



OXY – SDS 11 FEDERAL #1 SWD (8/17/16)

REMEDIATION PLAN

OXY will excavate the spill area as depicted on the following site diagram. The leak area around SP1 – SP10 will require no remedial activities. The leak area around SP11 will be excavated to a depth of 2 feet and the area around SP12 will be excavated to a depth of 1.5 feet. The leak area around SP13 will be excavated to a depth of 3.5 feet and the areas around SP14, SP18, and SP19 will be excavated to a depth of 1 foot. The area around SP15 – SP17 will require no remedial activities. The entire site will then be backfilled with clean soil.

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



Oxy

SDS 11 Federal #1 SWD 08/17/16)

BBC International, Inc.

Oxy

SDS 11 Federal #1 SWD

Date: 11/09/2016

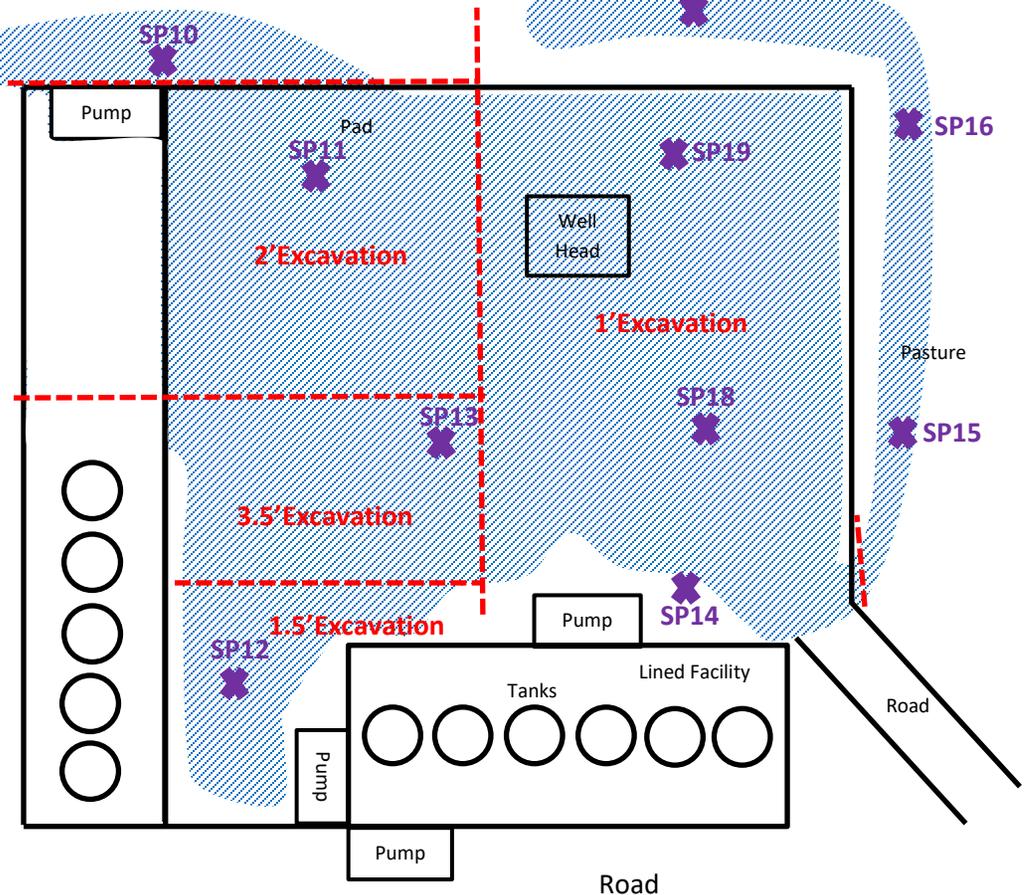
DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2016

