

Closure Report

Site Description		RECEIVED
Site Name:	Lost Tank 3 Federal #14	OCT 25 2013
Company:	Oxy Permian Ltd.	NMOCD ARTESIA
Legal Description:	U/L J, Section 3, T22S, R31E	
County:	Eddy County, NM	
GPS Coordinates:	N 32.41723° W 103.76251°	

Release Data	
Date of Release:	06/17/2013
Type of Release:	Oil and produced water
Source of Release:	Failure of the stuffing box
Volume of Release:	30 bbls oil, 250 bbls produced water
Volume Recovered:	50 bbls water

Remediation Specifications	
Remediation Parameters:	Excavate the area of SP1 to a depth of 2'-3' or as practicable. In the areas of SP2 and SP3, excavate to a depth of 1'. Excavate the areas of SP4 and SP5 to a depth of 2'. Obtain confirmation samples. Backfill the excavated areas with clean soil
Remediation Activities:	09/25/2013 to 10/16/2013

Plan Sent to OCD:	09/21/2013	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	10/03/2013	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	09/21/2013	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	09/23/2013	Email from J. Van Curen to Cliff Brunson

Supporting Documentation	
Initial C-141	Signed 06/24/2013
Final C-141	Signed 10/23/2013
Site Diagram	June 2012
Groundwater Plot	150'
TOPO Maps	June 2012
Lab Summary	07/01/2013-07/02/2013 and 10/10/2013
Lab Analysis	07/01/2013-07/02/2013 and 10/10/2013
Correspondence	Request and approval of remediation plan via email

Request for Closure	
Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.	
Cliff Brunson, President of BBC International Inc.	10/23/2013

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.*

RECEIVED

OCT 25 2013

Describe Cause of Problem and Remedial Action Taken.*

NMOCD ARTESIA

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

Approved by Environmental Specialist:

Title: HES Specialist

Approval Date:

Expiration Date:

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

Conditions of Approval:

Attached ☐

Date: 6-24-13 Phone: (575) 397-8216

* Attach Additional Sheets If Necessary

District I
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OPERATOR

☐ Initial Report ☒ Final Report

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Facility Name	Lost Tank 3 Federal #14	Facility Type	Well location
Surface Owner	BLM	Mineral Owner	
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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

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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.*

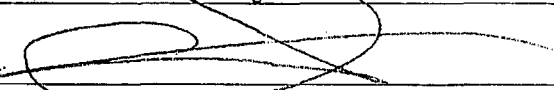
Describe Cause of Problem and Remedial Action Taken.*

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 was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 10/03/2013 and approved by Jennifer Van Curen of the BLM via email on 09/23/2013.

