Closure Report

Site Description				
Site Name:	MOC SWD #001			
Company:	Oxy Permian			
Legal Description:	U/L K, Section 7, T20S, R25E			
County:	Eddy County, NM			
GPS Coordinates:	N 32.58641° W-104.52663°			

Release Data				
Date of Release:	03/15/2017			
Type of Release:	Produced water			
Source of Release:	Compromised 4" steel disposal line			
Volume of Release:	20 bbls			
Volume Recovered:	10 bbls			

Remediation Specifications					
Remediation Parameters:	Excavate the entire spill to a depth of 6 inches. Backfill the site with clean soil.				
Remediation Activities:	02/09/2018 to 02/13/2018				
Plan Sent to OCD:	09/14/2017	Email from Cliff Brunson to Mike Bratcher			
OCD Approval of Plan:	09/21/2017	Email from Mike Bratcher to Cliff Brunson			
Plan Sent to BLM:	09/14/2017	Email from Cliff Brunson to Shelly Tucker			
BLM Approval of Plan:	10/03/2017	Email from Shelly Tucker to Cliff Brunson			

Supporting Documentation					
Initial C-141	Signed 04/04/2017				
Final C-141	Upon completion				
Site Diagram	March 2017				
Groundwater Plot	175'				
TOPO Maps	March 2017				
Lab Summary	04/07/2017				
Lab Analysis	04/07/2017				
Correspondence	Request and approval of remediation plan via email				

Request for Closure

Based on the completion of the remediation plan, Oxy Permian requests closure approval from NMOCD.

Wade Dittrich, Environmental Specialists, Oxy Permian

02/20/2018

NM OIL CONSERVATION

ARTESIA DISTRICT

APR 0 4 2017

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

Form C-1² Revised August 8, 20

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 RESERVED by to appropriate District Office accordance with 19.15.29 NMA

	n and Corrective Action				
NAB 1710034047	OPERATOR				
Name of Company Oxy Permian Ltd. 193413 Address PO Box 4294; Houston, TX 77210	Contact Casey Summers Telephone No. (575) 513-8289				
Facility Name MOC SWD #001	Facility Type SWD				
Surface Owner BLM Mineral Owner	r API No. 30-015-21669				
	N OF RELEASE				
	rth/South Line Feet from the East/West Line County				
K 7 20S 25E	Eddy County, NM				
Latitude N 32.58641					
	·				
Type of Release Produced water	C OF RELEASE Volume of Release 20 bbls Volume Recovered 10 bbls				
Source of Release Compromised 4" steel disposal line	Date and Hour of Occurrence Date and Hour of Discovery				
Was Immediate Notice Given?	03/15/2017 If YES, To Whom?				
✓ Yes ☐ No ☐ Not Requir	ed Mike Bratcher, Crystal Weaver-NMOCD; Shelly Tucker-BLM				
By Whom? Jennifer Gilkey @ BBC International Was a Watercourse Reached?	Date and Hour 03/16/2017 @ 4:25 pm If YES, Volume Impacting the Watercourse.				
Yes No	it 125, Volume impacting the Watercourse.				
If a Watercourse was Impacted, Describe Fully,*					
Describe Cause of Problem and Remedial Action Taken.*					
A compromised steel disposal line caused a leak of 20 bbls of produce	d water. A vacuum truck recovered 10 bbls of water and the line was repaired,				
Describe Area Affected and Cleanup Action Taken.					
The affected area is approximately 200' x 125' on location just south of	of the wellhead. 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	o the best of my knowledge and understand that pursuant to NMOCD rules and				
	e notifications and perform corrective actions for releases which may endanger the NMOCD marked as "Final Report" does not relieve the operator of liability				
should their operations have falled to adequately investigate and remed	liate contamination that pose a threat to ground water, surface water, human health				
or the environment, Inhaddition, NMOCD acceptance of a C-141 reported federal, state, of local laws and/or regulations.	rt does not relieve the operator of responsibility for compliance with any other				
	OIL CONSERVATION DIVISION				
Signature: Signed By Mily Branch					
Printed Name: Casey Summers	Approved by Environmental Specialist:				
	ALALIA L. MIA				
Title: NM Environmental Advisor	Approval Date: AAM Expiration Date: N/A				
E-mail Address: Casey_Summers@oxy.com	Conditions of Approval:				
Date: 4-4-(17 Phone: (575) 513-8289	Ser attached				
* Attach Additional Sheets If Necessary	2Rp. 4143				

