



DELINEATION WORKPLAN

OXY – CEDAR CANYON 16 STATE #34H (Leak Date: 6/26/17)

**RP # 2RP-4383
API # 30-015-43843**

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-4383.

The following information includes:

1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
2. GPS information for sample points and sample methodology
3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
4. Laboratory analysis results summary table and original laboratory analysis reports
5. A copy of the initial C-141
6. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

OXY will excavate the spill area as depicted on the following site diagram. The entire leak area (shaded in pink) will be excavated to a depth of 1 to 1.5 feet or as practicable.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.

Oxy, Cedar Canyon 16 State #34H

Leak date: 06/26/2017
Eddy County, NM
AP# 30-015-43843
2RP-4383

Legend

- ★ Cardinal sample points, hand auger
- ⬢ Leak Area
- ⬢ Leak Area, 1'-1.5' Excavation or as practicable
- Sample points, hand auger



Oxy, Cedar Canyon 16 State #34H

Sample points, hand auger

SP1, N 32.22357 W-103.98453

SP2, N 32.22362 W-103.98438

SP3, N 32.22365 W-103.98451

NORTH, N 32.22372 W-103.98454

SOUTH, N 32.22351 W-103.98452

EAST, N 32.22364 W-103.98429

WEST, N 32.22361 W-103.98461

Oxy, Cedar Canyon 16 State #34H

U/L B, Section 16, T24S, R29E

Groundwater: 75'-100'





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_00863			ED	3	3	1	16	24S	29E	594524	3565091*	<input type="text"/>	1037	220	
C_00863 CLW199506	O		ED	3	3	1	16	24S	29E	594524	3565091*	<input type="text"/>	1037	220	

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 595425

Northing (Y): 3565606

Radius: 1700

*UTM location was derived from PLSS - see Help

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.

7/11/17 3:30 PM

WATER COLUMN/ AVERAGE DEPTH TO
WATER

Laboratory Analytical Results Summary
Cedar Canyon 16 State #34H

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 7'
Analyte	Method	Date	7/21/17	7/21/17	7/21/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		864	128	96
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 7'
Analyte	Method	Date	7/21/17	7/21/17	7/21/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		912	304	288
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 7'
Analyte	Method	Date	7/21/17	7/21/17	7/21/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		944	400	352
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	NORTH @ SURFACE
Analyte	Method	Date	7/21/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		0.056
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		160
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SOUTH @ SURFACE
Analyte	Method	Date	7/21/17
			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		96
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	EAST @ SURFACE
Analyte	Method	Date	7/21/17
			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		160
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	WEST @ SURFACE
Analyte	Method	Date	7/21/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		0.059
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		96
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

August 01, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 16 STATE #34H

Enclosed are the results of analyses for samples received by the laboratory on 07/26/17 16:40.

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,



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:	07/26/2017	Sampling Date:	07/21/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #34H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP1 @ 1' (H701960-01)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2017	ND	2.06	103	2.00	0.728	
Toluene*	<0.050	0.050	07/31/2017	ND	1.90	95.2	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	1.99	99.6	2.00	0.790	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.01	100	6.00	1.04	
Total BTEx	<0.300	0.300	07/31/2017	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	864	16.0	07/27/2017	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2017	ND	186	92.9	200	1.83	
DRO >C10-C28	<10.0	10.0	07/27/2017	ND	200	100	200	3.97	

Surrogate: 1-Chlorooctane 90.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 90.2 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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Received:	07/26/2017	Sampling Date:	07/21/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #34H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP1 @ 2' (H701960-02)

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	07/31/2017	ND	2.06	103	2.00	0.728	
Toluene*	<0.050	0.050	07/31/2017	ND	1.90	95.2	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	1.99	99.6	2.00	0.790	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.01	100	6.00	1.04	
Total BTX	<0.300	0.300	07/31/2017	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	128	16.0	07/27/2017	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2017	ND	186	92.9	200	1.83	
DRO >C10-C28	<10.0	10.0	07/27/2017	ND	200	100	200	3.97	