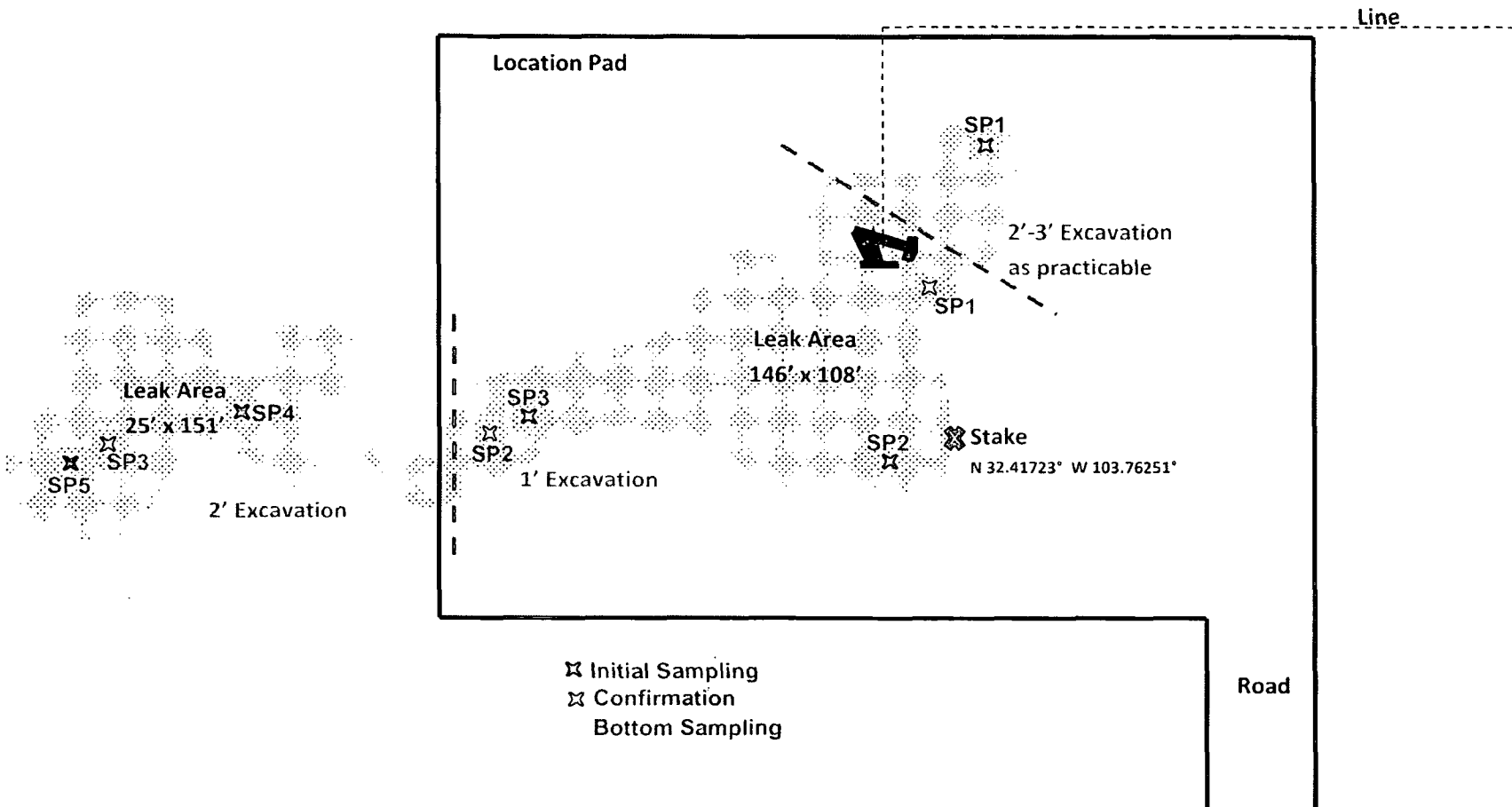
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Chancey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 10/23/13	Phone: (575) 397-8216		

