



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

OXY – SUNDANCE 10 FEDERAL #1 CTB

REMEDIATION PLAN

OXY will excavate the spill area as depicted on the following site diagram. The entire spill area will be excavated to a depth of 2 feet. All excavated materials will be disposed of at an NMOCD-approved disposal facility.

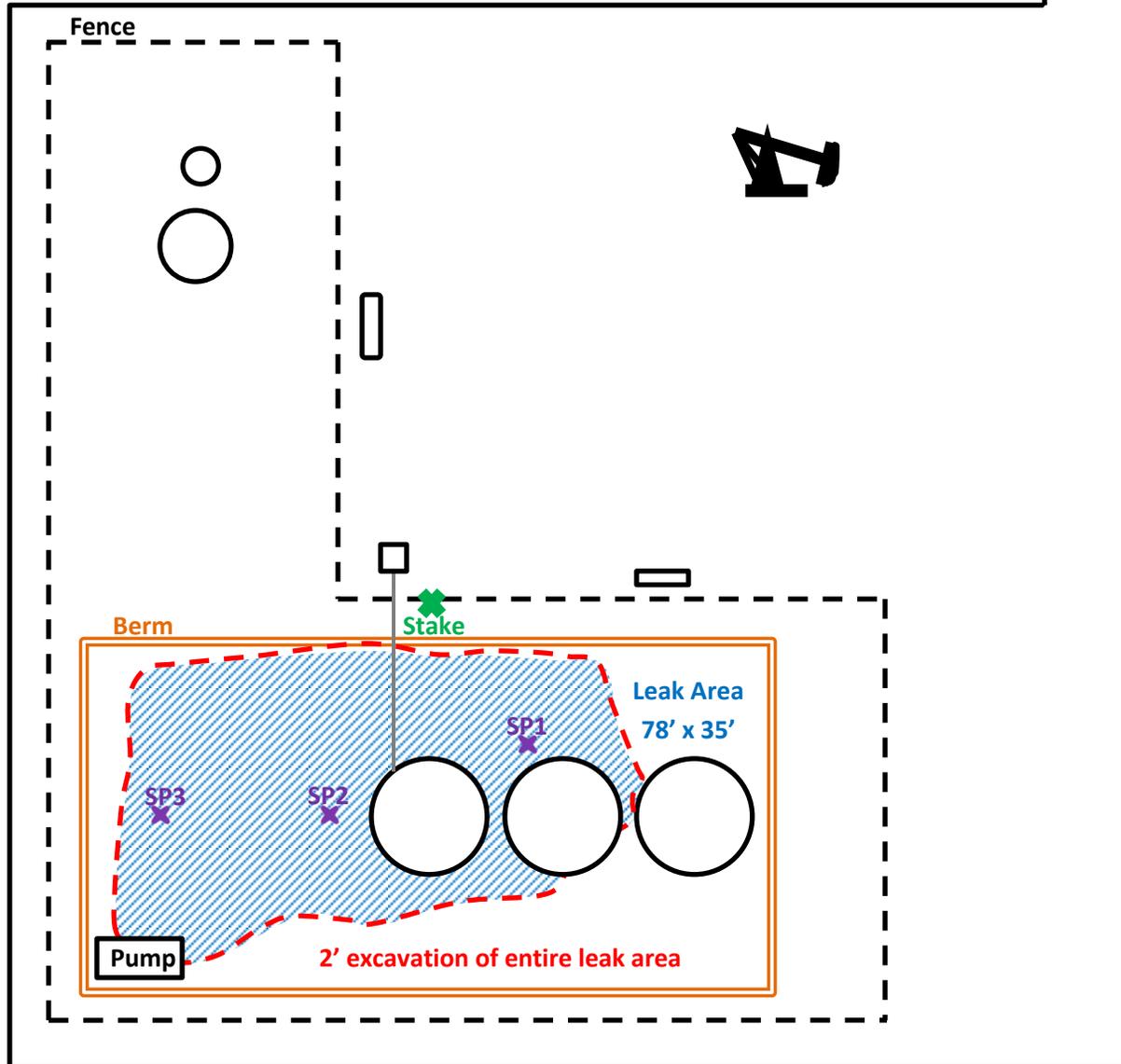
This plan will remove the contaminants to NMOCD acceptable levels as agreed upon.