No remedial activities required

No remedial activities required



U/L F, Section 11, T24S, R31E

Eddy County, NM

N 32.23328° W 103.75035°

API# 30-015-27627



Groundwater Plot

Oxy SDS 11 Federal #1 SWD

County
Eddy

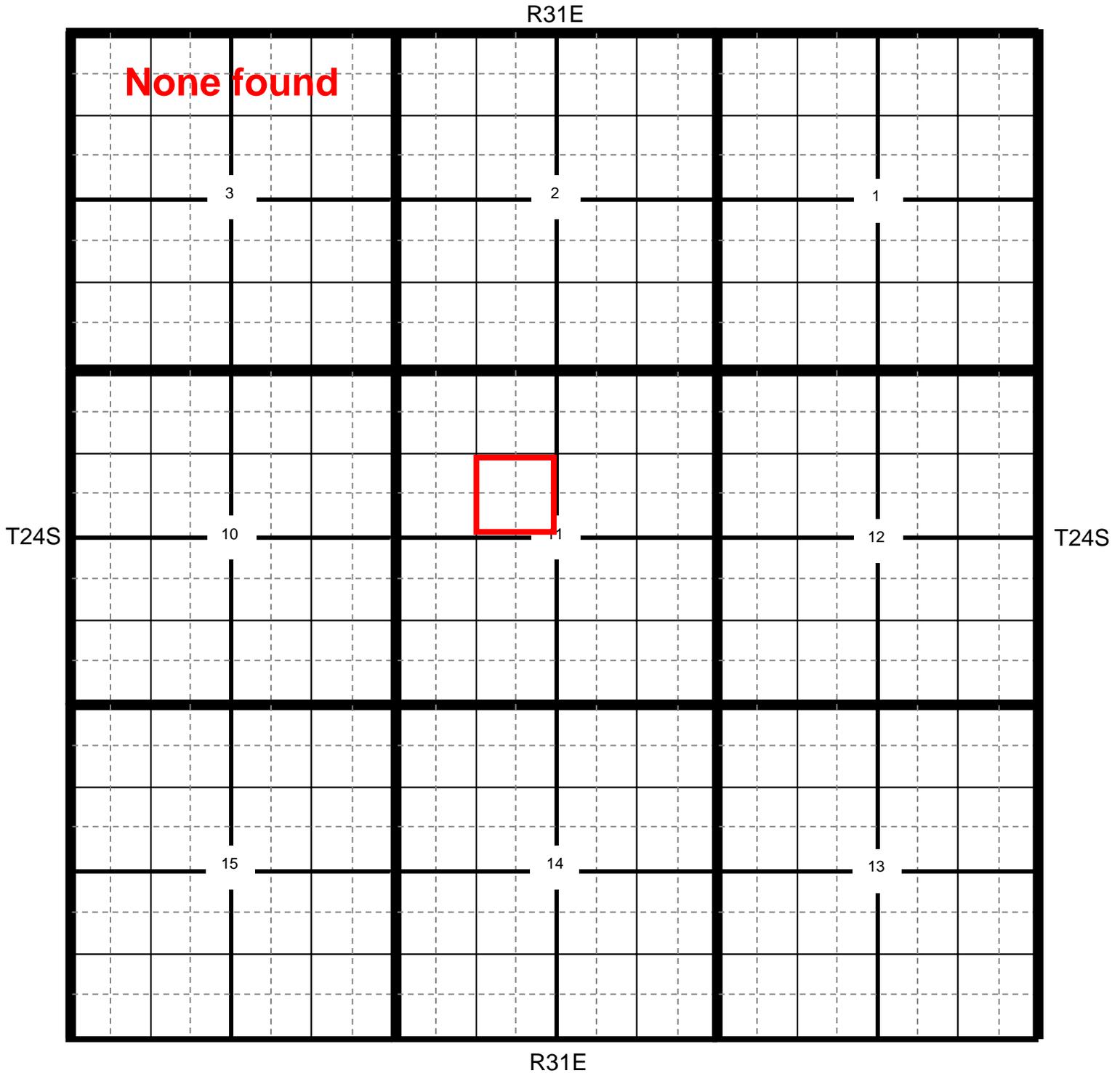
Unit Letter
F

Section
11

Township
24S

Range
31E

Trend Map 350'



📍 Location

● OCD

● USGS

● SEO

● All Databases

Oxy SDS 11 Federal #1 SWD

County Eddy Unit Letter F Section 11 Township T24S Range R31E

Trend Map 350'

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
SDS 11 Federal #1 SWD

Analyte	Method	Sample	SP1 @ SURFACE	SP1 @ 1'
			11/2/16	11/2/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a
Toluene	BTEX 8021B		<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	n/a
Chloride	SM4500Cl-B		48	80
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a

Analyte	Method	Sample	SP7 @ SURFACE	SP7 @ 1'
			11/2/16	11/2/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a
Toluene	BTEX 8021B		<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	n/a
Chloride	SM4500Cl-B		<16.0	32
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a

