



DELINEATION WORKPLAN

OXY – LOST TANK 3 FEDERAL #25 SWD (Leak Dates: 03/1/17, 05/15/17)

RP # 2RP-4149, 2RP-4212

This delineation workplan and remediation proposal addresses the releases associated with RP # 2RP-4149 and 2RP-4212.

The following information includes:

1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
2. GPS information for sample points and sample methodology
3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
4. Laboratory analysis results summary table and original laboratory analysis reports
5. A copy of the initial C-141
6. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

OXY will excavate the spill areas as depicted on the following site diagram. The leak areas in pink shade will be excavated to a depth of 6 inches. As discussed, OXY is going to dismantle the existing battery and move it to a temporary location so delineation and remediation activities may occur at the current battery location. OXY will be keeping both the OCD and BLM informed of the progress and will present a plan for the remediation of the current battery area. When that is completed, a new permanent facility will be constructed in the original location.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

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

Oxy, Lost Tank 3 Federal #25 SWD

Leak date: 03/01/17 (blue and red)

Leak date: 05/15/17 (green)

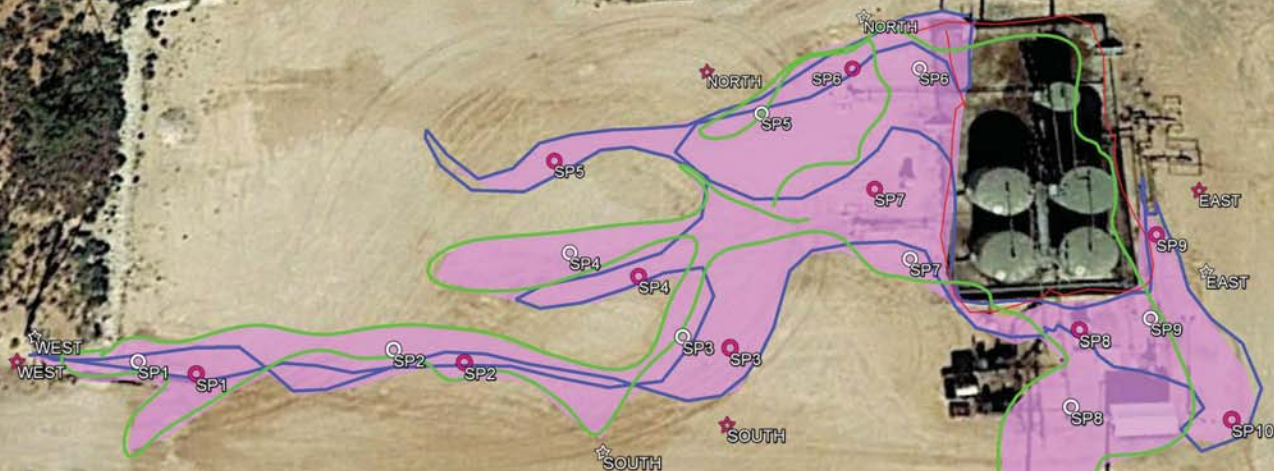
Eddy County, NM

API# 30-015-38254

2RP-4149 and 2RP-4212

Legend

- 6 inch Excavation
- Cardinal sample points, 03/01/17
- Cardinal sample points, 05/15/17
- Leak Area 1, 3-1-17
- Leak Area 2, 3-1-17
- Leak Area 5-15-17
- Sample points, 03/01/17
- Sample points, 05/15/17



Oxy, Lost Tank 3 Federal #25 SWD (3/1/17)

Sample points, hand auger

SP1, N 32.42380 W-103.75940

SP2, N 32.42381 W-103.75918

SP3, N 32.42382 W-103.75896

SP4, N 32.42388 W-103.75904

SP5, N 32.42398 W-103.75912

SP6, N 32.42406 W-103.75886

SP7, N 32.42395 W-103.75884

SP8, N 32.42383 W-103.75867

SP9, N 32.42391 W-103.75860

SP10, N 32.42376 W-103.75855

NORTH, N 32.42406 W-103.75899

SOUTH, N 32.42376 W-103.75896

EAST, N 32.42395 W-103.75856

WEST, N 32.42381 W-103.75955

Oxy, Lost Tank 3 Federal #25 SWD (5/15/17)