* Attach Additional Sheets If Necessary



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

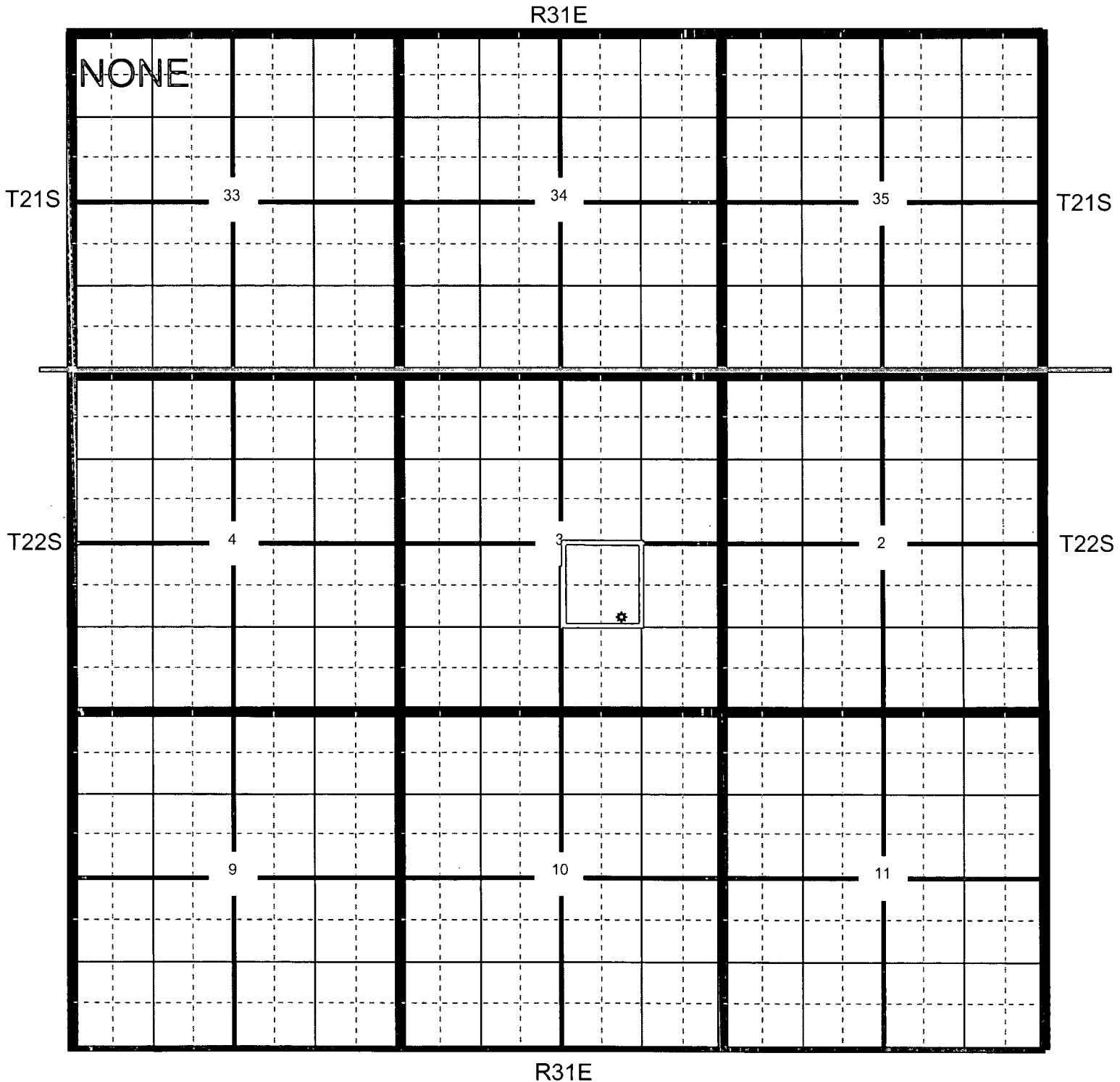
Unit Letter
J

Section
3

Township
22S

Range
31E

Trend Map 150'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases


Oxy Lost Tank 3 Federal #14

County Eddy	Unit Letter J	Section 3	Township 22S	Range 31E
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Trend Map 150'

