	432	108	400	0.00	

#### **Cardinal Laboratories**

\*=Accredited Analyte

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

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/06/2013	Sampling Date:	02/05/2013
Reported:	02/11/2013	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 @ 6" (H300329-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/07/2013	ND	432	108	400	0.00	

# Sample ID: SP 3 @ SURFACE (H300329-05)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9	
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4	
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8	
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0	
Total BTEX	<0.300	0.300	02/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 108 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	02/07/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d 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	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	4820	10.0	02/07/2013	ND	202	101	200	21.9	
Surrogate: 1-Chlorooctane	83.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	242	% 63.6-15	4						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/06/2013	Sampling Date:	02/05/2013
Reported:	02/11/2013	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 3 @ 6" (H300329-06)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9	
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4	
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8	
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0	
Total BTEX	<0.300	0.300	02/07/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/07/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	541	10.0	02/07/2013	ND	202	101	200	21.9	
Surrogate: 1-Chlorooctane	85.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	114 %	63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/06/2013	Sampling Date:	02/05/2013
Reported:	02/11/2013	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 (H300329-07)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9	
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4	
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8	
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0	
Total BTEX	<0.300	0.300	02/07/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/07/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d 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	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	4200	10.0	02/07/2013	ND	202	101	200	21.9	
Surrogate: 1-Chlorooctane	83.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	223 9	63.6-15	4						

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Celez D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/06/2013	Sampling Date:	02/05/2013
Reported:	02/11/2013	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 @ 6" (H300329-08)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9	
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4	
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8	
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0	
Total BTEX	<0.300	0.300	02/07/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/07/2013	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	229	10.0	02/07/2013	ND	202	101	200	21.9	
Surrogate: 1-Chlorooctane	80.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	102 9	63.6-15	4						

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Celeg Di Keine

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 SM4500CI-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. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 9

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

Company Name	BBC International, Inc.				print 1911	8	111 70		i Y			Á	NALY	SIS R	EQUE	ST		
Project Manage	Cliff Brunson				Ρ.	O. #:			Γ						Τ	T		
Address: P.O. Box 805			Cc	mpany:			]											
city: Hobbs	State: NM	Zip:	8824	1	At	tn: 🤇	SAM	F										
Phone #: 575-	397-6388 Fax #: 575	-397	-0397		Ac	Idress:	$\mathcal{D}(\mathbf{r})$											
Project #:	Project Owne	r:	OXY		Ci	ty:										1		
Project Name:	Righthand Canyon 3	5	Ø		St	ate:	Zip;											
Project Locatio	n:				Ph	one #:												
Sampler Name:	ROGERHERMANDEZ				Fa	x #:												
FOR LAB USE ONLY			· · · <del>· · · · · · · · · · · · · · · · </del>	MATRIX	·	PRESERV	SAMPLI	NG	]		$\mathbf{x}$				ŀ			
Lab I.D. H3EC389	Sample I.D.	(G) RAB OR (C) OM	# CONTAINERS GROUNDWATER WASTEMATER	Soll.	SLUDGE OTHER ;	ACID/BASE: ICE / COOL, OTHER :	DATE	TIME	-70)	TPH	BTE							
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<u> </u>	SP3@JunFace	6	4	V			25.13		1	1	K							 
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	SPI@ SURPACE @ 6" SPI@ SURPACE @ 6" SPI@ SURPACE @ 6" SPI@ SURPACE @ 6"	6	<u>/                                     </u>	V/			2.5 13			-2	1							 
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amilates or successors arising out of threates to the performance	n services nereundor by C	aroinal, regardiese of whether such cla	an is based upon any or the above stored n	sasons or otherwise.				
Relinquished By:	Date:	Received By:	. /	Phone Result:	□ Yes	🗆 No	Add'l Phone #:	
	2.615	111320 1	1 A A CO	Fax Result:	□ Yes	🗆 No	Add'I Fax #:	 
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Relinguished By:	Date:	Received By:						
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Sampler - UPS - Bus - Other:		Ves D	Yes / Hits					
· · · · · · · · · · · · · · · · · · ·			No					

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

#26



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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated 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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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 1B @ 6" (H400040-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	ŔPD	Qualifier
Benzene*	<0.050	0.050	01/10/2014	ND	1.92	96.1	2.00	2.06	
Toluene*	<0.050	0.050	01/10/2014	ND	1.89	94.6	2.00	2.20	
Ethylbenzene*	<0.050	0.050	01/10/2014	ND	1.93	96.4	2.00	2.32	
Total Xylenes*	<0.150	0.150	01/10/2014	ND	5.63	93.8	6.00	2.42	
Total BTEX	<0.300	0.300	01/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL 105 % 89.4-126

TPH 8015M	mg	/kg	Analyze	d 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	762	10.0	01/08/2014	ND	180	90.1	200	1.19	
Surrogate: 1-Chlorooctane	86.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	124	% 63.6-15	4						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celey E. Keine