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 4/4/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 5/4/2017 . If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From:

Casey_Summers@oxy.com

Sent:

Tuesday, April 4, 2017 2:08 PM

To: Cc: stucker@blm.gov; Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD cbrunson@bbcinternational.com; kswinney@bbcinternational.com;

kathy@bbcinternational.com; Jennifer_Hudgens@oxy.com;

jgilkey@bbcinternational.com

Subject:

RE: MOC SWD 1 (3-15-2017)

Attachments:

Initial C-141, MOC SWD#001.pdf

I Apologize, the file was saved as initial and final but this is only the initial C-141 for the MOC SWD #1. Please see the correctly saved file attached for your records.

Casey Summers

O: (575)-628-4152

C: (575)-513-8289

From: Summers, Casey L

Sent: Tuesday, April 04, 2017 1:55 PM

To: Tucker, Shelly <stucker@blm.gov>; mike.bratcher@state.nm.us; crystal.weaver@state.nm.us

Cc: Cliff Brunson <cbrunson@bbcinternational.com>; Ken Swinney@bbcinternational.com>; Kathy Purvis

<kathy@bbcinternational.com>; Hudgens, Jennifer A <Jennifer_Hudgens@oxy.com>; 'Jennifer Gilkey'

<jgilkey@bbcinternational.com>
Subject: MOC SWD 1 (3-15-2017)

Attached is the initial C-141 for a leak that occurred at the MOC SWD 1 on 03/15/2017 in Eddy County, NM. Receipt notification and the RP number via email are greatly appreciated.

Thanks You

Casey Summers

O: (575)-628-4152 C: (575)-513-8289

From: Jennifer Gilkey [mailto:jgilkey@bbcinternational.com]

Sent: Friday, March 17, 2017 2:38 PM

To: Tucker, Shelly < stucker@blm.gov>; mike.bratcher@state.nm.us; crystal.weaver@state.nm.us

Cc: Cliff Brunson < cbrunson@bbcinternational.com >; Ken Swinney@bbcinternational.com >; Kathy Purvis

<kathy@bbcinternational.com>; Summers, Casey L <Casey Summers@oxy.com>; Hudgens, Jennifer A

<Jennifer Hudgens@oxy.com>

Subject: [EXTERNAL] RE: MOC SWD 1

The leak date was March 15, 2017.

..... Jennifer Gilkey

Administrative Manager BBC International, Inc. Phone: (575) 397-6388

Fax: (575) 397-0397

E-mail: jgilkey@bbcinternational.com

1324 W. Marland Blvd. Hobbs, NM 88240

From: Jennifer Gilkey [mailto:jqilkey@bbcinternational.com]

Sent: Thursday, March 16, 2017 4:25 PM

To: Tucker, Shelly (<u>stucker@blm.gov</u>); Bratcher, Mike, EMNRD < <u>mike.bratcher@state.nm.us</u>>

(mike.bratcher@state.nm.us); 'crystal.weaver@state.nm.us'

Cc: Cliff Brunson; Ken Swinney; Kathy Purvis; Casey Summers (casey_summers@Oxy.com);

'Jennifer_Hudgens@oxy.com'

Subject: MOC SWD 1

This is to inform you that Oxy Permian had a leak at the MOC SWD 0001. Oxy spilled 20 bbls of water. The preliminary report shows the leak measuring approximately 25' x 120' on location. The release is located in U/L K of Section 7, T20S, R25E of Eddy County, NM. BBC International will remediate the location at a later date and an initial C-141 will follow. Driving directions: From US285 and White Pine Rd, go 3.9 miles to MOC sign, turn right 0.5 mile to 'Y', turn left on Picket Rd west for 3.1 miles to MOC sign, turn right 1.4 miles, turn right 0.1 mile to dead end at location. API# 30-015-21669 GPS coordinates N 32.58641 W104.52663

