



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 – MOC SWD WELL BATTERY

REMEDIATION PLAN

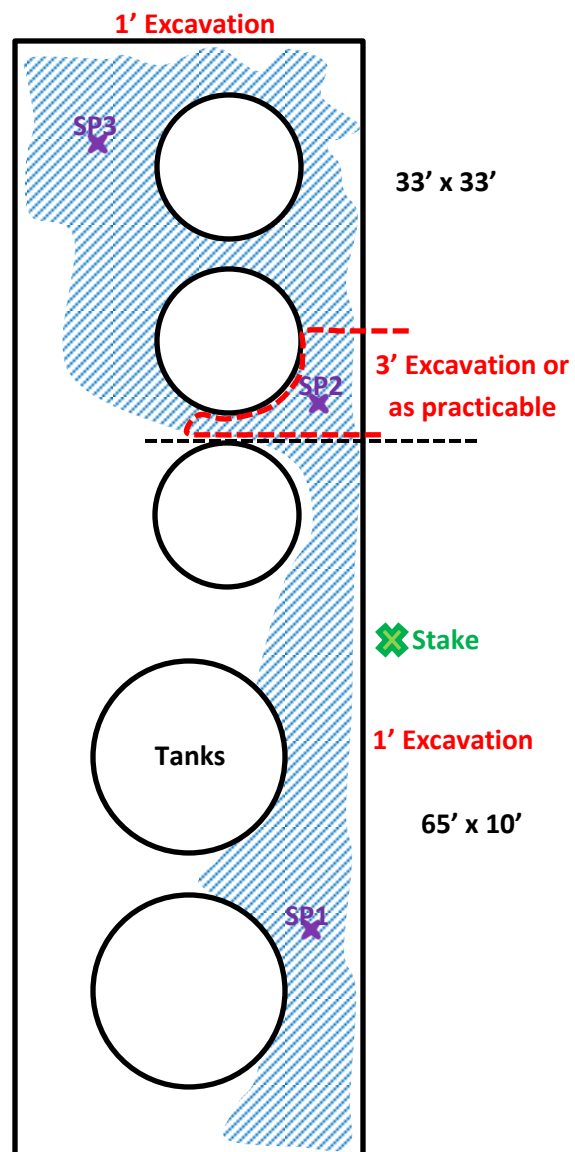
OXY will excavate the spill area as depicted on the following site diagram. The spill area near sample points SP1 and SP3 will be excavated to a depth of 1 foot. In the area of sample point SP2 3 feet will be excavated or as practicable. The entire site will be backfilled with clean soil.

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



Oxy
MOC SWD Well Battery (2/4/16)

Entrance
Road



Well
Head

U/L K, Section 7, T20S, R25E
Eddy County, NM
N 32.58654° W 104.52686°
API# 30-015-21669

BBC International, Inc.