Celey D. Keene, Lab Director/Quality Manager



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:	<b>RIGHT HAND CANYON 35</b>	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

## Sample ID: SP 1B @ 1' (H400040-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2014	ND	1.92	96.1	2.00	2.06	
Toluene*	<0.050	0.050	01/10/2014	ND	1.89	94.6	2.00	2.20	
Ethylbenzene*	<0.050	0.050	01/10/2014	ND	1.93	96.4	2.00	2.32	
Total Xylenes*	<0.150	0.150	01/10/2014	ND	5.63	93.8	6.00	2.42	
Total BTEX	<0.300	0.300	01/10/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	89.4-12	6						
TPH 8015M	mg/	kg	Analyze	d 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	

ND

180

90.1

200

1.19

01/08/2014

Surrogate: 1-Chlorooctane	84.8 %	65.2-140
Surrogate: 1-Chlorooctadecane	129 %	63.6-154

1700

10.0

#### Cardinal Laboratories

DRO >C10-C28

#### \*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 5

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Company Name	BBC International, Inc.							<b>BILL TO</b>				COMPCT 1	ANAL				LYSI	YSIS REQUEST						
Project Manage	r: Cliff Brunson			:		<i>.</i>	F	.0.	<b>#:</b>	•.									÷.			, <sup>1</sup> .		
Address: P.O.	. Box 805			:		<u></u>	_ c	omp	bany	y:		·** :	J					· .		·		÷.	İ.	
city: Hobbs	State: NM	Zip:	: 8	824	1	• .	A	ttn:	· ·	S	AME													
Phone #: 575-	397-6388 Fax #: 575	-397	7-03	397			A	ddro	ess:		1-1-2			· ·							• .			
Project #:	Project Owne	r: (	OX	14		· .	c	ity:					1											
Project Name:	Right Hand Ca	u	N	ち	•		s	tate	:		Zip:		i .							<b>i</b>	2		1 · . ·	ļ
Project Location		J					P	hon	e #:		•		1 :			}	-		· ·					
Sampler Name:							F	ax #	:			· · · · · ·	1	1	[	1. 1		Ι.	1	1			Í	1 ·
FOR LAB USE ONLY			Ń	Ľ,	MA	TRIX		PF	RESE	ERV.	SAMPL	NG	1			· ·	1 A.	1.2			•	ľ	н н. 1911 - 1	
		C)OMP.	·	<u>م</u>		· ·	ļ		-		30 - <sup>1</sup>	· · ·	1 ·		ļ.				1		· ·			
Lab I.D. H4000 <i>41</i> 0	Sample I.D.	(G)RAB OR (C)C	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	HdL	(3 TE)						- -	•	-		-
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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 wa'ved 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 consequental damages, including withcut limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

affiliates or successors arising out of or related to the performance	e of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above	e stated reasons or otherwise.					
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	$\Box 0 v v r q \circ$	Fax Result:	□ Yes	O No	Add'l Fax #:		
KOGER HERNUNDEZ	TE: 05 Koman montaug	REMARKS:					
Relinguished By:	Date: 114 Received By:						
Ramon montus	Titters Mar Henson					•	
Delivered By: (Circle One)	Sample Condition CHECKED	BY;					
Sampler - UPS - Bus - Other:	$\mathcal{X}, \mathcal{Z}, \mathcal{U}$ $\mathcal{U}$						·

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



June 18, 2014

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 06/17/14 9:00.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated 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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	06/17/2014	Sampling Date:	06/16/2014
Reported:	06/18/2014	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 (H401833-01)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2014	ND ·	2.08	104	2.00	0.303	
Toluene*	<0.050	0.050	06/17/2014	ND	2.23	112	2.00	0.554	
Ethylbenzene*	<0.050	0.050	06/17/2014	ND	2.01	101	2.00	0.264	
Total Xylenes*	<0.150	0.150	06/17/2014	ND	6.21	103	6.00	0.529	
Total BTEX	<0.300	0.300	06/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE 111 % 89.4-126

TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/18/2014	ND	165	82.4	200	0.946	
DRO >C10-C28	<10.0	10.0	06/18/2014	ND	173	86.4	200	5.13	
Surrogate: 1-Chlorooctane	67.9	% 65.2-14	10						

Surrogate: 1-Chlorooctadecane 69.3 % 63.6-154

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/17/2014	Sampling Date:	06/16/2014
Reported:	06/18/2014	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 6 @ SURFACE (H401833-02)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2014	ND	2.08	104	2.00	0.303	
Toluene*	<0.050	0.050	06/17/2014	ND	2.23	112	2.00	0.554	
Ethylbenzene*	<0.050	0.050	06/17/2014	ND	2.01	101	2.00	0.264	
Total Xylenes*	<0.150	0.150	06/17/2014	ND	6.21	103	6.00	0.529	
Total BTEX	<0.300	0.300	06/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 89.4-12	6						
TPH 8015M	mg/	kg	Analyze	d By: MS					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/18/2014	ND	165	82.4	200	0.946	
DRO >C10-C28	<10.0	10.0	06/18/2014	ND	173	86.4	200	5.13	
Surrogate: 1-Chlorooctane	63.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	65.0	63.6-15	4						