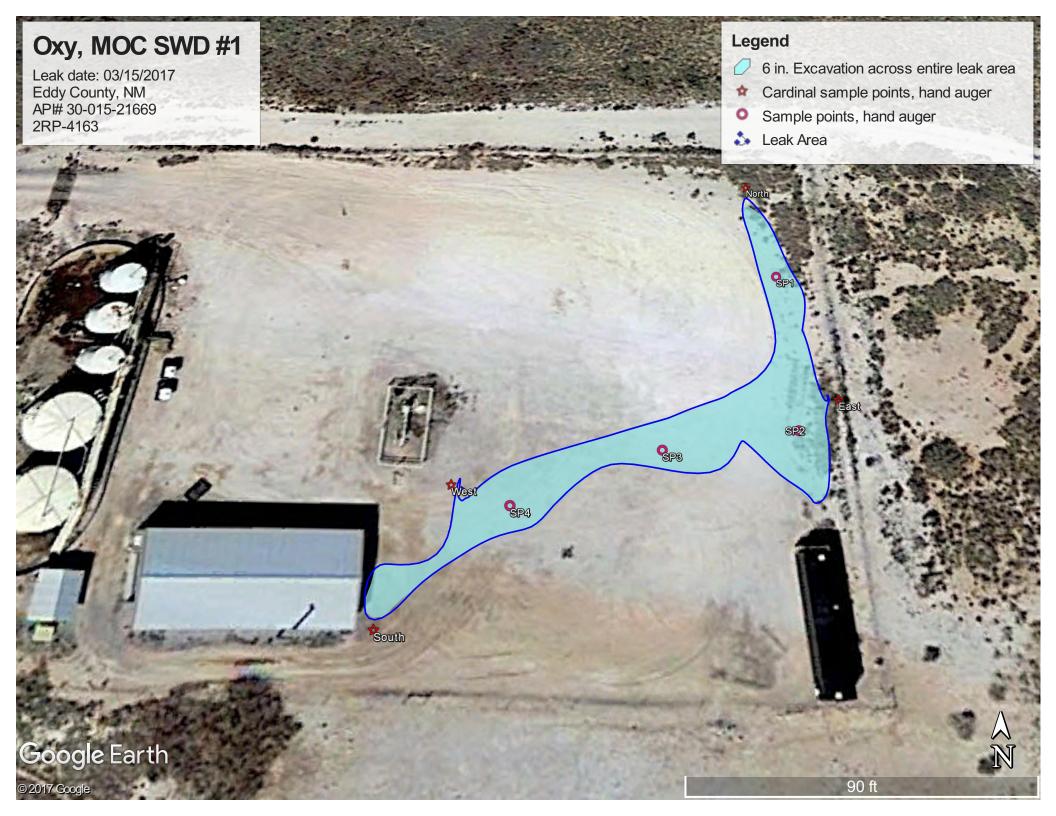
Jennifer Gilkey

Administrative Manager

BBC International, Inc. Phone: (575) 397-6388 Fax: (575) 397-0397

E-mail: jgilkey@bbcinternational.com

1324 W. Marland Blvd. Hobbs, NM 88240



Oxy, MOC SWD #1

Sample points, hand auger

SP1, N 32.58661 W-104.52629

SP2, N 32.58646 W-104.52629

SP3, N 32.58644 W-104.52643

SP4, N 32.58639 W-104.52657

NORTH, N 32.58671 W-104.52631

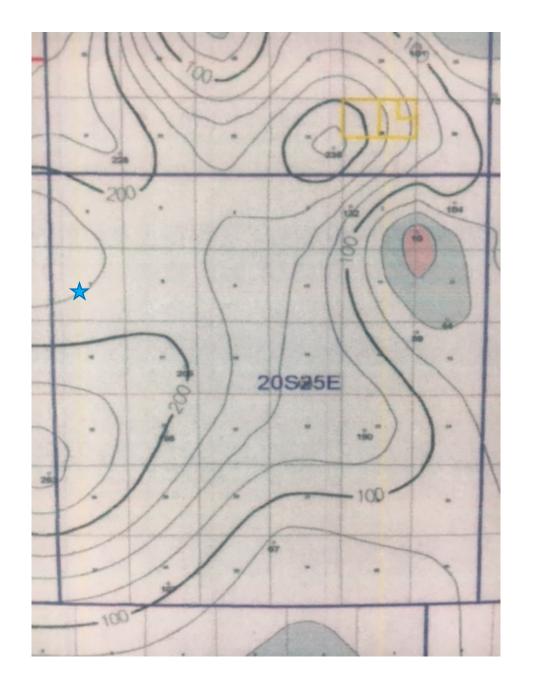
SOUTH, N 32.58629 W-104.52669

EAST, N 32.58648 W-104.52625

WEST, N 32.58641 W-104.52663

Oxy, MOC SWD #001 **U/L K, Section 7, T20S, R25E**