Surrogate: 1-Chlorooctane 89.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.6 % 34.7-157

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Received:	07/26/2017	Sampling Date:	07/21/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #34H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP1 @ 7' (H701960-03)

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	07/31/2017	ND	2.06	103	2.00	0.728	
Toluene*	<0.050	0.050	07/31/2017	ND	1.90	95.2	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	1.99	99.6	2.00	0.790	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.01	100	6.00	1.04	
Total BTX	<0.300	0.300	07/31/2017	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	96.0	16.0	07/27/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2017	ND	186	92.9	200	1.83	
DRO >C10-C28	<10.0	10.0	07/27/2017	ND	200	100	200	3.97	

Surrogate: 1-Chlorooctane 89.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.5 % 34.7-157

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Received:	07/26/2017	Sampling Date:	07/21/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #34H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP2 @ 1' (H701960-04)

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	07/31/2017	ND	2.06	103	2.00	0.728	
Toluene*	<0.050	0.050	07/31/2017	ND	1.90	95.2	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	1.99	99.6	2.00	0.790	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.01	100	6.00	1.04	
Total BTX	<0.300	0.300	07/31/2017	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	912	16.0	07/27/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2017	ND	186	92.9	200	1.83	
DRO >C10-C28	<10.0	10.0	07/27/2017	ND	200	100	200	3.97	

Surrogate: 1-Chlorooctane 88.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.3 % 34.7-157

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Received:	07/26/2017	Sampling Date:	07/21/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #34H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP2 @ 2' (H701960-05)

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	07/31/2017	ND	2.06	103	2.00	0.728	
Toluene*	<0.050	0.050	07/31/2017	ND	1.90	95.2	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	1.99	99.6	2.00	0.790	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.01	100	6.00	1.04	
Total BTX	<0.300	0.300	07/31/2017	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	304	16.0	07/27/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2017	ND	186	92.9	200	1.83	
DRO >C10-C28	<10.0	10.0	07/27/2017	ND	200	100	200	3.97	

Surrogate: 1-Chlorooctane 90.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 93.1 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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Fax To: (575) 397-0397

Received:	07/26/2017	Sampling Date:	07/21/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #34H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP2 @ 7' (H701960-06)

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	07/31/2017	ND	2.06	103	2.00	0.728	
Toluene*	<0.050	0.050	07/31/2017	ND	1.90	95.2	2.00	2.14	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	1.99	99.6	2.00	0.790	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.01	100	6.00	1.04	
Total BTX	<0.300	0.300	07/31/2017	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	288	16.0	07/27/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2017	ND	186	92.9	200	1.83	
DRO >C10-C28	<10.0	10.0	07/27/2017	ND	200	100	200	3.97	

Surrogate: 1-Chlorooctane 83.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.2 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/26/2017	Sampling Date:	07/21/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #34H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP3 @ 1' (H701960-07)

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	07/31/2017	ND	2.06	103	2.00	0.728		
Toluene*	<0.050	0.050	07/31/2017	ND	1.90	95.2	2.00	2.14		
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	1.99	99.6	2.00	0.790		
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.01	100	6.00	1.04		
Total BTX	<0.300	0.300	07/31/2017	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	944	16.0	07/27/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2017	ND	186	92.9	200	1.83	
DRO >C10-C28	<10.0	10.0	07/27/2017	ND	200	100	200	3.97	

Surrogate: 1-Chlorooctane 84.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.2 % 34.7-157

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Analytical Results For:

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

Received:	07/26/2017	Sampling Date:	07/21/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #34H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP3 @ 2' (H701960-08)

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	07/29/2017	ND	1.91	95.3	2.00	1.01		
Toluene*	<0.050	0.050	07/29/2017	ND	1.79	89.6	2.00	0.801		
Ethylbenzene*	<0.050	0.050	07/29/2017	ND	1.84	92.1	2.00	0.169		
Total Xylenes*	<0.150	0.150	07/29/2017	ND	5.59	93.1	6.00	1.29		
Total BTX	<0.300	0.300	07/29/2017	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	400	16.0	07/27/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2017	ND	186	92.9	200	1.83	
DRO >C10-C28	<10.0	10.0	07/27/2017	ND	200	100	200	3.97	