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#### \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/17/2014	Sampling Date:	06/16/2014
Reported:	06/18/2014	Sampling Type:	Soil
Project Name:	<b>RIGHT HAND CANYON 35-7 SWD</b>	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

# Sample ID: SP 7 @ SURFACE (H401833-03)

BTEX 8021B	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2014	ND	2.08	104	2.00	0.303	
Toluene*	<0.050	0.050	06/17/2014	ND	2.23	112	2.00	0.554	
Ethylbenzene*	<0.050	0.050	06/17/2014	ND	2.01	101	2.00	0.264	
Total Xylenes*	<0.150	0.150	06/17/2014	ND	6.21	103	6.00	0.529	
Total BTEX	<0.300	0.300	06/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIC	111 9	% 89.4-12	6						
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/18/2014	ND	165	82.4	200	0.946	
DRO >C10-C28	<10.0	10.0	06/18/2014	ND	173	86.4	200	5.13	
Surrogate: 1-Chlorooctane	74.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	81.0	% 63.6-15	4						

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Celey D. Kune

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 SM4500CI-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. Kere

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

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

Company Name	BBC International, Inc.					-		843	i ficial	*	11	4.70	<u>je in f</u> ref	1			 ANAI	LYSI	S RE	QUE	ST		
Project Manage	r: Cliff Brunson								), #:														
Address: P.O.	Box 805							Co	mpa	iny:													
city: Hobbs	State: NM	Zip	n: {	382	41			Att	n:														
Phone #: 575-	397-6388 Fax #: 575	-39	7-0	397	7			Ad	dres	is:													
Project #:	Project Owner							City	y:														
Project Name:	Righthand Canyon 35-7							Sta	te:	**********	<del></del> .	Zip:											
Project Location								Pho	one	#:				1									
Sampler Name:	-							Fax	c#:		*******												
FOR LAB USE ONLY		T	Г		M	ATRI	X		PRE	SER	٧Į	SAMPL	NG	1									
Lab I.D. H401833	Sample I.D.	COMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OINER :	DATE	TIME	Hall	BTEV								
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3	SP7 @ SURFACE	6	1		L	1						06/16/14	3:30 PM	1	1		 						 
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nce of services he

reunder by Cardinal, regardless of whe m is based upon any of the above stated re affiliates or successors arising out of or related to the perfor Relinquished B Date: Phone Result: O Yes 1 No Add'l Phone #: **Received By** 16 Fax Result: O Yes O No Add'l Fax #: Time **REMARKS: Received By:** Relinguished By Date Tin Sample Condition CHECKED BY: (miliats) Delivered By: (Circle One) Δ Cool Intact Ø Sampler - UPS - Bus - Other: No No

#54

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



June 18, 2014

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 06/17/14 9:00.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and solid and solid and solid accredited analytes and website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and solid and solid analytes analytes and solid analytes and solid analytes analytes analytes and solid analytes and solid analytes and solid analytes analytes and solid analytes and solid analytes analytes and solid analytes analytes analytes and solid analytes analytes analytes analytes analyte

Cardinal Laboratories is accreditated 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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	06/17/2014	Sampling Date:	06/16/2014
Reported:	06/18/2014	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: SW #1 (H401832-01)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2014	ND	2.08	104	2.00	0.303	
Toluene*	<0.050	0.050	06/17/2014	ND	2.23	112	2.00	0.554	
Ethylbenzene*	<0.050	0.050	06/17/2014	ND	2.01	101	2.00	0.264	
Total Xylenes*	<0.150	0.150	06/17/2014	ND	6.21	103	6.00	0.529	
Total BTEX	<0.300	0.300	06/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110	% 89.4-12	6						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2014	ND	165	82.4	200	0.946	
DRO >C10-C28	<10.0	10.0	06/17/2014	ND	173	86.4	200	5.13	
Surrogate: 1-Chlorooctane	66.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	67.9	% 63.6-15	4						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celey E. Keine

Celey D. Keene, Lab Director/Quality Manager

# **CARDINAL** Laboratories

# Analytical Results For:

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

Received:	06/17/2014	Sampling Date:	06/16/2014
Reported:	06/18/2014	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: SW #2 (H401832-02)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2014	ND	2.08	104	2.00	0.303	
Toluene*	<0.050	0.050	06/17/2014	ND	2.23	112	2.00	0.554	
Ethylbenzene*	<0.050	0.050	06/17/2014	ND	2.01	101	2.00	0.264	
Total Xylenes*	<0.150	0.150	06/17/2014	ND	6.21	103	6.00	0.529	
Total BTEX	<0.300	0.300	06/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2014	ND	165	82.4	200	0.946	
DRO >C10-C28	<10.0	10.0	06/17/2014	ND	173	86.4	200	5.13	
Surrogate: I-Chlorooctane	81.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	89.8	% 63.6-15	4						