Groundwater: 175'





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned,

C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

 POD

 Sub Q Q Q
 Water

 POD Number
 Code
 basin
 County 64 16 4 Sec Tws Rng
 X
 Y
 DistanceDepthWellDepthWater Column

 RA 03265
 ED 1 2 3 08 20S 25E 545972 3605636*
 1540 150

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 544435 Northing (Y): 3605539 Radius: 1700

*UTM location was derived from PLSS - see Help

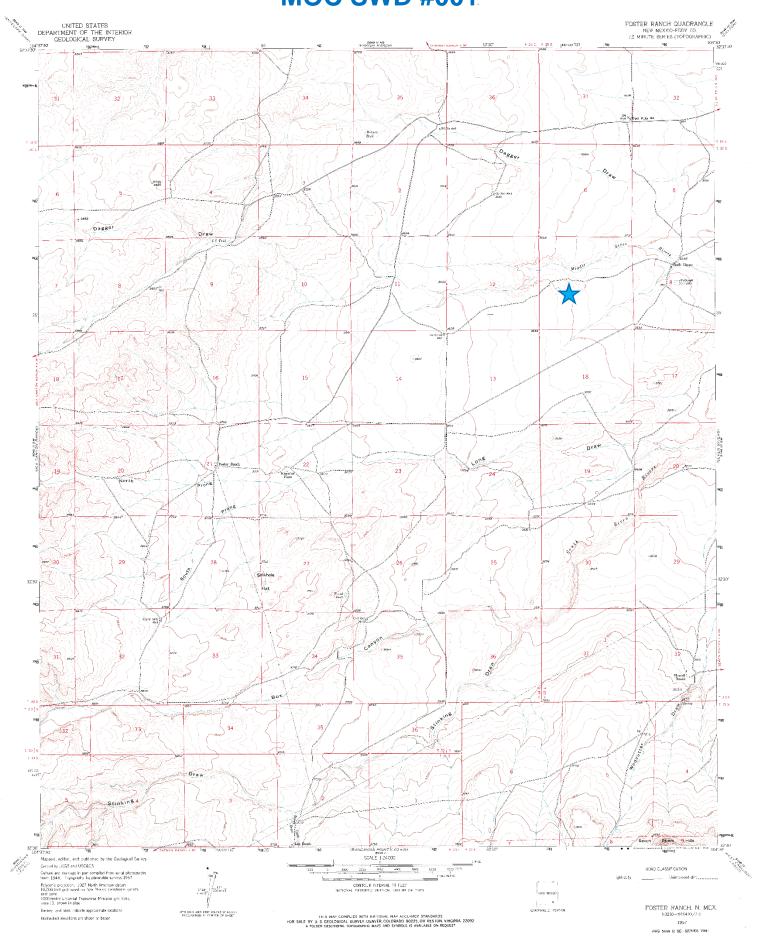
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/4/17 9:17 AM

