

**Bratcher, Mike, EMNRD**

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**From:** Cliff P. Brunson <cbrunson@bbcinternational.com>  
**Sent:** Saturday, September 21, 2013 3:46 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-Lost Tank 3 Federal #14-Remediation Plan  
**Attachments:** Remediation Packet- Lost Tank 3-14.pdf

Mike,

This e-mail is to confirm our conversation the other day about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate the leak area to the northeast of the well head as depicted on the site diagram and represented by SP1 to a depth of 2-3 feet or as practicable. In the area on the western portion of the well pad represented by SP2 and SP3 as depicted on the diagram, the excavation will be to a depth of 1 foot. The area off the well pad to the west represented by sample points SP4 and SP5 will be excavated to a depth of 2 feet. All excavated areas will be backfilled with the appropriate type of clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated.

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  
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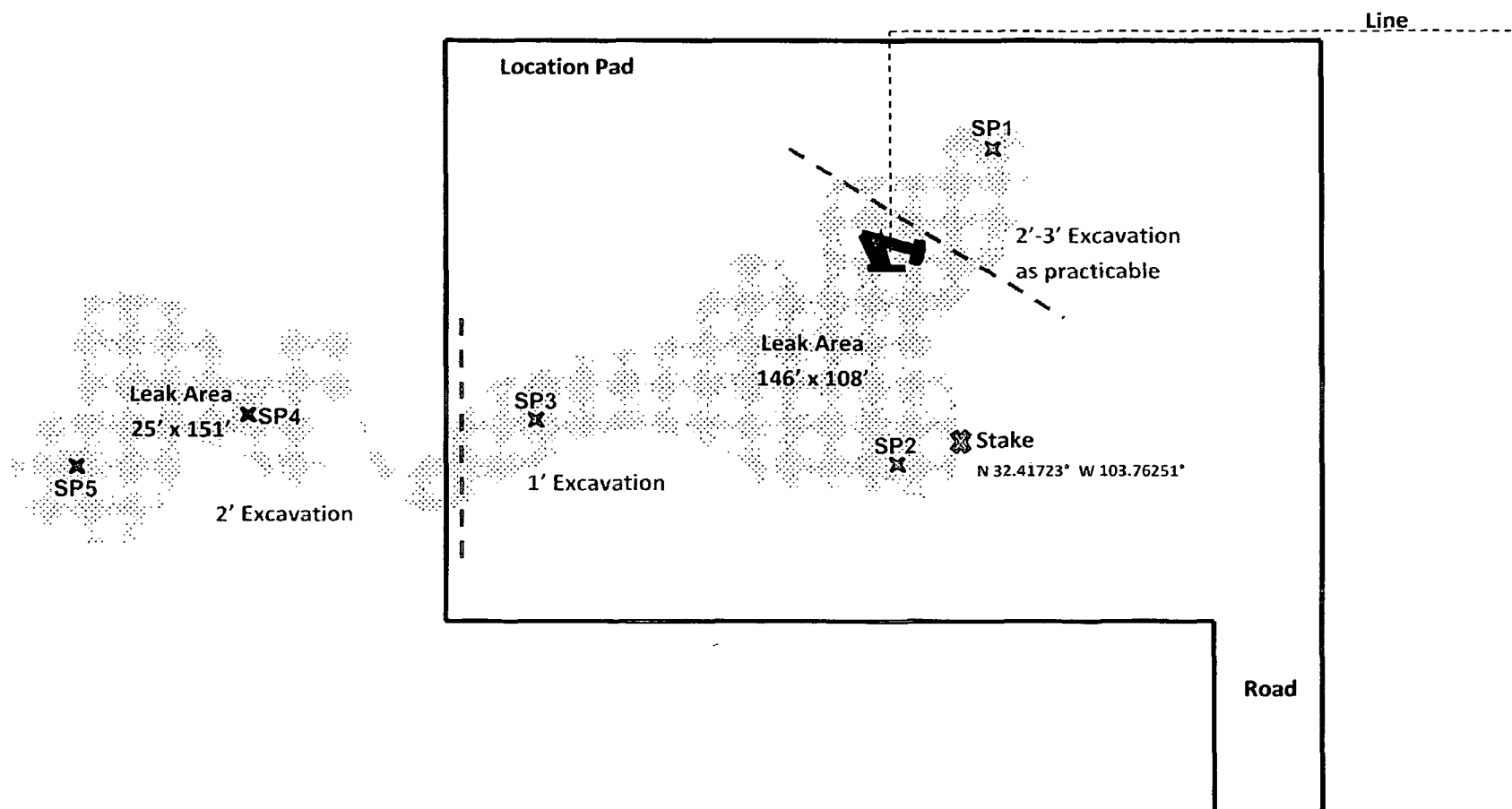
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Oxy  
Lost Tank 3 Federal #14