#### **Cardinal Laboratories**

## \*=Accredited Analyte

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Celey & Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 7



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

Received:	06/17/2014	Sampling Date:	06/16/2014
Reported:	06/18/2014	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: SW #3 (H401832-03)

BTEX 80218	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2014	ND	2.08	104	2.00	0.303	
Toluene*	<0.050	0.050	06/17/2014	ND	2.23	112	2.00	0.554	
Ethylbenzene*	<0.050	0.050	06/17/2014	ND	2.01	101	2.00	0.264	
Total Xylenes*	<0.150	0.150	06/17/2014	ND	6.21	103	6.00	0.529	
Total BTEX	<0.300	0.300	06/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	6 89.4-12	6						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2014	ND	165	82.4	200	0.946	
DRO >C10-C28	<10.0	10.0	06/17/2014	ND	173	86.4	200	5.13	
Surrogate: 1-Chlorooctane	84.5 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	93.4 9	63.6-15	4						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celez D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/17/2014	Sampling Date:	06/16/2014
Reported:	06/18/2014	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 #1B (H401832-04)

BTEX 8021B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2014	ND	2.08	104	2.00	0.303	
Toluene*	<0.050	0.050	06/17/2014	ND	2.23	112	2.00	0.554	
Ethylbenzene*	<0.050	0.050	06/17/2014	ND	2.01	101	2.00	0.264	
Total Xylenes*	<0.150	0.150	06/17/2014	ND	6.21	103	6.00	0.529	
Total BTEX	<0.300	0.300	06/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	% 89.4-12	6						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2014	ND	165	82.4	200	0.946	
DRO >C10-C28	<10.0	10.0	06/17/2014	ND	173	86.4	200	5.13	
Surrogate: 1-Chlorooctane	79.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	87.8	% 63.6-15	4						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celey D. Keine

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 SM4500CI-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. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 7



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

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

Company Name:	BBC International, Inc.					i,			3/6	LTO			·//,		ANAI	LYSIS	S RE	QUE	ST	 	
	Project Manager: Cliff Brunson P.O. #:													$\square$							
Address: P.O.	Box 805					c	omp	any:									]				
city: Hobbs	State: NM	Zip	88	3241		A	ttn:								i						
Phone #: 575-3	97-6388 Fax #: 575-	397	-03	97		A	ddre	iss.		Q		[				(	[			1	
Project #:	Project Owner	:0	61			c	ity:	-6	7	June	/					l		1			
Project Name:	Zisht Hand Canyon 35-"	7	-1-			s	tate:			Zip:											
Project Location	Carls Bad					Р	hone	9 #:							l						
	Gory RAY					F	ax #	:								ļ					
FOR LAB USE ONLY			_	M	ATRI	( 	PR	ESER	₹V	SAMPL	NG										
Lab I.D. H401832	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER	SUL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	B-72X								
1	SW#2	6	2		N_			X		6-16-14	9:00	X	X								
2	SW#2	G	2		٢			X		6-16-14	2:20	X	X	 							
3	5w #3	6	2		<u> </u>			X X		6-16-N	2:40	$ \Delta $	V.	 						 	
4	5P #1B	6	1		K			X		6-16-H	2:50	$\mathbf{X}$	K	 		[				 	
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affiltates 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. **Relinguished By:** Received Byr Phone Result: Q Yes Q No Add'l Phone #: Date Q Yes Q No Add'l Fax #: Fax Result: REMARKS: Rush **Received By:** Relinquished By-Sample Condition Delivered By: (Circle One) CHEO BY Cool Intact Ves Ves -4.6% Sampler - UPS - Bus - Other:

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

## Jennifer Gilkey

From:	Cliff P. Brunson <cbrunson@bbcinternational.com></cbrunson@bbcinternational.com>
Sent:	Sunday, April 06, 2014 4:50 PM
То:	Mike Bratcher
Cc:	Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject:	OXY-Righthand Canyon 35-7-Remediation Plan
Attachments:	Remediation Packet, Righthand Canyon 35-7.pdf

Mike,

This e-mail is to confirm our conversation on April 1, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 1 foot in the leak area around SP1 and the remainder of the leak area on top of the hill will be excavated to a depth of 6 inches as depicted on the attached site diagram. Then the site will then be backfilled with clean soil.