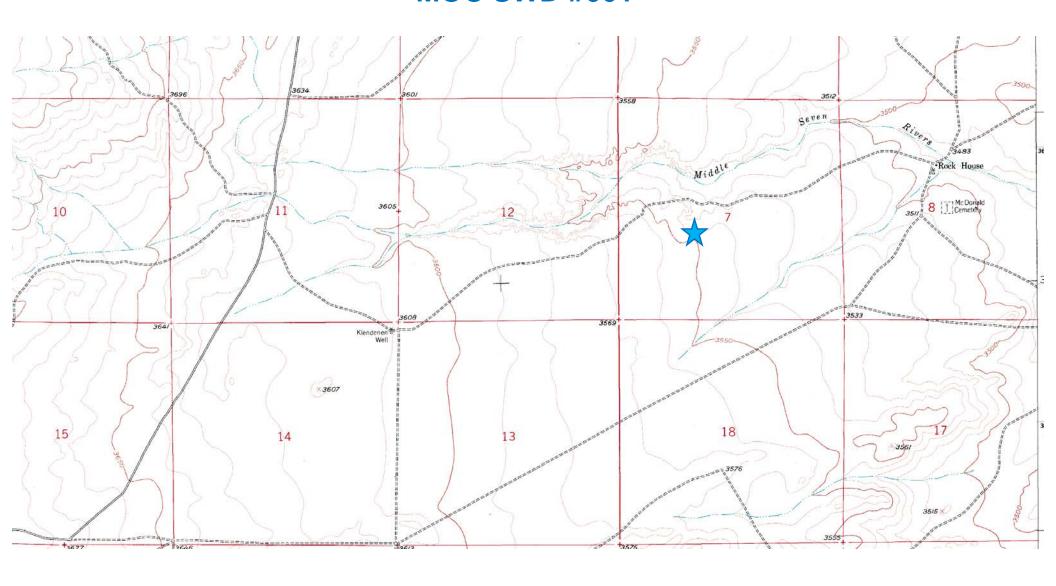
WATER COLUMN/ AVERAGE DEPTH TO WATER

Q64:	Public Land Survey System (PLSS) Q16: NE Q4: SW Sec: 07 Tws: 20S Rng: 25E						
X: ft	State Plane Coordinate System - NAD27 Y: ft Zone:						
X: ft	State Plane Coordinate System - NAD83 X: ft Y: ft Zone:						
Longitude (X): Latitude (Y):							
UTM - NAD27 Easting (X): mtrs Northing (Y): mtrs Zone:							
All Conversion Results are displayed as NAD 1983 UTM Zone 13 Easting (X): 544435.0 mtrs Northing (Y): 3605539.0 mtrs ~~ Please keep screen open to copy UTM values for Reports. ~~							

Oxy
MOC SWD #001



Oxy
MOC SWD #001



Laboratory Analytical Results Summary MOC SWD #1

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 8'
Analyte	Method	Date	4/7/17	4/7/17	4/7/17	4/7/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		< 0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		< 0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		< 0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		< 0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		400	592	80	48
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 8'
Analyte	Method	Date	4/7/17	4/7/17	4/7/17	4/7/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		720	416	96	16

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 8'
Analyte	Method	Date	4/7/17	4/7/17	4/7/17	4/7/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		< 0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		< 0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		< 0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		560	544	80	80
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 8'
Analyte	Method	Date	4/7/17	4/7/17	4/7/17	4/7/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		544	560	32	32

		Sample	NORTH @ SURFACE
Analyte	Method	Date	4/7/17
			mg/Kg
Chloride	SM4500CI-B		208

		Sample	EAST @ SURFACE
Analyte	Method	Date	4/7/17
			mg/Kg
Chloride	SM4500CI-B		208

		Sample	WEST @ SURFACE
Analyte	Method	Date	4/7/17
			mg/Kg
Chloride	SM4500CI-B		224

		Sample	SOUTH @ SURFACE
Analyte	Method	Date	4/7/17
			mg/Kg
Chloride	SM4500CI-B		224

Sum



April 13, 2017

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 04/10/17 11:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

