

Closure Report

Site Description

Site Name:	Lost Tank 3 Federal #21
Company:	Oxy Permian Ltd.
Legal Description:	U/L E, Section 3, T22S, R31E
County:	Eddy County, NM
GPS Coordinates:	N 32.42074° W 103.77336°

Release Data

Date of Release:	05/03/2016
Type of Release:	Oil and produced water
Source of Release:	Stuffing box blow out
Volume of Release:	15 bbls oil, 5 bbls produced water
Volume Recovered:	14 bbls

Remediation Specifications

Remediation Parameters:	Excavate to a depth of 3 feet in the area of SP1. Excavate to a depth of 1 foot at SP2 and take a re-sample at 4 feet. No excavation around SP3, but take a re-sample at 4 feet. Excavate to a depth of 1 foot in the areas of SP4, SP5, & SP6. Backfill the site with clean soil.	
Remediation Activities:	09/05/2016 to 10/10/2016	
Plan Sent to OCD:	08/26/2016	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	09/02/2016	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	08/26/2016	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	08/29/2016	Email from Shelly Tucker to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 05/16/2016
Final C-141	Signed 10/12/2016
Site Diagram	May 2016
Groundwater Plot	150'
TOPO Maps	May 2016
Lab Summary	05/18/2016 and 10/07/2016
Lab Analysis	05/18/2016 and 10/01/2016
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.

10/17/2016

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Lost Tank 3 Federal #21	Facility Type	Well
Surface Owner	State	Mineral Owner	API No. 30-015-37920

LOCATION OF RELEASE

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

Latitude N 32.42074° Longitude W 103.77336°

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	15 bbls oil, 5 bbls produced water	Volume Recovered	14 bbls
Source of Release	Excess pressure caused the stuffing box packing on the wellhead to blow out	Date and Hour of Occurrence	05/03/2016	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher, Heather Patterson- NMOCD, Shelly Tucker- BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	05/03/2016 @ 4:01 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.*

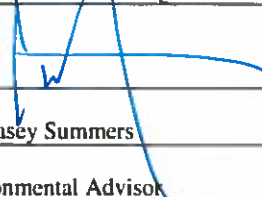
Describe Cause of Problem and Remedial Action Taken.*

Excess pressure caused the stuffing box packing on the wellhead to blow out 15 bbls of oil and 5 bbls of produced water onto location. A vacuum truck recovered 14 bbls of fluids and the stuffing box packing was replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 175' x 150' with most of the leak staying on location. Remediation will be completed in accordance with a remediation 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.

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Casey Summers		Approved by Environmental Specialist:	
Title: NM Environmental Advisor		Approval Date:	Expiration Date:
E-mail Address: Casey.Summers@oxy.com		Conditions of Approval:	
Date: 5-16-16 Phone: (575) 513-8289		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	PO Box 4294, Houston, TX 77210	Telephone No.	(575) 513-8289
Facility Name	Lost Tank 3 Federal #21	Facility Type	Well
Surface Owner	State	Mineral Owner	API No. 30-015-37920

LOCATION OF RELEASE

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

Latitude N 32.42074° Longitude W 103.77336°

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	15 bbls oil, 5 bbls produced water	Volume Recovered	14 bbls
Source of Release	Excess pressure caused the stuffing box packing on the wellhead to blow out	Date and Hour of Occurrence	05/03/2016	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher, Heather Patterson- NMOCD, Shelly Tucker- BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	05/03/2016 @ 4:01 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.*

Excess pressure caused the stuffing box packing on the wellhead to blow out 15 bbls of oil and 5 bbls of produced water onto location. A vacuum truck recovered 14 bbls of fluids and the stuffing box packing was replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 175' x 150' with most of the leak staying on location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 09/02/2016 and approved by Shelly Tucker of the BLM via email on 08/29/2016.