Analyte	Method	Sample	SP13 @ SURFACE	SP13 @ 1'	SP13 @ 3'	SP13 @ 4'
			11/3/16	11/3/16	11/9/16	11/9/16
			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	SM4500Cl-B		272	4960	12300	<16.0
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a

Analyte	Method	Sample	SP2 @ SURFACE	SP2 @ 1'
			11/2/16	11/2/16
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		32	<16.0

Analyte	Method	Sample	SP8 @ SURFACE	SP8 @ 1'
			11/2/16	11/2/16
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		<16.0	<16.0

Analyte	Method	Sample	SP14 @ SURFACE	SP14 @ 1'	SP14 @ 2'
			11/3/16	11/3/16	11/9/16
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		320	4800	<16.0

Analyte	Method	Sample	SP3 @ SURFACE	SP3 @ 1'
			11/2/16	11/2/16
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		<16.0	<16.0

Analyte	Method	Sample	SP9 @ SURFACE	SP9 @ 1'
			11/2/16	11/2/16
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		<16.0	<16.0

Analyte	Method	Sample	SP15 @ SURFACE	SP15 @ 1'
			11/3/16	11/3/16
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		32	<16.0

Analyte	Method	Sample	SP4 @ SURFACE	SP4 @ 1'
			11/2/16	11/2/16
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		<16.0	<16.0

Analyte	Method	Sample	SP10 @ SURFACE	SP10 @ 1'
			11/3/16	11/3/16
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		48	48

Analyte	Method	Sample	SP16 @ SURFACE	SP16 @ 1'
			11/3/16	11/3/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a
Toluene	BTEX 8021B		<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	n/a
Chloride	SM4500Cl-B		<16.0	<16.0
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a

Analyte	Method	Sample	SP5 @ SURFACE	SP5 @ 1'
			11/2/16	11/2/16
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		256	<16.0

Analyte	Method	Sample	SP11 @ SURFACE	SP11 @ 1'	SP11 @ 4'	SP11 @ 5'
			11/3/16	11/3/16	11/9/16	11/9/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		304	6130	320	96

Analyte	Method	Sample	SP6 @ SURFACE	SP6 @ 1'
			11/2/16	11/2/16
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		48	<16.0

Analyte	Method	Sample	SP12 @ SURFACE	SP12 @ 1'	SP12 @ 2'
			11/3/16	11/3/16	11/9/16
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		208	5760	80

Analyte	Method	Sample	SP17 @ SURFACE	SP17 @ 1'
			11/3/16	11/3/16
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		<16.0	<16.0

Analyte	Method	Sample	SP18 @ SURFACE	SP18 @ 1'	SP18 @ 2'
			11/4/16	11/4/16	11/9/16
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		1280	3680	<16.0

Analyte	Method	Sample	SP19 @ SURFACE	SP19 @ 1'	SP19 @ 2'
			11/4/16	11/4/16	11/9/16
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		1460	4240	32



November 16, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SDS 11 FEDERAL #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 11/11/16 8:20.

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/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:	11/11/2016	Sampling Date:	11/02/2016
Reported:	11/16/2016	Sampling Type:	Soil
Project Name:	SDS 11 FEDERAL #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ SURFACE (H602537-01)

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	11/15/2016	ND	1.82	90.8	2.00	0.868	
Toluene*	<0.050	0.050	11/15/2016	ND	1.86	92.8	2.00	0.962	
Ethylbenzene*	<0.050	0.050	11/15/2016	ND	1.80	89.8	2.00	1.43	
Total Xylenes*	<0.150	0.150	11/15/2016	ND	5.46	91.0	6.00	1.73	
Total BTEX	<0.300	0.300	11/15/2016	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/15/2016	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	11/11/2016	ND	190	94.8	200	5.13	
DRO >C10-C28	<10.0	10.0	11/11/2016	ND	200	99.8	200	4.45	

Surrogate: 1-Chlorooctane 95.4 % 35-147
Surrogate: 1-Chlorooctadecane 99.6 % 28-171
Sample ID: SP 1 @ 1' (H602537-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/15/2016	ND	400	100	400	3.92	

Cardinal Laboratories

*=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:	11/11/2016	Sampling Date:	11/02/2016
Reported:	11/16/2016	Sampling Type:	Soil
Project Name:	SDS 11 FEDERAL #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ SURFACE (H602537-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 2 @ 1' (H602537-04)