U/L J, Section 3, T22S, R31E  
1450' FSL, 1700' FEL  
Eddy County, NM  
API# 30-015-37918

BBC International, Inc.

Oxy  
Lost Tank 3 Federal #14

Date: 06/24/2013	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2013



# Groundwater Plot

## Oxy Lost Tank 3 Federal #14

County  
Eddy

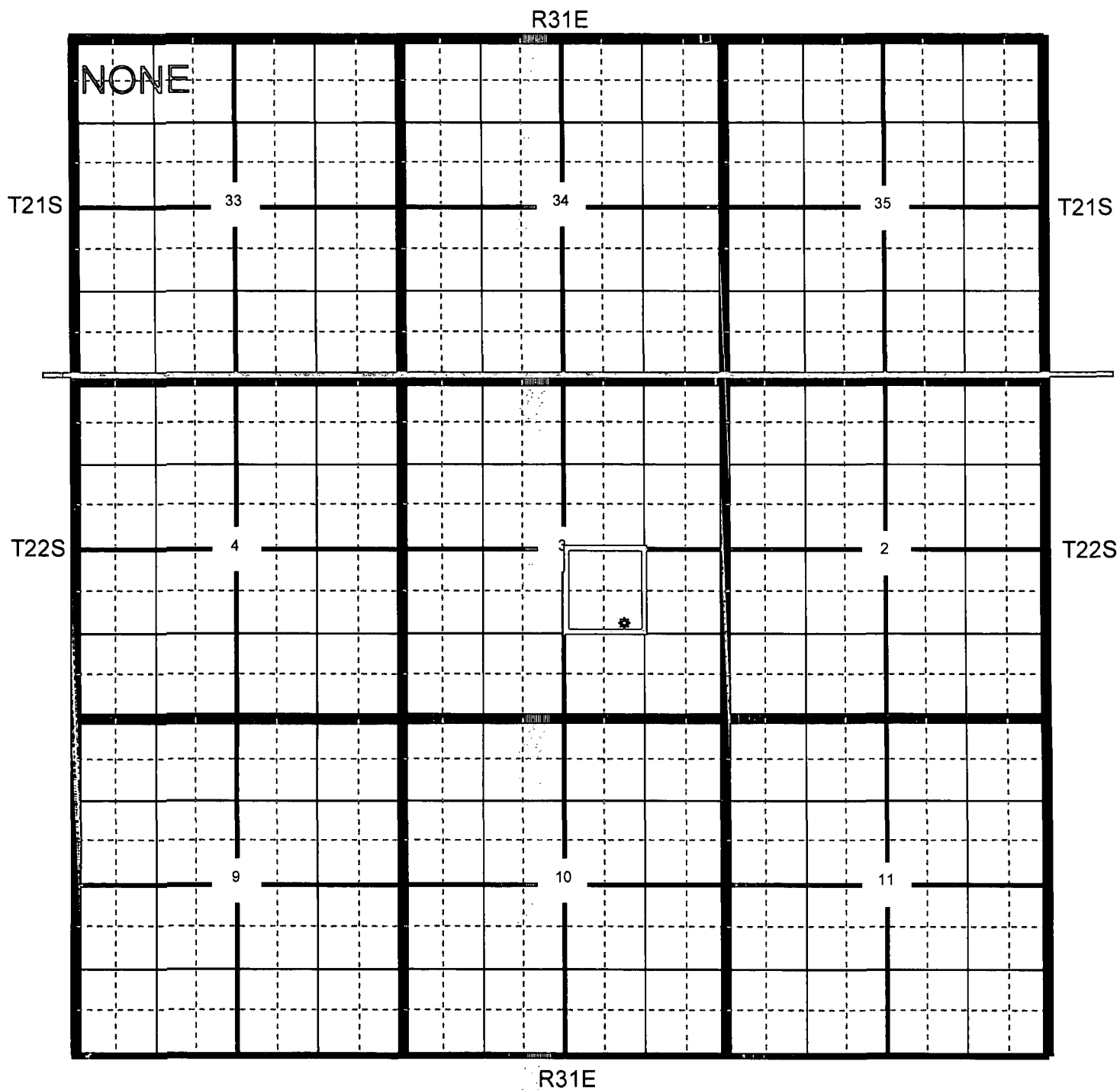
Unit Letter  
J

Section  
3

Township  
22S

Range  
31E

Trend Map 150'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases



## Section Quarters

### Oxy Lost Tank 3 Federal #14

**County** Eddy      **Unit Letter** J      **Section** 3      **Township** 22S      **Range** 31E

Trend Map 150'

1

2

NW/NW NONE	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 Unit Letter J	NE/SE
Unit Letter L	Unit Letter K	Unit Letter I	Unit Letter H
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

☼ Location      ○ OCD      ○ USGS      ○ SEO      ● All Databases

**Laboratory Analytical Results Summary  
Lost Tank 3 Federal #14**

		Sample	SP1 @ SURFACE	SP1 @ 2'	SP1 @ 4'	SP1 @ 6'	SP1 @ 7'
Analyte	Method	Date	7/1/13	7/1/13	7/1/13	7/1/13	7/1/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		4160	6660	3920	880	416
GRO	TPH 8015M		<50.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		2320	<10.0	n/a	n/a	n/a

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	7/1/13	7/1/13	7/1/13	7/1/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		32,000	448	48	<16.0

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	7/1/13	7/1/13	7/1/13	7/1/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	<0.050	n/a
Toluene	BTEX 8021B		<0.050	n/a	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	<0.300	n/a
Chloride	SM4500Cl-B		63,200	896	16	176
GRO	TPH 8015M		<10.0	n/a	<10.0	n/a
DRO	TPH 8015M		318	n/a	<10.0	n/a

		Sample	SP4 @ SURFACE	SP4 @ 2'	SP4 @ 4'	SP4 @ 6'	SP4 @ 8'	SP4 @ 9'