The site will then be backfilled with clean soil.



Oxy
Sundance 10 Federal #1 CTB

Road



U/L D, Section 10, T24S, R31E
Eddy County, NM
N 32.23795° W 103.77349°
API# 30-015-28122

BBC International, Inc.

Oxy
Sundance 10 Federal #1 CTB

Date: 8/13/15

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2015

Groundwater Plot

Oxy Sundance 10 Federal #1 CTB

County
Eddy

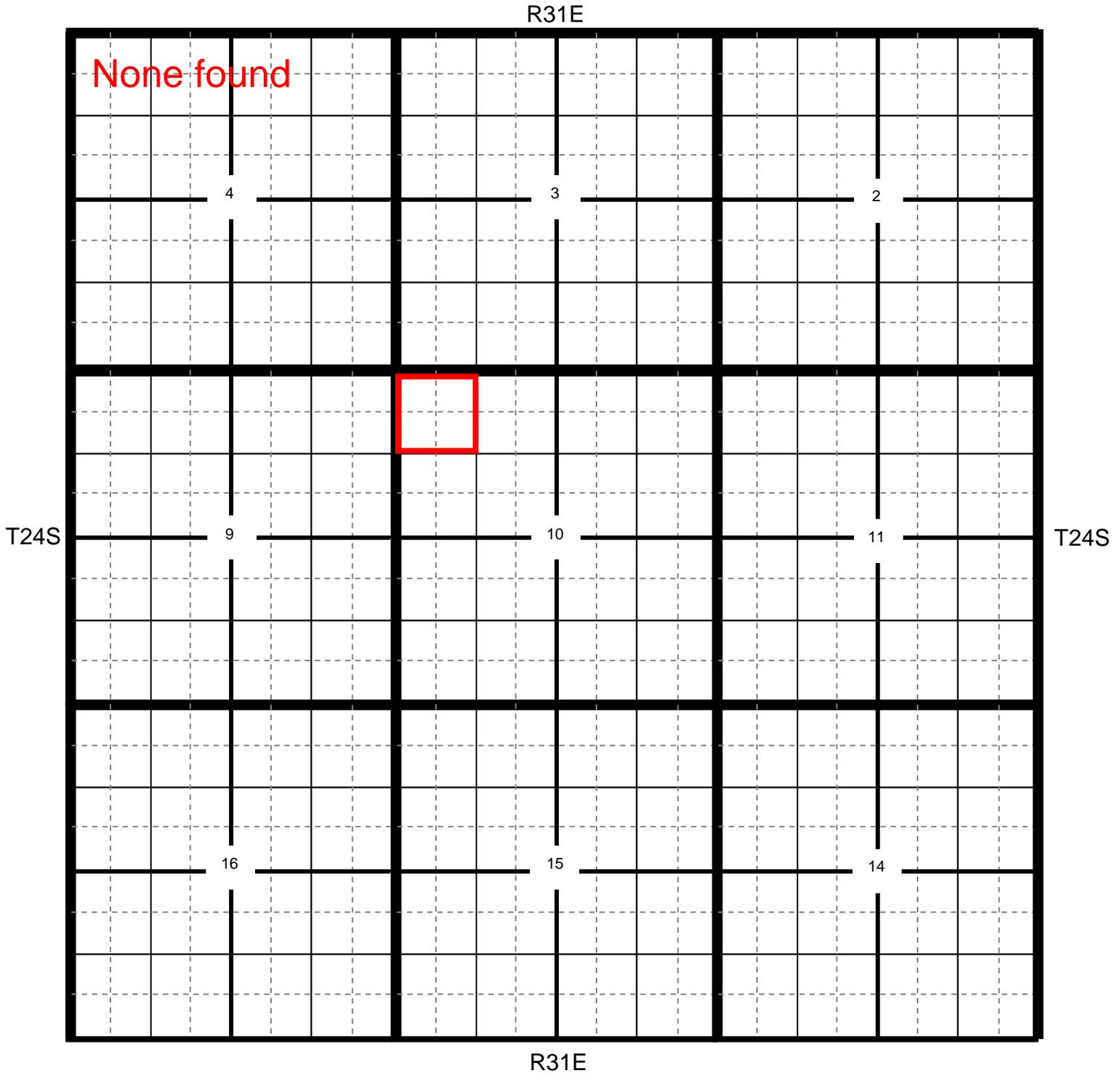
Unit Letter
D

Section
10

Township
24S

Range
31EnumE

Trend Map 375'



📍 Location

● OCD

● USGS

● SEO

● All Databases

Oxy Sundance 10 Federal #1 CTB

County Eddy **Unit Letter** D **Section** 10 **Township** 24S **Range** 31E

Trend Map 375'

1

2

NW/NW Unit Letter D	NE/NW Unit Letter C	NW/NE Unit Letter B	NE/NE None found Unit Letter A
SW/NW Unit Letter E	SE/NW Unit Letter F	SW/NE Unit Letter G	SE/NE Unit Letter H
NW/SW Unit Letter L	NE/SW Unit Letter K	NW/SE Unit Letter J	NE/SE Unit Letter I
SW/SW Unit Letter M	SE/SW Unit Letter N	SW/SE Unit Letter O	SE/SE Unit Letter P

3

4

**Laboratory Analytical Results Summary
Sundance 10 Federal #1 CTB**

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	8/13/15	8/13/15	8/13/15	8/13/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<2.00	3.35	0.361	<0.050
Toluene	BTEX 8021B		7.43	30	3.54	<0.050
Ethylbenzene	BTEX 8021B		11.3	19.8	2.66	0.092
Total Xylenes	BTEX 8021B		55.8	82.8	11.5	0.482
Total BTEX	BTEX 8021B		74.6	136	18.1	0.574
Chloride	SM4500Cl-B		144	<16.0	<16.0	<16.0
GRO	TPH 8015M		3140	4930	471	21.9
DRO	TPH 8015M		40700	17500	1600	107

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	8/13/15	8/13/15	8/13/15	8/13/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<2.00	<1.00	<0.050	<0.050