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	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 3 @ SURFACE (H602537-05)

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	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 3 @ 1' (H602537-06)

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	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 4 @ SURFACE (H602537-07)

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	11/15/2016	ND	400	100	400	3.92	

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 Fax To: (575) 397-0397

Received:	11/11/2016	Sampling Date:	11/02/2016
Reported:	11/16/2016	Sampling Type:	Soil
Project Name:	SDS 11 FEDERAL #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 1' (H602537-08)

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	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 5 @ SURFACE (H602537-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 5 @ 1' (H602537-10)

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	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 6 @ SURFACE (H602537-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 6 @ 1' (H602537-12)

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	11/15/2016	ND	400	100	400	3.92	

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Received:	11/11/2016	Sampling Date:	11/02/2016
Reported:	11/16/2016	Sampling Type:	Soil
Project Name:	SDS 11 FEDERAL #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ SURFACE (H602537-13)

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	11/15/2016	ND	1.82	90.8	2.00	0.868		
Toluene*	<0.050	0.050	11/15/2016	ND	1.86	92.8	2.00	0.962		
Ethylbenzene*	<0.050	0.050	11/15/2016	ND	1.80	89.8	2.00	1.43		
Total Xylenes*	<0.150	0.150	11/15/2016	ND	5.46	91.0	6.00	1.73		
Total BTEX	<0.300	0.300	11/15/2016	ND						

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

Chloride, SM4500CI-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	11/15/2016	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	11/14/2016	ND	174	87.1	200	1.22		
DRO >C10-C28	<10.0	10.0	11/14/2016	ND	187	93.7	200	2.72		

Surrogate: 1-Chlorooctane 97.5 % 35-147
Surrogate: 1-Chlorooctadecane 111 % 28-171
Sample ID: SP 7 @ 1' (H602537-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/15/2016	ND	400	100	400	3.92		

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Received:	11/11/2016	Sampling Date:	11/02/2016
Reported:	11/16/2016	Sampling Type:	Soil
Project Name:	SDS 11 FEDERAL #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ SURFACE (H602537-15)

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	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 8 @ 1' (H602537-16)

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	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 9 @ SURFACE (H602537-17)

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	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 9 @ 1' (H602537-18)

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	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 10 @ SURFACE (H602537-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/15/2016	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/11/2016	Sampling Date:	11/03/2016
Reported:	11/16/2016	Sampling Type:	Soil
Project Name:	SDS 11 FEDERAL #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 10 @ 1' (H602537-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 11 @ SURFACE (H602537-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 11 @ 1' (H602537-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6130	16.0	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 12 @ SURFACE (H602537-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 12 @ 1' (H602537-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	11/15/2016	ND	400	100	400	3.92	

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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:	11/11/2016	Sampling Date:	11/03/2016
Reported:	11/16/2016	Sampling Type:	Soil
Project Name:	SDS 11 FEDERAL #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 13 @ SURFACE (H602537-25)

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	11/15/2016	ND	1.82	90.8	2.00	0.868	
Toluene*	<0.050	0.050	11/15/2016	ND	1.86	92.8	2.00	0.962	
Ethylbenzene*	<0.050	0.050	11/15/2016	ND	1.80	89.8	2.00	1.43	
Total Xylenes*	<0.150	0.150	11/15/2016	ND	5.46	91.0	6.00	1.73	
Total BTEX	<0.300	0.300	11/15/2016	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/15/2016	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	11/14/2016	ND	174	87.1	200	1.22	
DRO >C10-C28	<10.0	10.0	11/14/2016	ND	187	93.7	200	2.72	

Surrogate: 1-Chlorooctane 84.1 % 35-147

Surrogate: 1-Chlorooctadecane 88.1 % 28-171

Sample ID: SP 13 @ 1' (H602537-26)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	11/15/2016	ND	400	100	400	3.92	

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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:	11/11/2016	Sampling Date:	11/03/2016
Reported:	11/16/2016	Sampling Type:	Soil
Project Name:	SDS 11 FEDERAL #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 14 @ SURFACE (H602537-27)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 14 @ 1' (H602537-28)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 15 @ SURFACE (H602537-29)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 15 @ 1' (H602537-30)

Chloride, SM4500CI-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	11/15/2016	ND	400	100	400	3.92	

