

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 - McKITTRICK HILLS CTB (Leak Date: 4/18/17)

RP # 2RP-4178 API # 30-015-21010

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-4178.

The following information includes:

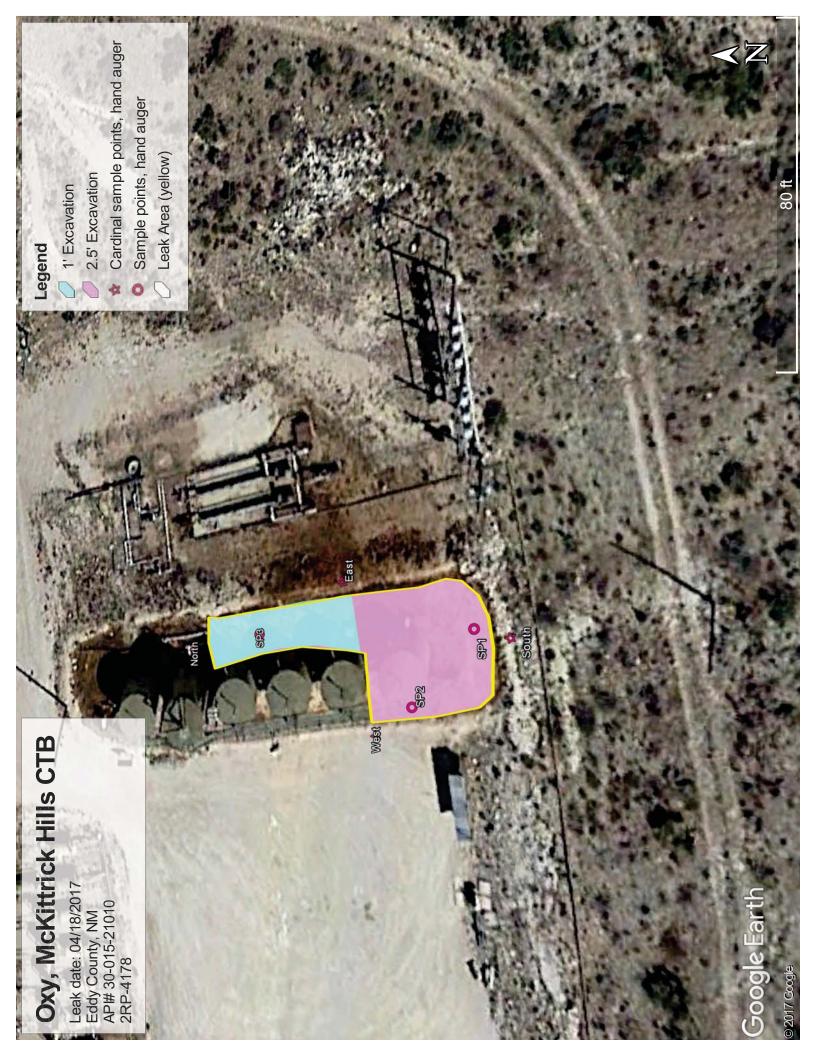
- 1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
- 2. GPS information for sample points and sample methodology
- 3. Depth to groundwater information (i.e., pdf of OSE search results and/or 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 leak area near SP1 and SP2 will be excavated to a depth of 2.5 feet. The leak area near SP3 will be excavated to a depth of 1 foot.