Sample points, hand auger

SP1, N 32.42381 W-103.75945

SP2, N 32.42382 W-103.75924

SP3, N 32.42383 W-103.75900

SP4, N 32.42390 W-103.75910

SP5, N 32.42402 W-103.75894

SP6, N 32.42406 W-103.75880

SP7, N 32.42389 W-103.75881

SP8, N 32.42377 W-103.75868

SP9, N 32.42384 W-103.75861

NORTH, N 32.42411 W-103.75885

SOUTH, N 32.42374 W-103.75906

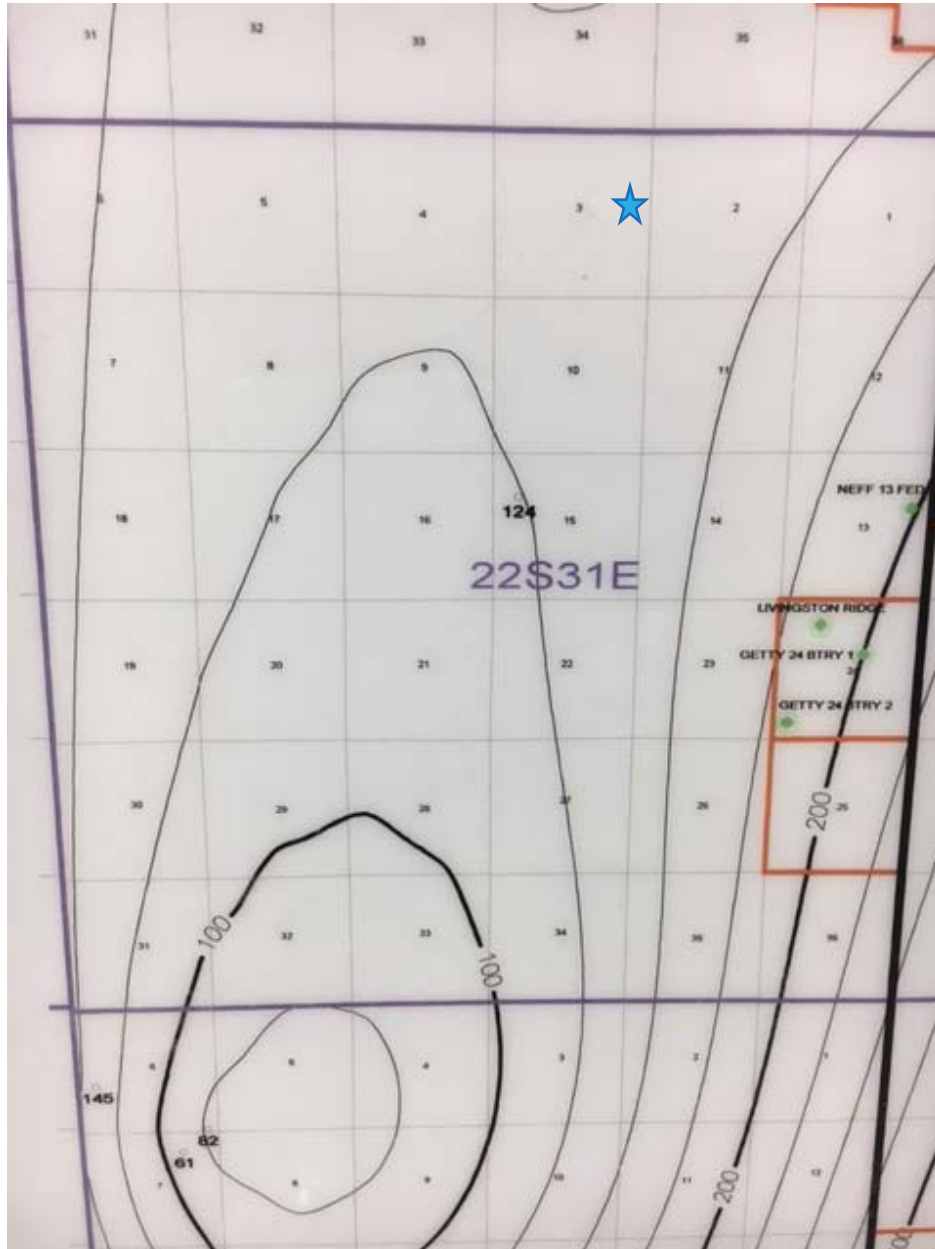
EAST, N 32.42388 W-103.75856

WEST, N 32.42383 W-103.75954

Oxy, Lost Tank 3-25 SWD Facility

U/L H, Section 3, T22S, R31E

Groundwater: 125'-150'





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_02949 EXPL			ED	1	1	4	34	21S	31E	616140	3589231*	<input type="text"/>	1399	970	
C_02744			ED	3	2	1	11	22S	31E	617374	3586631*	<input type="text"/>	1483	4911	

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 616657

Northing (Y): 3587930

Radius: 1700

*UTM location was derived from PLSS - see Help

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

3/23/17 2:52 PM

WATER COLUMN/ AVERAGE DEPTH TO
WATER

Public Land Survey System (PLSS)

Q64:

Q16:

SE

Q4:

NE

Sec:

03

Tws:

22S

Rng:

31E

State Plane Coordinate System - NAD27

X:

0

ft

Y:

0

ft

Zone:

State Plane Coordinate System - NAD83

X:

0

ft

Y:

0

ft

Zone:

Degrees/Minutes/Seconds

Longitude (X):

Degrees:

0

°

Minutes:

0

'

Seconds:

0

"

Latitude (Y):

Degrees:

0

°

Minutes:

0

'

Seconds:

0

"

UTM - NAD27

Easting (X):

0

mtrs

Northing (Y):

0

mtrs

Zone:

SUBMIT

All Conversion Results are displayed as NAD 1983 UTM Zone 13

Easting (X):

616657.0

mtrs

Northing (Y):

3587930.0

mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~

Laboratory Analytical Results Summary
Lost Tank 3 Fed #25 SWD

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 6'
Analyte	Method	Date	3/31/17	3/31/17	3/31/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		59200	144	192
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 6'
Analyte	Method	Date	3/31/17	3/31/17
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		112	176

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 6'
Analyte	Method	Date	3/31/17	3/31/17	3/31/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		56000	176	96
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP4 @ 1'	SP4 @ 6'
Analyte	Method	Date	3/31/17	3/31/17
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		96	96

		Sample	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 6'
Analyte	Method	Date	3/31/17	3/31/17	3/31/17
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		50400	96	48

		Sample	SP6 @ 1'	SP6 @ 6'
Analyte	Method	Date	3/31/17	3/31/17
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		32	32

		Sample	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 6'
Analyte	Method	Date	3/31/17	3/31/17	3/31/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenz	BTEX 8021B		<0.050	<0.050	<0.050
Total Xyle	BTEX 8021B		<0.150	<0.150	<0.150
Total BTE	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		308000	48	48
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		893	<10.0	<10.0

		Sample	SP8 @ 1'	SP8 @ 2'	SP8 @ 7'
Analyte	Method	Date	3/31/17	3/31/17	3/31/17
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		2800	64	48