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

Signature:	OIL CONSERVATION DIVISION		
Printed Name: Casey Summers	Approved by Environmental Specialist:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: Casey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 10-12-16	Phone: (575) 513-8289		

* Attach Additional Sheets If Necessary



Oxy
Lost Tank 3 Federal #21 (5/3/16)

Pasture

Location

U/L E, Section 3, T22S, R31E
Eddy County, NM
N 32.42074° W 103.77336°
API# 30-015-37920

Road

Pasture

Pasture



Pumpjacks

1' Excavation

70' x 30'

45' x 30'

1' Excavation

15' x 15'

SP4

Stake

SP5

Leak Area

90' x 45'

No Excavation,
Resample at 4'

SP3

45' x 2'

SP2

1' Excavation,
Resample at 4'

3' Excavation

SP1

25' x 15'

BBC International, Inc.

Oxy

Lost Tank 3 Federal #21

Date: 05/09/2016

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2016

Groundwater Plot

Oxy Lost Tank 3 Federal #21

County
Eddy

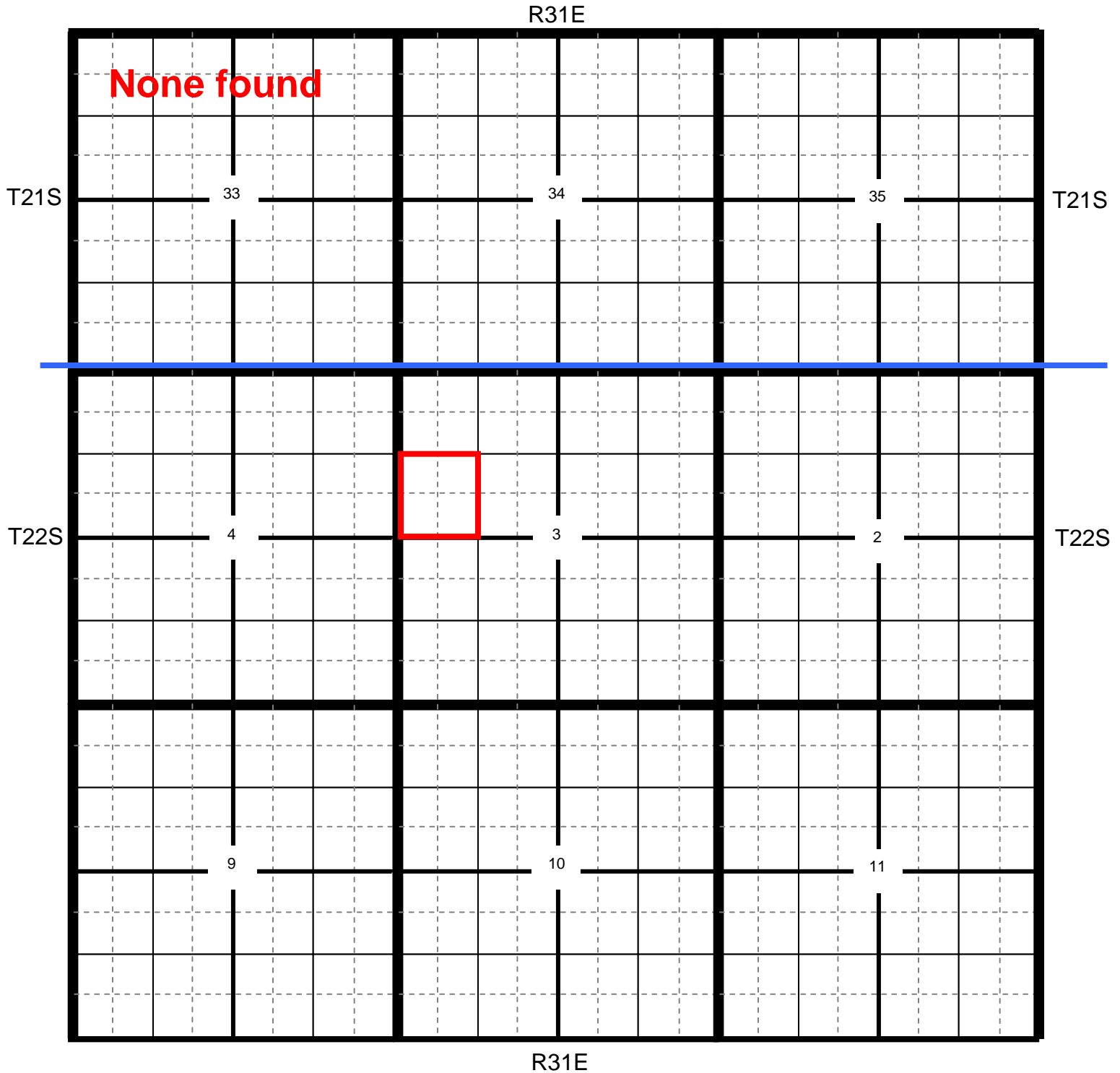
Unit Letter
E

Section
3

Township
22S

Range
31E

Trend Map 150'