1

2

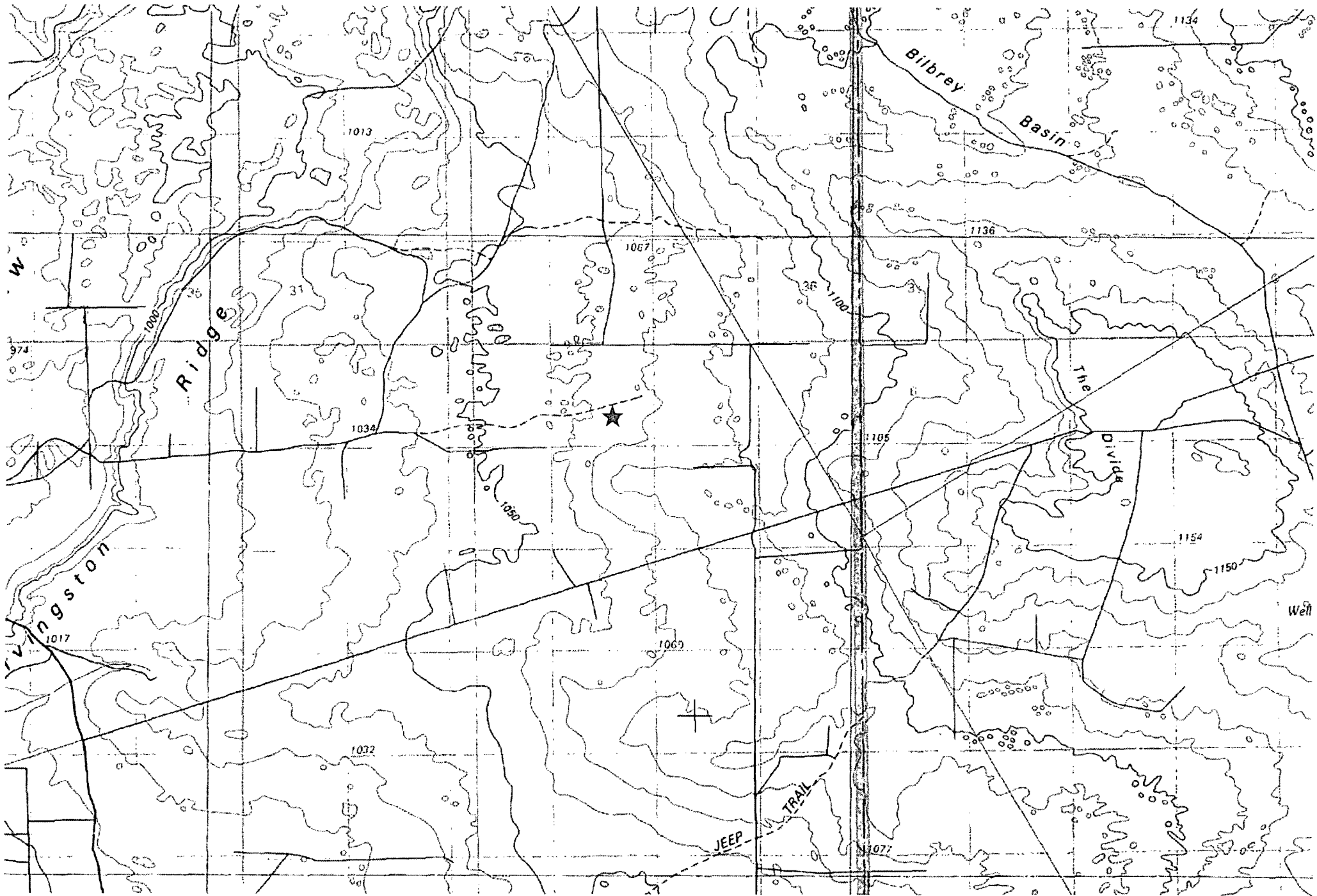
NW/NW NONE	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE 	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit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

3

4

Oxy

Lost Tank 3 Federal #14



**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		0.159	<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

Laboratory Analytical Results Summary
Lost Tank 3 Federal #14

		Sample	SP1 @ BOTTOM	SP2 @ BOTTOM	SP3 @ BOTTOM
Analyte	Method	Date	10/10/13	10/10/13	10/10/13
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		64	64	64



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.

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 "Caley D. Keene". The signature is written in a cursive, flowing style.

Caley 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)

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	07/12/2013	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 BTX	<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						
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

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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	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 1 @ 2 FT (H301603-02)

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 (PIC) 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

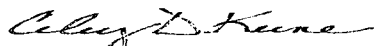
Sample ID: SP 1 @ 4 FT (H301603-03)

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

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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	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 1 @ 6 FT (H301603-04)

Chloride, SM4500Cl-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, SM4500Cl-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, SM4500Cl-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, 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	

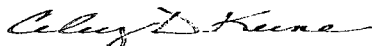
Sample ID: SP 2 @ 2 FT (H301603-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	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	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, 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	

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

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) 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	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	

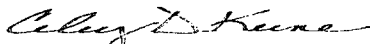
Surrogate: 1-Chlorooctane 86.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.3 % 63.6-154

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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	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 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 (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	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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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)

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	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, SM4500CI-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		

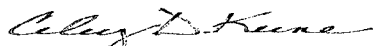
Sample ID: SP 4 @ 9 FT (H301603-19)

Chloride, SM4500CI-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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Analytical Results For:

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

Received:	07/09/2013	Sampling Date:	07/02/2013
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 5 @ SURFACE (H301603-20)

