

Closure Report

Site Description

Site Name:	Red Tank 35 Fed #3 SWD Btry 1RP-3973, 4093, 4118, 4267, 4339, 4689
Company:	Oxy USA Inc.
Legal Description:	U/L L, Section 35, T22S, R32E
County:	Lea County, NM
GPS Coordinates:	N 32.34727° W-103.65088°

Release Data

Dates of Release:	10/14/15, 12/23/15, 1/18/16, 4/22/16, 6/21/16, 5/1/17
Types of Release:	Oil and Produced water
Sources of Release:	Varies with each leak
Volumes of Release:	Multiple leaks
Volumes Recovered:	Multiple leaks

Remediation Specifications

Remediation Parameters:	Various excavations were performed in accordance with the approved remediation plan. ***Please see the attached map. Requested confirmation samples were obtained and tested. The results are contained in this report.	
Remediation Activities:	2/8/19 to 4/22/19	
Plan Sent to OCD:	4/11/18	Email from Cliff Brunson to Olivia Yu
OCD Approval of Plan:	4/24/18	Email from Olivia Yu to Cliff Brunson
Plan Sent to BLM:	4/11/18	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	4/16/18	Email from Shelly Tucker to Cliff Brunson

Supporting Documentation

Initial C-141	Provided in the delineation workplan
C-141s, page 6	Signed 4/29/19
Site Diagram	April 2018
Pictures	Remediation pictures prior to and after backfill

Request for Closure

Based on the completion of the remediation plan, BBC International, Inc. requests closure approval from NMOCD.

Cliff Brunson, President, BBC International, Inc.

05/16/2019

Released to Imaging: 4/4/2023 1:40:06 PM

Oxy, Red Tank 35 Federal #3 SWD Battery

Lea County, NM
PI# 30-025-33149
RP-3973, 1RP-4093, 1RP-4118, 1RP-4267, 1RP-4339, 1RP-4689