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, McKittrick Hills CTB

Sample points, hand auger

SP1, N 32.39731 W-104.46090

SP2, N 32.39736 W-104.46097

SP3, N 32.39751 W-104.46091

NORTH, N 32.39758 W-104.46093

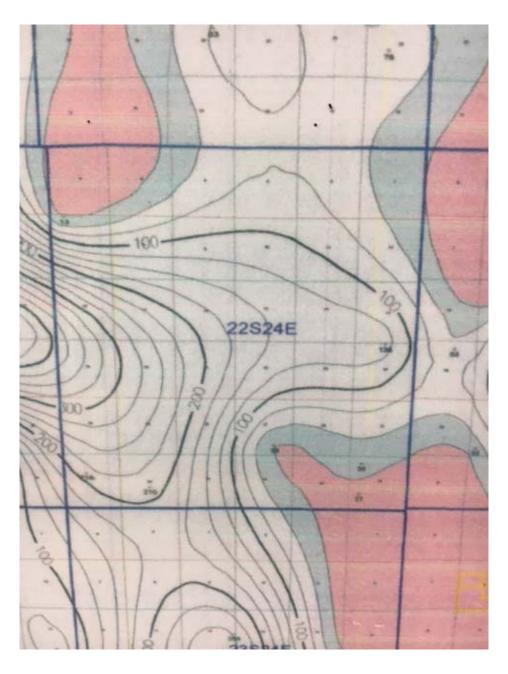
SOUTH, N 32.39728 W-104.46090

EAST, N 32.39743 W-104.46086

WEST, N 32.39739 W-104.46100

# Oxy, McKittrick Hills CTB U/L H, Section 14, T22S, R24E

**Groundwater: 125'** 





## 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,

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

C=the file is closed)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD													
		Sub-		Q	Q	Q								,	Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDep	thWellDep	thWater C	Column
<u>C 01403</u>		С	ED	3	2	1	24	22S	24E	551238	3582798*	1483	238	213	25

Average Depth to Water:

213 feet

Minimum Depth:

213 feet

Maximum Depth:

213 feet

### Record Count: 1

**UTMNAD83 Radius Search (in meters):** 

**Easting (X):** 550529 **Northing (Y):** 3584101 **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.

4/27/17 9:57 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

	0	Q64:	<b>P</b> ( Q16: SE	ublic Land Su	urvey System (PLSS) Sec: 14 Tws: 22S Rng: 24E
	0	X: 0 ft			dinate System - NAD27  Zone:
	0	X: 0 ft		e Plane Coord	dinate System - NAD83  Zone:
	0	Longitude (X): Latitude (Y):		grees: 0 °	Minutes/Seconds  Minutes: 0 ' Seconds: 0 "  Minutes: 0 ' Seconds: 0 "
	0	Easting (X): 0	mtrs Nor		M - NAD27  mtrs Zone:
ı.				C	SUBMIT
		All	Conversion R	Results are di	isplayed as <u>NAD 1983 UTM Zone 13</u>
		Easting (X):	550529.0	mtrs	Northing (Y): 3584101.0 mtrs
			~~ Please kee	p screen open	to copy UTM values for Reports. ~~

### Laboratory Analytical Results Summary McKittrick Hills CTB

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 2.5'
Analyte	Method	Date	5/2/17	5/2/17	5/2/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		1.08	<0.200	<0.050
Toluene	BTEX 8021B		26.4	5.53	<0.050
Ethylbenzene	BTEX 8021B		18.4	<0.200	<0.050
<b>Total Xylenes</b>	BTEX 8021B		158	40.8	0.459
Total BTEX	BTEX 8021B		204	46.3	0.459
Chloride	SM4500CI-B		32	32	160
GRO	TPH 8015M		7040	1560	<10.0
DRO	TPH 8015M		32000	10900	517

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 2.5'
Analyte	Method	Date	5/2/17	5/2/17	5/2/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<1.00	<0.200	<0.050
Toluene	BTEX 8021B		25.8	3.74	0.082
Ethylbenzene	BTEX 8021B		17.8	<0.200	<0.050
<b>Total Xylenes</b>	BTEX 8021B		155	30.4	1.34
Total BTEX	BTEX 8021B		199	34.1	1.42
Chloride	SM4500CI-B		32	48	128
GRO	TPH 8015M		6430	991	21.4
DRO	TPH 8015M		30800	7760	463

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 2.5'
Analyte	Method	Date	5/2/17	5/2/17	5/2/17
			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	0.068
Total Xylenes	BTEX 8021B		0.208	<0.150	0.854
Total BTEX	BTEX 8021B		< 0.300	<0.300	0.921
Chloride	SM4500CI-B		224	144	192
GRO	TPH 8015M		<10.0	<10.0	29.7
DRO	TPH 8015M		801	211	577

		Sample	NORTH @ SURFACE
Analyte	Method	Date	5/2/17
			mg/Kg
Benzene	BTEX 8021B		< 0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		< 0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	EAST @ SURFACE
Analyte	Method	Date	5/2/17
			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		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	WEST @ SURFACE
Analyte	Method	Date	5/2/17
			mg/Kg
Benzene	BTEX 8021B		< 0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		< 0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SOUTH @ SURFACE
Analyte	Method	Date	5/2/17
			mg/Kg
Benzene	BTEX 8021B		< 0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B	·	16
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0