		Sample	SP9 @ 1'	SP9 @ 6'
Analyte	Method	Date	3/31/17	3/31/17
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		128	144

		Sample	SP10 @ SURFACE	SP10 @ 1'	SP10 @ 6'
Analyte	Method	Date	3/31/17	3/31/17	3/31/17
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		65600	64	64

		Sample	NORTH @ SURFACE
Analyte	Method	Date	3/31/17
			mg/Kg
Chloride	SM4500Cl-B		32

		Sample	EAST @ SURFACE
Analyte	Method	Date	3/31/17
			mg/Kg
Chloride	SM4500Cl-B		48

		Sample	WEST @ SURFACE
Analyte	Method	Date	3/31/17
			mg/Kg
Chloride	SM4500Cl-B		32

		Sample	SOUTH @ SURFACE
Analyte	Method	Date	3/31/17
			mg/Kg
Chloride	SM4500Cl-B		48

Laboratory Analytical Results Summary
Lost Tank 3-25 Facility

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 6'
Analyte	Method	Date	5/25/17	5/25/17	5/25/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		16200	16	32
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 6'
Analyte	Method	Date	5/25/17	5/25/17
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		<16.0	64

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 6'
Analyte	Method	Date	5/25/17	5/25/17	5/25/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		25200	16	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP4 @ 1'	SP4 @ 6'
Analyte	Method	Date	5/25/17	5/25/17
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		192	64

		Sample	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 6'
Analyte	Method	Date	5/25/17	5/25/17	5/25/17
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		16400	160	48

		Sample	SP6 @ 1'	SP6 @ 6'
Analyte	Method	Date	5/25/17	5/25/17
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		176	64

		Sample	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 6'
Analyte	Method	Date	5/25/17	5/25/17	5/25/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		38400	48	64
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP8 @ 1'	SP8 @ 2'	SP8 @ 7'
Analyte	Method	Date	5/25/17	5/25/17	5/25/17
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		2440	368	64

		Sample	SP9 @ 1'	SP9 @ 6'
Analyte	Method	Date	5/25/17	5/25/17
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		64	48

		Sample	NORTH @ SURFACE
Analyte	Method	Date	5/25/17
			mg/Kg
Chloride	SM4500Cl-B		32

		Sample	SOUTH @ SURFACE
Analyte	Method	Date	5/25/17
			mg/Kg
Chloride	SM4500Cl-B		16

		Sample	EAST @ SURFACE
Analyte	Method	Date	5/25/17
			mg/Kg
Chloride	SM4500Cl-B		16

		Sample	WEST @ SURFACE
Analyte	Method	Date	5/25/17
			mg/Kg
Chloride	SM4500Cl-B		16

April 12, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LOST TANK 3 FED #25 SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/05/17 8:55.

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,



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:	04/05/2017	Sampling Date:	03/31/2017
Reported:	04/12/2017	Sampling Type:	Soil
Project Name:	LOST TANK 3 FED #25 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ SURFACE (H700885-01)

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	04/07/2017	ND	1.83	91.6	2.00	0.0628	
Toluene*	<0.050	0.050	04/07/2017	ND	1.86	92.9	2.00	0.0221	
Ethylbenzene*	<0.050	0.050	04/07/2017	ND	1.89	94.7	2.00	0.255	
Total Xylenes*	<0.150	0.150	04/07/2017	ND	5.38	89.7	6.00	0.254	
Total BTX	<0.300	0.300	04/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	59200	16.0	04/06/2017	ND	416	104	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	04/06/2017	ND	199	99.7	200	4.67	
DRO >C10-C28	<10.0	10.0	04/06/2017	ND	213	106	200	5.98	

Surrogate: 1-Chlorooctane 91.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 93.2 % 34.7-157

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: 04/05/2017
Reported: 04/12/2017
Project Name: LOST TANK 3 FED #25 SWD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/31/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 1' (H700885-02)

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	04/07/2017	ND	1.83	91.6	2.00	0.0628	
Toluene*	<0.050	0.050	04/07/2017	ND	1.86	92.9	2.00	0.0221	
Ethylbenzene*	<0.050	0.050	04/07/2017	ND	1.89	94.7	2.00	0.255	
Total Xylenes*	<0.150	0.150	04/07/2017	ND	5.38	89.7	6.00	0.254	
Total BTX	<0.300	0.300	04/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 72-148

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/06/2017	ND	416	104	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	04/06/2017	ND	199	99.7	200	4.67	
DRO >C10-C28	<10.0	10.0	04/06/2017	ND	213	106	200	5.98	

Surrogate: 1-Chlorooctane 105 % 28.3-164

Surrogate: 1-Chlorooctadecane 105 % 34.7-157

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:	04/05/2017	Sampling Date:	03/31/2017
Reported:	04/12/2017	Sampling Type:	Soil
Project Name:	LOST TANK 3 FED #25 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 6' (H700885-03)

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	04/07/2017	ND	1.83	91.6	2.00	0.0628		
Toluene*	<0.050	0.050	04/07/2017	ND	1.86	92.9	2.00	0.0221		
Ethylbenzene*	<0.050	0.050	04/07/2017	ND	1.89	94.7	2.00	0.255		
Total Xylenes*	<0.150	0.150	04/07/2017	ND	5.38	89.7	6.00	0.254		
Total BTEx	<0.300	0.300	04/07/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/06/2017	ND	416	104	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	04/06/2017	ND	199	99.7	200	4.67	
DRO >C10-C28	<10.0	10.0	04/06/2017	ND	213	106	200	5.98	