Oxy
MOC SWD Well Battery

Date: 02/12/2016

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2016



Groundwater Plot

Oxy MOC SWD Well Battery

County
Eddy

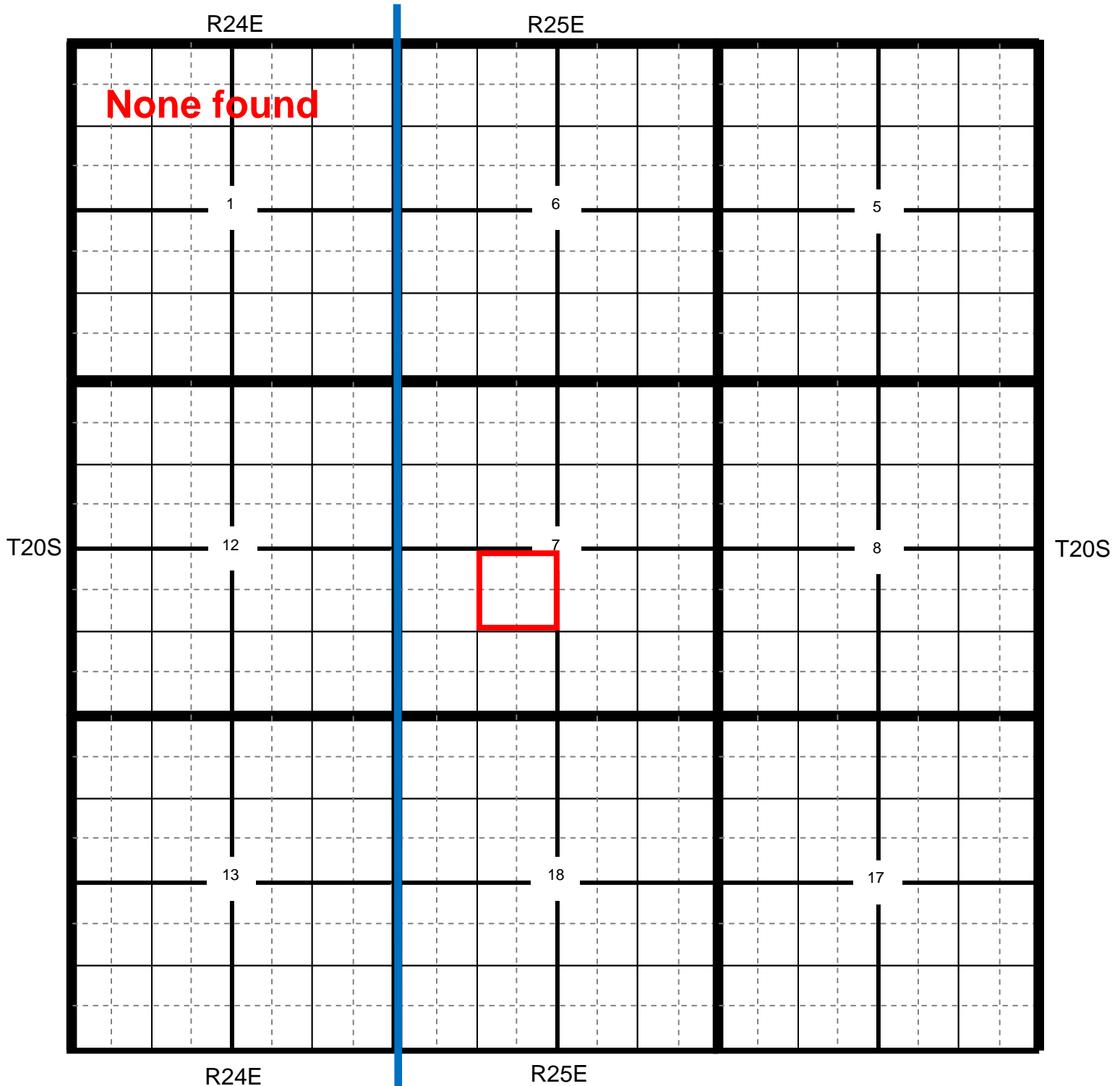
Unit Letter
K

Section
7

Township
20S

Range
25E

Trend Map 175'-200'



Location

OCD

USGS

SEO

All Databases

Oxy MOC SWD Well Battery

County Eddy Unit Letter K Section 7 Township 20S Range 25E

Trend Map 175'-200'

1

2

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

3

4

Laboratory Analytical Results Summary
MOC SWD Well Battery

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 5'	SP1 @ 6'	SP1 @ 8'	SP1 @ 9'
Analyte	Method	Date	2/16/16	2/16/16	2/16/16	2/16/16	2/16/16	2/16/16	2/16/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.56	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		9.13	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		13.3	0.06	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		24.5	0.167	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		47.5	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		284	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		1310	30	20.3	22.1	17.5	30.9	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 5'	SP2 @ 6'	SP2 @ 7'
Analyte	Method	Date	2/16/16	2/16/16	2/16/16	2/16/16	2/16/16	2/16/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	2.97	0.29	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		16.1	24	2.74	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		40	24.9	3.78	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		75.8	44.6	6.93	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		132	96.5	13.7	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		1760	2480	2480	624	416	32
GRO	TPH 8015M		960	562	175	<10.0	<10.0	<10.0
DRO	TPH 8015M		3080	3110	1910	127	112	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	2/16/16	2/16/16	2/16/16	2/16/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.808	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		14.1	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		25.2	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		47.8	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		87.9	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32	<16.0	<16.0	<16.0
GRO	TPH 8015M		1050	<10.0	<10.0	<10.0
DRO	TPH 8015M		4370	57.5	15.1	127



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

February 25, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MOC SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 02/18/16 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For 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: 02/18/2016
Reported: 02/25/2016
Project Name: MOC SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H600385-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.560	0.100	02/23/2016	ND	2.07	103	2.00	4.41	
Toluene*	9.13	0.100	02/23/2016	ND	2.00	100	2.00	2.96	
Ethylbenzene*	13.3	0.100	02/23/2016	ND	1.83	91.5	2.00	2.46	
Total Xylenes*	24.5	0.300	02/23/2016	ND	5.67	94.5	6.00	2.53	
Total BTX	47.5	0.600	02/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 73.6-140