May 12, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MCKITTRICK HILLS CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/04/17 16:53.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keene

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

Tamara Oldaker

Sample Received By:



### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

 Received:
 05/04/2017
 Sampling Date:
 05/02/2017

 Reported:
 05/12/2017
 Sampling Type:
 Soil

Project Name: MCKITTRICK HILLS CTB Sampling Condition: Cool & Intact

Project Location: EDDY COUNTY, NM

NONE GIVEN

### Sample ID: 1 @ 1 (H701209-01)

Project Number:

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.08	1.00	05/09/2017	ND	2.12	106	2.00	1.77	
Toluene*	26.4	1.00	05/09/2017	ND	1.95	97.4	2.00	1.70	
Ethylbenzene*	18.4	1.00	05/09/2017	ND	1.91	95.6	2.00	1.62	
Total Xylenes*	158	3.00	05/09/2017	ND	5.39	89.8	6.00	1.89	
Total BTEX	204	6.00	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 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	32.0	16.0	05/09/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	7040	50.0	05/09/2017	ND	198	98.8	200	1.70	
DRO >C10-C28	32000	50.0	05/09/2017	ND	193	96.4	200	5.15	
Surrogate: 1-Chlorooctane	304 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	766	% 34.7-15	7						

### Cardinal Laboratories \*=Accredited Analyte

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/04/2017 Sampling Date: 05/02/2017

Reported: 05/12/2017 Sampling Type: Soil

Project Name: MCKITTRICK HILLS CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

### Sample ID: 1 @ 2 (H701209-02)

mg/kg		Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.200	0.200	05/09/2017	ND	2.12	106	2.00	1.77	
5.53	0.200	05/09/2017	ND	1.95	97.4	2.00	1.70	
<0.200	0.200	05/09/2017	ND	1.91	95.6	2.00	1.62	
40.8	0.600	05/09/2017	ND	5.39	89.8	6.00	1.89	
46.3	1.20	05/09/2017	ND					
156 9	% 72-148	}						
mg/	kg	Analyzed By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
32.0	16.0	05/09/2017	ND	448	112	400	3.64	
mg/	kg	Analyze	d By: MS					S-06
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1560	100	05/10/2017	ND	198	98.8	200	1.70	
10900	100	05/10/2017	ND	193	96.4	200	5.15	
148 9	28.3-16	4						
_	Result <0.200 5.53 <0.200 40.8 46.3  1569 mg/ Result 32.0 mg/ Result 1560 10900	Result Reporting Limit <0.200 0.200  5.53 0.200 <0.200 0.200  40.8 0.600  46.3 1.20  156 % 72-148  mg/kg  Result Reporting Limit  32.0 16.0  mg/kg  Result Reporting Limit  1560 100  10900 100	Result         Reporting Limit         Analyzed           <0.200	Result         Reporting Limit         Analyzed         Method Blank           <0.200	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.200	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.200	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.200	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.200

Surrogate: 1-Chlorooctadecane 262 % 34.7-157

Cardinal Laboratories \*=Accredited Analyte

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/04/2017 Sampling Date: 05/02/2017

Reported: 05/12/2017 Sampling Type: Soil

Project Name: MCKITTRICK HILLS CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: EDDY COUNTY, NM

### Sample ID: 1 @ 2.5 (H701209-03)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2017	ND	2.12	106	2.00	1.77	
Toluene*	<0.050	0.050	05/09/2017	ND	1.95	97.4	2.00	1.70	
Ethylbenzene*	<0.050	0.050	05/09/2017	ND	1.91	95.6	2.00	1.62	
Total Xylenes*	0.459	0.150	05/09/2017	ND	5.39	89.8	6.00	1.89	
Total BTEX	0.459	0.300	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 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	05/09/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/09/2017	ND	198	98.8	200	1.70	
DRO >C10-C28	517	10.0	05/09/2017	ND	193	96.4	200	5.15	
Surrogate: 1-Chlorooctane	76.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	80.5	% 347-15	7						

