

Closure Report

Site Description

Site Name:	Cedar Canyon 22 #001H
Company:	Oxy Permian
Legal Description:	U/L K, Section 22, T24S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.20123° W-103.97413°

Release Data

Date of Release:	04/09/2017
Type of Release:	Oil and produced water
Source of Release:	Line pressure leak
Volume of Release:	100 bbls oil, 5 bbls produced water
Volume Recovered:	96 bbls oil, 4 bbls produced water

Remediation Specifications

Remediation Parameters:	Excavate the entire spill to a depth of 2.5 feet. Backfill the site with clean soil.	
Remediation Activities:	01/22/2018 to 02/14/2018	
Plan Sent to OCD:	09/13/2017	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	09/21/2017	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	09/13/2017	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	10/03/2017	Email from Shelly Tucker to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 04/12/2017
Final C-141	Upon completion
Site Diagram	April 2017
Groundwater Plot	75'-100'
TOPO Maps	April 2017
Lab Summary	04/17/2017
Lab Analysis	04/17/2017
Correspondence	Request and approval of remediation plan via email

Request for Closure

Based on the completion of the remediation plan, Oxy Permian requests closure approval from NMOCD.

Wade Dittrich, Environmental Specialists, Oxy Permian

02/22/2018

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

APR 12 2017

Form C-141
Revised April 3, 2017

Submit Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

DAB1710736826		OPERATOR		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company OXY USA INC		Contact CASEY SUMMERS			
Address PO BOX 4294; HOUSTON, TX 77210		Telephone No. 575-513-8289			
Facility Name CEDAR CANYON 22 #1H		Facility Type OIL WELL			
Surface Owner FEDERAL		Mineral Owner FEDERAL		API No. 30-015-40668	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	22	24S	29E	1980	SOUTH	1980	WEST	EDDY

Latitude_N 32.2011642° Longitude_W -103.9744949° NAD83

NATURE OF RELEASE

Type of Release OIL & PRODUCED WATER	Volume of Release 100 bbls OIL 5 bbls PW	Volume Recovered 96 OIL / 4 PW bbls
Source of Release LINE OVER PRESSURED	Date and Hour of Occurrence 3-31-2017 4/9/17 *	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? e-mail MIKE BRATCHER, NMOCD; CRYSTAL WEAVER, NMOCD; SHELLY STUCKER, BLM	
By Whom? CASEY SUMMERS	Date and Hour 04/03/2017 12:30 PM	* 4/10/17 10:28am
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. e-mail	

If a Watercourse was Impacted, Describe Fully.*


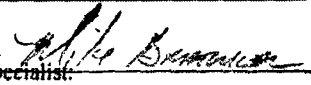
Describe Cause of Problem and Remedial Action Taken.*

Line over pressured and caused PRV to open which over ran the tank. No high level alarm was set on tank. Oxy is looking into pressure and alarm issue to determine problem. Everything in line containment was recovered.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 35' x 15' and is both on and off location. Remediation will be completed in accordance with a remediation plan approved by NMOCD.

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: CASEY L SUMMERS		Approved by Environmental Specialist: 	
Title: ENVIRONMENTAL ADVISOR		Approval Date: 4/17/17	Expiration Date: N/A
E-mail Address: casey_summers@oxy.com		Conditions of Approval: See Attached	
Date: 4-12-17	Phone: 575-513-8289	Attached <input checked="" type="checkbox"/>	

* Attach Additional Sheets If Necessary

2RP-4173

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 4/12/17 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number ARP-4173 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 5/12/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.

- Composite sampling is not generally allowed.

- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

505-476-3465

jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: Casey_Summers@oxy.com
Sent: Wednesday, April 12, 2017 12:46 PM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; stucker@blm.gov; Jennifer_Hudgens@oxy.com
Cc: cbrunson@bbcinternational.com; kswinney@bbcinternational.com; kathy@bbcinternational.com; jgilkey@bbcinternational.com
Subject: RE: Cedar Canyon 22 #001 Initial Notification
Attachments: Cedar Canyon 22 #1H Initial C141.pdf

Attached is the initial C-141 for the release that occurred at the Cedar Canyon 22-1H on 04/9/2017 in Eddy County, NM. Receipt notification and the RP number via email are greatly appreciated
Casey Summers
O: (575)-628-4152
C: (575)-513-8289