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

Thanks, Cliff

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

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**Kathy Purvis** 

From:	Ken Swinney <kswinney@bbcinternational.com></kswinney@bbcinternational.com>
Sent:	Thursday, May 01, 2014 3:20 PM
То:	Kathy Purvis
Subject:	FW: OXY-Righthand Canyon 35-7-Remediation Plan

From: Van Curen, Jennifer [mailto:jvancure@blm.gov]

Sent: Friday, April 18, 2014 3:22 PM

**To:** Brunson; <u>Christopher Jones@oxy.com</u>; <u>kswinney@bbcinternational.com</u>; Jennifer Gilkey **Subject:** Re: OXY-Righthand Canyon 35-7-Remediation Plan

Plan is approved with the following stips.

Need to grab samples on sides for horizontal delineation.

Need samples from downslope areas to have for future reference in case areas are not vegetated back.

Area downslope from leak point on south of road is also impacted and will need to be included in cleanup. flowlines will need to be moved or elevated to remove contaminants underneath.

Need sample at 1.5' at sample point SP1B to see if TPH lowers.

TPH needs to be below 1000 in all areas with no contaminants left at surface. The area off side of hill may need to be treated to assist with lowering TPH levels if they are elevated.

Berm pad sufficiently to prevent fluids from leaving well pad. If drainage is running onto pad from an upslope source, prevent by engineering a control.

Thanks

JENNIFER E VAN CUREN ENVIRONMENTAL PROTECTION SPECIALIST DOI-BLM-CARLSBAD FIELD OFFICE 320 E GREENE ST. CARLSBAD, NM 88220 OFFICE- 575-234-5905 CELL - 575-361-0042 FAX - 575-234-5927

"There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know." Jim Perry

On Mon, Apr 7, 2014 at 6:26 AM, Amos, James <<u>jamos@blm.gov</u>> wrote:

------ Forwarded message ------From: **Cliff P. Brunson** <<u>cbrunson@bbcinternational.com</u>> Date: Sun, Apr 6, 2014 at 4:50 PM Subject: OXY-Righthand Canyon 35-7-Remediation Plan To: James Amos <<u>jamos@blm.gov</u>> Cc: Chris Jones <<u>Christopher\_Jones@oxy.com</u>>, Ken Swinney <<u>kswinney@bbcinternational.com</u>>, Jennifer Gilkey <jgilkey@bbcinternational.com>, Kathy Purvis <<u>kathy@bbcinternational.com</u>>

Jim,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Mike Bratcher of the NMOCD. Oxy will excavate to a depth of 1 foot in the leak area around SP1 and the remainder of the leak area on top of the hill will be excavated to a depth of 6 inches as depicted on the attached site diagram. Then the site will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated. If you have any questions, please let us know.

Thanks, Cliff

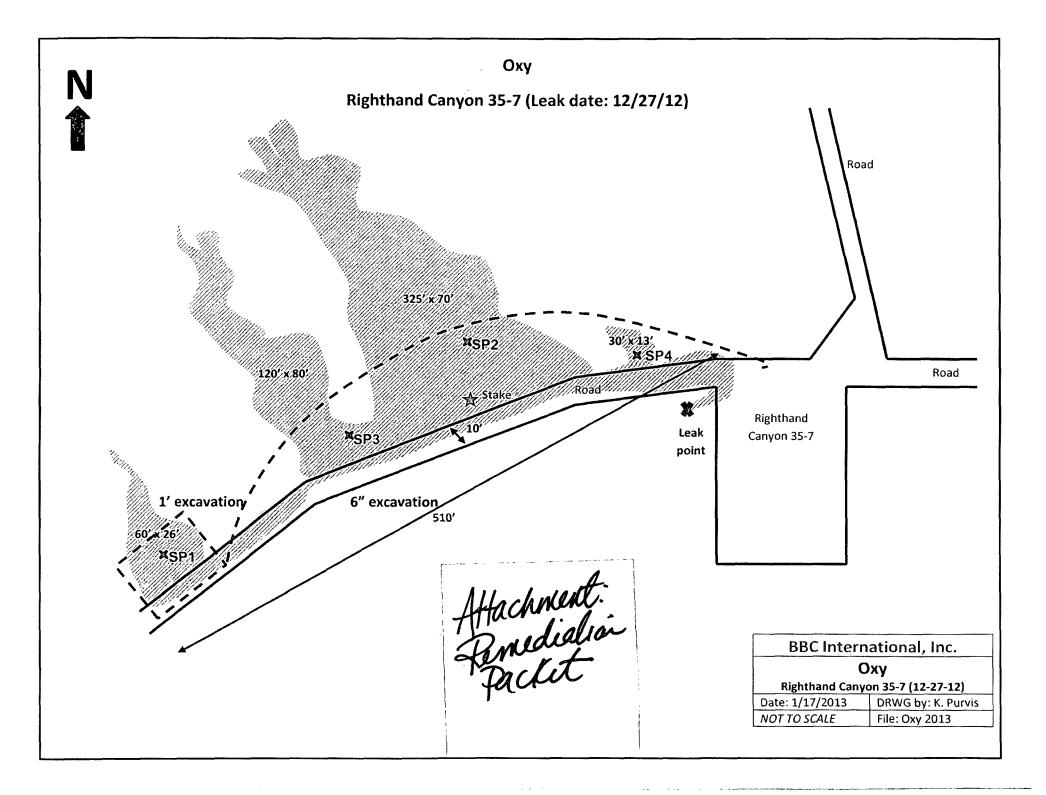
Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland St. Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397 E-Mail: <u>cbrunson@bbcinternational.com</u>