Surrogate: 1-Chlorooctadecane 80.5 % 34.7-157

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Fax To: (575) 397-0397

Received: 05/04/2017 Sampling Date: 05/02/2017

Reported: 05/12/2017 Sampling Type: Soil

Project Name: MCKITTRICK HILLS CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

### Sample ID: 2 @ 1 (H701209-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	05/09/2017	ND	2.12	106	2.00	1.77	
Toluene*	25.8	1.00	05/09/2017	ND	1.95	97.4	2.00	1.70	
Ethylbenzene*	17.8	1.00	05/09/2017	ND	1.91	95.6	2.00	1.62	
Total Xylenes*	155	3.00	05/09/2017	ND	5.39	89.8	6.00	1.89	
Total BTEX	199	6.00	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 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	32.0	16.0	05/09/2017	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	6430	50.0	05/09/2017	ND	198	98.8	200	1.70	
DRO >C10-C28	30800	50.0	05/09/2017	ND	193	96.4	200	5.15	
Surrogate: 1-Chlorooctane	279	% 28.3-16	4						

Surrogate: 1-Chlorooctadecane 731 % 34.7-157

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Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/04/2017 Sampling Date: 05/02/2017

Reported: 05/12/2017 Sampling Type: Soil

Project Name: MCKITTRICK HILLS CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

### Sample ID: 2 @ 2 (H701209-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	05/09/2017	ND	2.12	106	2.00	1.77	
Toluene*	3.74	0.200	05/09/2017	ND	1.95	97.4	2.00	1.70	
Ethylbenzene*	<0.200	0.200	05/09/2017	ND	1.91	95.6	2.00	1.62	
Total Xylenes*	30.4	0.600	05/09/2017	ND	5.39	89.8	6.00	1.89	
Total BTEX	34.1	1.20	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	147 5	% 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	48.0	16.0	05/09/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	991	10.0	05/09/2017	ND	198	98.8	200	1.70	
DRO >C10-C28	7760	10.0	05/09/2017	ND	193	96.4	200	5.15	
Surrogate: 1-Chlorooctane	150 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	179 9	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/04/2017 Sampling Date: 05/02/2017

Reported: 05/12/2017 Sampling Type: Soil

Project Name: MCKITTRICK HILLS CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

### Sample ID: 2 @ 2.5 (H701209-06)

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	05/09/2017	ND	2.12	106	2.00	1.77	
Toluene*	0.082	0.050	05/09/2017	ND	1.95	97.4	2.00	1.70	
Ethylbenzene*	<0.050	0.050	05/09/2017	ND	1.91	95.6	2.00	1.62	
Total Xylenes*	1.34	0.150	05/09/2017	ND	5.39	89.8	6.00	1.89	
Total BTEX	1.42	0.300	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	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	128	16.0	05/09/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	21.4	10.0	05/09/2017	ND	198	98.8	200	1.70	
DRO >C10-C28	463	10.0	05/09/2017	ND	193	96.4	200	5.15	
Surrogate: 1-Chlorooctane	69.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	75.0	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/04/2017 Sampling Date: 05/02/2017

Reported: 05/12/2017 Sampling Type: Soil

Project Name: MCKITTRICK HILLS CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

### Sample ID: 3 @ 1 (H701209-07)

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	05/09/2017	ND	2.12	106	2.00	1.77	
Toluene*	<0.050	0.050	05/09/2017	ND	1.95	97.4	2.00	1.70	
Ethylbenzene*	<0.050	0.050	05/09/2017	ND	1.91	95.6	2.00	1.62	
Total Xylenes*	0.208	0.150	05/09/2017	ND	5.39	89.8	6.00	1.89	
Total BTEX	<0.300	0.300	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 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	224	16.0	05/09/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/09/2017	ND	198	98.8	200	1.70	
DRO >C10-C28	801	10.0	05/09/2017	ND	193	96.4	200	5.15	
Surrogate: 1-Chlorooctane	75.4 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	90.69	% 34.7-15	7						

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Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/04/2017 Sampling Date: 05/02/2017

Reported: 05/12/2017 Sampling Type: Soil

Project Name: MCKITTRICK HILLS CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: EDDY COUNTY, NM