From: Summers, Casey L
Sent: Monday, April 10, 2017 10:28 AM
To: 'Bratcher, Mike, EMNRD' <mike.bratcher@state.nm.us>; 'Weaver, Crystal, EMNRD' <Crystal.Weaver@state.nm.us>; 'Tucker, Shelly' <stucker@blm.gov>; Hudgens, Jennifer A <Jennifer_Hudgens@oxy.com>
Cc: 'Cliff Brunson' <cbrunson@bbcinternational.com>; 'Ken Swinney' <kswinney@bbcinternational.com>; 'Kathy Purvis' <kathy@bbcinternational.com>; 'Jennifer Gilkey' <jgilkey@bbcinternational.com>
Subject: Cedar Canyon 22 #001 Initial Notification

All,
This is to inform you that Oxy Permian had a release in Eddy County at the Cedar Canyon 22 #001 on 4/09/2017.

- **Release Location:** Legal K-22-24S-29E, API: 30-015-40668
- **Release Volume:** 100 bbls of Oil and 5 bbls of Produced Water in and out of a lined containment. All fluid from release stayed on location.
- **Recovered:** 96 bbls of oil and 4 bbls of water recovered
- **Cause of release:** Line over pressured and caused PRV to open which over ran the tank. No high level alarm was sent on tank. Oxy is looking into pressure and alarm issue to determine problem.
- **Approximate Area impacted by release:** Everything in line containment was recovered. 35Lx15W FT is the measurement of fluid that exited the berm (measurements will change with future GPS track).
- **GPS Coordinates and Driving Direction:** 32.2011642,-103.9744949, FROM CARLSBAD ON PECOS HWY GO SOUTH, GO INTO MALAGA TURN ON DUARTE ROAD GO TO MCDONALD ROAD GO ACROSS RIVER, FOLLOW DIRT ROAD LEFT TO TOP OF HILL AND THE WELL WILL BE ON THE LEFT

Please let me know if you have any questions.

Thank you,

Casey Summers

Bratcher, Mike, EMNRD

From: Casey_Summers@oxy.com
Sent: Monday, April 10, 2017 10:28 AM ✱
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; stucker@blm.gov; Jennifer_Hudgens@oxy.com
Cc: cbrunson@bbcinternational.com; kswinney@bbcinternational.com; kathy@bbcinternational.com; jgilkey@bbcinternational.com
Subject: Cedar Canyon 22 #001 Initial Notification

All,

This is to inform you that Oxy Permian had a release in Eddy County at the Cedar Canyon 22 #001 on 4/09/2017. ✱

- **Release Location:** Legal K-22-24S-29E, API: 30-015-40668
- **Release Volume:** 100 bbls of Oil and 5 bbls of Produced Water in and out of a lined containment. All fluid from release stayed on location.
- **Recovered:** 96 bbls of oil and 4 bbls of water recovered
- **Cause of release:** Line over pressured and caused PRV to open which over ran the tank. No high level alarm was sent on tank. Oxy is looking into pressure and alarm issue to determine problem.
- **Approximate Area impacted by release:** Everything in line containment was recovered. 35Lx15W FT is the measurement of fluid that exited the berm (measurements will change with future GPS track).
- **GPS Coordinates and Driving Direction:** 32.2011642,-103.9744949, FROM CARLSBAD ON PECOS HWY GO SOUTH, GO INTO MALAGA TURN ON DUARTE ROAD GO TO MCDONALD ROAD GO ACROSS RIVER, FOLLOW DIRT ROAD LEFT TO TOP OF HILL AND THE WELL WILL BE ON THE LEFT

Please let me know if you have any questions.