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

04/07/2017



Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 04/10/2017 Sampling Date:

Reported:04/13/2017Sampling Type:SoilProject Name:MOC SWD #1Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Celey D. Keene

Project Location: INDIAN BASIN

Sample ID: SP1 @ 1 (H700946-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2017	ND	1.78	88.9	2.00	0.00	
Toluene*	<0.050	0.050	04/12/2017	ND	1.67	83.4	2.00	0.00	
Ethylbenzene*	<0.050	0.050	04/12/2017	ND	1.66	83.0	2.00	0.00	
Total Xylenes*	<0.150	0.150	04/12/2017	ND	4.69	78.1	6.00	0.00	
Total BTEX	<0.300	0.300	04/12/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7 9	% 72-148	?						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/12/2017	ND	432	108	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	04/11/2017	ND	194	96.8	200	2.14	
DRO >C10-C28	<10.0	10.0	04/11/2017	ND	200	100	200	3.91	
Surrogate: 1-Chlorooctane	89.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	90.4	% 34.7-15	7						

Sample ID: SP1 @ 2 (H700946-02)

Chloride, SM4500CI-B	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	04/12/2017	ND	432	108	400	3.64	

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: 04/10/2017 Sampling Date: 04/07/2017

Reported: 04/13/2017 Sampling Type: Soil

Project Name: MOC SWD #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: INDIAN BASIN

Sample ID: SP1 @ 3 (H700946-03)

Sample 1D: SP1 @ 3 (H/0	JU946-U3)								
Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/12/2017	ND	432	108	400	3.64	
Sample ID: SP1 @ 8 (H70	00946-04)								
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/12/2017	ND	432	108	400	3.64	

Sample ID: SP2 @ 1 (H700946-05)

Chloride, SM4500Cl-B				Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	04/12/2017	ND	432	108	400	3 64	

Sample ID: SP2 @ 2 (H700946-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	04/12/2017	ND	432	108	400	3.64	

Sample ID: SP2 @ 3 (H700946-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/12/2017	ND	432	108	400	3.64	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 04/10/2017 Sampling Date: 04/07/2017

Reported: 04/13/2017 Sampling Type: Soil

Project Name: MOC SWD #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: INDIAN BASIN

Sample ID: SP2 @ 8 (H700946-08)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/12/2017	ND	432	108	400	3.64	

Sample ID: SP3 @ 1 (H700946-09)

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	04/12/2017	ND	1.78	88.9	2.00	0.00	
Toluene*	<0.050	0.050	04/12/2017	ND	1.67	83.4	2.00	0.00	
Ethylbenzene*	<0.050	0.050	04/12/2017	ND	1.66	83.0	2.00	0.00	
Total Xylenes*	<0.150	0.150	04/12/2017	ND	4.69	78.1	6.00	0.00	
Total BTEX	<0.300	0.300	04/12/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 98.4 % 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	560	16.0	04/12/2017	ND	432	108	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	04/11/2017	ND	194	96.8	200	2.14	
	<10.0	10.0	04/11/2017	ND	200	100	200	3.91	

Surrogate: 1-Chlorooctane 86.9 % 28.3-164 Surrogate: 1-Chlorooctadecane 90.5 % 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:
 04/10/2017
 Sampling Date:
 04/07/2017

 Reported:
 04/13/2017
 Sampling Type:
 Soil

Project Name: MOC SWD #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: INDIAN BASIN

Sample ID: SP3 @ 2 (H700946-10)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	04/12/2017	ND	432	108	400	3.64	
Sample ID: SP3 @ 3 (H70	00946-11)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/12/2017	ND	432	108	400	3.64	
Sample ID: SP3 @ 8 (H70	00946-12)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/12/2017	ND	432	108	400	3.64	
Sample ID: SP4 @ 1 (H70	00946-13)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	04/12/2017	ND	432	108	400	3.64	
Sample ID: SP4 @ 2 (H70	00946-14)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	04/12/2017	ND	432	108	400	3.64	

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 04/10/2017 Sampling Date: 04/07/2017 Reported: 04/13/2017 Sampling Type: Soil