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	02/22/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	284	10.0	02/20/2016	ND	198	99.0	200	6.32	
DRO >C10-C28	1310	10.0	02/20/2016	ND	187	93.6	200	20.6	

Surrogate: 1-Chlorooctane 124 % 35-147

Surrogate: 1-Chlorooctadecane 119 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For 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: 02/18/2016
 Reported: 02/25/2016
 Project Name: MOC SWD #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/16/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 2' (H600385-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2016	ND	2.07	103	2.00	4.41	
Toluene*	<0.050	0.050	02/23/2016	ND	2.00	100	2.00	2.96	
Ethylbenzene*	0.060	0.050	02/23/2016	ND	1.83	91.5	2.00	2.46	
Total Xylenes*	0.167	0.150	02/23/2016	ND	5.67	94.5	6.00	2.53	
Total BTX	<0.300	0.300	02/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

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	02/22/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/20/2016	ND	198	99.0	200	6.32	
DRO >C10-C28	30.0	10.0	02/20/2016	ND	187	93.6	200	20.6	

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 112 % 28-171

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Received: 02/18/2016
Reported: 02/25/2016
Project Name: MOC SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 3' (H600385-03)

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	02/23/2016	ND	2.07	103	2.00	4.41	
Toluene*	<0.050	0.050	02/23/2016	ND	2.00	100	2.00	2.96	
Ethylbenzene*	<0.050	0.050	02/23/2016	ND	1.83	91.5	2.00	2.46	
Total Xylenes*	<0.150	0.150	02/23/2016	ND	5.67	94.5	6.00	2.53	
Total BTEx	<0.300	0.300	02/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

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	02/22/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/20/2016	ND	198	99.0	200	6.32	
DRO >C10-C28	20.3	10.0	02/20/2016	ND	187	93.6	200	20.6	

Surrogate: 1-Chlorooctane 79.4 % 35-147

Surrogate: 1-Chlorooctadecane 83.6 % 28-171

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Fax To: (575) 397-0397

Received: 02/18/2016
Reported: 02/25/2016
Project Name: MOC SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 5' (H600385-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2016	ND	2.03	102	2.00	1.57	
Toluene*	<0.050	0.050	02/24/2016	ND	2.00	100	2.00	1.45	
Ethylbenzene*	<0.050	0.050	02/24/2016	ND	1.83	91.7	2.00	1.74	
Total Xylenes*	<0.150	0.150	02/24/2016	ND	5.59	93.1	6.00	1.59	
Total BTX	<0.300	0.300	02/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.6-140

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	02/22/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/20/2016	ND	198	99.0	200	6.32	
DRO >C10-C28	22.1	10.0	02/20/2016	ND	187	93.6	200	20.6	

Surrogate: 1-Chlorooctane 99.9 % 35-147

Surrogate: 1-Chlorooctadecane 90.6 % 28-171

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Fax To: (575) 397-0397

Received: 02/18/2016
Reported: 02/25/2016
Project Name: MOC SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 6' (H600385-05)

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	02/24/2016	ND	2.03	102	2.00	1.57	
Toluene*	<0.050	0.050	02/24/2016	ND	2.00	100	2.00	1.45	
Ethylbenzene*	<0.050	0.050	02/24/2016	ND	1.83	91.7	2.00	1.74	
Total Xylenes*	<0.150	0.150	02/24/2016	ND	5.59	93.1	6.00	1.59	
Total BTEx	<0.300	0.300	02/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.6-140

Chloride, SM4500CI-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	02/22/2016	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/20/2016	ND	198	99.0	200	6.32	
DRO >C10-C28	17.5	10.0	02/20/2016	ND	187	93.6	200	20.6	

Surrogate: 1-Chlorooctane 94.0 % 35-147

Surrogate: 1-Chlorooctadecane 81.8 % 28-171

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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: 02/18/2016
Reported: 02/25/2016
Project Name: MOC SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 8' (H600385-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2016	ND	2.03	102	2.00	1.57	
Toluene*	<0.050	0.050	02/24/2016	ND	2.00	100	2.00	1.45	
Ethylbenzene*	<0.050	0.050	02/24/2016	ND	1.83	91.7	2.00	1.74	
Total Xylenes*	<0.150	0.150	02/24/2016	ND	5.59	93.1	6.00	1.59	
Total BTX	<0.300	0.300	02/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.6-140