Thank you,

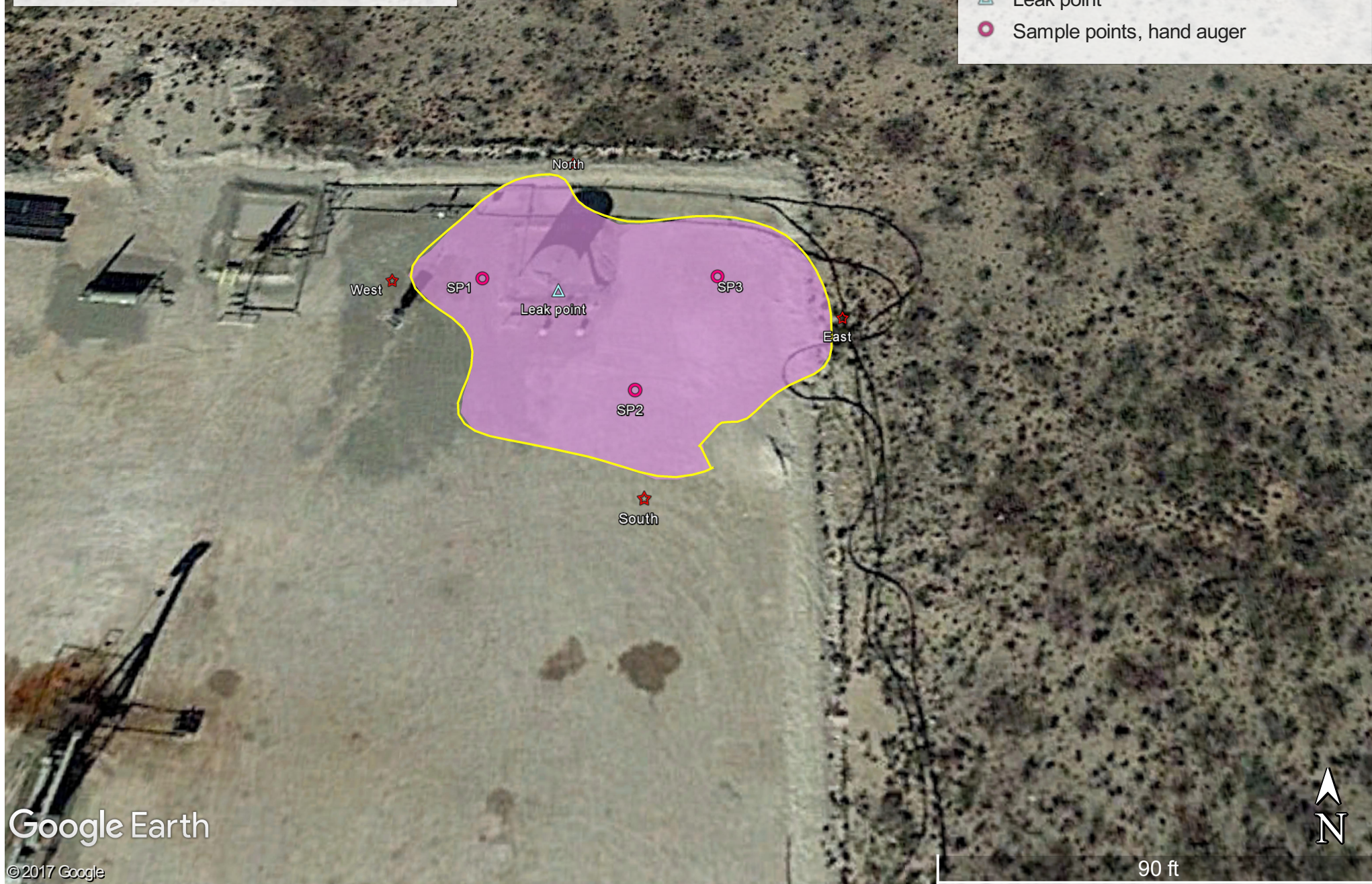
Casey Summers
O: (575)-628-4152
C: (575)-513-8289

Oxy, Cedar Canyon 22 #1H

Leak date: 04/09/2017
Eddy County, NM
API# 30-015-40668
2RP-4173

Legend

- 2.5' Excavation across entire leak area
- Cardinal sample points, hand auger
- Leak Area
- Leak point
- Sample points, hand auger



Oxy, Cedar Canyon 22 #1H

Sample points, hand auger

SP1, N 32.20141 W-103.97423

SP2, N 32.20132 W-103.97410

SP3, N 32.20142 W-103.97404

NORTH, N 32.20151 W-103.97416

SOUTH, N 32.20124 W-103.97410

EAST, N 32.20138 W-103.97394

WEST, N 32.20141 W-103.97431

Oxy, Cedar Canyon 22 #001
U/L K, Section 22, T24S, R29E
Groundwater: 75'-100'





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 596258

Northing (Y): 3563189

Radius: 1700

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/17/17 9:54 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Public Land Survey System (PLSS)

Q64:Q16: NWQ4: SWSec: 22Tws: 24SRng: 29E

State Plane Coordinate System - NAD27

X:ftY:ftZone:

State Plane Coordinate System - NAD83

X:ftY:ftZone:

Degrees/Minutes/Seconds

Longitude (X):Degrees: °Minutes: 'Seconds: "

Latitude (Y):Degrees: °Minutes: 'Seconds: "

UTM - NAD27

Easting (X):mtrs Northing (Y):mtrs Zone:

SUBMIT

All Conversion Results are displayed as NAD 1983 UTM Zone 13

Easting (X):596258.0mtrsNorthing (Y):3563189.0mtrs

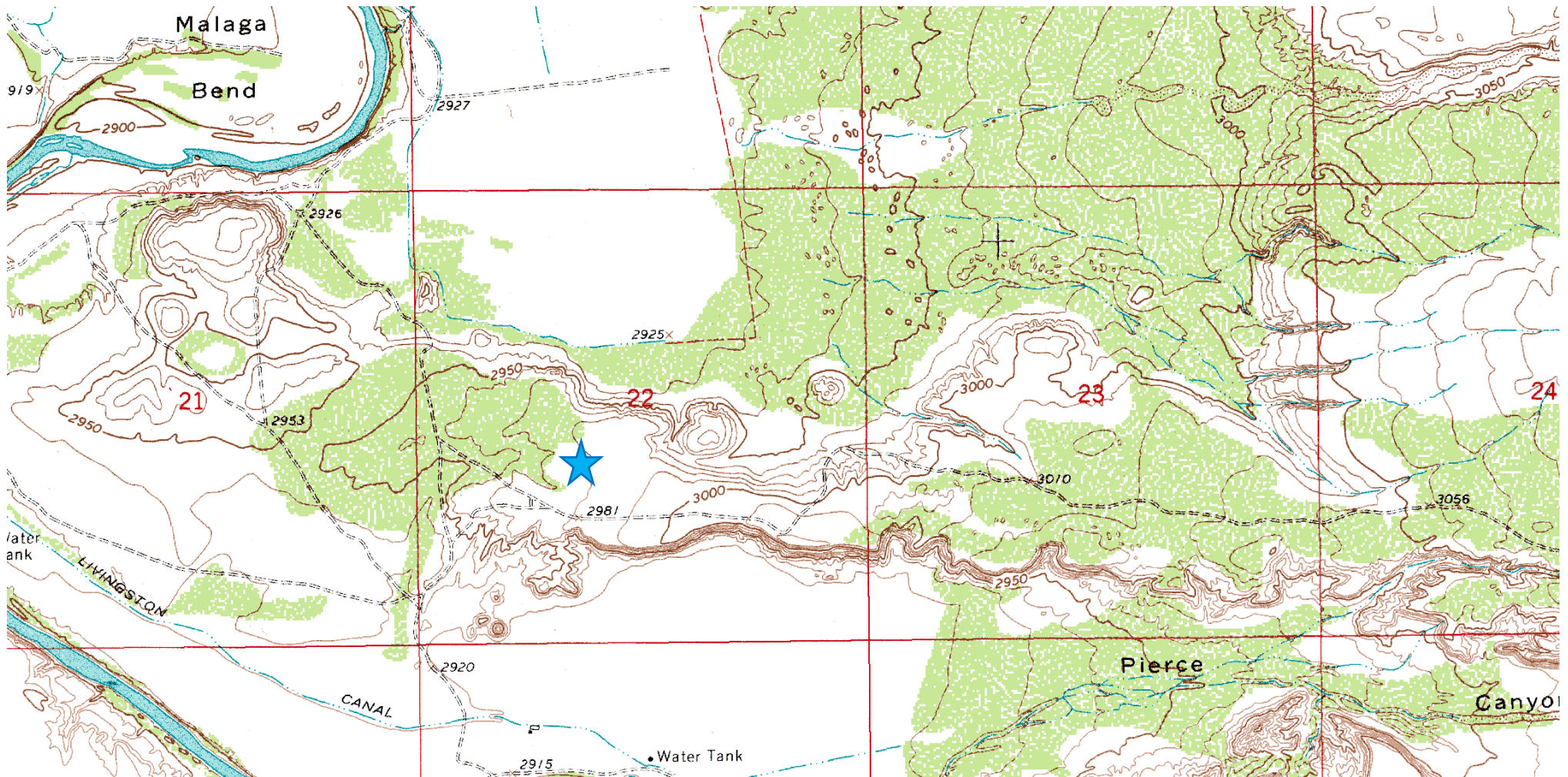
~~ Please keep screen open to copy UTM values for Reports. ~~