Surrogate: 1-Chlorooctane 110 % 28.3-164

Surrogate: 1-Chlorooctadecane 108 % 34.7-157

Sample ID: SP 2 @ 1' (H700885-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/06/2017	ND	416	104	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:	04/05/2017	Sampling Date:	03/31/2017
Reported:	04/12/2017	Sampling Type:	Soil
Project Name:	LOST TANK 3 FED #25 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 6' (H700885-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/06/2017	ND	416	104	400	0.00	

Sample ID: SP 3 @ SURFACE (H700885-06)

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	04/07/2017	ND	1.83	91.6	2.00	0.0628	
Toluene*	<0.050	0.050	04/07/2017	ND	1.86	92.9	2.00	0.0221	
Ethylbenzene*	<0.050	0.050	04/07/2017	ND	1.89	94.7	2.00	0.255	
Total Xylenes*	<0.150	0.150	04/07/2017	ND	5.38	89.7	6.00	0.254	
Total BTEx	<0.300	0.300	04/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	56000	16.0	04/06/2017	ND	416	104	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	04/06/2017	ND	199	99.7	200	4.67	
DRO >C10-C28	<10.0	10.0	04/06/2017	ND	213	106	200	5.98	

Surrogate: 1-Chlorooctane 98.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 100 % 34.7-157

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

Received: 04/05/2017
Reported: 04/12/2017
Project Name: LOST TANK 3 FED #25 SWD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/31/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 1' (H700885-07)

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	04/07/2017	ND	2.20	110	2.00	0.945	
Toluene*	<0.050	0.050	04/07/2017	ND	2.01	100	2.00	0.959	
Ethylbenzene*	<0.050	0.050	04/07/2017	ND	2.01	100	2.00	1.01	
Total Xylenes*	<0.150	0.150	04/07/2017	ND	5.73	95.5	6.00	1.10	
Total BTEx	<0.300	0.300	04/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/06/2017	ND	416	104	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	04/06/2017	ND	199	99.7	200	4.67	
DRO >C10-C28	<10.0	10.0	04/06/2017	ND	213	106	200	5.98	

Surrogate: 1-Chlorooctane 104 % 28.3-164

Surrogate: 1-Chlorooctadecane 106 % 34.7-157

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

Received:	04/05/2017	Sampling Date:	03/31/2017
Reported:	04/12/2017	Sampling Type:	Soil
Project Name:	LOST TANK 3 FED #25 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 6' (H700885-08)

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	04/07/2017	ND	2.20	110	2.00	0.945		
Toluene*	<0.050	0.050	04/07/2017	ND	2.01	100	2.00	0.959		
Ethylbenzene*	<0.050	0.050	04/07/2017	ND	2.01	100	2.00	1.01		
Total Xylenes*	<0.150	0.150	04/07/2017	ND	5.73	95.5	6.00	1.10		
Total BTEx	<0.300	0.300	04/07/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/06/2017	ND	416	104	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	04/06/2017	ND	199	99.7	200	4.67	
DRO >C10-C28	<10.0	10.0	04/06/2017	ND	213	106	200	5.98	

Surrogate: 1-Chlorooctane 98.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 103 % 34.7-157

Sample ID: SP 4 @ 1' (H700885-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/06/2017	ND	416	104	400	0.00	

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

 Received: 04/05/2017
 Reported: 04/12/2017
 Project Name: LOST TANK 3 FED #25 SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/31/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ 6' (H700885-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/06/2017	ND	416	104	400	0.00	

Sample ID: SP 5 @ SURFACE (H700885-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	50400	16.0	04/06/2017	ND	416	104	400	0.00	

Sample ID: SP 5 @ 1' (H700885-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/06/2017	ND	416	104	400	0.00	

Sample ID: SP 5 @ 6' (H700885-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/06/2017	ND	416	104	400	0.00	

Sample ID: SP 6 @ 1' (H700885-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/06/2017	ND	416	104	400	0.00	

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Received:	04/05/2017	Sampling Date:	03/31/2017
Reported:	04/12/2017	Sampling Type:	Soil
Project Name:	LOST TANK 3 FED #25 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 6' (H700885-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/06/2017	ND	416	104	400	0.00	

Sample ID: SP 7 @ SURFACE (H700885-16)

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	04/07/2017	ND	2.20	110	2.00	0.945	
Toluene*	<0.050	0.050	04/07/2017	ND	2.01	100	2.00	0.959	
Ethylbenzene*	<0.050	0.050	04/07/2017	ND	2.01	100	2.00	1.01	
Total Xylenes*	<0.150	0.150	04/07/2017	ND	5.73	95.5	6.00	1.10	
Total BTEX	<0.300	0.300	04/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	308000	16.0	04/06/2017	ND	416	104	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	04/06/2017	ND	199	99.7	200	4.67	
DRO >C10-C28	893	10.0	04/06/2017	ND	213	106	200	5.98	

Surrogate: 1-Chlorooctane 86.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.9 % 34.7-157

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

Received: 04/05/2017
Reported: 04/12/2017
Project Name: LOST TANK 3 FED #25 SWD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/31/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 7 @ 1' (H700885-17)

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	04/07/2017	ND	2.20	110	2.00	0.945	
Toluene*	<0.050	0.050	04/07/2017	ND	2.01	100	2.00	0.959	
Ethylbenzene*	<0.050	0.050	04/07/2017	ND	2.01	100	2.00	1.01	
Total Xylenes*	<0.150	0.150	04/07/2017	ND	5.73	95.5	6.00	1.10	
Total BTEx	<0.300	0.300	04/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/06/2017	ND	432	108	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	04/06/2017	ND	199	99.7	200	4.67	
DRO >C10-C28	<10.0	10.0	04/06/2017	ND	213	106	200	5.98	