Surrogate: 1-Chlorooctane 83.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 85.7 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/26/2017	Sampling Date:	07/21/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #34H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP3 @ 7' (H701960-09)

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	07/29/2017	ND	1.91	95.3	2.00	1.01		
Toluene*	<0.050	0.050	07/29/2017	ND	1.79	89.6	2.00	0.801		
Ethylbenzene*	<0.050	0.050	07/29/2017	ND	1.84	92.1	2.00	0.169		
Total Xylenes*	<0.150	0.150	07/29/2017	ND	5.59	93.1	6.00	1.29		
Total BTX	<0.300	0.300	07/29/2017	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	352	16.0	07/27/2017	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2017	ND	186	92.9	200	1.83	
DRO >C10-C28	<10.0	10.0	07/27/2017	ND	200	100	200	3.97	

Surrogate: 1-Chlorooctane 81.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 83.8 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/26/2017	Sampling Date:	07/21/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #34H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: NORTH @ SURFACE (H701960-10)

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	07/29/2017	ND	1.91	95.3	2.00	1.01		
Toluene*	0.056	0.050	07/29/2017	ND	1.79	89.6	2.00	0.801		
Ethylbenzene*	<0.050	0.050	07/29/2017	ND	1.84	92.1	2.00	0.169		
Total Xylenes*	<0.150	0.150	07/29/2017	ND	5.59	93.1	6.00	1.29		
Total BTEx	<0.300	0.300	07/29/2017	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	160	16.0	07/27/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2017	ND	186	92.9	200	1.83	
DRO >C10-C28	<10.0	10.0	07/27/2017	ND	200	100	200	3.97	

Surrogate: 1-Chlorooctane 86.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.3 % 34.7-157

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Analytical Results For:

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

Received:	07/26/2017	Sampling Date:	07/21/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #34H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SOUTH @ SURFACE (H701960-11)

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	07/29/2017	ND	1.91	95.3	2.00	1.01	
Toluene*	<0.050	0.050	07/29/2017	ND	1.79	89.6	2.00	0.801	
Ethylbenzene*	<0.050	0.050	07/29/2017	ND	1.84	92.1	2.00	0.169	
Total Xylenes*	<0.150	0.150	07/29/2017	ND	5.59	93.1	6.00	1.29	
Total BTEx	<0.300	0.300	07/29/2017	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	96.0	16.0	07/27/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2017	ND	186	92.9	200	1.83	
DRO >C10-C28	<10.0	10.0	07/27/2017	ND	200	100	200	3.97	

Surrogate: 1-Chlorooctane 82.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 84.8 % 34.7-157

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Analytical Results For:

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

Received:	07/26/2017	Sampling Date:	07/21/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #34H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: EAST @ SURFACE (H701960-12)

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	07/29/2017	ND	1.91	95.3	2.00	1.01	
Toluene*	<0.050	0.050	07/29/2017	ND	1.79	89.6	2.00	0.801	
Ethylbenzene*	<0.050	0.050	07/29/2017	ND	1.84	92.1	2.00	0.169	
Total Xylenes*	<0.150	0.150	07/29/2017	ND	5.59	93.1	6.00	1.29	
Total BTEx	<0.300	0.300	07/29/2017	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	160	16.0	07/27/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2017	ND	186	92.9	200	1.83	
DRO >C10-C28	<10.0	10.0	07/27/2017	ND	200	100	200	3.97	

Surrogate: 1-Chlorooctane 86.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 88.3 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/26/2017	Sampling Date:	07/21/2017
Reported:	08/01/2017	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #34H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: WEST @ SURFACE (H701960-13)