Oxy



Oxy

Cedar Canyon 22 #1H



**Laboratory Analytical Results Summary
Cedar Canyon 22 #001**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 8'
Analyte	Method	Date	4/17/17	4/17/17	4/17/17	4/17/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.500	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		5.29	0.425	<0.050	<0.050
Ethylbenzene	BTEX 8021B		9.16	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		40.8	4.64	<0.150	<0.150
Total BTEX	BTEX 8021B		55.3	5.07	<0.300	<0.300
Chloride	SM4500Cl-B		496	32	32	32
GRO	TPH 8015M		935	88.9	<10.0	<10.0
DRO	TPH 8015M		5850	1420	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 8'
Analyte	Method	Date	4/17/17	4/17/17	4/17/17	4/17/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.500	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		2.12	0.205	<0.050	<0.050
Ethylbenzene	BTEX 8021B		4.2	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		18.6	1.45	<0.150	<0.150
Total BTEX	BTEX 8021B		24.9	1.65	<0.300	<0.300
Chloride	SM4500Cl-B		480	16	<16.0	64
GRO	TPH 8015M		652	96.4	<10.0	<10.0
DRO	TPH 8015M		6700	2000	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 8'
Analyte	Method	Date	4/17/17	4/17/17	4/17/17	4/17/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.500	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		3.28	0.519	<0.050	<0.050
Ethylbenzene	BTEX 8021B		5.37	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		23.1	5.25	<0.150	<0.150
Total BTEX	BTEX 8021B		31.8	5.77	<0.300	<0.300
Chloride	SM4500Cl-B		448	16	<16.0	64
GRO	TPH 8015M		813	126	<10.0	<10.0
DRO	TPH 8015M		6140	1760	10.4	<10.0

		Sample	SOUTH @ 1'
Analyte	Method	Date	2/8/17
			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
Chloride	SM4500Cl-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	NORTH @ 1'
Analyte	Method	Date	2/8/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		0.066
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	EAST @ 1'
Analyte	Method	Date	2/8/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		0.073
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		64
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	WEST @ 1'
Analyte	Method	Date	2/8/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		0.082
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0



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

April 28, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON

Enclosed are the results of analyses for samples received by the laboratory on 04/21/17 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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: (575) 397-0397

Received: 04/21/2017
Reported: 04/28/2017
Project Name: CEDAR CANYON
Project Number: 22 # 001
Project Location: NOT GIVEN

Sampling Date: 04/17/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP1 @ 1' (H701078-01)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	5.29	0.500	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	9.16	0.500	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	40.8	1.50	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTX	55.3	3.00	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	04/26/2017	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	935	10.0	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	5850	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 154 % 28.3-164

Surrogate: 1-Chlorooctadecane 138 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2017
Reported: 04/28/2017
Project Name: CEDAR CANYON
Project Number: 22 # 001
Project Location: NOT GIVEN

Sampling Date: 04/17/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP1 @ 2' (H701078-02)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	0.425	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	4.64	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTEX	5.07	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 161 % 72-148

Chloride, SM4500CI-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/26/2017	ND	416	104	400	3.77	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	88.9	10.0	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	1420	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 103 % 28.3-164

Surrogate: 1-Chlorooctadecane 103 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2017
Reported: 04/28/2017
Project Name: CEDAR CANYON
Project Number: 22 # 001
Project Location: NOT GIVEN

Sampling Date: 04/17/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP1 @ 3' (H701078-03)

BTX 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	04/26/2017	ND	2.06	103	2.00	4.14		
Toluene*	<0.050	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49		
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84		
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93		
Total BTX	<0.300	0.300	04/26/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/26/2017	ND	416	104	400	3.77	

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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 91.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.5 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2017
Reported: 04/28/2017
Project Name: CEDAR CANYON
Project Number: 22 # 001
Project Location: NOT GIVEN

Sampling Date: 04/17/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP1 @ 8' (H701078-04)

BTX 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	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	<0.050	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTX	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/26/2017	ND	416	104	400	3.77	

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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 97.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 90.3 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2017
Reported: 04/28/2017
Project Name: CEDAR CANYON
Project Number: 22 # 001
Project Location: NOT GIVEN

Sampling Date: 04/17/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP2 @ 1' (H701078-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	2.12	0.500	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	4.20	0.500	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	18.6	1.50	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTEX	24.9	3.00	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	04/24/2017	ND	448	112	400	3.51	