Surrogate: 1-Chlorooctane 113 % 28.3-164

Surrogate: 1-Chlorooctadecane 112 % 34.7-157

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Received:	04/05/2017	Sampling Date:	03/31/2017
Reported:	04/12/2017	Sampling Type:	Soil
Project Name:	LOST TANK 3 FED #25 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 6' (H700885-18)

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	04/07/2017	ND	2.20	110	2.00	0.945	
Toluene*	<0.050	0.050	04/07/2017	ND	2.01	100	2.00	0.959	
Ethylbenzene*	<0.050	0.050	04/07/2017	ND	2.01	100	2.00	1.01	
Total Xylenes*	<0.150	0.150	04/07/2017	ND	5.73	95.5	6.00	1.10	
Total BTEx	<0.300	0.300	04/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/06/2017	ND	432	108	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	04/06/2017	ND	199	99.7	200	4.67	
DRO >C10-C28	<10.0	10.0	04/06/2017	ND	213	106	200	5.98	

Surrogate: 1-Chlorooctane 94.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 98.9 % 34.7-157

Sample ID: SP 8 @ 1' (H700885-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	04/06/2017	ND	432	108	400	0.00	

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

Received: 04/05/2017
Reported: 04/12/2017
Project Name: LOST TANK 3 FED #25 SWD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/31/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 8 @ 2' (H700885-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/06/2017	ND	432	108	400	0.00	

Sample ID: SP 8 @ 7' (H700885-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/06/2017	ND	432	108	400	0.00	

Sample ID: SP 9 @ 1' (H700885-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/06/2017	ND	432	108	400	0.00	

Sample ID: SP 9 @ 6' (H700885-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/06/2017	ND	432	108	400	0.00	

Sample ID: SP 10 @ SURFACE (H700885-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	65600	16.0	04/06/2017	ND	432	108	400	0.00	

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

Received:	04/05/2017	Sampling Date:	03/31/2017
Reported:	04/12/2017	Sampling Type:	Soil
Project Name:	LOST TANK 3 FED #25 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 10 @ 1' (H700885-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/06/2017	ND	432	108	400	0.00	

Sample ID: SP 10 @ 6' (H700885-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/06/2017	ND	432	108	400	0.00	

Sample ID: NORTH @ SURFACE (H700885-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/06/2017	ND	432	108	400	0.00	

Sample ID: EAST @ SURFACE (H700885-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/06/2017	ND	432	108	400	0.00	

Sample ID: WEST @ SURFACE (H700885-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/06/2017	ND	432	108	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: 04/05/2017
Reported: 04/12/2017
Project Name: LOST TANK 3 FED #25 SWD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/31/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SOUTH @ SURFACE (H700885-30)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/06/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1083

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #: LOST TANK 3 FED #25 SWD

Project Location: EDDY COUNTY, NM

Sampler Name: JEFF ORNELAS

P.O. #:

Company: Oxy

Attn: Casey Summers

Address:

City:

State: Zip:

Phone #:

Fax #:

BILL TO

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :												
1	SP1 @ SURFACE		1							3/31/17	8:30 AM	✓	✓	✓							
2	SP1 @ 1'		1							3/31/17	8:45 AM	✓	✓	✓							
3	SP1 @ 6'		1							3/31/17	9:30 AM	✓	✓	✓							
4	SP2 @ 1'		1							3/31/17	9:59 AM	✓	✓	✓							
5	SP2 @ 6'		1							3/31/17	10:15 AM	✓	✓	✓							
6	SP3 @ SURFACE		1							3/31/17	10:45 AM	✓	✓	✓							
7	SP3 @ 1'		1							3/31/17	11:11 AM	✓	✓	✓							
8	SP3 @ 6'		1							3/31/17	11:18 AM	✓	✓	✓							
9	SP4 @ 1'		1							3/31/17	11:33 AM	✓	✓	✓							
10	SP4 @ 6'		1							3/31/17	11:49 AM	✓	✓	✓							

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Relinquished By: <i>Jeff Ornelas</i>	Date: <i>3/31/17</i>	Received By: <i>Samuel Black</i>	Time: <i>5:30pm</i>
Date: <i>4-5-17</i>	Time: <i>8:55</i>	Sample Condition: <i>Intact</i>	CHECKED BY: <i>TO #75</i>
Delivered By: (Circle One)		Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Sampler - UPS - Bus - Other:			

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

203

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 #25 SWD

Project Location: EDDY COUNTY, NM

Sample Name: JEFF ORNELAS

P.O. #:

Company: Oxy

Attn: Casey Summers

Address:

City:

State: Zip:

Phone #:

Fax #:

BILL TO

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV	SAMPLING	DATE	TIME	C1	TPH	BTEX						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE													
11	SP5 @ SURFACE	✓	1	✓							3/31/17	12:00 PM	✓								
12	SP5 @ 1'	✓	1	✓							3/31/17	1:01 PM	✓								
13	SP5 @ 6'	✓	1	✓							3/31/17	1:18 PM	✓								
14	SP6 @ 1'	✓	1	✓							3/31/17	1:30 PM	✓								
15	SP6 @ 6'	✓	1	✓							3/31/17	1:50 PM	✓								
16	SP7 @ SURFACE	✓	1	✓							3/31/17	1:58 PM	✓								
17	SP7 @ 1'	✓	1	✓							3/31/17	2:15 PM	✓								
18	SP7 @ 6'	✓	1	✓							3/31/17	2:22 PM	✓								
19	SP8 @ 1'	✓	1	✓							3/31/17	2:33 PM	✓								
20	SP8 @ 2'	✓	1	✓							3/31/17	2:40 PM	✓								

PLEASE NOTE: Liability and claims are excluded for any claim arising from the use of this form. The amount paid by the client for the analysis is not a guarantee of the accuracy of the results. The client is responsible for the accuracy of the information provided. The client is responsible for the accuracy of the information provided. The client is responsible for the accuracy of the information provided.