### Sample ID: 3 @ 2 (H701209-08)

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	05/09/2017	ND	2.12	106	2.00	1.77	
Toluene*	<0.050	0.050	05/09/2017	ND	1.95	97.4	2.00	1.70	
Ethylbenzene*	<0.050	0.050	05/09/2017	ND	1.91	95.6	2.00	1.62	
Total Xylenes*	<0.150	0.150	05/09/2017	ND	5.39	89.8	6.00	1.89	
Total BTEX	<0.300	0.300	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 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	144	16.0	05/09/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/09/2017	ND	198	98.8	200	1.70	
DRO >C10-C28	211	10.0	05/09/2017	ND	193	96.4	200	5.15	
Surrogate: 1-Chlorooctane	82.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	86.29	% 347-15	7						

Surrogate: 1-Chlorooctadecane 86.2 % 34.7-157

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/04/2017 Sampling Date: 05/02/2017

Reported: 05/12/2017 Sampling Type: Soil

Project Name: MCKITTRICK HILLS CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: EDDY COUNTY, NM

### Sample ID: 3 @ 2.5 (H701209-09)

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	05/09/2017	ND	2.12	106	2.00	1.77	
Toluene*	<0.050	0.050	05/09/2017	ND	1.95	97.4	2.00	1.70	
Ethylbenzene*	0.068	0.050	05/09/2017	ND	1.91	95.6	2.00	1.62	
Total Xylenes*	0.854	0.150	05/09/2017	ND	5.39	89.8	6.00	1.89	
Total BTEX	0.921	0.300	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 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	192	16.0	05/09/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	29.7	10.0	05/10/2017	ND	198	98.8	200	1.70	
DRO >C10-C28	577	10.0	05/10/2017	ND	193	96.4	200	5.15	
Surrogate: 1-Chlorooctane	91.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.6	% 347-15	7						

Surrogate: 1-Chlorooctadecane 91.6 % 34.7-157

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/04/2017 Sampling Date: 05/02/2017

Reported: 05/12/2017 Sampling Type: Soil

Project Name: MCKITTRICK HILLS CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

### Sample ID: NORTH @ SURFACE (H701209-10)

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	05/09/2017	ND	2.12	106	2.00	1.77	
Toluene*	<0.050	0.050	05/09/2017	ND	1.95	97.4	2.00	1.70	
Ethylbenzene*	<0.050	0.050	05/09/2017	ND	1.91	95.6	2.00	1.62	
Total Xylenes*	<0.150	0.150	05/09/2017	ND	5.39	89.8	6.00	1.89	
Total BTEX	<0.300	0.300	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 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	32.0	16.0	05/09/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/10/2017	ND	198	98.8	200	1.70	
DRO >C10-C28	<10.0	10.0	05/10/2017	ND	193	96.4	200	5.15	
Surrogate: 1-Chlorooctane	80.6	% 28.3-16	4						

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Celey D. Keene

Surrogate: 1-Chlorooctadecane

81.0 %

34.7-157



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/04/2017 Sampling Date: 05/02/2017

Reported: 05/12/2017 Sampling Type: Soil

Project Name: MCKITTRICK HILLS CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

### Sample ID: EAST @ SURFACE (H701209-11)

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	05/09/2017	ND	2.12	106	2.00	1.77	
Toluene*	< 0.050	0.050	05/09/2017	ND	1.95	97.4	2.00	1.70	
Ethylbenzene*	< 0.050	0.050	05/09/2017	ND	1.91	95.6	2.00	1.62	
Total Xylenes*	<0.150	0.150	05/09/2017	ND	5.39	89.8	6.00	1.89	
Total BTEX	<0.300	0.300	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 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	32.0	16.0	05/09/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/10/2017	ND	198	98.8	200	1.70	
DRO >C10-C28	<10.0	10.0	05/10/2017	ND	193	96.4	200	5.15	
Surrogate: 1-Chlorooctane	76.3 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	81.6	% 34.7-15	7						

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/04/2017 Sampling Date: 05/02/2017

Reported: 05/12/2017 Sampling Type: Soil

Project Name: MCKITTRICK HILLS CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