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	02/22/2016	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/20/2016	ND	198	99.0	200	6.32	
DRO >C10-C28	30.9	10.0	02/20/2016	ND	187	93.6	200	20.6	


Surrogate: 1-Chlorooctane 105 % 35-147

Surrogate: 1-Chlorooctadecane 115 % 28-171

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

Received: 02/18/2016
Reported: 02/25/2016
Project Name: MOC SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 9' (H600385-07)

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	02/24/2016	ND	2.03	102	2.00	1.57		
Toluene*	<0.050	0.050	02/24/2016	ND	2.00	100	2.00	1.45		
Ethylbenzene*	<0.050	0.050	02/24/2016	ND	1.83	91.7	2.00	1.74		
Total Xylenes*	<0.150	0.150	02/24/2016	ND	5.59	93.1	6.00	1.59		
Total BTEx	<0.300	0.300	02/24/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 73.6-140

Chloride, SM4500CI-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	02/22/2016	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/20/2016	ND	198	99.0	200	6.32	
DRO >C10-C28	<10.0	10.0	02/20/2016	ND	187	93.6	200	20.6	

Surrogate: 1-Chlorooctane 98.6 % 35-147

Surrogate: 1-Chlorooctadecane 107 % 28-171

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Mike Snyder For 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: 02/18/2016
Reported: 02/25/2016
Project Name: MOC SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H600385-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/24/2016	ND	2.03	102	2.00	1.57	
Toluene*	16.1	0.500	02/24/2016	ND	2.00	100	2.00	1.45	
Ethylbenzene*	40.0	0.500	02/24/2016	ND	1.83	91.7	2.00	1.74	
Total Xylenes*	75.8	1.50	02/24/2016	ND	5.59	93.1	6.00	1.59	
Total BTEX	132	3.00	02/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	02/22/2016	ND	416	104	400	7.41	
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	960	50.0	02/20/2016	ND	198	99.0	200	6.32	
DRO >C10-C28	3080	50.0	02/20/2016	ND	187	93.6	200	20.6	

Surrogate: 1-Chlorooctane 179 % 35-147

Surrogate: 1-Chlorooctadecane 147 % 28-171

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

Received: 02/18/2016
Reported: 02/25/2016
Project Name: MOC SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 2' (H600385-09)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.97	0.500	02/24/2016	ND	2.03	102	2.00	1.57	
Toluene*	24.0	0.500	02/24/2016	ND	2.00	100	2.00	1.45	
Ethylbenzene*	24.9	0.500	02/24/2016	ND	1.83	91.7	2.00	1.74	
Total Xylenes*	44.6	1.50	02/24/2016	ND	5.59	93.1	6.00	1.59	
Total BTEX	96.5	3.00	02/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	02/22/2016	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	562	50.0	02/20/2016	ND	198	99.0	200	6.32	
DRO >C10-C28	3110	50.0	02/20/2016	ND	187	93.6	200	20.6	

Surrogate: 1-Chlorooctane 143 % 35-147

Surrogate: 1-Chlorooctadecane 152 % 28-171

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

Received: 02/18/2016
Reported: 02/25/2016
Project Name: MOC SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 3' (H600385-10)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.290	0.100	02/24/2016	ND	2.03	102	2.00	1.57	
Toluene*	2.74	0.100	02/24/2016	ND	2.00	100	2.00	1.45	
Ethylbenzene*	3.78	0.100	02/24/2016	ND	1.83	91.7	2.00	1.74	
Total Xylenes*	6.93	0.300	02/24/2016	ND	5.59	93.1	6.00	1.59	
Total BTX	13.7	0.600	02/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 153 % 73.6-140

Chloride, SM4500CI-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	02/22/2016	ND	416	104	400	7.41	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	175	10.0	02/20/2016	ND	198	99.0	200	6.32	
DRO >C10-C28	1910	10.0	02/20/2016	ND	187	93.6	200	20.6	

Surrogate: 1-Chlorooctane 125 % 35-147

Surrogate: 1-Chlorooctadecane 148 % 28-171

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 Received: 02/18/2016
 Reported: 02/25/2016
 Project Name: MOC SWD #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/16/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 5' (H600385-11)