Analyte	Method	Date	7/2/13	7/2/13	7/2/13	7/2/13	7/2/13	7/2/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		0.169	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		0.898	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		0.906	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		1.96	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		384	2800	288	448	256	256
GRO	TPH 8015M		97.2	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		18,300	35.9	n/a	n/a	n/a	n/a

		Sample	SP5 @ SURFACE	SP5 @ 2'	SP5 @ 4'	SP5 @ 6'	SP5 @ 7'
Analyte	Method	Date	7/2/13	7/2/13	7/2/13	7/2/13	7/2/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		2140	2120	592	304	224
GRO	TPH 8015M		<50.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		3370	16.2	n/a	n/a	n/a



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

July 15, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LOST TANK 3 FED #14

Enclosed are the results of analyses for samples received by the laboratory on 07/09/13 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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](http://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,

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: 07/09/2013  
 Reported: 07/15/2013  
 Project Name: LOST TANK 3 FED #14  
 Project Number: NONE GIVEN  
 Project Location: WIPP SITE

 Sampling Date: 07/01/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ SURFACE (H301603-01)**

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2013	ND	2.40	120	2.00	1.00	
Toluene*	<0.050	0.050	07/12/2013	ND	2.34	117	2.00	0.905	
Ethylbenzene*	<0.050	0.050	07/12/2013	ND	2.42	121	2.00	0.0330	
Total Xylenes*	<0.150	0.150	07/12/2013	ND	7.18	120	6.00	0.114	
Total BTEX	<0.300	0.300	07/12/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	07/11/2013	ND	400	100	400	3.92	

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	<50.0	50.0	07/11/2013	ND	201	101	200	4.50		
DRO >C10-C28	2320	50.0	07/11/2013	ND	211	105	200	7.08		

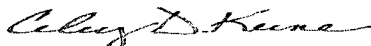
Surrogate: 1-Chlorooctane 91.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 156 % 63.6-154