Relinquished By:

Date: 3/31/17

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Relinquished By:

Date: 4-5-17

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Delivered By: (Circle One)

Time: 8:55

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Sampler - UPS - Bus - Other:

Time: 6:16

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

283

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:	
Project Manager: Cliff Brunson		Company: Oxy	
Address: P.O. Box 805		Attn: Casey Summers	
City: Hobbs		Address:	
Phone #: 575-397-6388		City:	
Fax #: 575-397-0397		State:	
Project #: Project Owner: Oxy		Zip:	
Project Name: LOST TANK 3 FED #25 SWD		Phone #:	
Project Location: EDDY COUNTY, NM		Fax #:	
Sample Name: JEFF ORNELAS		PRESERV	
FOR LAB USE ONLY		SAMPLING	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :														
21	SP8 @ 7'	G	1										3/31/17	2:55 PM	✓								
22	SP9 @ 1'	G	1										3/31/17	3:00 PM	✓								
23	SP9 @ 6'	G	1										3/31/17	3:11 PM	✓								
24	SP10 @ SURFACE	G	1										3/31/17	3:12 PM	✓								
25	SP10 @ 1'	G	1										3/31/17	3:15 PM	✓								
26	SP10 @ 6'	G	1										3/31/17	3:25 PM	✓								
27	NORTH @ SURFACE	G	1										3/31/17	3:28 PM	✓								
28	EAST @ SURFACE	G	1										3/31/17	3:33 PM	✓								
29	WEST @ SURFACE	G	1										3/31/17	3:39 PM	✓								
30	SOUTH @ SURFACE	G	1										3/31/17	3:45 PM	✓								

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Relinquished By: *Jeff Ornelas* Date: *3/31/17* Time: *5:30 PM* Received By: *Casey Summers* Date: *4-5-17* Time: *8:55 AM*

Delivered By: (Circle One) ☒ UPS ☐ Bus ☐ Other: *-6:16*

Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☐ No ☐ Yes ☐ No

CHECKED BY: *Casey Summers* (Initials) *TS #15*

REMARKS:

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

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June 01, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LOST TANK 3 FED #25 SWD

Enclosed are the results of analyses for samples received by the laboratory on 05/26/17 16:15.

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,



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: 05/26/2017
Reported: 06/01/2017
Project Name: LOST TANK 3 FED #25 SWD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/25/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ SURFACE (H701412-01)

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	05/31/2017	ND	1.89	94.5	2.00	0.0256	
Toluene*	<0.050	0.050	05/31/2017	ND	1.83	91.5	2.00	0.445	
Ethylbenzene*	<0.050	0.050	05/31/2017	ND	1.91	95.6	2.00	0.290	
Total Xylenes*	<0.150	0.150	05/31/2017	ND	5.23	87.2	6.00	0.317	
Total BTX	<0.300	0.300	05/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16200	16.0	05/31/2017	ND	416	104	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	05/30/2017	ND	193	96.4	200	4.77	
DRO >C10-C28	<10.0	10.0	05/30/2017	ND	187	93.7	200	5.60	

Surrogate: 1-Chlorooctane 89.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 76.6 % 34.7-157

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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:	05/26/2017	Sampling Date:	05/25/2017
Reported:	06/01/2017	Sampling Type:	Soil
Project Name:	LOST TANK 3 FED #25 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H701412-02)

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	05/31/2017	ND	1.89	94.5	2.00	0.0256	
Toluene*	<0.050	0.050	05/31/2017	ND	1.83	91.5	2.00	0.445	
Ethylbenzene*	<0.050	0.050	05/31/2017	ND	1.91	95.6	2.00	0.290	
Total Xylenes*	<0.150	0.150	05/31/2017	ND	5.23	87.2	6.00	0.317	
Total BTX	<0.300	0.300	05/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 72-148

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/31/2017	ND	416	104	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	05/30/2017	ND	193	96.4	200	4.77	
DRO >C10-C28	<10.0	10.0	05/30/2017	ND	187	93.7	200	5.60	

Surrogate: 1-Chlorooctane 82.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 66.8 % 34.7-157

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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:	05/26/2017	Sampling Date:	05/25/2017
Reported:	06/01/2017	Sampling Type:	Soil
Project Name:	LOST TANK 3 FED #25 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 6' (H701412-03)

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	05/31/2017	ND	1.89	94.5	2.00	0.0256	
Toluene*	<0.050	0.050	05/31/2017	ND	1.83	91.5	2.00	0.445	
Ethylbenzene*	<0.050	0.050	05/31/2017	ND	1.91	95.6	2.00	0.290	
Total Xylenes*	<0.150	0.150	05/31/2017	ND	5.23	87.2	6.00	0.317	
Total BTX	<0.300	0.300	05/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/31/2017	ND	416	104	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	05/30/2017	ND	193	96.4	200	4.77	
DRO >C10-C28	<10.0	10.0	05/30/2017	ND	187	93.7	200	5.60	

Surrogate: 1-Chlorooctane 91.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 78.1 % 34.7-157

Sample ID: SP 2@ 1' (H701412-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/31/2017	ND	416	104	400	3.77	

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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:	05/26/2017	Sampling Date:	05/25/2017
Reported:	06/01/2017	Sampling Type:	Soil
Project Name:	LOST TANK 3 FED #25 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 6' (H701412-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/31/2017	ND	416	104	400	3.77	

Sample ID: SP 3@ SURFACE (H701412-06)