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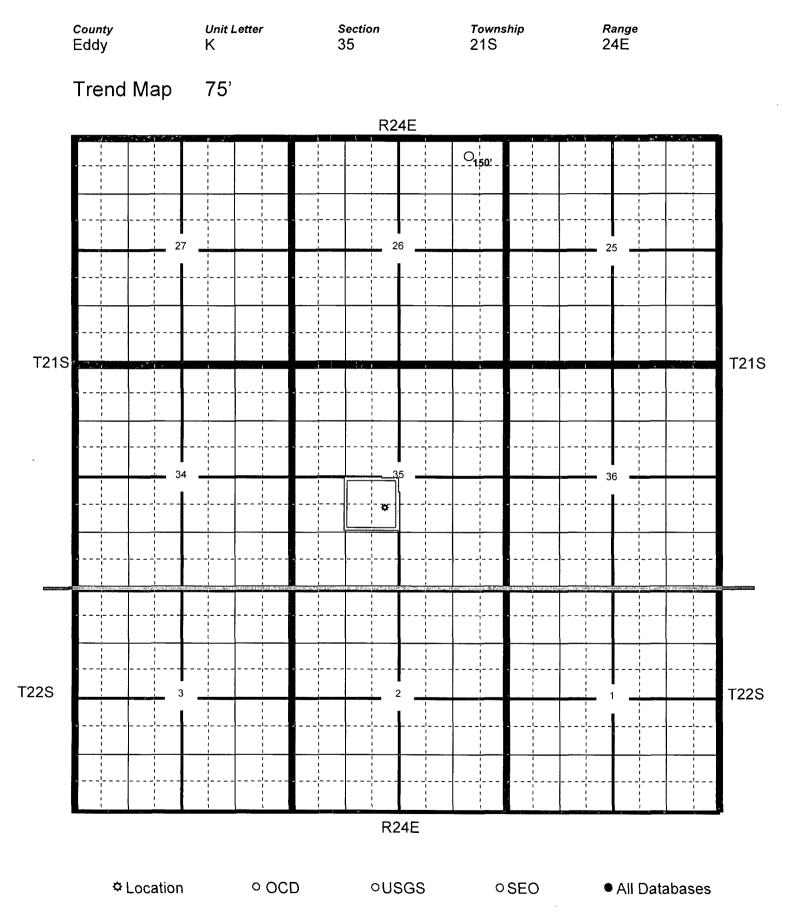
James A. Amos Bureau of Land Management Carlsbad Field Office Supervisory Environmental Protection Specialist 620 East Greene Street Carlsbad, NM. 88220 Office: (575) 234-5909 Fax: (575) 234-5927 Cell: (575) 361-2648 E-mail: jamos@blm.gov





**Groundwater Plot** 

# Oxy Righthand Canyon 35-7 SWD





Section Quarters

# Oxy Righthand Canyon 35-7 SWD

<i>County</i> Eddy	Unit Letter K	Section 35	Township 21S	Range 24E
Trend Map	75'			
	1			2
NW/NW	NE	/NW	NW/NE	NE/NE
None			       	
		2 · · · · · · · · · · · · · · · · · · ·		
Unit Letter D	Unit Le	tter C	Unit Letter B	Unit Letter A
SW/NW	SE	NW	SW/NE	SE/NE
		2 3 2 2 3 3		
Unit Letter E	Unit Le	tter F	Unit Letter G	Unit Letter H
NW/SW		/SW	NW/SE	NE/SE
			1         	
		*		
Unit Letter L			Unit Letter J	Unit Letter I
SW/SW	SE.	SW	SW/SE	SE/SE
		1		
Unit Letter M	Unit Le	tter N	Unit Letter O	Unit Letter P
	3			4

Continue Location

° SEO

## Laboratory Analytical Results Summary Righthand Canyon 35-7 SWD

		Sample	SP1 @ SURFACE	SP1@6"
Analyte	Method	Date	2/5/13	2/5/13
			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	SM4500CI-B		128	32
GRO	TPH 8015M		<50.0	<50.0
DRO	TPH 8015M		6720	11400

		Sample	SP2 @ SURFACE	SP2 @ 6"
Analyte	Method	Date	2/5/13	2/5/13
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		32	176

		Sample	SP3 @ SURFACE	SP3 @ 6"
Analyte	Method	Date	2/5/13	2/5/13
			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	SM4500CI-B		448	240
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		4820	541

		Sample	SP4 @ SURFACE	SP4 @ 6"
Analyte	Method	Date	2/5/13	2/5/13
		_	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	SM4500CI-B		400	160
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		4200	229

## Laboratory Analytical Results Summary Righthand Canyon 35-7

		Sample	SP1B @ 6"	SP1B @ 1'
Analyte	Method	Date	1/3/14	1/3/14
			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
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		762	1700



February 11, 2013

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 02/06/13 8:25.