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	652	10.0	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	6700	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 150 % 28.3-164

Surrogate: 1-Chlorooctadecane 159 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2017
Reported: 04/28/2017
Project Name: CEDAR CANYON
Project Number: 22 # 001
Project Location: NOT GIVEN

Sampling Date: 04/17/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP2 @ 2' (H701078-06)

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	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	0.205	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	1.45	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTEX	1.65	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 143 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/24/2017	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	96.4	10.0	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	2000	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 113 % 28.3-164

Surrogate: 1-Chlorooctadecane 119 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2017
Reported: 04/28/2017
Project Name: CEDAR CANYON
Project Number: 22 # 001
Project Location: NOT GIVEN

Sampling Date: 04/17/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP2 @ 3' (H701078-07)

BTX 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	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	<0.050	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTX	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/24/2017	ND	448	112	400	3.51	

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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 102 % 28.3-164

Surrogate: 1-Chlorooctadecane 98.1 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2017
Reported: 04/28/2017
Project Name: CEDAR CANYON
Project Number: 22 # 001
Project Location: NOT GIVEN

Sampling Date: 04/17/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP2 @ 8' (H701078-08)

BTX 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	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	<0.050	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTX	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/24/2017	ND	448	112	400	3.51	

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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 103 % 28.3-164

Surrogate: 1-Chlorooctadecane 95.1 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2017
Reported: 04/28/2017
Project Name: CEDAR CANYON
Project Number: 22 # 001
Project Location: NOT GIVEN

Sampling Date: 04/17/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP3 @ 1' (H701078-09)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	3.28	0.500	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	5.37	0.500	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	23.1	1.50	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTEX	31.8	3.00	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	04/24/2017	ND	448	112	400	3.51	

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	813	10.0	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	6140	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 165 % 28.3-164

Surrogate: 1-Chlorooctadecane 153 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2017
Reported: 04/28/2017
Project Name: CEDAR CANYON
Project Number: 22 # 001
Project Location: NOT GIVEN

Sampling Date: 04/17/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP3 @ 2' (H701078-10)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	0.519	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	5.25	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTEX	5.77	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 161 % 72-148

Chloride, SM4500CI-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/24/2017	ND	448	112	400	3.51	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	126	10.0	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	1760	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 94.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 104 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2017
Reported: 04/28/2017
Project Name: CEDAR CANYON
Project Number: 22 # 001
Project Location: NOT GIVEN

Sampling Date: 04/17/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP3 @ 3' (H701078-11)

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	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	<0.050	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTEX	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/24/2017	ND	448	112	400	3.51		

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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	10.4	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 99.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 94.5 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2017
Reported: 04/28/2017
Project Name: CEDAR CANYON
Project Number: 22 # 001
Project Location: NOT GIVEN

Sampling Date: 04/17/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP3 @ 8' (H701078-12)

BTX 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	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	<0.050	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTX	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/24/2017	ND	448	112	400	3.51	

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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 91.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 83.8 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2017
Reported: 04/28/2017
Project Name: CEDAR CANYON
Project Number: 22 # 001
Project Location: NOT GIVEN

Sampling Date: 04/17/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SOUTH (H701078-13)

BTX 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	04/26/2017	ND	2.06	103	2.00	4.14		
Toluene*	<0.050	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49		
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84		
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93		
Total BTX	<0.300	0.300	04/26/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/24/2017	ND	448	112	400	3.51	

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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 92.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 85.6 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2017
Reported: 04/28/2017
Project Name: CEDAR CANYON
Project Number: 22 # 001
Project Location: NOT GIVEN

Sampling Date: 04/17/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: NORTH (H701078-14)

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	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	0.066	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTEx	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/24/2017	ND	448	112	400	3.51		

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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 90.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 85.9 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2017
Reported: 04/28/2017
Project Name: CEDAR CANYON
Project Number: 22 # 001
Project Location: NOT GIVEN

Sampling Date: 04/17/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: EAST (H701078-15)

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	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	0.073	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTEx	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/24/2017	ND	448	112	400	3.51	

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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 94.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 88.3 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/21/2017
Reported: 04/28/2017
Project Name: CEDAR CANYON
Project Number: 22 # 001
Project Location: NOT GIVEN

Sampling Date: 04/17/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: WEST (H701078-16)

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	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	0.082	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTEX	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/24/2017	ND	448	112	400	3.51		