Legend

 1 ft Excavation

 3.5 ft Excavation

 4 ft Excavation

 Confirmation sample points

 Leak Area 1-18-16

 Leak Area 4-22-16

 Leak Area 6-21-16

 Leak Areas 10-14-15, 12-23-15, & 5-1-17

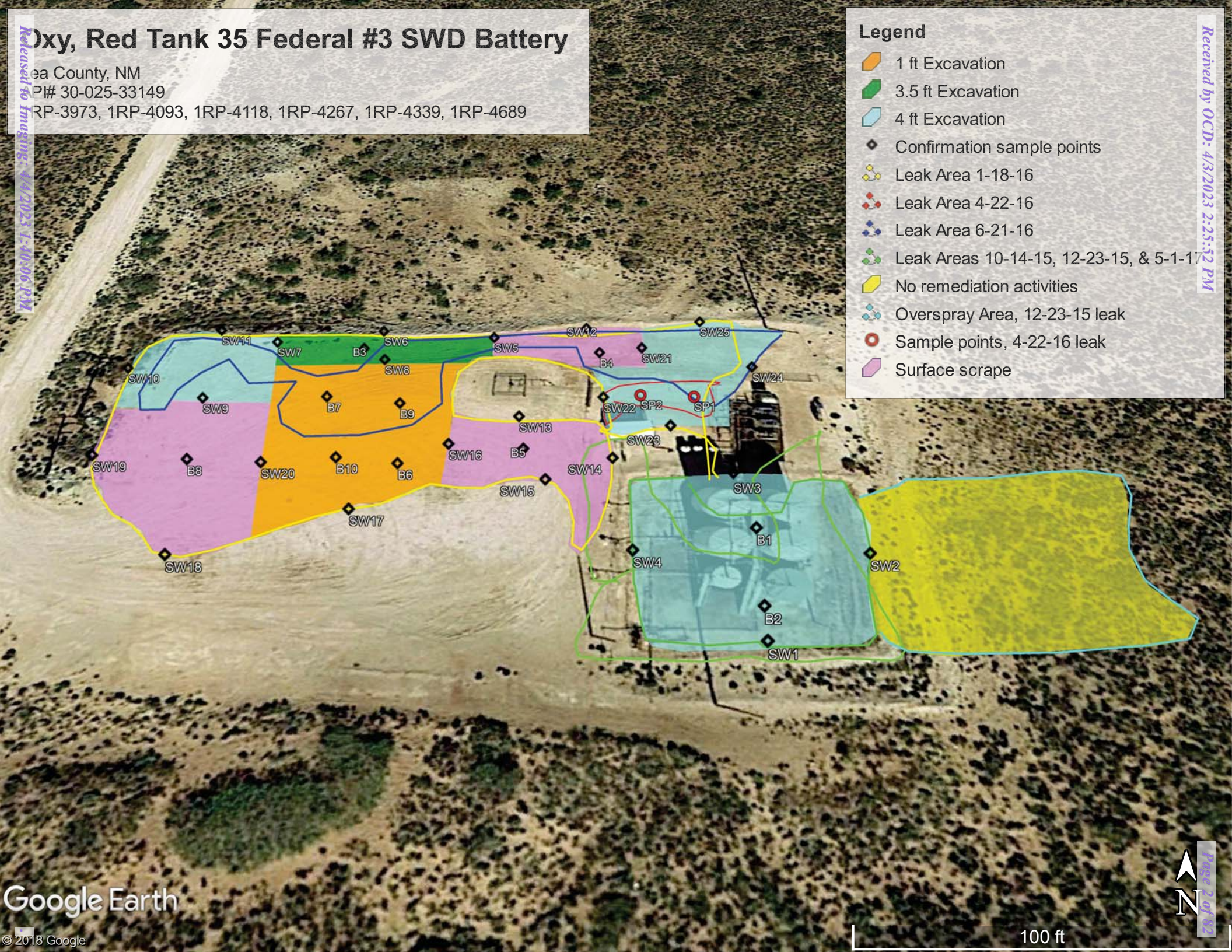
 No remediation activities

 Overspray Area, 12-23-15 leak

 Sample points, 4-22-16 leak

 Surface scrape

Received by OCD: 4/3/2023 2:25:52 PM



Oxy, Red Tank 35 Fed #3 SWD Battery

Confirmation sample points

SW1, N 32.34690 W-103.65050	B1, N 32.34704 W-103.65050
SW2, N 32.34701 W-103.65037	B2, N 32.34694 W-103.65050
SW3, N 32.34712 W-103.65052	B3, N 32.34735 W-103.65100
SW4, N 32.34702 W-103.65064	B4, N 32.34734 W-103.65068
SW5, N 32.34737 W-103.65082	B5, N 32.34717 W-103.65077
SW6, N 32.34739 W-103.65098	B6, N 32.34715 W-103.65092
SW7, N 32.34737 W-103.65112	B7, N 32.34726 W-103.65103
SW8, N 32.34733 W-103.65097	B8, N 32.34715 W-103.65118
SW9, N 32.34726 W-103.65119	B9, N 32.34725 W-103.65093
SW10, N 32.34732 W-103.65130	B10, N 32.34715 W-103.65100
SW11, N 32.34739 W-103.65120	
SW12, N 32.34739 W-103.65070	
SW13, N 32.34722 W-103.65078	
SW14, N 32.34715 W-103.65066	
SW15, N 32.34712 W-103.65074	
SW16, N 32.34718 W-103.65086	
SW17, N 32.34708 W-103.65097	
SW18, N 32.34701 W-103.65116	
SW19, N 32.34716 W-103.65129	
SW20, N 32.34715 W-103.65109	
SW21, N 32.34735 W-103.65062	
SW22, N 32.34725 W-103.65067	
SW23, N 32.34720 W-103.65059	
SW24, N 32.34731 W-103.65048	
SW25, N 32.34731 W-103.65048	

Released to Imaging: 4/4/2023 1:40:06 PM

		Sample ID	SIDEWALL 13
Analyte	Method	Date	3/19/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500-Cl-B		16
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	SIWALL 14
Analyte	Method	Date	3/19/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		16
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	SIDEWALL 15
Analyte	Method	Date	3/19/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	SIDEWALL 16
Analyte	Method	Date	3/19/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		16
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

Laboratory Analytical Results Summary
Red Tank 35 3 SWD Facility (6 leaks)

		Sample ID	SIDEWALL 17
Analyte	Method	Date	3/19/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		16
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	SIDEWALL 18
Analyte	Method	Date	3/19/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	SIDEWALL 19
Analyte	Method	Date	3/19/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		16
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	SIDEWALL 20
Analyte	Method	Date	3/19/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	SIDEWALL 21
Analyte	Method	Date	4/15/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	SIDEWALL 22
Analyte	Method	Date	4/15/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		16
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	SIDEWALL 23
Analyte	Method	Date	4/15/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	SIDEWALL 24
Analyte	Method	Date	4/15/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		16
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	SIDEWALL 25
Analyte	Method	Date	4/15/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		16
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