### Sample ID: WEST @ SURFACE (H701209-12)

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	05/09/2017	ND	2.12	106	2.00	1.77	
Toluene*	<0.050	0.050	05/09/2017	ND	1.95	97.4	2.00	1.70	
Ethylbenzene*	<0.050	0.050	05/09/2017	ND	1.91	95.6	2.00	1.62	
Total Xylenes*	< 0.150	0.150	05/09/2017	ND	5.39	89.8	6.00	1.89	
Total BTEX	<0.300	0.300	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4 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	<16.0	16.0	05/09/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/10/2017	ND	198	98.8	200	1.70	
DRO >C10-C28	<10.0	10.0	05/10/2017	ND	193	96.4	200	5.15	
Surrogate: 1-Chlorooctane	80.2 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	82.1 9	% 34.7-15	7						

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Tamara Oldaker



### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/04/2017 Sampling Date: 05/02/2017

Reported: 05/12/2017 Sampling Type: Soil
Project Name: MCKITTRICK HILLS CTB Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By:
Project Location: EDDY COUNTY, NM

### Sample ID: SOUTH @ SURFACE (H701209-13)

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	05/09/2017	ND	2.12	106	2.00	1.77	
Toluene*	<0.050	0.050	05/09/2017	ND	1.95	97.4	2.00	1.70	
Ethylbenzene*	<0.050	0.050	05/09/2017	ND	1.91	95.6	2.00	1.62	
Total Xylenes*	< 0.150	0.150	05/09/2017	ND	5.39	89.8	6.00	1.89	
Total BTEX	<0.300	0.300	05/09/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.9 %	% 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	16.0	16.0	05/09/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/08/2017	ND	175	87.7	200	2.62	
DRO >C10-C28	<10.0	10.0	05/08/2017	ND	181	90.6	200	4.90	
Surrogate: 1-Chlorooctane	75.8 %	28.3-16	4						
Surrogate: 1-Chlorooctadecane	76.0 9	% 34.7-15	7						

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### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

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

(505) 393-2326 FAX (505) 393-24/6	0		
Company Name: BBC International, Inc.		BILL TO	ANALYSIS REQUEST
oroject Manager: Cliff Brunson		P.O. #:	
Address: P.O. Box 805		Company:	
State: NM	Zip: 88241	Attn:	
Phone #: 575-397-6388 Fax #: 575-397-0397	-397-0397	Address:	
	: CX	City:	
ame: McKilloock HI		State: Zip:	
Project Location:		Phone #:	
Sampler Name: Jat Condus		Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE/COOL OTHER: DATE	TPH
1 (000)	- #	5/2/2	
2 3 2	0	527 937	///
3 102%	6	5217 1001	7/1/

Relinguished By: Relinquished By: analyses. All claims including those for negligence and any service. In no event shall Cardinal be liable for incidental or Delivered By: (Circle One) Date: 4 Time: J. Com Date: 5/2/17 Received By: Received By: Cool Intact
Pres Pres Sample Condition CHECKED BY: (Initials) ed by client, its subsidiaries Phone Result: Fax Result: REMARKS: tion of the applicable ☐ Yes □ No Add'l Phone #: Add'l Fax #:

a

000000

1010

Sampler - UPS - Bus - Other:



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476		
ompany Name: BBC International, Inc.	BILL TO	ANALYSIS REQUEST
roject Manager: Cliff Brunson	P.O. #:	
ddress: P.O. Box 805	Company:	
ity: Hobbs State: NM zip: 88241	Attn:	
hone #: 575-397-6388 Fax #: 575-397-0397	Address:	