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) 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						
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		

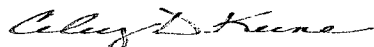
Surrogate: 1-Chlorooctane 91.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 175 % 63.6-154

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

Received:	07/09/2013	Sampling Date:	07/02/2013
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 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 (PIE) 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					

Chloride	2120	10.0	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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Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	07/09/2013	Sampling Date:	07/02/2013
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 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	

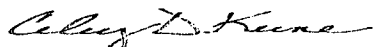
Sample ID: SP 5 @ 7 FT (H301603-24)

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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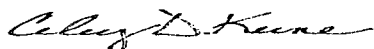
Notes and Definitions

- 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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#54



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† Cardinal cannot accept verbal changes. Please fax written changes to 505-398-2476

#54



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

October 14, 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 10/10/13 13:40.

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.

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 "Coley D. Keene". The signature is written in a cursive, flowing style.

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: 10/10/2013
Reported: 10/14/2013
Project Name: LOST TANK 3 FED #14
Project Number: NONE GIVEN
Project Location: WIPP SITE

Sampling Date: 10/10/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ BOTTOM (H302460-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/11/2013	ND	416	104	400	3.92	

Sample ID: SP 2 @ BOTTOM (H302460-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/11/2013	ND	416	104	400	3.92	

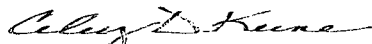
Sample ID: SP 3 @ BOTTOM (H302460-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/11/2013	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

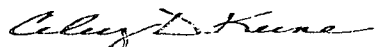
Notes and Definitions

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

*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager



Page 4 of 4

#A 54

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Thursday, October 03, 2013 4:03 PM
To: Cliff P. Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: OXY-Lost Tank 3 Federal #14-Remediation Plan

Reference: OXY USA * Lost Tank 3 Fed 14 * 30-015-37918 * J-3-22s-31e * Eddy County, New Mexico
OCD Tracking number: 2RP-1698 * Date of release: 6/17/2013

Cliff,

Your proposal for remediation of the above referenced produced fluid release is approved. Please notify OCD prior to commencement of remedial activities. BLM approval is also required on federal sites.

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.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Cliff P. Brunson [<mailto: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

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
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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Kathy Purvis

From: Van Curen, Jennifer <jvancure@blm.gov>
Sent: Monday, September 23, 2013 12:29 PM
To: Cliff P. Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Re: OXY-Lost Tank 3 Federal #14-Remediation Plan

Cliff,

The plan is approved with the following stipulations:

All areas will need to be below 1000 ppm at 0"-1', 1'-2' less than 1200 ppm, 2'-3' less than 1500 ppm, 3'-4' less than 2000 ppm. If at 4' the chlorides are not below 2000 then appropriate measures will need to be taken to prevent leaching of chlorides. The level will determine what measure that will be needed. This should help you with future plans. So bottom samples will be needed to determine if they meet the above standards. The main long term objective is to be able to vegetate the area with desired species.

The reason we don't like to leave anything high on a location is because that is difficult to track in the future at plugging. Any high chlorides left behind at time of plugging will get ripped across the location. This results in negative impacts to the reclaimed location; not allowing for a successful re-vegetation. These left over contaminants will need to not only be below ripping depth from remediation, but also leave enough material between rips and contaminants. This is not looking at the right now, but at the time of plugging and ultimately achieving final abandonment.

Thanks,

JENNIFER E VAN CUREN
ENVIRONMENTAL PROTECTION SPECIALIST
DOI-BLM-CARLSBAD FIELD OFFICE
320 E GREENE ST. CARLSBAD, NM 88220
OFFICE- 575-234-5905
CELL - 575-361-0042
FAX - 575-234-5927

On Sat, Sep 21, 2013 at 3:51 PM, Cliff P. Brunson <cbrunson@bbcinternational.com> wrote:
Jennifer,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Mike Bratcher of the NMOCD. Oxy is proposing to 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. If you have any questions, please let us know.