Toluene	BTEX 8021B		2.85	<1.00	0.42	<0.050
Ethylbenzene	BTEX 8021B		8.42	2.18	0.383	<0.050
Total Xylenes	BTEX 8021B		43.9	14.4	1.83	0.237
Total BTEX	BTEX 8021B		55.2	16.5	2.63	<0.300
Chloride	SM4500Cl-B		144	48	<16.0	<16.0
GRO	TPH 8015M		2490	1330	104	13.6
DRO	TPH 8015M		32500	15400	454	65.6

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	8/13/15	8/13/15	8/13/15	8/13/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<2.00	<1.00	<0.050	<0.050
Toluene	BTEX 8021B		4.11	1.74	<0.050	<0.050
Ethylbenzene	BTEX 8021B		9.75	6.25	0.084	<0.050
Total Xylenes	BTEX 8021B		50.3	33.4	0.408	0.224
Total BTEX	BTEX 8021B		64.1	41.4	0.493	<0.300
Chloride	SM4500Cl-B		192	48	<16.0	<16.0
GRO	TPH 8015M		2940	1740	26.3	13
DRO	TPH 8015M		36200	13500	117	71.6



August 19, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SUNDANCE 10 # 1

Enclosed are the results of analyses for samples received by the laboratory on 08/14/15 10:31.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

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:	08/14/2015	Sampling Date:	08/13/2015
Reported:	08/19/2015	Sampling Type:	Soil
Project Name:	SUNDANCE 10 # 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP1 @ SURFACE (H502118-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	7.43	2.00	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	11.3	2.00	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	55.8	6.00	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTEX	74.6	12.0	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/17/2015	ND	432	108	400	0.00	

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	3140	200	08/14/2015	ND	185	92.4	200	7.73		
DRO >C10-C28	40700	200	08/14/2015	ND	193	96.3	200	12.4		