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

Cardinal Laboratories is accreditated 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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	02/06/2013	Sampling Date:	02/05/2013
Reported:	02/11/2013	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 1 @ SURFACE (H300329-01)

BTEX 8021B	mg,	/kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9	
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4	
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8	
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0	
Total BTEX	<0.300	0.300	02/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 116 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/07/2013	ND	432	108	400	0.00	
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	<50.0	50.0	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	6720	50.0	02/07/2013	ND	202	101	200	21.9	
Surrogate: 1-Chlorooctane	74.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	280	% 63.6-15	4						

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#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Received:	02/06/2013	Sampling Date:	02/05/2013
Reported:	02/11/2013	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 1 @ 6" (H300329-02)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9	
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4	
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8	
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0	
Total BTEX	<0.300	0.300	02/07/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	123 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/07/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	11400	50.0	02/07/2013	ND	202	101	200	21.9	
Surrogate: 1-Chlorooctane	79.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	457 9	63.6-15							

## Sample ID: SP 2 @ SURFACE (H300329-03)

Chloride, SM4500CI-B	Analyzed By: DW								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/07/2013	ND	432	108	400	0.00	

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\*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/06/2013	Sampling Date:	02/05/2013
Reported:	02/11/2013	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 @ 6" (H300329-04)

Chloride, SM4500CI-B mg/kg			Analyze	Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/07/2013	ND	432	108	400	0.00	

## Sample ID: SP 3 @ SURFACE (H300329-05)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9	
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4	
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8	
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0	
Total BTEX	<0.300	0.300	02/07/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	% 89.4-12	6						·
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	02/07/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d 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	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	4820	10.0	02/07/2013	ND	202	101	200	21.9	
Surrogate: 1-Chlorooctane	83.0	65.2-14	0						
Surrogate: 1-Chlorooctadecane	242 9	63.6-15	4						

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#### \*=Accredited Analyte

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Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/06/2013	Sampling Date:	02/05/2013
Reported:	02/11/2013	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 3 @ 6" (H300329-06)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9	
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4	
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8	
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0	
Total BTEX	<0.300	0.300	02/07/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	6 89.4-12	6	,					
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/07/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	541	10.0	02/07/2013	ND	202	101	200	21.9	
Surrogate: 1-Chlorooctane	85.3 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	1149	63.6-15	4						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/06/2013	Sampling Date:	02/05/2013
Reported:	02/11/2013	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 (H300329-07)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9	
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4	
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8	
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0	
Total BTEX	<0.300	0.300	02/07/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/07/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d 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	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	4200	10.0	02/07/2013	ND	202	101	200	21.9	
Surrogate: 1-Chlorooctane	83.3 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	223 9	63.6-15	4						

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/06/2013	Sampling Date:	02/05/2013
Reported:	02/11/2013	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 @ 6" (H300329-08)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9	
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4	
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8	
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0	
Total BTEX	<0.300	0.300	02/07/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/07/2013	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	229	10.0	02/07/2013	ND	202	101	200	21.9	
Surrogate: 1-Chlorooctane	80.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	102 9	63.6-15	4						

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Celey D. Kune

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 SM4500CI-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 & Kune

Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

Company Name	BBC International, Inc.					ign lich.			314	1 70						ANA	LYSIS	S RE	QUE	ST			
	r: Cliff Brunson					F	P.O. #																·
Address: P.O.	. Box 805					С	omp	any:															
city: Hobbs	State: NM	Zip:	.88	241		A	ttn:		$\leq$	:AM	Ł												
Phone #: 575-	397-6388 <b>Fax #</b> : 575	-397	-039	97		A	ddre	ss:	~	זיןייו													
Project #:	Project Owne	r:	OX	<u>y</u>		c	ity:									[				1			
Project Name:	Righthand Canyon 3	5	6	2		s	tate:			Zip:													
Project Location	n'					P	hone	#:			·	[											
Sampler Name:	ROGERHERMANDEZ				_	F	ax #:		-								ŀ						
FOR LAB USE ONLY				MA		X	PR	ESER	<u>ع۷.</u>	SAMPLI	1G		_	2		1							
Lab I.D. H3Ec329	Sample I.D.	(G)RAB OR (C)OM	# CONTAINERS	WASTEWATER Soll	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	-70)	Hd1	318									
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-24¥6