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	02/24/2016	ND	2.03	102	2.00	1.57	
Toluene*	<0.050	0.050	02/24/2016	ND	2.00	100	2.00	1.45	
Ethylbenzene*	<0.050	0.050	02/24/2016	ND	1.83	91.7	2.00	1.74	
Total Xylenes*	<0.150	0.150	02/24/2016	ND	5.59	93.1	6.00	1.59	
Total BTEx	<0.300	0.300	02/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	02/22/2016	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/20/2016	ND	198	99.0	200	6.32	
DRO >C10-C28	127	10.0	02/20/2016	ND	187	93.6	200	20.6	

Surrogate: 1-Chlorooctane 107 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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Received: 02/18/2016
Reported: 02/25/2016
Project Name: MOC SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 6' (H600385-12)

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	02/24/2016	ND	2.03	102	2.00	1.57	
Toluene*	<0.050	0.050	02/24/2016	ND	2.00	100	2.00	1.45	
Ethylbenzene*	<0.050	0.050	02/24/2016	ND	1.83	91.7	2.00	1.74	
Total Xylenes*	<0.150	0.150	02/24/2016	ND	5.59	93.1	6.00	1.59	
Total BTEx	<0.300	0.300	02/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	02/22/2016	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/20/2016	ND	198	99.0	200	6.32	
DRO >C10-C28	112	10.0	02/20/2016	ND	187	93.6	200	20.6	

Surrogate: 1-Chlorooctane 105 % 35-147

Surrogate: 1-Chlorooctadecane 97.3 % 28-171

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Fax To: (575) 397-0397

Received: 02/18/2016
Reported: 02/25/2016
Project Name: MOC SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 7' (H600385-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2016	ND	2.03	102	2.00	1.57	
Toluene*	<0.050	0.050	02/24/2016	ND	2.00	100	2.00	1.45	
Ethylbenzene*	<0.050	0.050	02/24/2016	ND	1.83	91.7	2.00	1.74	
Total Xylenes*	<0.150	0.150	02/24/2016	ND	5.59	93.1	6.00	1.59	
Total BTEx	<0.300	0.300	02/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/22/2016	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/22/2016	ND	195	97.7	200	4.26	
DRO >C10-C28	<10.0	10.0	02/22/2016	ND	213	107	200	10.4	

Surrogate: 1-Chlorooctane 93.1 % 35-147

Surrogate: 1-Chlorooctadecane 109 % 28-171

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 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

 Received: 02/18/2016
 Reported: 02/25/2016
 Project Name: MOC SWD #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/16/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H600385-14)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.808	0.500	02/24/2016	ND	2.03	102	2.00	1.57	
Toluene*	14.1	0.500	02/24/2016	ND	2.00	100	2.00	1.45	
Ethylbenzene*	25.2	0.500	02/24/2016	ND	1.83	91.7	2.00	1.74	
Total Xylenes*	47.8	1.50	02/24/2016	ND	5.59	93.1	6.00	1.59	
Total BTEx	87.9	3.00	02/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/22/2016	ND	416	104	400	7.41	

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	1050	50.0	02/22/2016	ND	195	97.7	200	4.26	
DRO >C10-C28	4370	50.0	02/22/2016	ND	213	107	200	10.4	

Surrogate: 1-Chlorooctane 176 % 35-147

Surrogate: 1-Chlorooctadecane 148 % 28-171

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Hobbs NM, 88241
Fax To: (575) 397-0397

Received: 02/18/2016
Reported: 02/25/2016
Project Name: MOC SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 2' (H600385-15)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2016	ND	2.03	102	2.00	1.57	
Toluene*	<0.050	0.050	02/24/2016	ND	2.00	100	2.00	1.45	
Ethylbenzene*	<0.050	0.050	02/24/2016	ND	1.83	91.7	2.00	1.74	
Total Xylenes*	<0.150	0.150	02/24/2016	ND	5.59	93.1	6.00	1.59	
Total BTEx	<0.300	0.300	02/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-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	02/22/2016	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/22/2016	ND	195	97.7	200	4.26	
DRO >C10-C28	57.5	10.0	02/22/2016	ND	213	107	200	10.4	

