

PHONE (575) 397-6388 • FAX (575) 397-0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805 E-MAIL: cbrunson@bbcinternational.com

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

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

closed)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

<i>'</i>								•			· ·	` /	
		POD											
		Sub-	Q	Q	Q							W	Vater
POD Number	Code	basin County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDepth'	WellDepthWater Co	lumn
<u>C 00863</u>		ED	3	3	1	16	24S	29E	594524	3565091*	1037	220	
C 00863 CLW199506	O	ED	3	3	1	16	24S	29E	594524	3565091*	1037	220	
										Averag	ge Depth to Water:		
											Minimum Depth:	:	
											Maximum Depth:		

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 595425 **Northing (Y):** 3565606 **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.

7/11/17 3:30 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

^{*}UTM location was derived from PLSS - see Help

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	SM4500CI-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	SM4500CI-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	SM4500CI-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	1	< 0.050
Toluene	BTEX 8021B	1	0.056
Ethylbenzene	BTEX 8021B		< 0.050
Total Xylenes	BTEX 8021B	1	<0.150
Total BTEX	BTEX 8021B	1	< 0.300
Chloride	SM4500CI-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	SM4500CI-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	SM4500CI-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	SM4500CI-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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celeg D. Keens

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



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	Analyze	d 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 9	% 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	90.2	% 34.7-15	7						

Cardinal Laboratories *=Accredited Analyte

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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 @ 2' (H701960-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.6	% 34.7-15	7						

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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: SP1 @ 7' (H701960-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	103 9	% 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	96.0	16.0	07/27/2017	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.5	% 34.7-15	7						

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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: SP2 @ 1' (H701960-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.3	% 34.7-15	7						

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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 Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: EDDY COUNTY, NM

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	93.1	% 347-15	7						

Surrogate: 1-Chlorooctadecane 93.1 % 34.7-157

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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)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	86.2	% 34.7-15	7						

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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: SP3 @ 1' (H701960-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	103 9	72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	86.2	% 34.7-15	7						

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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)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	85.7	% 347-15	7						

Surrogate: 1-Chlorooctadecane 85.7 % 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: SP3 @ 7' (H701960-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	101 9	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	83.8	% 34.7-15	7						

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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: NORTH @ SURFACE (H701960-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 %	6 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	28.3-16	4						

 Surrogate: 1-Chlorooctadecane
 86.3 %
 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 Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: EDDY COUNTY, NM

Sample ID: SOUTH @ SURFACE (H701960-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 %	6 72-148	}						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	28.3-16	4						
Surrogate: 1-Chlorooctadecane	84 8 9	% 34 7-15	7						

Surrogate: 1-Chlorooctadecane 84.8 % 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: EAST @ SURFACE (H701960-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	88.3	% 34.7-15	7						

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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: WEST @ SURFACE (H701960-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.3	% 34.7-15	7						

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Address: P.O.	P.O. Box 805								C	Company:	pan	×.	-	CXU	+	_	_													_					
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007	SP3 @ 2'	0	-			c	-	-	-	-	-	2			2:45 PM	. <	. <			+	+		+		+			+		-					
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Analysis BED International Inc.		(303) 333-2320 FMA (303) 333-2410							
Sample I.D. State: NM Zip: 88241 Ann: UACA A	Company Name			BILL TO			ANALYSIS		
Selection: NM Zip: 88241 Attn: MACRIME State: NM Zip: 88241 Attn: MACRIME State: Zip: Cedar Canyon 16 State #34H State: Zip: Price Brunson E. Price Brunson Sample I.D. Received By: Sample Condition that and a sample in the sample in the sample and a sample in the	Project Manage			P.O. #:			_		
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TPH No No	Project Name:	Cedar Canyon 16 State #34H							
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Tyes O No	Lab I.D.	Sample I.D.	OWATER VATER	SE:	< <u> </u>	PH.			
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H: Yes No	PLEASE NOTE: Liability a	and Damages. Cardinal's liability and client's exclusive remedy for an	y claim arising whether based in contra	ct or tort, shall be limited to the amount pa not received by Cardinal within 30 days, aft	id by the client for the appli	cable			
Circle One) Society Sample Condition CheckED BY: Cool Intact	service. In no event shall (affiliates or successors aris	ang stope for registerior and any units cause missioners are non-co- Cardinal be liable for incidental or consequental damages, including to sing out of or reliated to the performance of services hereunder by Ca	without limitation, business interruptions rdinal, regardless of whether such clain	, loss of use, or loss of profits incurred by n is based upon any of the above stated re	client, its subsidiaries, asons or otherwise.				
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District 1
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 Fr. NM 875

State of New Mexico Energy Minerals and Natural Resources

Form C-141
Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action OPERATOR OPERATOR Initial Report Final Report OPERATOR OPERATOR OPERATOR OPERATOR Initial Report Final Report Final Report Final Report OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR Initial Report Final Report Final Report Final Report OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR Initial Report Final Report Fina
Name of Company OXY USA INC 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 Oil and Produced water Source of Release 4" fiberglass production line Oate and Hour of Occurrence O6/26/2017 Of Courrence O6/26/2017 Of Courrence O6/26/2017 Of Courrence Of Cou
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Type of Release Oil and Produced water Source of Release 4" fiberglass production line Was Immediate Notice Given? Yes □ No □ Not Required By Whom? WADE DITTRICH Was a Watercourse Reached? Yes □ No □ Yes □ No □ Not Required Was Immediate Notice Given? If YES, Volume Impacting the Watercourse. NADB3 NATURE OF RELEASE Volume of Release 5 bbls oil, 5 bbls produced water Date and Hour of Occurrence 06/26/2017 Date and Hour of Occurrence Office of Part of P
Type of Release Oil and Produced water Source of Release 4" fiberglass production line Was Immediate Notice Given? Yes No Not Required No
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Source of Release 4" fiberglass production line Date and Hour of Occurrence 06/26/2017 Was Immediate Notice Given? Yes No Not Required By Whom? WADE DITTRICH Was a Watercourse Reached? Yes No Source of Release 4" fiberglass production line Date and Hour of Occurrence 06/26/2017 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 If YES, Volume Impacting the Watercourse.
Source of Release 4" fiberglass production line Date and Hour of Occurrence 06/26/2017 Was Immediate Notice Given? Was Immediate Notice Given? Yes No Not Required Required GROVES-SLO By Whom? WADE DITTRICH Date and Hour of Occurrence Date and Hour of Discovery CRYSTAL WEAVER-NMOCD; MIKE BRATCHER-NMOCD; AMBER GROVES-SLO Date and Hour 06/27/2017 @ 11:00 AM If YES, Volume Impacting the Watercourse.
By Whom? WADE DITTRICH Was a Watercourse Reached? Yes No Not Required CRYSTAL WEAVER-NMOCD; MIKE BRATCHER-NMOCD; AMBER GROVES-SLO Date and Hour 06/27/2017 @ 11:00 AM If YES, Volume Impacting the Watercourse.
By Whom? WADE DITTRICH Date and Hour 06/27/2017 @ 11:00 AM Was a Watercourse Reached? If YES, Volume Impacting the Watercourse.
☐ Yes ⊠ No
If a Watercourse was Impacted, Describe Fully.*
Describe Cause of Problem and Remedial Action Taken.*
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.*
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.
OIL CONSERVATION DIVISION
Signature: Approved by Environmental Specialists
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:

Date: 6-30-/7 Phone: 575-390-2828
* Attach Additional Sheets If Necessary