Surrogate: 1-Chlorooctane 197 % 47.2-157
Surrogate: 1-Chlorooctadecane 740 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Reported:	08/19/2015	Sampling Type:	Soil
Project Name:	SUNDANCE 10 # 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP1 @ 1' (H502118-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.35	2.00	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	30.0	2.00	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	19.8	2.00	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	82.8	6.00	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTEX	136	12.0	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/17/2015	ND	432	108	400	0.00	

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	4930	100	08/14/2015	ND	185	92.4	200	7.73		
DRO >C10-C28	17500	100	08/14/2015	ND	193	96.3	200	12.4		

Surrogate: 1-Chlorooctane 195 % 47.2-157

Surrogate: 1-Chlorooctadecane 251 % 52.1-176

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Received:	08/14/2015	Sampling Date:	08/13/2015
Reported:	08/19/2015	Sampling Type:	Soil
Project Name:	SUNDANCE 10 # 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP1 @ 2' (H502118-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.361	0.200	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	3.54	0.200	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	2.66	0.200	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	11.5	0.600	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTEX	18.1	1.20	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.4 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/17/2015	ND	432	108	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	471	50.0	08/14/2015	ND	185	92.4	200	7.73	
DRO >C10-C28	1600	50.0	08/14/2015	ND	193	96.3	200	12.4	

Surrogate: 1-Chlorooctane 112 % 47.2-157

Surrogate: 1-Chlorooctadecane 100 % 52.1-176

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Received:	08/14/2015	Sampling Date:	08/13/2015
Reported:	08/19/2015	Sampling Type:	Soil
Project Name:	SUNDANCE 10 # 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP1 @ 3' (H502118-04)

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	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	<0.050	0.050	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	0.092	0.050	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	0.482	0.150	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTEX	0.574	0.300	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/17/2015	ND	432	108	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	21.9	10.0	08/14/2015	ND	185	92.4	200	7.73	
DRO >C10-C28	107	10.0	08/14/2015	ND	193	96.3	200	12.4	

Surrogate: 1-Chlorooctane 96.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.8 % 52.1-176

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 Fax To: (575) 397-0397

Received:	08/14/2015	Sampling Date:	08/13/2015
Reported:	08/19/2015	Sampling Type:	Soil
Project Name:	SUNDANCE 10 # 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP2 @ SURFACE (H502118-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	2.85	2.00	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	8.42	2.00	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	43.9	6.00	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTEX	55.2	12.0	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/18/2015	ND	432	108	400	3.77	

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	2490	100	08/14/2015	ND	185	92.4	200	7.73		
DRO >C10-C28	32500	100	08/14/2015	ND	193	96.3	200	12.4		

Surrogate: 1-Chlorooctane 173 % 47.2-157

Surrogate: 1-Chlorooctadecane 590 % 52.1-176

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Received:	08/14/2015	Sampling Date:	08/13/2015
Reported:	08/19/2015	Sampling Type:	Soil
Project Name:	SUNDANCE 10 # 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP2 @ 1' (H502118-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	<1.00	1.00	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	2.18	1.00	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	14.4	3.00	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTEX	16.5	6.00	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/18/2015	ND	432	108	400	3.77	

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	1330	100	08/14/2015	ND	185	92.4	200	7.73		
DRO >C10-C28	15400	100	08/14/2015	ND	193	96.3	200	12.4		

Surrogate: 1-Chlorooctane 202 % 47.2-157

Surrogate: 1-Chlorooctadecane 227 % 52.1-176

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Received:	08/14/2015	Sampling Date:	08/13/2015
Reported:	08/19/2015	Sampling Type:	Soil
Project Name:	SUNDANCE 10 # 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP2 @ 2' (H502118-07)

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	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	0.420	0.050	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	0.383	0.050	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	1.83	0.150	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTEX	2.63	0.300	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/18/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	104	10.0	08/14/2015	ND	185	92.4	200	7.73	
DRO >C10-C28	454	10.0	08/14/2015	ND	193	96.3	200	12.4	

Surrogate: 1-Chlorooctane 97.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.0 % 52.1-176