📍 Location

● OCD

● USGS

● SEO

● All Databases

Oxy Lost Tank 3 Federal #21

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

Trend Map 150'

1

2

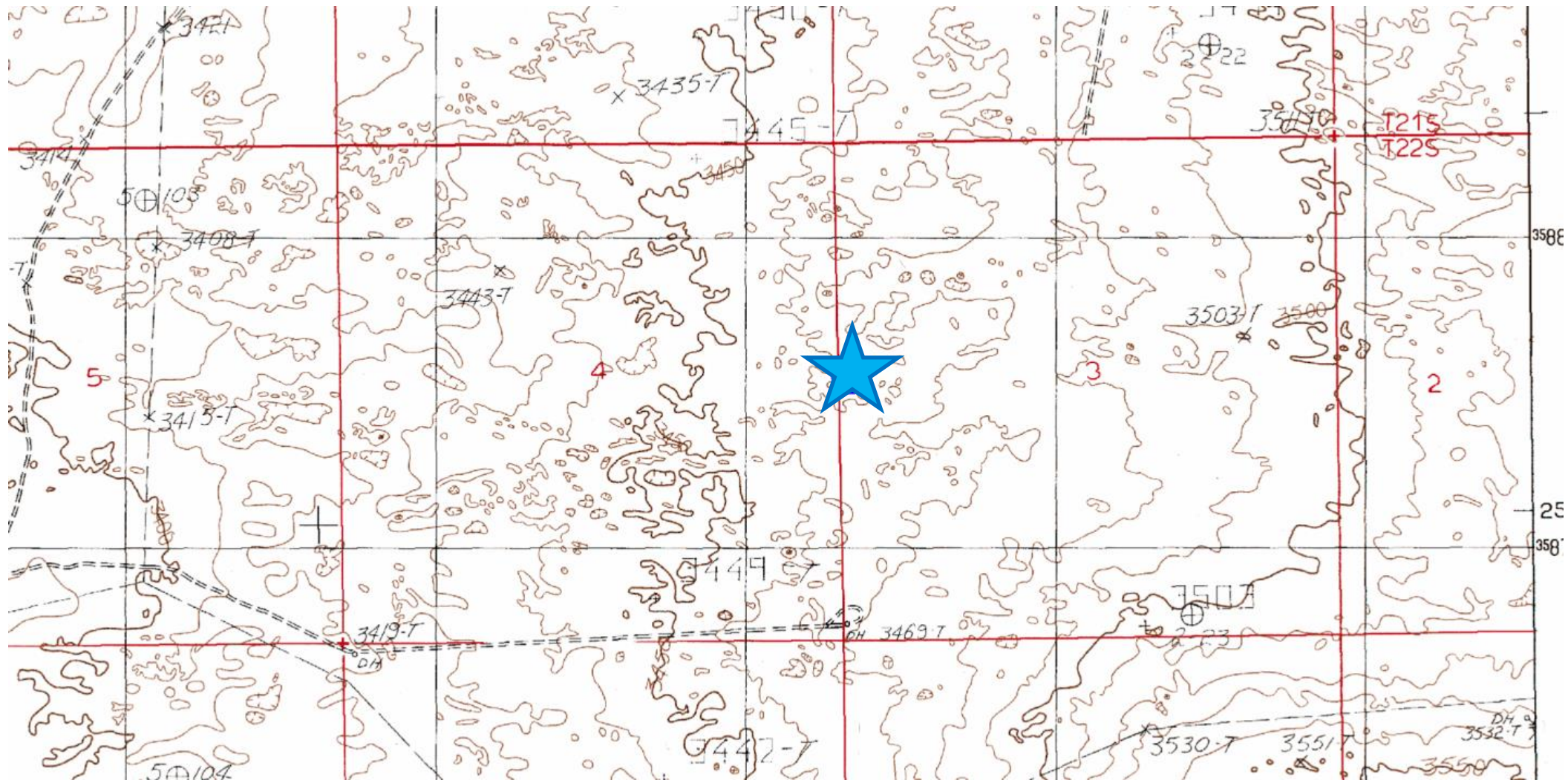
NW/NW None found	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter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