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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:	11/11/2016	Sampling Date:	11/03/2016
Reported:	11/16/2016	Sampling Type:	Soil
Project Name:	SDS 11 FEDERAL #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 16 @ SURFACE (H602537-31)

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	11/15/2016	ND	1.82	90.8	2.00	0.868	
Toluene*	<0.050	0.050	11/15/2016	ND	1.86	92.8	2.00	0.962	
Ethylbenzene*	<0.050	0.050	11/15/2016	ND	1.80	89.8	2.00	1.43	
Total Xylenes*	<0.150	0.150	11/15/2016	ND	5.46	91.0	6.00	1.73	
Total BTEX	<0.300	0.300	11/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

Chloride, SM4500CI-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	11/15/2016	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	11/14/2016	ND	174	87.1	200	1.22	
DRO >C10-C28	<10.0	10.0	11/14/2016	ND	187	93.7	200	2.72	

Surrogate: 1-Chlorooctane 96.1 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

Sample ID: SP 16 @ 1' (H602537-32)

Chloride, SM4500CI-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	11/15/2016	ND	400	100	400	3.92	

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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:	11/11/2016	Sampling Date:	11/03/2016
Reported:	11/16/2016	Sampling Type:	Soil
Project Name:	SDS 11 FEDERAL #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 17 @ SURFACE (H602537-33)

Chloride, SM4500CI-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	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 17 @ 1' (H602537-34)

Chloride, SM4500CI-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	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 18 @ SURFACE (H602537-35)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 18 @ 1' (H602537-36)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 19 @ SURFACE (H602537-37)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	11/15/2016	ND	416	104	400	0.00	

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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:	11/11/2016	Sampling Date:	11/04/2016
Reported:	11/16/2016	Sampling Type:	Soil
Project Name:	SDS 11 FEDERAL #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 19 @ 1' (H602537-38)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 11 @ 4' (H602537-39)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/15/2016	ND	400	100	400	3.92	

Sample ID: SP 11 @ 5' (H602537-40)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/15/2016	ND	416	104	400	0.00	

Sample ID: SP 12 @ 2' (H602537-41)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/15/2016	ND	416	104	400	0.00	

Sample ID: SP 13 @ 3' (H602537-42)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12300	16.0	11/15/2016	ND	416	104	400	0.00	

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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:	11/11/2016	Sampling Date:	11/09/2016
Reported:	11/16/2016	Sampling Type:	Soil
Project Name:	SDS 11 FEDERAL #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 13 @ 4' (H602537-43)

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	11/15/2016	ND	416	104	400	0.00	

Sample ID: SP 14 @ 2' (H602537-44)

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	11/15/2016	ND	416	104	400	0.00	

Sample ID: SP 18 @ 2' (H602537-45)

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	11/15/2016	ND	416	104	400	0.00	

Sample ID: SP 19 @ 2' (H602537-46)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/15/2016	ND	416	104	400	0.00	

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





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1095

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST							
Project Manager: Cliff Brunson		P.O. #:									
Address: P.O. Box 805		Company:		OKY							
City: Hobbs		Attn:									
State: NM Zip: 88241		Address:									
Phone #: 575-397-6388		City:									
Fax #: 575-397-0397		State:									
Project #: 11		Zip:									
Project Owner: OKY		Phone #:									
Project Name: *SOS FEDERAL # 1510		Fax #:									
Project Location:											
Sampler Name: ROGER HERNANDEZ											
FOR LAB USE ONLY											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	TPH	BTEX	CHLORIDE
H1002546	SP10 SURFACE		1	GROUNDWATER			11/2/16	1120	✓	✓	✓
	SP20 SURFACE		1	WASTEWATER			11/2/16	1135	✓	✓	✓
	SP30 SURFACE		1	SOIL			11/2/16	1145	✓	✓	✓
	SP40 SURFACE		1	OIL			11/2/16	1200	✓	✓	✓
	SP50 SURFACE		1	SLUDGE			11/2/16	1210	✓	✓	✓
	SP60 SURFACE		1	OTHER :			11/2/16	1220	✓	✓	✓
	SP70 SURFACE		1	ACID/BASE:			11/2/16	1231	✓	✓	✓
	SP80 SURFACE		1	ICE / COOL			11/2/16	1240	✓	✓	✓
	SP90 SURFACE		1	OTHER :			11/2/16	1250	✓	✓	✓
	SP10 SURFACE		1				11/2/16	1257	✓	✓	✓