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 Fax To: (575) 397-0397

Received:	08/14/2015	Sampling Date:	08/13/2015
Reported:	08/19/2015	Sampling Type:	Soil
Project Name:	SUNDANCE 10 # 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP2 @ 3' (H502118-08)

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	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	<0.050	0.050	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	<0.050	0.050	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	0.237	0.150	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTEX	<0.300	0.300	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/18/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	13.6	10.0	08/14/2015	ND	185	92.4	200	7.73	
DRO >C10-C28	65.6	10.0	08/14/2015	ND	193	96.3	200	12.4	

Surrogate: 1-Chlorooctane 97.5 % 47.2-157
Surrogate: 1-Chlorooctadecane 91.9 % 52.1-176

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*=Accredited Analyte

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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:	08/14/2015	Sampling Date:	08/13/2015
Reported:	08/19/2015	Sampling Type:	Soil
Project Name:	SUNDANCE 10 # 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP3 @ SURFACE (H502118-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	4.11	2.00	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	9.75	2.00	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	50.3	6.00	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTEX	64.1	12.0	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/18/2015	ND	432	108	400	3.77	

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	2940	200	08/14/2015	ND	185	92.4	200	7.73		
DRO >C10-C28	36200	200	08/14/2015	ND	193	96.3	200	12.4		

Surrogate: 1-Chlorooctane 198 % 47.2-157

Surrogate: 1-Chlorooctadecane 630 % 52.1-176

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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:	08/14/2015	Sampling Date:	08/13/2015
Reported:	08/19/2015	Sampling Type:	Soil
Project Name:	SUNDANCE 10 # 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP3 @ 1' (H502118-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	1.74	1.00	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	6.25	1.00	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	33.4	3.00	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTEX	41.4	6.00	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/18/2015	ND	432	108	400	3.77	

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	1740	100	08/14/2015	ND	185	92.4	200	7.73		
DRO >C10-C28	13500	100	08/14/2015	ND	193	96.3	200	12.4		

Surrogate: 1-Chlorooctane 151 % 47.2-157

Surrogate: 1-Chlorooctadecane 215 % 52.1-176

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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:	08/14/2015	Sampling Date:	08/13/2015
Reported:	08/19/2015	Sampling Type:	Soil
Project Name:	SUNDANCE 10 # 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP3 @ 2' (H502118-11)

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	08/18/2015	ND	2.26	113	2.00	1.34	
Toluene*	<0.050	0.050	08/18/2015	ND	2.13	107	2.00	2.43	
Ethylbenzene*	0.084	0.050	08/18/2015	ND	2.28	114	2.00	3.96	
Total Xylenes*	0.408	0.150	08/18/2015	ND	6.40	107	6.00	2.03	
Total BTEX	0.493	0.300	08/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/18/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	26.3	10.0	08/14/2015	ND	185	92.4	200	7.73	
DRO >C10-C28	117	10.0	08/14/2015	ND	193	96.3	200	12.4	

Surrogate: 1-Chlorooctane 78.2 % 47.2-157
Surrogate: 1-Chlorooctadecane 85.6 % 52.1-176

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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:	08/14/2015	Sampling Date:	08/13/2015
Reported:	08/19/2015	Sampling Type:	Soil
Project Name:	SUNDANCE 10 # 1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP3 @ 3' (H502118-12)

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	08/18/2015	ND	2.26	113	2.00	1.34		
Toluene*	<0.050	0.050	08/18/2015	ND	2.13	107	2.00	2.43		
Ethylbenzene*	<0.050	0.050	08/18/2015	ND	2.28	114	2.00	3.96		
Total Xylenes*	0.224	0.150	08/18/2015	ND	6.40	107	6.00	2.03		
Total BTEX	<0.300	0.300	08/18/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/18/2015	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	13.0	10.0	08/14/2015	ND	185	92.4	200	7.73		
DRO >C10-C28	71.6	10.0	08/14/2015	ND	193	96.3	200	12.4		

Surrogate: 1-Chlorooctane 91.3 % 47.2-157
Surrogate: 1-Chlorooctadecane 89.8 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