3

4

Oxy

Lost Tank 3 Federal #21



Laboratory Analytical Results Summary
Lost Tank 3 Fed #21

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 6'
Analyte	Method	Date	5/18/16	5/18/16	5/18/16	5/18/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.500	<0.050	n/a	n/a
Toluene	BTEX 8021B		1.05	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		2.32	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		11	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		14.4	<0.300	n/a	n/a
Chloride	SM4500Cl-B		6800	7460	244	208
GRO	TPH 8015M		699	<10.0	n/a	n/a
DRO	TPH 8015M		4610	72.2	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'
Analyte	Method	Date	5/18/16	5/18/16	5/18/16	5/18/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		5680	32	3600	32
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		16.9	<10.0	n/a	n/a

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
Analyte	Method	Date	5/18/16	5/18/16	5/18/16	5/18/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		192	64	3520	32
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	5/18/16	5/18/16	5/18/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenz	BTEX 8021B		<0.050	<0.050	n/a
Total Xyle	BTEX 8021B		<0.150	<0.150	n/a
Total BTE	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		624	16	32
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	5/18/16	5/18/16	5/18/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenz	BTEX 8021B		<0.050	<0.050	n/a
Total Xyle	BTEX 8021B		<0.150	<0.150	n/a
Total BTE	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		2920	16	32
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'
Analyte	Method	Date	5/18/16	5/18/16	5/18/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenz	BTEX 8021B		<0.050	<0.050	n/a
Total Xyle	BTEX 8021B		<0.150	<0.150	n/a
Total BTE	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		4960	16	32
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		10.9	<10.0	n/a

Laboratory Analytical Results Summary
Lost Tank 3 Federal #21

Confirmation		Sample	SP2 @ 4'
Analyte	Method	Date	10/7/16
			mg/Kg
Chloride	SM4500Cl-B		112

Confirmation		Sample	SP3 @ 4'
Analyte	Method	Date	10/7/16
			mg/Kg
Chloride	SM4500Cl-B		112

May 26, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LOST TANK 3 FEDERAL #21

Enclosed are the results of analyses for samples received by the laboratory on 05/20/16 11:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



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:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 1 @ 1' (H601105-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	05/20/2016	ND	1.79	89.4	2.00	1.76	
Toluene*	1.05	0.500	05/20/2016	ND	1.72	86.0	2.00	2.15	
Ethylbenzene*	2.32	0.500	05/20/2016	ND	1.55	77.7	2.00	1.46	
Total Xylenes*	11.0	1.50	05/20/2016	ND	4.93	82.1	6.00	1.55	
Total BTX	14.4	3.00	05/20/2016	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	05/23/2016	ND	432	108	400	3.77	QM-07

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	699	50.0	05/20/2016	ND	188	94.2	200	1.60		
DRO >C10-C28	4610	50.0	05/20/2016	ND	208	104	200	4.73		

Surrogate: 1-Chlorooctane 153 % 35-147

Surrogate: 1-Chlorooctadecane 160 % 28-171

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:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 1 @ 3' (H601105-02)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2016	ND	1.79	89.4	2.00	1.76		
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15		
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46		
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55		
Total BTX	<0.300	0.300	05/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7460	16.0	05/23/2016	ND	432	108	400	3.77	

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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	72.2	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 90.9 % 35-147

Surrogate: 1-Chlorooctadecane 109 % 28-171

Sample ID: SP 1 @ 5' (H601105-03)

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	05/23/2016	ND	432	108	400	3.77	

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:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 1 @ 6' (H601105-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/23/2016	ND	432	108	400	3.77	

Sample ID: SP 2 @ 1' (H601105-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2016	ND	1.79	89.4	2.00	1.76	
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15	
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55	
Total BTX	<0.300	0.300	05/20/2016	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	05/23/2016	ND	432	108	400	3.77	