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Relinquished By: Roger Hernandez
 Date: 11/10/16
 Time: 8:00
 Received By: Cliff Brunson

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: -910 #75

Sample Condition
 Cool Intact
 Yes No

CHECKED BY: [Signature]

REMARKS: *Project name corrected. 11/16/16 ck

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

288

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241 Phone #: 575-397-6388 Fax #: 575-397-0397 Project #: Project Owner: OKY Project Name: SDS // FEDERAL # 1 SWP Project Location: Sample Name: RAQUEL HERNANDEZ FOR LAB USE ONLY		P.O. #: Company: OKY Attn: Address: City: State: Zip: Phone #: Fax #:		
Lab I.D. Sample I.D. H602536 11 SP6 @ SURFACE 12 SP5 @ SURFACE 13 SP5 @ SURFACE 14 SP8 @ SURFACE 15 SP8 @ SURFACE 16 SP9 @ SURFACE 17 SP9 @ SURFACE 18 SP10 @ SURFACE 19 SP10 @ SURFACE 20	(G)RAB OR (C)OMP.	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	PRESERV DATE TIME	ANALYSIS REQUEST TPH BTEX CHLORIDE
	# CONTAINERS			
	DATE			
	TIME			
	DATE			
	TIME			
	DATE			
	TIME			
	DATE			
	TIME			

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Relinquished By: *Raque Hernandez* Date: 11-10-16 Received By: *Wade Johnson* Time: Add'l Phone #: Add'l Fax #:

Delivered By: (Circle One) Sampler - UPS - Bus - Other: -9.10 #75 Sample Condition: Cool Intact Yes No No CHECKED BY: *[Signature]*

REMARKS:

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



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 (505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

495

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.
 Project Manager: Cliff Brunson
 Address: P.O. Box 805
 City: Hobbs State: NM Zip: 88241
 Phone #: 575-397-6388 Fax #: 575-397-0397
 Project #: Project Owner: OKY
 Project Name: SDS 11 FEDERAL # 1542
 Project Location:
 Sampler Name: ROGER HELMANN
 FOR LAB USE ONLY

P.O. #: Company: OKY
 Attn: Address:
 City: State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV			DATE	TIME	TPH	BTEX	CHLORIDE
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL					
HO0546	SP16 @ SURFACE		1									11/3/16	2:11	✓	✓	✓
31	SP17 @ SURFACE		1									11/3/16	2:22	✓	✓	✓
32	SP18 @ SURFACE		1									11/3/16	2:31	✓	✓	✓
33	SP19 @ SURFACE		1									11/3/16	2:39	✓	✓	✓
34	SP18 @ SURFACE		1									11/4/16	1:30	✓	✓	✓
35	SP18 @ SURFACE		1									11/4/16	1:46	✓	✓	✓
36	SP19 @ SURFACE		1									11/4/16	1:50	✓	✓	✓
37	SP19 @ SURFACE		1									11/4/16	1:56	✓	✓	✓
38	SP11 @ 4'		1									11/4/16	1:55	✓	✓	✓
39	SP11 @ 4'		1									11/4/16	1:50	✓	✓	✓
40	SP11 @ 4'		1									11/4/16	1:50	✓	✓	✓

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 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 hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Roger Helmann
 Date: 11/16/16
 Time: 8:10
 Received By: Addi Henderson
 Date: 11/16/16
 Time:
 Delivered By: (Circle One) UPS - Bus - Other: -A.P.C. #75
 Sample Condition: Cool Intact
 Yes No
 Checked By: (Initials) AH
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS:

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

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

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	SDS 11 Federal #1 SWD	Facility Type	SWD
Surface Owner	BLM	Mineral Owner	API No. 30-015-27627

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	11	24S	31E					Eddy

Latitude N 32.23328° Longitude W 103.75060°

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	1100 bbls	Volume Recovered	900 bbls
Source of Release	Faulty transfer pump on piping	Date and Hour of Occurrence	08/17/16	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	08/17/2016 @ 4:46 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.*

A faulty transfer pump on the piping caused a leak of 1100 bbls of produced water to leak both on and off location. A vacuum truck recovered 900 bbls of produced water and the pump was repaired/replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 750' x 200' both on and off location. Remediation will be completed in accordance with the 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: 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: <u>8-31-16</u> Phone: (575) 513-8289			

* Attach Additional Sheets If Necessary