Project Name: MOC SWD #1 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Celey D. Keene

Project Location: INDIAN BASIN

Sample ID: SP4 @ 3 (H70	00946-15)								
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	04/12/2017	ND	448	112	400	0.00	
Sample ID: SP4 @ 8 (H70	00946-16)								
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	04/12/2017	ND	448	112	400	0.00	
Sample ID: N @ SUR (H7	00946-17)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/12/2017	ND	448	112	400	0.00	
Sample ID: E @ SUR (H7	00946-18)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/12/2017	ND	448	112	400	0.00	

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/12/2017	ND	448	112	400	0.00	

Sample ID: W @ SUR (H700946-19)

Chloride, SM4500CI-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	04/12/2017	ND	448	112	400	0.00	

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 04/10/2017 Sampling Date: 04/07/2017

Reported: 04/13/2017 Sampling Type: Soil

Project Name: MOC SWD #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: INDIAN BASIN

Sample ID: S @ SUR (H700946-20)

Chioride, SM4500CI-B	mg/	кд	Anaiyze	а ву: АС					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/12/2017	ND	448	112	400	0.00	

Cardinal Laboratories *=Accredited Analyte

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Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

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) 393-2476		ANALYSIS DECLIEST
company Name: BBC International, Inc.		ANALISIS REGOEST
	P.O. #:	
Address: P.O. Box 805	Company: UX	
State: N	41	
hone #: 575-397-6388 Fax #: 575-397-0397	7-0397 Address:	
Project #: Project Owner:	OXY City:	
Project Name: MOC SWD # /	State: Zip:	
Project Location: Merzn B25/N	Phone #:	
6	Fax #:	
	MATRIX PRESERV SAMPLING	72
Lab I.D. Sample I.D.	CONTAINERS GROUNDWATER WASTEWATER GOIL DIL GLUDGE DTHER: ACID/BASE: CE / COOL DTHER:	B. 7
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PLEASE NOTE: Liability and Damages. Cardina's liability and client sexclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the PLEASE NOTE: Liability and Damages. Cardina's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the applicable 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 analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless ingertuptions, loss of use, or loss of profits incurred by client, its subsidiaries,	aim arising whether based in contract or tort, shall be limited to the amount paid by the client for the ned waived unless made in writing and received by Cardinal within 30 days after completion of the all out limitation, business inferruptions, loss of use, or loss of profits incurred by client, its subsidiaries	nt for the notice the control of the applicable before the control of the applicable before the control of the
affiliates or successors arising out of or related to the performance of services hereunder by Card Relinquished By: Daty Daty	such claim is based upon any of the above stated reas	Phone Result: Yes No Add'I Phone #: Fax Result: Yes No Add'I Fax #:
17077 Time: 22 Date:	Received By:	183
Time:	0	
Delivered By: (Circle One)	Sample Condition CHECKED BY: Cool Intact Cool Intact Cool Intact	
Sampler - UPS - Bus - Other: ~// (No No W # 1	

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

P.O. #:	Project Manager: Cliff Brunson
BILLIO	Company Name: BBC International, Inc.
	(505) 393-2326 FAX (505) 393-2476
	101 East Marland, Hobbs, NM 88240
	ARDINAL LABORATORIES
CHAIN	主