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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated 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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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 1B @ 6" (H400040-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD ·	Qualifier
Benzene*	<0.050	0.050	01/10/2014	ND	1.92	96.1	2.00	2.06	•
Toluene*	<0.050	0.050	01/10/2014	ND	1.89	94.6	2.00	2.20	
Ethylbenzene*	<0.050	0.050	01/10/2014	ND	1.93	96.4	2.00	2.32	
Total Xylenes*	<0.150	0.150	01/10/2014	ND	5.63	93.8	6.00	2.42	
Total BTEX	<0.300	0.300	01/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL 105 % 89.4-126

TPH 8015M	mg	/kg	Analyze	d 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	762	10.0	01/08/2014	ND	180	90.1	200	1.19	
Surrogate: 1-Chlorooctane	86.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	124	% 63.6-15	4						

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



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 1B @ 1' (H400040-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2014	ND	1.92	96.1	2.00	2.06	
Toluene*	<0.050	0.050	01/10/2014	ND	1.89	94.6	2.00	2.20	
Ethylbenzene*	<0.050	0.050	01/10/2014	ND	1.93	96.4	2.00	2.32	
Total Xylenes*	<0.150	0.150	01/10/2014	ND	5.63	93.8	6.00	2.42	
Total BTEX	<0.300	0.300	01/10/2014	ND					

TPH 8015M	mg,	/kg	Analyze	d 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	1700	10.0	01/08/2014	ND	180	90.1	200	1.19	
Surrogate: 1-Chlorooctane	84.8	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	129	% 63.6-15	4						

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#### \*=Accredited Analyte

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Celey Di Kune

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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

	101 East Marland, (505) 393-2326 FA	Hobbs, NM  88 X (505) 393-247	240	•	•		•	-						· .	•		ч.+ 2.*			•			1	fl	) ·
Company Name	BBC Internation	nal, Inc.								-6		4 70		142,007				ÄNA	LYS	S RE	QUE	ST		1	
Project Manager	: Cliff Brunson							Ρ.	0, #:				• .					1			ŀ	:			•
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FOR LAB USE ONLY			Т	T	<u> </u>	MA	TRIX		-	ESER	v	SAMPL	NG	1			· ·	· .		· •				·	
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Lab I.D. H400040	Sample	I.D.	(G)RAB OR (C)	# CONTAINERS	GROUNDWATER	WASTEWATER SOIL	OIL	SLUDGE OTHER:	ACID/BASE:			DATE	TIME	Hdl	STE							•			
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service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

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

NM OIL CONSERVATION ARTESIA DISTRICT District 1 State of New Mexico 1625 N. French Dr., Hobbs, NM 88240 Form C-141 .1UL **22** 2014 Energy Minerals and Natural Resources Revised October 10, 2003 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III Submit 2 Copies to appropriate **Oil Conservation Division** RECEIVED District Office in accordance 1000 Rio Brazos Road, Aztec, NM 87410 1220 South St. Francis Dr. District IV with Rule 116 on back 1220 S. St. Francis Dr., Santa Fe, NM 87505 side of form Santa Fe, NM 87505 **Release Notification and Corrective Action OPERATOR** Initial Report Final Report Name of Company Oxy Permian Ltd. Contact Christopher Jones 1502 W. Commerce Dr., Carlsbad, NM Address Telephone No. (575) 628-4121 Righthand Canyon 35-7 SWD Facility Name Facility Type SWD Lease No. AP1#30-015-34529 Mineral Owner Surface Owner LOCATION OF RELEASE Feet from the Unit Letter Section Township North/South Line East/West Line Range Feet from the County ĸ 35 215 24E 1975 South 2405 West Eddy County, NM Latitude Longitude NATURE OF RELEASE Type of Release Produced water Volume of Release 175 bbls Volume Recovered 0 bbls Source of Release Failure in 2" valve on the discharge line Date and Hour of Occurrence Date and Hour of Discovery 12/27/2012 Was Immediate Notice Given? If YES, To Whom? Yes No Not Required Mike Bratcher- OCD, James Amos-BLM, Terry Gregston-BLM By Whom? Christopher Jones Date and Hour 12/27/2012 @ 1:53 pm Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. 🗌 Yes 🛛 No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action Taken.\* Failure in a 2" valve on the discharge line caused 175 bbls of produce water to leak onto the ground. Fluids were not recoverable. The valve was repaired. Describe Area Affected and Cleanup Action Taken.\* Failure in a 2" valve on the discharge line caused 175 bbls of produce water to leak onto the ground. Fluids were not recoverable. Remediation will be performed in accordance with an OCD and BLM approved remediation plan. 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 adoptately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition AMCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Christopper Jones Printed Name: Title: **HES Specialist** Approval Date: Expiration Date: E-mail Address: Christopher Jones@oxy.com Conditions of Approval: Attached (575) 628-4121 Date: Phone:

\* Attach Additional Sheets If Necessary