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: 07/09/2013  
 Reported: 07/15/2013  
 Project Name: LOST TANK 3 FED #14  
 Project Number: NONE GIVEN  
 Project Location: WIPP SITE

 Sampling Date: 07/01/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 2 FT (H301603-02)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.794		
Toluene*	<0.050	0.050	07/13/2013	ND	1.97	98.3	2.00	0.379		
Ethylbenzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.131		
Total Xylenes*	<0.150	0.150	07/13/2013	ND	5.94	99.1	6.00	0.169		
Total BTEX	<0.300	0.300	07/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	07/11/2013	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					

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	07/11/2013	ND	201	101	200	4.50	
DRO >C10-C28	<10.0	10.0	07/11/2013	ND	211	105	200	7.08	

Surrogate: 1-Chlorooctane 79.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.9 % 63.6-154

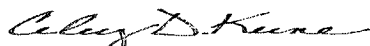
**Sample ID: SP 1 @ 4 FT (H301603-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3920	16.0	07/12/2013	ND	400	100	400	0.00		

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 07/09/2013  
 Reported: 07/15/2013  
 Project Name: LOST TANK 3 FED #14  
 Project Number: NONE GIVEN  
 Project Location: WIPP SITE

 Sampling Date: 07/01/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 6 FT (H301603-04)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	07/12/2013	ND	400	100	400	0.00	

**Sample ID: SP 1 @ 7 FT (H301603-05)**

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	07/12/2013	ND	400	100	400	0.00	

**Sample ID: SP 2 @ SURFACE (H301603-06)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32000	16.0	07/12/2013	ND	400	100	400	0.00	

**Sample ID: SP 2 @ 1 FT (H301603-07)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	07/12/2013	ND	400	100	400	0.00	

**Sample ID: SP 2 @ 2 FT (H301603-08)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/12/2013	ND	400	100	400	0.00	

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

Received:	07/09/2013	Sampling Date:	07/01/2013
Reported:	07/15/2013	Sampling Type:	Soil
Project Name:	LOST TANK 3 FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	WIPP SITE		

**Sample ID: SP 2 @ 3 FT (H301603-09)**

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	07/12/2013	ND	400	100	400	0.00	

**Sample ID: SP 3 @ SURFACE (H301603-10)**

BTEX 8021B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.794	
Toluene*	<0.050	0.050	07/13/2013	ND	1.97	98.3	2.00	0.379	
Ethylbenzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.131	
Total Xylenes*	<0.150	0.150	07/13/2013	ND	5.94	99.1	6.00	0.169	
Total BTEX	<0.300	0.300	07/13/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 89.4-126

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	63200	16.0	07/12/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/11/2013	ND	201	101	200	4.50	
DRO >C10-C28	318	10.0	07/11/2013	ND	211	105	200	7.08	


Surrogate: 1-Chlorooctane 86.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.3 % 63.6-154

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\*=Accredited Analyte

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Fax To: (575) 397-0397

Received: 07/09/2013  
Reported: 07/15/2013  
Project Name: LOST TANK 3 FED #14  
Project Number: NONE GIVEN  
Project Location: WIPP SITE

Sampling Date: 07/01/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1 FT (H301603-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	07/12/2013	ND	400	100	400	0.00	

**Sample ID: SP 3 @ 2 FT (H301603-12)**

BTEX 8021B			mg/kg Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.794	
Toluene*	<0.050	0.050	07/13/2013	ND	1.97	98.3	2.00	0.379	
Ethylbenzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.131	
Total Xylenes*	<0.150	0.150	07/13/2013	ND	5.94	99.1	6.00	0.169	
Total BTEX	<0.300	0.300	07/13/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 89.4-126

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	07/12/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/11/2013	ND	201	101	200	4.50	
DRO >C10-C28	<10.0	10.0	07/11/2013	ND	211	105	200	7.08	

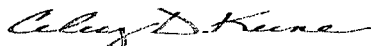
Surrogate: 1-Chlorooctane 91.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.8 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/09/2013  
Reported: 07/15/2013  
Project Name: LOST TANK 3 FED #14  
Project Number: NONE GIVEN  
Project Location: WIPP SITE

Sampling Date: 07/01/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 3 FT (H301603-13)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/12/2013	ND	400	100	400	0.00	