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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	16.9	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 75.2 % 35-147

Surrogate: 1-Chlorooctadecane 98.5 % 28-171

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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:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 2 @ 3' (H601105-06)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2016	ND	1.79	89.4	2.00	1.76		
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15		
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46		
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55		
Total BTX	<0.300	0.300	05/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/23/2016	ND	432	108	400	3.77	

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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	<10.0	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 80.2 % 35-147

Surrogate: 1-Chlorooctadecane 98.7 % 28-171

Sample ID: SP 2 @ 4' (H601105-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	05/23/2016	ND	432	108	400	3.77	

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

Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 2 @ 5' (H601105-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/23/2016	ND	432	108	400	3.77	

Sample ID: SP 3 @ 1' (H601105-09)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2016	ND	1.79	89.4	2.00	1.76	
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15	
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55	
Total BTEx	<0.300	0.300	05/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/23/2016	ND	432	108	400	3.77		

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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	<10.0	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 81.9 % 35-147

Surrogate: 1-Chlorooctadecane 98.1 % 28-171

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Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 3 @ 3' (H601105-10)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2016	ND	1.79	89.4	2.00	1.76		
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15		
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46		
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55		
Total BTX	<0.300	0.300	05/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/23/2016	ND	432	108	400	3.77	

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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	<10.0	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 83.9 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

Sample ID: SP 3 @ 4' (H601105-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	05/23/2016	ND	432	108	400	3.77	

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Fax To: (575) 397-0397

Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 3 @ 5' (H601105-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/23/2016	ND	432	108	400	3.77		

Sample ID: SP 4 @ 1' (H601105-13)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2016	ND	1.79	89.4	2.00	1.76		
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15		
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46		
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55		
Total BTX	<0.300	0.300	05/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	05/23/2016	ND	432	108	400	3.77		

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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	<10.0	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 77.7 % 35-147

Surrogate: 1-Chlorooctadecane 96.4 % 28-171

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

Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 4 @ 2' (H601105-14)

BTEx 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2016	ND	1.79	89.4	2.00	1.76		
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15		
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46		
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55		
Total BTEX	<0.300	0.300	05/20/2016	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/23/2016	ND	432	108	400	3.77	

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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	<10.0	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 81.8 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

Sample ID: SP 4 @ 3' (H601105-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/23/2016	ND	432	108	400	3.77	

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Fax To: (575) 397-0397

Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 5 @ 1' (H601105-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2016	ND	1.79	89.4	2.00	1.76		
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15		
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46		
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55		
Total BTEX	<0.300	0.300	05/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	05/23/2016	ND	432	108	400	3.77	

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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	<10.0	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 75.9 % 35-147

Surrogate: 1-Chlorooctadecane 93.9 % 28-171

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Fax To: (575) 397-0397

Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 5 @ 2' (H601105-17)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/20/2016	ND	1.79	89.4	2.00	1.76	
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15	
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55	
Total BTEX	<0.300	0.300	05/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/23/2016	ND	432	108	400	3.77	

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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	<10.0	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 84.9 % 35-147

Surrogate: 1-Chlorooctadecane 114 % 28-171

Sample ID: SP 5 @ 3' (H601105-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/23/2016	ND	432	108	400	3.77	

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Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 6 @ 1' (H601105-19)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2016	ND	1.79	89.4	2.00	1.76		
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15		
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46		
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55		
Total BTX	<0.300	0.300	05/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	05/23/2016	ND	432	108	400	3.77	

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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	10.9	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 81.7 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

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Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 6 @ 2' (H601105-20)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2016	ND	1.79	89.4	2.00	1.76		
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15		
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46		
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55		
Total BTEx	<0.300	0.300	05/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/23/2016	ND	432	108	400	3.77	

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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	<10.0	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 80.8 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

Sample ID: SP 6 @ 3' (H601105-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/23/2016	ND	416	104	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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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

2 of 3

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.
Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: Lost Tank 3 Fed #21

Project Location:

Sampler Name: Roger Hernandez

FOR LAB USE ONLY

P.O. #:

Company: Oxy

Attn: Casey

Address:

City:

State:

Phone #:

Fax #:

Lab I.D.

Sample I.D.