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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 83.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 83.8 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

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

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager



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

282

Page 20 of 20

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

From: Bratcher, Mike, EMNRD
To: [Cliff Brunson](#); [Shelly Tucker](#)
Cc: [Wade Dittrich](#); Jennifer_Smith@oxy.com; [Weaver, Crystal, EMNRD](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)
Subject: RE: OXY Cedar Canyon 22 #1H (2RP-4173) - Delineation Workplan
Date: Thursday, September 21, 2017 7:04:14 AM

RE: OXY USA * Cedar Canyon 22 1H * 2RP-4173 * DOR: 4/9/17

Cliff,

Your proposal for remediation of the above referenced release is approved. Federal sites will require like approval from BLM. Please advise once remedial activities have been scheduled.

Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210
575-748-1283 Ext 108

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, local laws and/or regulations.

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Wednesday, September 13, 2017 2:37 PM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Shelly Tucker <stucker@blm.gov>
Cc: Wade Dittrich <Wade_Dittrich@oxy.com>; Jennifer_Smith@oxy.com; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>
Subject: OXY Cedar Canyon 22 #1H (2RP-4173) - Delineation Workplan

Mike and Shelly,

Please find the attached Delineation Workplan and remediation proposal for the OXY Cedar Canyon 22 #1H (2RP-4173). OXY is requesting that you review this plan and is looking forward to both the OCD's and BLM's approval. Mike, this plan is one we discussed recently.

If you have any questions, please let me 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: cbrunson@bbcinternational.com



Confidentiality Notice: This electronic transmission (and any attached documents) is intended only for the person(s) to whom it is addressed and may contain information that is privileged, confidential, or otherwise protected from disclosure. If you have received this transmission in error, please immediately notify the sender by e-mail or by telephone call to (575) 397-6388 for handling instructions. Any disclosure or distribution of the contents of this transmission by anyone other than the named recipient(s) is strictly prohibited.

From: Tucker, Shelly
To: [Bratcher, Mike, EMNRD](#)
Cc: [Cliff Brunson](#); [Wade Dittrich](#); [Jennifer.Smith@oxy.com](#); [Weaver, Crystal, EMNRD](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)
Subject: Re: OXY Cedar Canyon 22 #1H (2RP-4173) - Delineation Workplan
Date: Tuesday, October 3, 2017 4:17:35 PM

BLM concurs with NMOCD approval.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
O&G Spill/Release Coordinator

Bureau of Land Management
620 E. Greene St
Carlsbad, NM 88220

575.234.5905 - Direct
575.361.0084 - Cellular
575.234.6235 - Emergency Spill Number

stucker@blm.gov

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

Confidentiality Warning: This message along with any attachments are intended only for use of the individual or entity to which it is addressed and may contain information that is privileged or confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

On Thu, Sep 21, 2017 at 7:04 AM, Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> wrote:

RE: OXY USA * Cedar Canyon 22 1H * 2RP-4173 * DOR: 4/9/17

Cliff,

Your proposal for remediation of the above referenced release is approved. Federal sites will require like approval from BLM. Please advise once remedial activities have been scheduled.

Mike Bratcher

NMOCD District 2

[811 South First Street](#)

[Artesia, NM 88210](#)

[575](#)-748-1283 Ext 108

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, local laws and/or regulations.

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

Sent: Wednesday, September 13, 2017 2:37 PM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Shelly Tucker <stucker@blm.gov>

Cc: Wade Dittrich <Wade_Dittrich@oxy.com>; Jennifer_Smith@oxy.com; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>

Subject: OXY Cedar Canyon 22 #1H (2RP-4173) - Delineation Workplan

Mike and Shelly,

Please find the attached Delineation Workplan and remediation proposal for the OXY Cedar Canyon 22 #1H (2RP-4173). OXY is requesting that you review this plan and is looking forward to both the OCD's and BLM's approval. Mike, this plan is one we discussed recently.

If you have any questions, please let me 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: cbrunson@bbcinternational.com



Confidentiality Notice: This electronic transmission (and any attached documents) is intended only for the person(s) to whom it is addressed and may contain information that is privileged, confidential, or otherwise protected from disclosure. If you have received this transmission in error, please immediately notify the sender by e-mail or by telephone call to (575) 397-6388 for handling instructions. Any disclosure or distribution of the contents of this transmission by anyone other than the named recipient(s) is strictly prohibited.

