**Sample ID: SP 4 @ SURFACE (H301603-14)**

BTEX 8021B		mg/kg	Analyzed By: DW						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.794	
Toluene*	0.159	0.050	07/13/2013	ND	1.97	98.3	2.00	0.379	
Ethylbenzene*	0.898	0.050	07/13/2013	ND	2.00	100	2.00	0.131	
Total Xylenes*	0.906	0.150	07/13/2013	ND	5.94	99.1	6.00	0.169	
Total BTEX	1.96	0.300	07/13/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 174 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	07/12/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	97.2	50.0	07/11/2013	ND	201	101	200	4.50	
DRO >C10-C28	18300	50.0	07/11/2013	ND	211	105	200	7.08	

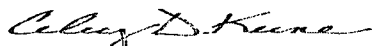
Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 593 % 63.6-154

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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: 07/09/2013  
 Reported: 07/15/2013  
 Project Name: LOST TANK 3 FED #14  
 Project Number: NONE GIVEN  
 Project Location: WIPP SITE

 Sampling Date: 07/02/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 2 FT (H301603-15)**

BTX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.794		
Toluene*	<0.050	0.050	07/13/2013	ND	1.97	98.3	2.00	0.379		
Ethylbenzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.131		
Total Xylenes*	<0.150	0.150	07/13/2013	ND	5.94	99.1	6.00	0.169		
Total BTX	<0.300	0.300	07/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	07/12/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/11/2013	ND	201	101	200	4.50	
DRO >C10-C28	35.9	10.0	07/11/2013	ND	211	105	200	7.08	

Surrogate: 1-Chlorooctane 83.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.0 % 63.6-154

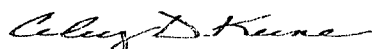
**Sample ID: SP 4 @ 4 FT (H301603-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/12/2013	ND	400	100	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: 07/09/2013  
Reported: 07/15/2013  
Project Name: LOST TANK 3 FED #14  
Project Number: NONE GIVEN  
Project Location: WIPP SITE

Sampling Date: 07/02/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 6 FT (H301603-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	07/12/2013	ND	400	100	400	0.00	

**Sample ID: SP 4 @ 8 FT (H301603-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	07/12/2013	ND	400	100	400	0.00		


**Sample ID: SP 4 @ 9 FT (H301603-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/12/2013	ND	400	100	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: 07/09/2013  
Reported: 07/15/2013  
Project Name: LOST TANK 3 FED #14  
Project Number: NONE GIVEN  
Project Location: WIPP SITE

Sampling Date: 07/02/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ SURFACE (H301603-20)**

BTX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.794	
Toluene*	<0.050	0.050	07/13/2013	ND	1.97	98.3	2.00	0.379	
Ethylbenzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.131	
Total Xylenes*	<0.150	0.150	07/13/2013	ND	5.94	99.1	6.00	0.169	
Total BTX	<0.300	0.300	07/13/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2140	16.0	07/12/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	07/11/2013	ND	201	101	200	4.50		
DRO >C10-C28	3370	50.0	07/11/2013	ND	211	105	200	7.08		

Surrogate: 1-Chlorooctane 91.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 175 % 63.6-154

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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: 07/09/2013  
Reported: 07/15/2013  
Project Name: LOST TANK 3 FED #14  
Project Number: NONE GIVEN  
Project Location: WIPP SITE

Sampling Date: 07/02/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 2 FT (H301603-21)**

BTEx 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.794		
Toluene*	<0.050	0.050	07/13/2013	ND	1.97	98.3	2.00	0.379		
Ethylbenzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.131		
Total Xylenes*	<0.150	0.150	07/13/2013	ND	5.94	99.1	6.00	0.169		
Total BTEx	<0.300	0.300	07/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	07/12/2013	ND	400	100	400	0.00	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/11/2013	ND	201	101	200	4.50	
DRO >C10-C28	16.2	10.0	07/11/2013	ND	211	105	200	7.08	

Surrogate: 1-Chlorooctane 92.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.5 % 63.6-154

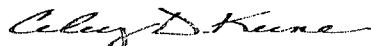
**Sample ID: SP 5 @ 4 FT (H301603-22)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	07/12/2013	ND	400	100	400	0.00	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/09/2013  
Reported: 07/15/2013  
Project Name: LOST TANK 3 FED #14  
Project Number: NONE GIVEN  
Project Location: WIPP SITE