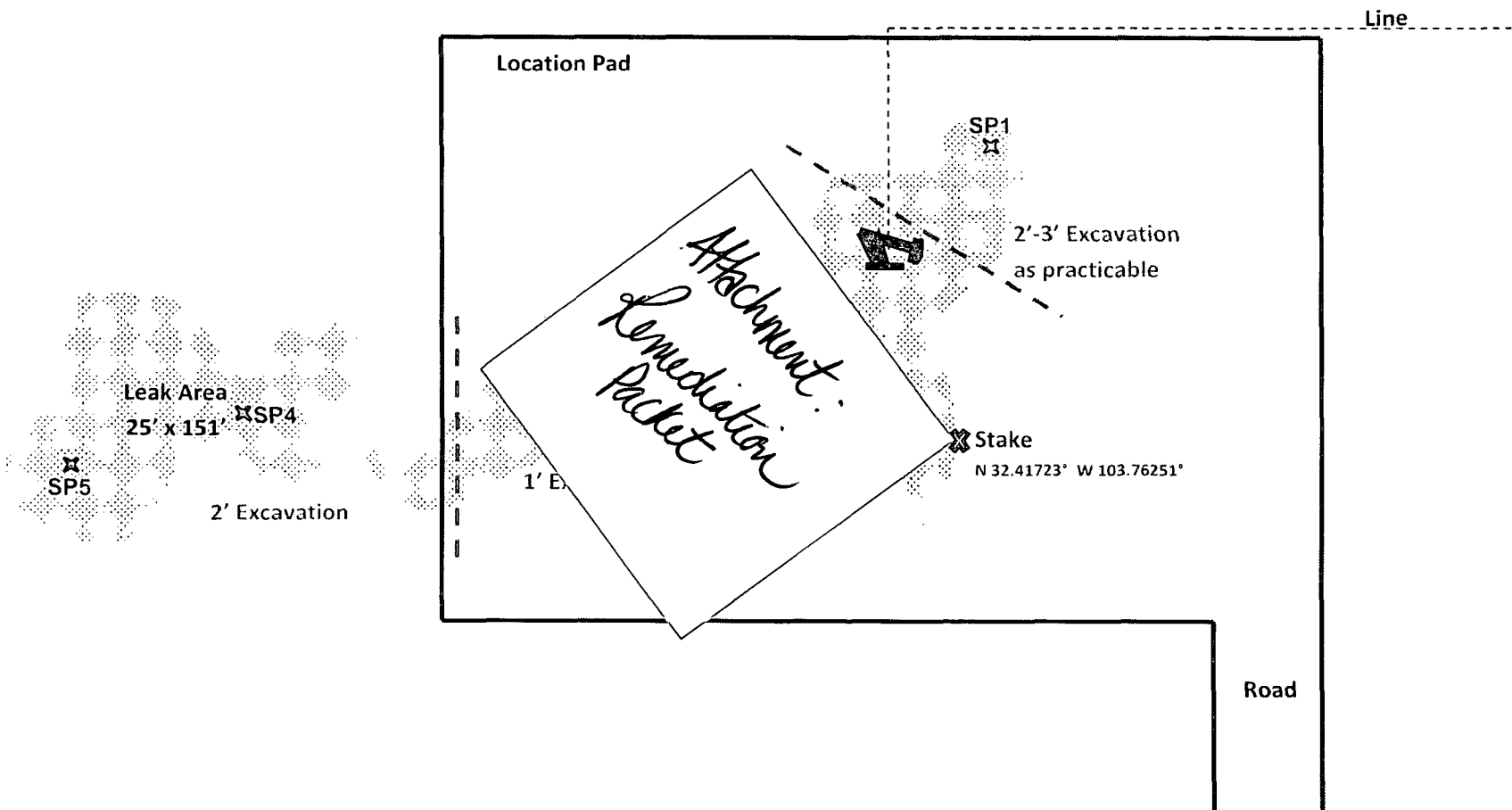
Thanks, Cliff

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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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