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	05/31/2017	ND	1.89	94.5	2.00	0.0256	
Toluene*	<0.050	0.050	05/31/2017	ND	1.83	91.5	2.00	0.445	
Ethylbenzene*	<0.050	0.050	05/31/2017	ND	1.91	95.6	2.00	0.290	
Total Xylenes*	<0.150	0.150	05/31/2017	ND	5.23	87.2	6.00	0.317	
Total BTEx	<0.300	0.300	05/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25200	16.0	05/31/2017	ND	416	104	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	05/30/2017	ND	193	96.4	200	4.77	
DRO >C10-C28	<10.0	10.0	05/30/2017	ND	187	93.7	200	5.60	

Surrogate: 1-Chlorooctane 93.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 76.3 % 34.7-157

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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:	05/26/2017	Sampling Date:	05/25/2017
Reported:	06/01/2017	Sampling Type:	Soil
Project Name:	LOST TANK 3 FED #25 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' (H701412-07)

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	05/31/2017	ND	1.89	94.5	2.00	0.0256	
Toluene*	<0.050	0.050	05/31/2017	ND	1.83	91.5	2.00	0.445	
Ethylbenzene*	<0.050	0.050	05/31/2017	ND	1.91	95.6	2.00	0.290	
Total Xylenes*	<0.150	0.150	05/31/2017	ND	5.23	87.2	6.00	0.317	
Total BTX	<0.300	0.300	05/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/31/2017	ND	416	104	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	05/31/2017	ND	193	96.4	200	4.77	
DRO >C10-C28	<10.0	10.0	05/31/2017	ND	187	93.7	200	5.60	

Surrogate: 1-Chlorooctane 81.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 70.6 % 34.7-157

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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: 05/26/2017
Reported: 06/01/2017
Project Name: LOST TANK 3 FED #25 SWD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/25/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 6' (H701412-08)

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	05/31/2017	ND	1.89	94.5	2.00	0.0256	
Toluene*	<0.050	0.050	05/31/2017	ND	1.83	91.5	2.00	0.445	
Ethylbenzene*	<0.050	0.050	05/31/2017	ND	1.91	95.6	2.00	0.290	
Total Xylenes*	<0.150	0.150	05/31/2017	ND	5.23	87.2	6.00	0.317	
Total BTX	<0.300	0.300	05/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 72-148

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/31/2017	ND	416	104	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	05/31/2017	ND	193	96.4	200	4.77	
DRO >C10-C28	<10.0	10.0	05/31/2017	ND	187	93.7	200	5.60	

Surrogate: 1-Chlorooctane 92.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 76.0 % 34.7-157

Sample ID: SP 4 @ 1' (H701412-09)

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/31/2017	ND	416	104	400	3.77	

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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:	05/26/2017	Sampling Date:	05/25/2017
Reported:	06/01/2017	Sampling Type:	Soil
Project Name:	LOST TANK 3 FED #25 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 6' (H701412-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/31/2017	ND	416	104	400	3.77		

Sample ID: SP 5 @ SURFACE (H701412-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16400	16.0	05/31/2017	ND	432	108	400	0.00	QM-07	

Sample ID: SP 5 @ 1' (H701412-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	05/31/2017	ND	432	108	400	0.00		

Sample ID: SP 5 @ 6' (H701412-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/31/2017	ND	432	108	400	0.00		

Sample ID: SP 6 @ 1' (H701412-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/31/2017	ND	432	108	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:	05/26/2017	Sampling Date:	05/25/2017
Reported:	06/01/2017	Sampling Type:	Soil
Project Name:	LOST TANK 3 FED #25 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 6' (H701412-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/31/2017	ND	432	108	400	0.00		

Sample ID: SP 7 @ SURFACE (H701412-16)

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	05/31/2017	ND	1.89	94.5	2.00	0.0256	
Toluene*	<0.050	0.050	05/31/2017	ND	1.83	91.5	2.00	0.445	
Ethylbenzene*	<0.050	0.050	05/31/2017	ND	1.91	95.6	2.00	0.290	
Total Xylenes*	<0.150	0.150	05/31/2017	ND	5.23	87.2	6.00	0.317	
Total BTEX	<0.300	0.300	05/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	38400	16.0	05/31/2017	ND	432	108	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	05/31/2017	ND	193	96.4	200	4.77	
DRO >C10-C28	<10.0	10.0	05/31/2017	ND	187	93.7	200	5.60	

Surrogate: 1-Chlorooctane 89.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 72.9 % 34.7-157

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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:	05/26/2017	Sampling Date:	05/25/2017
Reported:	06/01/2017	Sampling Type:	Soil
Project Name:	LOST TANK 3 FED #25 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 1' (H701412-17)

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	05/31/2017	ND	1.89	94.5	2.00	0.0256	
Toluene*	<0.050	0.050	05/31/2017	ND	1.83	91.5	2.00	0.445	
Ethylbenzene*	<0.050	0.050	05/31/2017	ND	1.91	95.6	2.00	0.290	
Total Xylenes*	<0.150	0.150	05/31/2017	ND	5.23	87.2	6.00	0.317	
Total BTX	<0.300	0.300	05/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/31/2017	ND	432	108	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	05/31/2017	ND	193	96.4	200	4.77	
DRO >C10-C28	<10.0	10.0	05/31/2017	ND	187	93.7	200	5.60	

Surrogate: 1-Chlorooctane 101 % 28.3-164

Surrogate: 1-Chlorooctadecane 77.7 % 34.7-157

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Analytical Results For:

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

Received:	05/26/2017	Sampling Date:	05/25/2017
Reported:	06/01/2017	Sampling Type:	Soil
Project Name:	LOST TANK 3 FED #25 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 6' (H701412-18)