(303) 33-2320 1 701 (300) 300 =		ANALYSIS RECIJEST
ompany Name: BBC International, Inc.	BILL 10	
roject Manager: Cliff Brunson	P.O. #	
ddress: P.O. Box 805	Company: U.S	<u></u>
State: N	Zip: 88241 Attn:	well
5-397-6388 Fax #:	575-397-0397 Address:	
Project #: Project Owner:	UXV City:	
Project Name: MOC Sab #	State: Zip:	
roject Location: Indian B25/1	Phone #:	
0	1	2/
FOR LAB USE ONLY	MATRIX PRESERV.	SAMPLING C A
Lab I.D. Sample I.D.	G)RAB OR (C)O CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE DTHER: ACID/BASE: ICE / COOL OTHER:	TE TIME
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PLEASE NOTE: Liability and Damages. Cardinal's liability and clerit's exclusive remedy for any claim arising whether bases in contract or lort, shall	my claim arising whether based in contract or tort, shall be limited to the am	initial to the amount paid by the client for the mount paid by the client for the amount paid by the client for the applicable within 30 days after completion of the applicable
analyses. All claims including those for hegigence and any new cases interested in the control of the control o	without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substitaires ardinal, regardless of whether such claim is based upon any of the above stated reasons of otherwise.	1 Vac
	Time: >> 7 Received By:	Fax Result:
Relinquished By: Time:	Received By:	
	Sample Condition CHECKED BY: Cool Intact (Initials)	
Sampler - UPS - Bus - Other:		

From: Bratcher, Mike, EMNRD

To: Cliff Brunson; Shelly Tucker

Cc: Wade Dittrich; Jennifer Smith@oxy.com; Weaver, Crystal, EMNRD; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject: RE: OXY MOC SWD #1 (2RP-4163) - Delineation Workplan

Date: Thursday, September 21, 2017 9:53:48 AM

RE: OXY USA * MOC SWD 1 * 2RP-4163 * DOR: 3/15/17

Cliff,

Your proposal for remediation of the above referenced release is approved. Federal sites will require like approval from BLM. Please advise once remedial activities have been scheduled.

Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210 575~748~1283 Ext 108

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Thursday, September 14, 2017 6:53 PM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Shelly Tucker <stucker@blm.gov> **Cc:** Wade Dittrich <Wade_Dittrich@oxy.com>; Jennifer_Smith@oxy.com; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>

Subject: OXY MOC SWD #1 (2RP-4163) - Delineation Workplan

Mike and Shelly,

Please find the attached Delineation Workplan and remediation proposal for the OXY MOC SWD #1 (2RP-4163). OXY is requesting that you review this plan and is looking forward to both the OCD's and BLM's approval. Mike, this plan is one we discussed recently.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland St. Hobbs, NM 88240 USA Phone: (575) 397-6388

Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com



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From: Tucker, Shelly
To: Bratcher, Mike, EMNRD

Cc: Cliff Brunson; Wade Dittrich; Jennifer Smith@oxy.com; Weaver, Crystal, EMNRD; Ken Swinney; Jennifer Gilkey;

Kathy Purvis

Subject: Re: OXY MOC SWD #1 (2RP-4163) - Delineation Workplan

Date: Tuesday, October 3, 2017 4:24:59 PM

BLM concurs with NMOCD approval.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist O&G Spill/Release Coordinator

Bureau of Land Management 620 E. Greene St Carlsbad, NM 88220

575.234.5905 - Direct 575.361.0084 - Cellular 575.234.6235 - Emergency Spill Number

stucker@blm.gov

The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

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On Thu, Sep 21, 2017 at 9:53 AM, Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us > wrote:

RE: OXY USA * MOC SWD 1 * 2RP-4163 * DOR: 3/15/17

Cliff,

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Mike Bratcher

NMOCD District 2

811 South First Street

Artesia, NM 88210

575~748~1283 Ext 108

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From: Cliff Brunson [mailto:<u>cbrunson@bbcinternational.com</u>]

Sent: Thursday, September 14, 2017 6:53 PM

To: Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>; Shelly Tucker

<stucker@blm.gov>

Cc: Wade Dittrich < Wade Dittrich@oxy.com; Jennifer Smith@oxy.com; Weaver,

Crystal, EMNRD < Crystal. Weaver@state.nm.us >; Ken Swinney

kswinney@bbcinternational.com; Jennifer Gilkey < igilkey@bbcinternational.com;

Kathy Purvis < kathy@bbcinternational.com>

Subject: OXY MOC SWD #1 (2RP-4163) - Delineation Workplan

Mike and Shelly,

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If you have any questio	ns, please let me know.
-------------------------	-------------------------

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

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P. O. Box 805

Hobbs, NM 88241-0805 USA

Shipping Address:

1324 W. Marland St.

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