Company Name: BBC I	BBC International, Inc.	BILL TO	AN	ANALYSIS REQUEST	_
Project Manager: Cliff Brunson	Brunson	P.O. #:			_
Address: P.O. Box 805	5	Company:			
city: Hobbs	State: NM Zip: 88241	Attn:			
Phone #: 575-397-6388	Fax #: 575-	Address:			_
Project #:	Project Owner:	City:			
Project Name: Mc Kathark	The Hills CTB	State: Zip:			_
Project Location:		Phone #:			_
Sampler Name: Tell	Omelus	Fax #:		a	
FOR LAB USE ONLY	MATRIX P.	PRESERV. SAMPLING			_
H101369	(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	TPH 3TEX CL		
11 Eust	_	5/2/17	/		_
12 West	0 00 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	51217 239	<u>/</u> /		
13 South	8 Satruez 61	1 81217 315	/		
arialyses. All claims including those for negligible for negligible for negligible for no event shall Cardinal be liable for shall cardinal out of or relate.	analyses. All claims including those for negligence and any other cause whatsoever shall be determed walved unless made in writing and necked by Castinal within 30 days after completion of the applicable service. In no event shall Cautinal be liable for noticential or consequential damages, including without fill imitation, business intemptions, loss of use, or loss of profits incurred by client, its sub-indicates, artificiates of average anising out of or related befine performance of services herearchigh by Cautinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	and received by Cardinal within 30 days after completion of tr ns, loss of use, or loss of profits incurred by client, its subsidia irm is based upon any of the above stated reasons or otherwise	he applicable ries; se.		
Relinguished By: Relinguished By:	Date Received By:  Time Received By:	Phone Result: Fax Result: REMARKS:	□ Yes □ No	Add'I Phone #: Add'I Fax #:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	: -11.4° Ss	fes CHECKED BY:			

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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

\* Attach Additional Sheets If Necessary

### State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Release	Notification	and Corrective	Action
INCICASE	TADUITICATION	and Corrective	ACTION

OPERATOR													
						Contact CASEY L SUMMERS							
						Telephone No. 575-513-8289							
Facility Name MCKITTRICK HILLS CTB Facility Type CENTRAL TANK BATTERY													
Surface Owner STATE Mineral Owner					wner	STATE			API No.	API No. 30-015-21010			
LOCATION OF RELEASE													
Unit Letter	Section	Township	Range	Feet from the	North/	th/South Line Feet from the East/West Line County						у	
Н	H 14 22S 24E 2390 NORTH 830 EAST EDDY												
Latitude_32.3916512_ Longitude104.4632568_ NAD83													
NATURE OF RELEASE													
Type of Release OIL & PRODUCED WATER					Volume of 85 bbls OII	Release L – 10 bbls PW		Volume R	ecovered	80 bbls	•		
Source of Release WATER TANKS SPILLED OVER					Date and H 4-18-2017	our of Occurrence	e	Date and I 4-19-2017	lour of Disc	overy			
Was Immedia	te Notice C	Given?				If YES, To							
✓ Yes					MIKE BR/   TUCKER-	ATCHER-NMOC BLM	D; CRY	STAL WE	AVER-NM	OCD; S	HELLY		
By Whom? CASEY SUMMERS					our 4-19-2017								
Was a Watercourse Reached?  ☐ Yes ☑ No					If YES, Vo	lume Impacting t	he Wate	rcourse.					
If a Watercourse was Impacted, Describe Fully.*													
ti a matereourse was imparted, postilior runy.													
Describe Cause of Problem and Remedial Action Taken.*													
Spill was caused by water tanks spilling over due to the injection pumps not running properly. Pumps and alarm were repaired and check													
				or due to the injection in the injection of the injection				Pumps	s and alarn	n were rep	aired ai	nd check	
to prevent it	iture relea	sc. oo buis c	n nee nu	iid was recovere	u by va	cuum nuck	•						
Describe Area Affected and Cleanup Action Taken.*													
The affected area is approximately 80' X 40' on location (measurements are subject to change with future GPS track) . Remediation will													
								***********					
be completed in accordance with a remediation plan approved by the NMOCD and BLM.													
I hereby cortify that the information given above is true and complete to the heat of any brounded and understand that appropriate NMOCD and a set of any brounded and understand that appropriate NMOCD and a set of any brounded and understand that appropriate NMOCD and a set of any brounded as and understand that appropriate NMOCD and a set of any brounded as and understand that appropriate to the first angle of the set of any brounded as and understand that appropriate to the set of any brounded as and understand that appropriate to the set of any brounded as a set of a set of any brounded as a set of a s													
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.													
redetal, state,	or local lav	a and or regu	ianons.		T		OII CONS	SERV	ATION	DIVISIO	N		
	OIL CONSERVATION DIVISION												
Signature:													
Printed Name: CASEY L SUMMERS Approved by Environmental Specialist:													
Title: ENVIRONMENTAL ADVISOR						Approval Dat	e:	Expiration Date:					
E-mail Address: casey summers@oxy.com Conditions of Approval:													
Date: 4-19-17 Phone: 575-513-8289													