Surrogate: 1-Chlorooctane 105 % 35-147

Surrogate: 1-Chlorooctadecane 115 % 28-171

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Fax To: (575) 397-0397

Received: 02/18/2016
Reported: 02/25/2016
Project Name: MOC SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 3' (H600385-16)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2016	ND	2.03	102	2.00	1.57	
Toluene*	<0.050	0.050	02/24/2016	ND	2.00	100	2.00	1.45	
Ethylbenzene*	<0.050	0.050	02/24/2016	ND	1.83	91.7	2.00	1.74	
Total Xylenes*	<0.150	0.150	02/24/2016	ND	5.59	93.1	6.00	1.59	
Total BTEx	<0.300	0.300	02/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

Chloride, SM4500CI-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	02/22/2016	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/22/2016	ND	195	97.7	200	4.26	
DRO >C10-C28	15.1	10.0	02/22/2016	ND	213	107	200	10.4	

Surrogate: 1-Chlorooctane 85.2 % 35-147

Surrogate: 1-Chlorooctadecane 91.1 % 28-171

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Mike Snyder For 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: 02/18/2016
Reported: 02/25/2016
Project Name: MOC SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 4' (H600385-17)

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	02/24/2016	ND	2.03	102	2.00	1.57	
Toluene*	<0.050	0.050	02/24/2016	ND	2.00	100	2.00	1.45	
Ethylbenzene*	<0.050	0.050	02/24/2016	ND	1.83	91.7	2.00	1.74	
Total Xylenes*	<0.150	0.150	02/24/2016	ND	5.59	93.1	6.00	1.59	
Total BTEX	<0.300	0.300	02/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 73.6-140

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	02/22/2016	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/22/2016	ND	195	97.7	200	4.26	
DRO >C10-C28	127	10.0	02/22/2016	ND	213	107	200	10.4	

Surrogate: 1-Chlorooctane 88.9 % 35-147

Surrogate: 1-Chlorooctadecane 87.9 % 28-171

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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.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Company Name: BBC International, Inc.	P.O. #:	BILL TO										ANALYSIS REQUEST									
Project Manager: Cliff Brunson	Company:																				
Address: P.O. Box 805	Attn:																				
City: Hobbs	Address:																				
State: NM Zip: 88241	City:																				
Phone #: 575-397-6388	State:																				
Fax #: 575-397-0397	Zip:																				
Project #: <i>MOI SMD 1</i>	Project Owner: <i>CB</i>																				
Project Location:	Phone #:																				
Sample Name: <i>Pice Brunson</i>	Fax #:																				

Project Manager: Cliff Brunson										P.O. #:	
Address: P.O. Box 805										Company:	
City: Hobbs										Attn:	
State: NM Zip: 88241											
Phone #: 575-397-6388										Address:	
Fax #: 575-397-0397										City:	
Project #: <i>24</i>										State:	
Project Name: <i>MOL SWD 1</i>										Zip:	
Project Location:										Phone #:	
Sampler Name: <i>Pice Brunson</i>										Fax #:	
FOR LAB USE ONLY											
Lab I.D.										Sample I.D.	
<i>H100385</i>											
<i>11 SP205</i>										<i>✓</i>	
<i>12 SP206</i>										<i>✓</i>	
<i>13 SP207</i>										<i>✓</i>	
<i>14 SP301</i>										<i>✓</i>	
<i>15 SP302</i>										<i>✓</i>	
<i>16 SP303</i>										<i>✓</i>	
<i>17 SP304</i>										<i>✓</i>	

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Relinquished By:	Date: <i>2/18/16</i>	Received By: <i>MOI Brunson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: _____
Relinquished By:	Time: <i>4:30</i>	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #: _____
Relinquished By:	Date:	Received By:	REMARKS:	
Relinquished By:	Time:	Received By:		
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other:	<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	<i>CB</i>		
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

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

-8.02
#54

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	MOC SWD Well Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	API No. 30-015-21669

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	7	20S	25E					Eddy

Latitude N 32.58654° Longitude W 104.52686°

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	50 bbls	Volume Recovered	25 bbls
Source of Release	Holes in bottom of tank	Date and Hour of Occurrence	02/04/2016	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 Inc.	Date and Hour	02/05/2016 @ 1:53 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.*

Holes in the bottom of tank caused a leak of 50 bbls of oil. A vacuum truck recovered 25 bbls of oil and the holes were repaired.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 25' x 100' on location inside the containment. Remediation will be completed in accordance with an approved remediation plan from 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:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Casey Summers	Approved by Environmental Specialist:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: Casey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 2-16-16	Phone: (575) 513-8289		

* Attach Additional Sheets If Necessary