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	07/29/2017	ND	1.91	95.3	2.00	1.01		
Toluene*	0.059	0.050	07/29/2017	ND	1.79	89.6	2.00	0.801		
Ethylbenzene*	<0.050	0.050	07/29/2017	ND	1.84	92.1	2.00	0.169		
Total Xylenes*	<0.150	0.150	07/29/2017	ND	5.59	93.1	6.00	1.29		
Total BTEx	<0.300	0.300	07/29/2017	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	96.0	16.0	07/27/2017	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2017	ND	186	92.9	200	1.83	
DRO >C10-C28	<10.0	10.0	07/27/2017	ND	200	100	200	3.97	

Surrogate: 1-Chlorooctane 89.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.3 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: Cedar Canyon 16 State #34H

Project Location: Eddy County, NM

Sample Name: Price Brunson

FOR LAB USE ONLY

P.O. #:

Company: Oxy

Attn: Underhill

Address:

City:

State: Zip:

Phone #:

Fax #:

Lab I.D.

Sample I.D.

HT01940

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :												
1	SP1 @ 1'		1							7/21/17	11:15 AM	BTEX									
2	SP1 @ 2'		1							7/21/17	11:45 AM	CI									
3	SP1 @ 7'		1							7/21/17	12:30 PM	TPH									
4	SP2 @ 1'		1							7/21/17	1:30 PM										
5	SP2 @ 2'		1							7/21/17	1:45 PM										
6	SP2 @ 7'		1							7/21/17	2:00 PM										
7	SP3 @ 1'		1							7/21/17	2:30 PM										
8	SP3 @ 2'		1							7/21/17	2:45 PM										
9	SP3 @ 7'		1							7/21/17	3:00 PM										
10	NORTH @ SURFACE		1							7/21/17	3:05 PM										

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Relinquished By:

Date:

Time:

Received By:

Date:

Time:

REMARKS:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

REMARKS:

Delivered By: (Circle One)

3.02

3.252

Sample Condition

Checked By:

(Initials)

REMARKS:

Sampler - UPS - Bus - Other:

Cardinal

3.252

Yes

No

REMARKS:

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



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: Cedar Canyon 16 State #34H

Project Location: Eddy County, NM

Sample Name: Price Brunson

BILL TO

ANALYSIS REQUEST

P.O. #:

Company:

Attn: Wade Hinch

Address:

City:

State:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

11 SOUTH @ SURFACE
12 EAST @ SURFACE
13 WEST @ SURFACE

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

DATE

TIME

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TIME

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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

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	OXY USA INC	Contact	WADE DITTRICH
Address	PO BOX 4294; HOUSTON, TX 77210	Telephone No.	575-513-8289
Facility Name	CEDAR CANYON 16 STATE #34H	Facility Type	WELL
Surface Owner	STATE	Mineral Owner	STATE
		API No.	30-015-43843

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	16	24S	29E	402	NORTH	1083	EAST	EDDY

Latitude_N 32.22377364_ Longitude_W -103.9844248 _ NAD83

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	5 bbls oil, 5 bbls produced water	Volume Recovered	2 bbls
Source of Release	4" fiberglass production line	Date and Hour of Occurrence	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? CRYSTAL WEAVER-NMOCD; MIKE BRATCHER-NMOCD; AMBER GROVES-SLO			
By Whom?	WADE DITTRICH	Date and Hour 06/27/2017 @ 11:00 AM			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

This spill was caused by a 4" fiberglass production line failure, allowing 5 bbls of oil and 5 bbls of produced water to leak. A vacuum truck recovered 2 bbls of fluids and the line was repaired.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 20x40 area, 60ft east of battery. Measurements will be given when the GPS track is completed. Remediation will be completed in accordance with a remediation plan approved by the NMOCD and SLO.

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: WADE DITTRICH		Approved by Environmental Specialist:	
Title: ENVIRONMENTAL COORDINATOR		Approval Date:	Expiration Date:
E-mail Address: wade_dittrich@oxy.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 6-30-17 Phone: 575-390-2828			

* Attach Additional Sheets If Necessary