11

SP3 @ 4'

12

SP3 @ 5'

13

SP4 @ 1'

14

SP4 @ 2'

15

SP4 @ 3'

16

SP5 @ 1'

17

SP5 @ 2'

18

SP5 @ 3'

19

SP6 @ 1'

20

SP6 @ 2'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

C1

BTEX

TPH

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

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Relinquished By:

Date: 5/18/16

Time: 5:00 PM

Received By:

Date: 5/20/16

Time: 11:30 AM

Relinquished By:

Date: 5/20/16

Time: 11:30 AM

Relinquished By:

Date: 5/20/16

Time: 11:30 AM

Relinquished By:

Date: 5/20/16

Time: 11:30 AM

Relinquished By:

Date: 5/20/16

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Date: 5/20/16

Time: 11:30 AM

Relinquished By:

Date: 5/20/16

Time: 11:30 AM

Relinquished By:

Date: 5/20/16

Time: 11:30 AM

Relinquished By:

Date: 5/20/16

Time: 11:30 AM

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool / Intact

Yes ☒ No ☐

Yes ☒ No ☐

Yes ☒ No ☐

Yes ☒ No ☐

Yes ☒ No ☐

Yes ☒ No ☐

Yes ☒ No ☐

Yes ☒ No ☐

Yes ☒ No ☐

Yes ☒ No ☐

Yes ☒ No ☐

Yes ☒ No ☐

Yes ☒ No ☐

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

#54



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

October 14, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LOST TANK 3 FEDERAL #21

Enclosed are the results of analyses for samples received by the laboratory on 10/11/16 9:15.

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

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

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

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". 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:	10/11/2016	Sampling Date:	10/07/2016
Reported:	10/14/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 2 @ 4' (H602282-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/12/2016	ND	432	108	400	3.77	

Sample ID: SP 3 @ 4' (H602282-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/12/2016	ND	432	108	400	3.77	

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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

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

10/1

BILL TO

ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

Project #:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

REMARKS:

Phone Result:

Fax Result:

ADD'l Phone #:

ADD'l Fax #:

Relinquished By:

Delivered By:

Sampler - UPS - Bus - Other:

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

From: [Bratcher, Mike, EMNRD](#)
To: [Cliff Brunson](#)
Cc: [Patterson, Heather, EMNRD](#); [Casey Summers](#); [Jennifer_Duarte@oxy.com](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#); [Tucker, Shelly](#)
Subject: RE: OXY Lost Tank 3 Federal #21 - Remediation Plan
Date: Friday, September 2, 2016 1:27:58 PM

RE: OXY USA * Lost Tank 3 fed 21 * 30-015-37920 * **2RP-3693** * DOR: 5/3/16

Cliff,

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

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 Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Friday, August 26, 2016 4:47 PM
To: Bratcher, Mike, EMNRD
Cc: Patterson, Heather, EMNRD; Casey Summers; [Jennifer_Duarte@oxy.com](#); Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY Lost Tank 3 Federal #21 - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the OXY Lost Tank 3 Federal #21 release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this 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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From: [Tucker, Shelly](#)
To: [Cliff Brunson](#)
Cc: [Casey Summers](#); [Jennifer Duarte@oxy.com](mailto:Jennifer_Duarte@oxy.com); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)
Subject: Re: OXY Lost Tank 3 Federal #21 - Remediation Plan
Date: Monday, August 29, 2016 9:00:08 AM

BLM accepts and approves your work plan as written.

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

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
Bureau of Land Management

620 E. Greene St
Carlsbad, NM 88220

575.234.5905 - Direct
575.361.0084 - Cellular

stucker@blm.gov



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

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On Fri, Aug 26, 2016 at 4:47 PM, Cliff Brunson <cbunson@bbcinternational.com> wrote:

Shelly,

I have attached a remediation plan for the Oxy Lost Tank 3 Federal #21 release. This plan

has been approved by Mike Bratcher of the NMOCD. Oxy is requesting the BLM's approval of this plan as well. Upon your review of the materials, it would be appreciated if you would respond via email with the BLM's approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

Mailing Address:

P. O. Box 805

Hobbs, NM 88241-0805 USA

Shipping Address:

1324 W. Marland St.

Hobbs, NM 88240 USA

Phone: (575) 397-6388

Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com



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