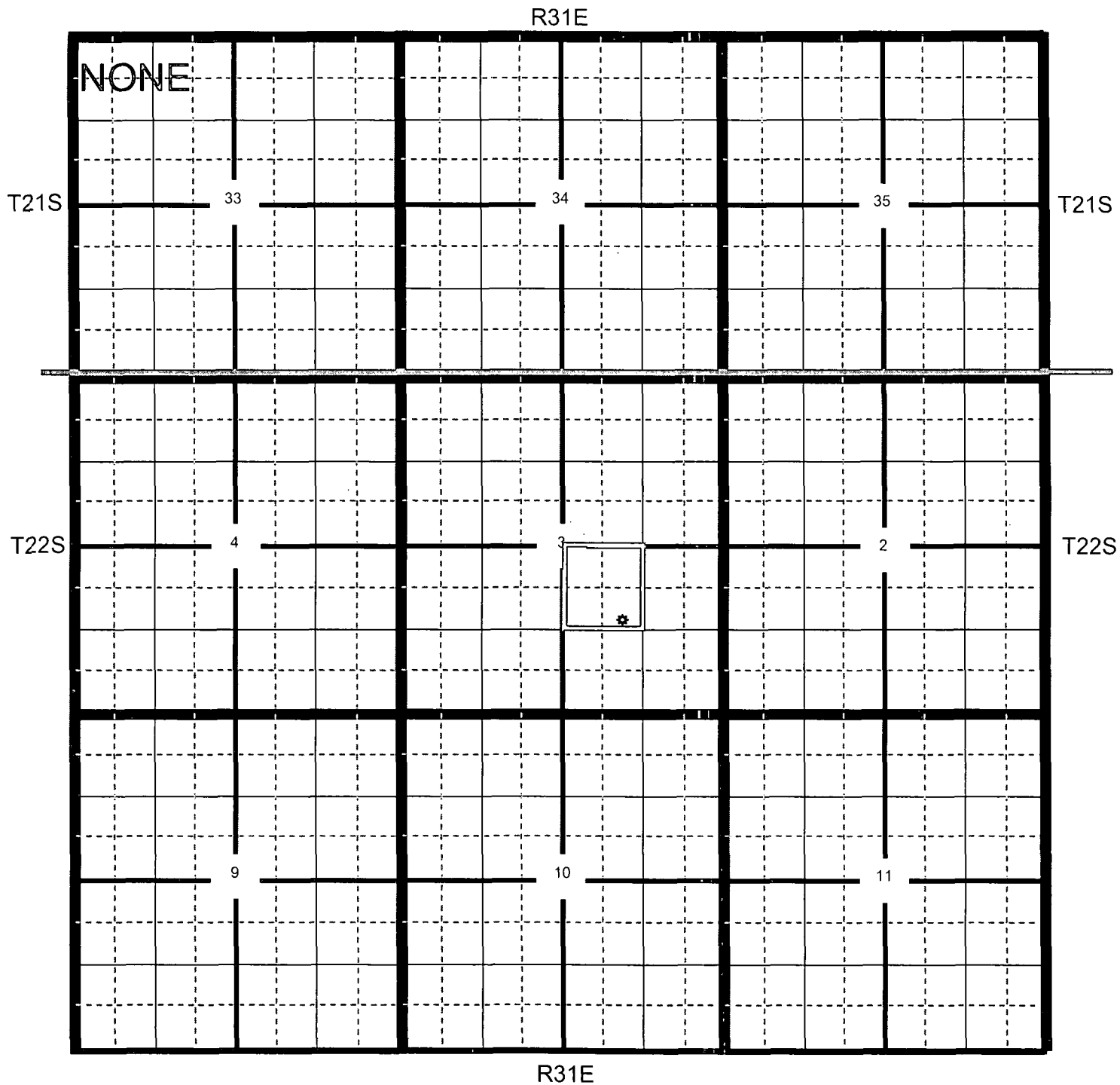
Unit Letter
J

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	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

 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		0.159	<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

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/ga/lab_accred_certif.html.