Laboratory Analytical Results Summary
Red Tank 35 3 SWD Facility (6 leaks)

		Sample ID	BOTTOM 1
Analyte	Method	Date	2/25/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		1220
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	BOTTOM 2
Analyte	Method	Date	2/25/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		1040
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		80.2
EXT DRO	TPH 8015M		<10.0

		Sample ID	BOTTOM 3
Analyte	Method	Date	2/28/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		464
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	BOTTOM 4
Analyte	Method	Date	3/19/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		16
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	BOTTOM 5
Analyte	Method	Date	3/19/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		16
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	BOTTOM 6
Analyte	Method	Date	3/19/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	BOTTOM 7
Analyte	Method	Date	3/19/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		48
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	BOTTOM 8
Analyte	Method	Date	3/19/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		16
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	BOTTOM 9
Analyte	Method	Date	4/15/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		16
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	BOTTOM 10
Analyte	Method	Date	4/15/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		16
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0













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

February 27, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RED TANK 35 FED #3 SWD

Enclosed are the results of analyses for samples received by the laboratory on 02/26/19 9:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/26/2019	Sampling Date:	02/25/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SIDEWALL 1 (H900715-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2019	ND	1.94	97.0	2.00	2.34	
Toluene*	<0.050	0.050	02/26/2019	ND	2.15	108	2.00	1.81	
Ethylbenzene*	<0.050	0.050	02/26/2019	ND	2.20	110	2.00	2.27	
Total Xylenes*	<0.150	0.150	02/26/2019	ND	6.35	106	6.00	2.82	
Total BTEX	<0.300	0.300	02/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	02/26/2019	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	02/26/2019	ND	191	95.6	200	3.09	
DRO >C10-C28*	<10.0	10.0	02/26/2019	ND	194	97.1	200	5.94	
EXT DRO >C28-C36	<10.0	10.0	02/26/2019	ND					

Surrogate: 1-Chlorooctane 90.3 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/26/2019
 Reported: 02/27/2019
 Project Name: RED TANK 35 FED #3 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 02/25/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 2 (H900715-02)

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	02/26/2019	ND	1.94	97.0	2.00	2.34	
Toluene*	<0.050	0.050	02/26/2019	ND	2.15	108	2.00	1.81	
Ethylbenzene*	<0.050	0.050	02/26/2019	ND	2.20	110	2.00	2.27	
Total Xylenes*	<0.150	0.150	02/26/2019	ND	6.35	106	6.00	2.82	
Total BTEx	<0.300	0.300	02/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	02/26/2019	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	02/26/2019	ND	191	95.6	200	3.09	
DRO >C10-C28*	<10.0	10.0	02/26/2019	ND	194	97.1	200	5.94	
EXT DRO >C28-C36	<10.0	10.0	02/26/2019	ND					

Surrogate: 1-Chlorooctane 88.6 % 41-142

Surrogate: 1-Chlorooctadecane 90.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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: 02/26/2019
 Reported: 02/27/2019
 Project Name: RED TANK 35 FED #3 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 02/25/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 3 (H900715-03)

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	02/26/2019	ND	1.94	97.0	2.00	2.34		
Toluene*	<0.050	0.050	02/26/2019	ND	2.15	108	2.00	1.81		
Ethylbenzene*	<0.050	0.050	02/26/2019	ND	2.20	110	2.00	2.27		
Total Xylenes*	<0.150	0.150	02/26/2019	ND	6.35	106	6.00	2.82		
Total BTEx	<0.300	0.300	02/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	02/26/2019	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	02/26/2019	ND	191	95.6	200	3.09	
DRO >C10-C28*	<10.0	10.0	02/26/2019	ND	194	97.1	200	5.94	
EXT DRO >C28-C36	<10.0	10.0	02/26/2019	ND					

Surrogate: 1-Chlorooctane 82.2 % 41-142

Surrogate: 1-Chlorooctadecane 83.5 % 37.6-147

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/26/2019
 Reported: 02/27/2019
 Project Name: RED TANK 35 FED #3 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 02/25/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 4 (H900715-04)