Sampling Date: 07/02/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 6 FT (H301603-23)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	07/12/2013	ND	400	100	400	0.00		

**Sample ID: SP 5 @ 7 FT (H301603-24)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	07/12/2013	ND	400	100	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

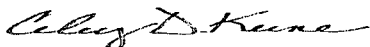
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or 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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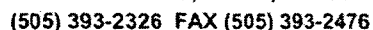
\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



## Page 14 of 16

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## Page 15 of 16

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#54



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

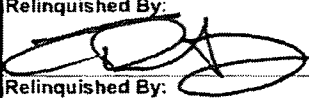


(505) 393-2326 FAX (505) 393-2476

## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Page 16 of 16

Company Name: BBC International, Inc.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>													
Project Manager: Cliff Brunson		P.O. #:		<div style="display: flex; justify-content: space-around; font-size: 2em;"> <span>CL-</span> <span>TPH</span> <span>B-TEX</span> </div>													
Address: P.O. Box 805		Company:															
City: Hobbs State: NM Zip: 88241		Attn:															
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:															
Project #: 3 Project Owner: OKY		City: <i>Same</i>															
Project Name: <i>Lost tank Fed # 14</i>		State: Zip:															
Project Location: <i>Chippa Site WIPP Site</i>		Phone #:															
Sampler Name: <i>Gary RA</i>		Fax #:															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX	PRESERV	SAMPLING												
			GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE	TIME											
21	SP5@ 2F+	62	X	X	7-2-17	11:30	X	X	X								
22	SP5@ 4F+	62	X	X	7-2-17	12:00	X										
23	SP5@ 6F+	62	X	X	7-2-17	1:23	X										
24	SP5@ 7F+	62	X	X	7-2-17	1:35	X										

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Relinquished By: 	Date: 7/19/13 Time: 2:40	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Time:		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: 

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

#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	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	Lost Tank 3 Federal #14	Facility Type	Well location
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-37918

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	3	22S	31E	1450	South	1700	East	Eddy

Latitude N 32.41723°

Longitude W 103.76251°

**NATURE OF RELEASE**

Type of Release	Oil and Produced Water	Volume of Release	30 bbls oil, 250 bbls produced water	Volume Recovered	50 bbls water
Source of Release	Failure of the stuffing box	Date and Hour of Occurrence	06/17/2013	Date and Hour of Discovery	06/17/2013
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-NMOCD; Jennifer Van Curen, James Amos- BLM		
By Whom?	Chancey Summers	Date and Hour	06/18/2013 @ 1:18 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.\*

Failure of the stuffing box caused 30 bbls of oil and 250 bbls of produced water to leak onto the ground. 50 bbls of produced water were recovered via vacuum truck. The stuffing box was repaired.

Describe Area Affected and Cleanup Action Taken.\*

The area affected was approximately 100' x 150' on location and 25' x 150' off location. Remediation will be conducted in accordance with a plan approved by 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.

**OIL CONSERVATION DIVISION**

Signature:

Printed Name: Chancey Summers

Title: HES Specialist

E-mail Address: Chancey.Summers@oxy.com

Date:

6-24-13

Phone: (575) 397-8216

Approved by Environmental Specialist:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

\* Attach Additional Sheets If Necessary

Meeting w/ Cliff Brunson 9/5/13

2RP-1585 & 1588

Qty Pure Gold A Fed #2 Qty 015-27243  
2 Release (2C-1415) 150 GW Tanks

Basically same Area of Release  
Propose 2' Exc across site

30-015-27243

from quarry brand

2RP-1772 30-015-20572

Chevron Benson Shugart WFL #2 Qty  
FMC tanks still in place (2 now)

Arch site on west end of flow path  
Obvious Contam on surf - no unsightly  
Propose to remove 1' across flow path  
Arch Area will be hard dig

② Benson Shugart WFL #11 -  
OK to back fill EXC

This was Adjacent to #2

2RP-1698 30-015-37918

→ Qty Lost Tank 3 Fed #14

@ SP 2 & 3 1' EXC (on pad)

SP 4 & 5 2' EXC (on location)

SP 1 2-3' EXC

2RP-1699 30-015-34997