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	05/31/2017	ND	1.89	94.5	2.00	0.0256	
Toluene*	<0.050	0.050	05/31/2017	ND	1.83	91.5	2.00	0.445	
Ethylbenzene*	<0.050	0.050	05/31/2017	ND	1.91	95.6	2.00	0.290	
Total Xylenes*	<0.150	0.150	05/31/2017	ND	5.23	87.2	6.00	0.317	
Total BTX	<0.300	0.300	05/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/31/2017	ND	432	108	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	05/31/2017	ND	193	96.4	200	4.77	
DRO >C10-C28	<10.0	10.0	05/31/2017	ND	187	93.7	200	5.60	

Surrogate: 1-Chlorooctane 98.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 78.4 % 34.7-157

Sample ID: SP 8 @ 1' (H701412-19)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	05/31/2017	ND	432	108	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: 05/26/2017
Reported: 06/01/2017
Project Name: LOST TANK 3 FED #25 SWD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/25/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 8 @ 2' (H701412-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	05/31/2017	ND	432	108	400	0.00		

Sample ID: SP 8 @ 7' (H701412-21)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/31/2017	ND	432	108	400	0.00	

Sample ID: SP 9 @ 1' (H701412-22)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/31/2017	ND	432	108	400	0.00		

Sample ID: SP 9 @ 6' (H701412-23)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/31/2017	ND	432	108	400	0.00		

Sample ID: NORTH (H701412-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/31/2017	ND	432	108	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: 05/26/2017
Reported: 06/01/2017
Project Name: LOST TANK 3 FED #25 SWD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/25/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SOUTH (H701412-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/31/2017	ND	432	108	400	0.00		

Sample ID: EAST (H701412-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/31/2017	ND	432	108	400	0.00	

Sample ID: WEST (H701412-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/31/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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



Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 15 of 17



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND 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:

Project Location:

Sampler Name:

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

BILL TO

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE			ACID/BASE:	ICE / COOL	OTHER :	PRESERV		SAMPLING				
H701412	SP50 Square		1						5-25-17	1100	TPH	BTEX	CL-							
11	SP50 Square		1						5-25-17	1100										
12	SP50 Square		1						5-25-17	1108										
13	SP50 Square		1						5-25-17	1120										
14	SP50 Square		1						5-25-17	1120										
15	SP50 Square		1						5-25-17	1159										
16	SP50 Square		1						5-25-17	1128										
17	SP50 Square		1						5-25-17	1128										
18	SP50 Square		1						5-25-17	1141										
19	SP50 Square		1						5-25-17	1141										
20	SP50 Square		1						5-25-17	1155										

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Relinquished By:

Date:

Received By:

Phone Result:

Fax Result:

REMARKS:

Relinquished By:

Date:

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☐

CHECKED BY:

INITIALS

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

ORDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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	PO Box 4294; Houston, TX 77210	Telephone No.	(575) 513-8289
Facility Name	Lost Tank 3 Federal #25 SWD	Facility Type	Battery

Surface Owner	BLM	Mineral Owner		API No.	30-015-38254
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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
H	3	22S	31E					Eddy County, NM

Latitude N 32.42385° Longitude W 103.75895°

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	25 bbl produced water	Volume Recovered	14 bbls produced water
Source of Release	Power failure caused a tank spill	Date and Hour of Occurrence	03/01/2017	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher, Shelly Tucker- BLM		
By Whom?	Kathy Purvis @ BBC International Inc.	Date and Hour	03/03/2017 @ 9:35 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

A water tank spilled 25 bbl of produced water due to a power failure. A vacuum truck recovered 14 bbls of produced water. Power was restored.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 40' x 60' on location. Remediation will be completed in accordance with an approved remediation plan from NMOCD and the BLM.

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

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Casey Summers		Approved by Environmental Specialist:	
Title: NM Environmental Advisor		Approval Date:	Expiration Date:
E-mail Address: Casey_Summers@oxy.com		Conditions of Approval:	
Date: <u>3-17-17</u> Phone: (575) 513-8289		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

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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 April 3, 2017

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 USA INC	Contact	CASEY L SUMMERS
Address	PO BOX 4294; HOUSTON, TX 77210	Telephone No.	575-513-8289
Facility Name	LOST TANK 3 FEDERAL #25 SWD	Facility Type	BATTERY
Surface Owner	FEDERAL	Mineral Owner	FEDERAL
		API No.	30-015-38254

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	3	22S	31E	1500	NORTH	541	EAST	EDDY

Latitude N 32.42385 Longitude W -103.75895 NAD83

NATURE OF RELEASE

Type of Release:	OIL & PRODUCED WATER	Volume of Release	5 bbls OIL & 70 bbls PW	Volume Recovered	60 bbls recovered
Source of Release:	Skim tank ran over due to automation issues	Date and Hour of Occurrence	05-15-2017	Date and Hour of Discovery	05-16-2017
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; CRYSTAL WEAVER-NMOCD; SHELLY TUCKER-BLM		
By Whom?	CASEY L SUMMERS	Date and Hour	5-16-2017 @ 9:02 am		
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.*

Leak was caused by a skim tank running over due to automation issues. Automation issues have been resolved and recovered 60 bbls free fluids via vacuum truck.

Describe Area Affected and Cleanup Action Taken.*

The approximate area impacted by the release is 60x45 ft (measurements are subject to change with future GPS track). Remediation will be completed in accordance with a remediation plan approved by the NMOCD and BLM.

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

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: CASEY L SUMMERS		Approved by Environmental Specialist:	
Title: ENVIRONMENTAL ADVISOR	Approval Date:	Expiration Date:	
E-mail Address: casey_summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 5-17-17	Phone: 575-513-8289		

* Attach Additional Sheets If Necessary