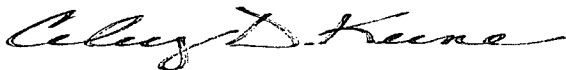
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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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 (PIC) 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, SM4500CI-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	

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	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 1 @ 6 FT (H301603-04)

Chloride, SM4500Cl-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, SM4500Cl-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, SM4500Cl-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, 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 2 @ 2 FT (H301603-08)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	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: 07/01/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

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		

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 (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	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	

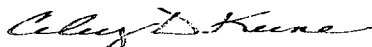
Surrogate: 1-Chlorooctane 86.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.3 % 63.6-154

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Caley 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	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 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 (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	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	

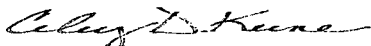
Surrogate: 1-Chlorooctane 91.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.8 % 63.6-154

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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	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 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 (PIL) 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	

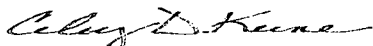
Surrogate: 1-Chlorooctane 119 % 65.2-140

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)

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	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

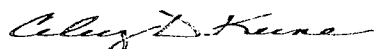
Sample ID: SP 4 @ 4 FT (H301603-16)

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	

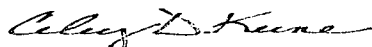
Sample ID: SP 4 @ 9 FT (H301603-19)

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

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

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) 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	

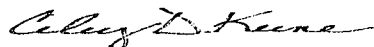
Surrogate: 1-Chlorooctane 91.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 175 % 63.6-154

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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 @ 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 (PIE) 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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Celey D. Keene, Lab Director/Quality Manager

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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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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 14 of 16

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																				
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>CL-</div> <div>TPH</div> <div>B-TEX</div> </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: OXY				City: Same																								
Project Name: Lost tank Fed # 14				State: Zip:																								
Project Location: Whipp Site WIPP Site				Phone #:																								
Sampler Name: Gary Ray				Fax #:																								
FOR LAB USE ONLY				MATRIX		PRESERV		SAMPLING																				
Lab I.D.	Sample I.D.	GIRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME														
H3D1603																												
1	SP 1 @ Surface	G	2			X				X			7-1-13	10:00	X	X	X											
2	SP 1 @ 2 Ft	G	2			X				X			7-1-13	10:30	X	X	X											
3	SP 1 @ 4 Ft	G	2			X				X			7-1-13	10:55	X													
4	SP 1 @ 6 Ft	G	2			X				X			7-1-13	11:15	X													
5	SP 1 @ 7 Ft	G	2			X				X			7-1-13	11:30	X													
6	SP 2 @ Surface	G	2			X				X			7-1-13	11:45	X													
7	SP 2 @ 2 Ft	G	2			X				X			7-1-13	1:10	X													
8	SP 2 @ 2 Ft	G	2			X				X			7-1-13	1:25	X													
9	SP 2 @ 3 Ft	G	2			X				X			7-1-13	1:38	X													
10	SP 3 @ Surface	G	2			X				X			7-1-13	1:52	X	X	X											

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Relinquished By:	Date: 7/9/13 Time: 2:40	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: Add'l Fax #:
Relinquished By:	Date: Time:	Received By:	REMARKS: Project name revised as per Kathy. 7/15/13 ch	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	5.42	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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 16 of 16

Company Name: BBC International, Inc.										BILL TO										ANALYSIS REQUEST									
Project Manager: Cliff Brunson										P.O. #:										<div style="display: flex; justify-content: space-around;"> <div>CL-</div> <div>TPH</div> <div>B-TPH</div> </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: Oxy										City: Same																			
Project Name: Lost tank Fed # 14										State: Zip:																			
Project Location: WHIPP Site WIPP Site										Phone #:																			
Sampler Name: Gary RA										Fax #:																			

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	GIRAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV			SAMPLING		DATE	TIME
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:			
21	SP5@ 2Ft	6	1					X				X			7-2-17	11:30	
22	SP5@ 4Ft	6	1					X				X			7-2-17	12:00	
23	SP5@ 6Ft	6	1					X				X			7-2-17	1:23	
24	SP5@ 7Ft	6	1					X				X			7-2-17	1:35	

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Relinquished By:		Date: 7/9/13		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By:		Time: 2:40		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One)		Time:		Sample Condition		CHECKED BY:		REMARKS:	
Sampler - UPS - Bus - Other:		5.40		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No					

† 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