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.
- 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

142

Company Name: BBC International, Inc.		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		Company:					
Address: P.O. Box 805		City: Hobbs		State: NM		Zip: 88241	
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:			
Project #:		Project Owner: OJ Summers		City:			
Project Name: SURFACE ID #1		State:		Zip:			
Project Location:		Phone #:		Fax #:			
Sampler Name: BOCK HERANDEZ		FOR LAB USE ONLY					
Lab I.D. H502118		Sample I.D.					
		(G)RAB OR (C)OMP					
		# CONTAINERS					
		GROUNDWATER					
		WASTEWATER					
		SOIL					
		OIL					
		SLUDGE					
		OTHER:					
		ACID/BASE:					
		ICE / COOL					
		OTHER:					
		DATE		TIME			
SP1 @ SURFACE		8-13-15		8:45		TPH	
@ 1'		8-13-15		9:12		BTEX	
@ 2'		8-13-15		9:52		CHLORIDE	
SP2 @ SURFACE		8-13-15		9:46			
@ 1'		8-13-15		10:00			
@ 2'		8-13-15		10:20			
@ 3'		8-13-15		10:42			
SP3 @ SURFACE		8-13-15		11:00			
@ 1'		8-13-15		11:20			
		8-13-15		11:42			
		8-13-15		12:00			
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		8-13-15		04:42			
		8-13-15		05:00			
		8-13-15		05:20			
		8-13-15		05:42			
		8					



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

282

Company Name: BGC International, Inc. **BILL TO** ANALYSIS REQUEST

Project Manager: Cliff Brunson P.O. #:

Address: P.O. Box 805 Company:

City: Hobbs State: NM Zip: 88241 Attn: **CS SUMMERS**

Phone #: 575-397-6388 Fax #: 575-397-0397 Address:

Project #: Project Owner: **OMI** City:

Project Name: **SUMMERS 10 #1** State: Zip:

Project Location: Phone #:

Sampler Name: **PAUL HERRMANN** Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX	CHLORIDE
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER					
H502118	11. SP3021	51	51						8/15/15	1205	V	V	V	
	12. SP3023	51	51						8/15/15	1230	V	V	V	

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising under this contract or for, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]* Date: 8/14/15 Received By: *[Signature]* Date: 8/14/15
 Time: Time: Phone Result: Yes No Add'l Phone #:
 Add'l Fax #:
 REMARKS:

Relinquished By: *[Signature]* Date: 8/14/15 Received By: *[Signature]* Date: 8/14/15
 Time: 10:31 Time: Sample Condition: Cool Filled Yes No

Delivered By: (Circle One) **UPS** - UPS - Bus - Other: **5:20** CHECKED BY: *[Signature]*
 #54

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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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 October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(432) 685-5824
Facility Name	Sundance 10 Federal #1 CTB	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-28122

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	10	24S	31E					Eddy County, NM

Latitude N 32.23795° Longitude W 103.77349°

NATURE OF RELEASE

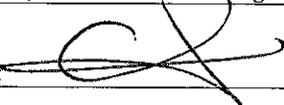
Type of Release	Oil	Volume of Release	133 bbls	Volume Recovered	110 bbls
Source of Release	Valve on circulating line left open to wrong tank	Date and Hour of Occurrence	08/10/2015	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher, Heather Patterson- NMOCD; Shelly Tucker-BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	08/10/2015 @ 4:03 pm		
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.*
The valve on the circulating line was left open to the wrong tank spilling 133 bbls of oil onto the ground. A vacuum truck recovered 110 bbls and the valve was closed.

Describe Area Affected and Cleanup Action Taken.*
The affected area is approximately 75' x 50' on location within the containment area. Remediation will be completed in accordance with a remediation plan approved by both NMOCD and the BLM.

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: Chancey Summers	Approved by District Supervisor:	
Title: HES Advisor	Approval Date:	Expiration Date:
E-mail Address: Chancey_Summers@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8-13-15	Phone: (432) 685-5824	

* Attach Additional Sheets If Necessary