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	02/26/2019	ND	1.94	97.0	2.00	2.34	
Toluene*	<0.050	0.050	02/26/2019	ND	2.15	108	2.00	1.81	
Ethylbenzene*	<0.050	0.050	02/26/2019	ND	2.20	110	2.00	2.27	
Total Xylenes*	<0.150	0.150	02/26/2019	ND	6.35	106	6.00	2.82	
Total BTX	<0.300	0.300	02/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1120	16.0	02/26/2019	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	02/26/2019	ND	191	95.6	200	3.09	
DRO >C10-C28*	<10.0	10.0	02/26/2019	ND	194	97.1	200	5.94	
EXT DRO >C28-C36	<10.0	10.0	02/26/2019	ND					

Surrogate: 1-Chlorooctane 75.5 % 41-142

Surrogate: 1-Chlorooctadecane 76.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/26/2019
 Reported: 02/27/2019
 Project Name: RED TANK 35 FED #3 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 02/25/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 1 (H900715-05)

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	02/26/2019	ND	1.94	97.0	2.00	2.34		
Toluene*	<0.050	0.050	02/26/2019	ND	2.15	108	2.00	1.81		
Ethylbenzene*	<0.050	0.050	02/26/2019	ND	2.20	110	2.00	2.27		
Total Xylenes*	<0.150	0.150	02/26/2019	ND	6.35	106	6.00	2.82		
Total BTEx	<0.300	0.300	02/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	02/26/2019	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	02/26/2019	ND	191	95.6	200	3.09	
DRO >C10-C28*	<10.0	10.0	02/26/2019	ND	194	97.1	200	5.94	
EXT DRO >C28-C36	<10.0	10.0	02/26/2019	ND					

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 95.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/26/2019
 Reported: 02/27/2019
 Project Name: RED TANK 35 FED #3 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 02/25/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 2 (H900715-06)

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	02/26/2019	ND	1.94	97.0	2.00	2.34		
Toluene*	<0.050	0.050	02/26/2019	ND	2.15	108	2.00	1.81		
Ethylbenzene*	<0.050	0.050	02/26/2019	ND	2.20	110	2.00	2.27		
Total Xylenes*	<0.150	0.150	02/26/2019	ND	6.35	106	6.00	2.82		
Total BTEx	<0.300	0.300	02/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	02/26/2019	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	02/26/2019	ND	191	95.6	200	3.09	
DRO >C10-C28*	80.2	10.0	02/26/2019	ND	194	97.1	200	5.94	
EXT DRO >C28-C36	<10.0	10.0	02/26/2019	ND					

Surrogate: 1-Chlorooctane 95.3 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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

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

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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

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

1 of 1

Company Name: BDC International, Inc.		BILL TO		ANALYSIS REQUEST																																																																																																																																
Project Manager: Cliff Brunson		P.O. #:		TPH EXT BTX CL-																																																																																																																																
Address: P.O. Box 805		Company:																																																																																																																																		
City: Hobbs State: NM Zip: 88241		Attn:																																																																																																																																		
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:																																																																																																																																		
Project #:		City:																																																																																																																																		
Project Name: Red Tank 35 FED 3 SWD		State: Zip:																																																																																																																																		
Project Location:		Phone #:																																																																																																																																		
Sampler Name: ROGER HERNANDEZ		Fax #:																																																																																																																																		
<table border="1"> <thead> <tr> <th colspan="3">FOR LAB USE ONLY</th> <th rowspan="2">GRAB OR (C)OMP.</th> <th rowspan="2"># CONTAINERS</th> <th colspan="6">MATRIX</th> <th colspan="2">PRESERV.</th> <th colspan="2">SAMPLING</th> </tr> <tr> <th>Lab I.D.</th> <th colspan="2">Sample I.D.</th> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>OIL</th> <th>SLUDGE</th> <th>OTHER</th> <th>ACID/BASE</th> <th>ICE / COOL</th> <th>OTHER</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>H900715</td> <td>1</td> <td>Sidewall</td> <td>1</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2-25-19</td> <td>1100</td> </tr> <tr> <td></td> <td>2</td> <td>Sidewall</td> <td>2</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2-25-19</td> <td>1120</td> </tr> <tr> <td></td> <td>3</td> <td>Sidewall</td> <td>3</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2-25-19</td> <td>1140</td> </tr> <tr> <td></td> <td>4</td> <td>Sidewall</td> <td>4</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2-25-19</td> <td>1200</td> </tr> <tr> <td></td> <td>5</td> <td>Bottom</td> <td>1</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2-25-19</td> <td>1230</td> </tr> <tr> <td></td> <td>6</td> <td>Bottom</td> <td>2</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2-25-19</td> <td>100</td> </tr> </tbody> </table>														FOR LAB USE ONLY			GRAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	H900715	1	Sidewall	1	G	1								2-25-19	1100		2	Sidewall	2	G	1								2-25-19	1120		3	Sidewall	3	G	1								2-25-19	1140		4	Sidewall	4	G	1								2-25-19	1200		5	Bottom	1	G	1								2-25-19	1230		6	Bottom	2	G	1								2-25-19	100
FOR LAB USE ONLY			GRAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING																																																																																																																							
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	3	Sidewall	3	G	1								2-25-19	1140																																																																																																																						
	4	Sidewall	4	G	1								2-25-19	1200																																																																																																																						
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Relinquished By: Roger Hernandez	Date: 2-25-19	Received By: [Signature]	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By: [Signature]	Date: 2-26-19	Received By: Samara [Signature]	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One)	Time: 0920	Sample Condition: Cool ☒ Intact ☐	REMARKS: RUSH!
Sampler - UPS - Bus - Other:	4.8c #37	CHECKED BY: (Initials) TO-	

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



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

March 04, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RED TANK 35 FED #3 SWD

Enclosed are the results of analyses for samples received by the laboratory on 03/01/19 8:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2019	Sampling Date:	02/28/2019
Reported:	03/04/2019	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SIDEWALL 5 (H900804-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2019	ND	2.19	109	2.00	1.47	
Toluene*	<0.050	0.050	03/02/2019	ND	2.05	102	2.00	2.22	
Ethylbenzene*	<0.050	0.050	03/02/2019	ND	2.14	107	2.00	1.98	
Total Xylenes*	<0.150	0.150	03/02/2019	ND	6.43	107	6.00	1.48	
Total BTEX	<0.300	0.300	03/02/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	03/02/2019	ND	432	108	400	3.64	QM-07	

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	03/02/2019	ND	199	99.4	200	0.0574	
DRO >C10-C28*	<10.0	10.0	03/02/2019	ND	212	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/02/2019	ND					

Surrogate: 1-Chlorooctane 98.5 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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:	03/01/2019	Sampling Date:	02/28/2019
Reported:	03/04/2019	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SIDEWALL 6 (H900804-02)

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	03/02/2019	ND	2.19	109	2.00	1.47	
Toluene*	<0.050	0.050	03/02/2019	ND	2.05	102	2.00	2.22	
Ethylbenzene*	<0.050	0.050	03/02/2019	ND	2.14	107	2.00	1.98	
Total Xylenes*	<0.150	0.150	03/02/2019	ND	6.43	107	6.00	1.48	
Total BTEx	<0.300	0.300	03/02/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	03/02/2019	ND	432	108	400	3.64		

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	03/02/2019	ND	199	99.4	200	0.0574	
DRO >C10-C28*	<10.0	10.0	03/02/2019	ND	212	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/02/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2019	Sampling Date:	02/28/2019
Reported:	03/04/2019	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SIDEWALL 7 (H900804-03)

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	03/02/2019	ND	2.19	109	2.00	1.47		
Toluene*	<0.050	0.050	03/02/2019	ND	2.05	102	2.00	2.22		
Ethylbenzene*	<0.050	0.050	03/02/2019	ND	2.14	107	2.00	1.98		
Total Xylenes*	<0.150	0.150	03/02/2019	ND	6.43	107	6.00	1.48		
Total BTEx	<0.300	0.300	03/02/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/02/2019	ND	432	108	400	3.64		

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	03/02/2019	ND	199	99.4	200	0.0574	
DRO >C10-C28*	<10.0	10.0	03/02/2019	ND	212	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/02/2019	ND					

Surrogate: 1-Chlorooctane 93.8 % 41-142

Surrogate: 1-Chlorooctadecane 99.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2019	Sampling Date:	02/28/2019
Reported:	03/04/2019	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SIDEWALL 8 (H900804-04)

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	03/02/2019	ND	2.19	109	2.00	1.47		
Toluene*	<0.050	0.050	03/02/2019	ND	2.05	102	2.00	2.22		
Ethylbenzene*	<0.050	0.050	03/02/2019	ND	2.14	107	2.00	1.98		
Total Xylenes*	<0.150	0.150	03/02/2019	ND	6.43	107	6.00	1.48		
Total BTEx	<0.300	0.300	03/02/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	03/02/2019	ND	432	108	400	3.64		

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	03/02/2019	ND	199	99.4	200	0.0574	
DRO >C10-C28*	<10.0	10.0	03/02/2019	ND	212	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/02/2019	ND					

Surrogate: 1-Chlorooctane 96.2 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2019	Sampling Date:	02/28/2019
Reported:	03/04/2019	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SIDEWALL 9 (H900804-05)

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	03/02/2019	ND	2.19	109	2.00	1.47	
Toluene*	<0.050	0.050	03/02/2019	ND	2.05	102	2.00	2.22	
Ethylbenzene*	<0.050	0.050	03/02/2019	ND	2.14	107	2.00	1.98	
Total Xylenes*	<0.150	0.150	03/02/2019	ND	6.43	107	6.00	1.48	
Total BTEx	<0.300	0.300	03/02/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/02/2019	ND	432	108	400	3.64	

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	03/02/2019	ND	199	99.4	200	0.0574	
DRO >C10-C28*	<10.0	10.0	03/02/2019	ND	212	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/02/2019	ND					

Surrogate: 1-Chlorooctane 98.0 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2019	Sampling Date:	02/28/2019
Reported:	03/04/2019	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SIDEWALL 10 (H900804-06)

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	03/02/2019	ND	2.19	109	2.00	1.47		
Toluene*	<0.050	0.050	03/02/2019	ND	2.05	102	2.00	2.22		
Ethylbenzene*	<0.050	0.050	03/02/2019	ND	2.14	107	2.00	1.98		
Total Xylenes*	<0.150	0.150	03/02/2019	ND	6.43	107	6.00	1.48		
Total BTEx	<0.300	0.300	03/02/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	03/02/2019	ND	432	108	400	3.64		

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	03/02/2019	ND	199	99.4	200	0.0574	
DRO >C10-C28*	<10.0	10.0	03/02/2019	ND	212	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/02/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2019	Sampling Date:	02/28/2019
Reported:	03/04/2019	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SIDEWALL 11 (H900804-07)

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	03/02/2019	ND	2.19	109	2.00	1.47		
Toluene*	<0.050	0.050	03/02/2019	ND	2.05	102	2.00	2.22		
Ethylbenzene*	<0.050	0.050	03/02/2019	ND	2.14	107	2.00	1.98		
Total Xylenes*	<0.150	0.150	03/02/2019	ND	6.43	107	6.00	1.48		
Total BTEx	<0.300	0.300	03/02/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	03/02/2019	ND	432	108	400	3.64		

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	03/02/2019	ND	199	99.4	200	0.0574	
DRO >C10-C28*	<10.0	10.0	03/02/2019	ND	212	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/02/2019	ND					

Surrogate: 1-Chlorooctane 98.4 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2019	Sampling Date:	02/28/2019
Reported:	03/04/2019	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: BOTTOM 3 (H900804-08)

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	03/02/2019	ND	2.19	109	2.00	1.47	
Toluene*	<0.050	0.050	03/02/2019	ND	2.05	102	2.00	2.22	
Ethylbenzene*	<0.050	0.050	03/02/2019	ND	2.14	107	2.00	1.98	
Total Xylenes*	<0.150	0.150	03/02/2019	ND	6.43	107	6.00	1.48	
Total BTX	<0.300	0.300	03/02/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	03/02/2019	ND	432	108	400	3.64	

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	03/02/2019	ND	199	99.4	200	0.0574	
DRO >C10-C28*	<10.0	10.0	03/02/2019	ND	212	106	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/02/2019	ND					

Surrogate: 1-Chlorooctane 97.2 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST											
Project Manager: Cliff Brunson		P.O. #:		TPH EXT BTX CL-											
Address: P.O. Box 805		Company:													
City: Hobbs State: NM Zip: 88241		Attn: <i>Oxy Waste</i>													
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:													
Project #: Project Owner:		City:													
Project Name: <i>RED TANK 35 FED 3 SWD</i>		State: Zip:													
Project Location:		Phone #:													
Sampler Name: <i>Roger Hernandez</i>		Fax #:													
FOR LAB USE ONLY															
Lab I.D.	Sample I.D.	(GIRAB OR C)COMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING				
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	
<i>H900804</i>															
<i>1</i>	<i>Sidewall</i>	<i>5</i>	<i>G 1</i>			<i>✓</i>				<i>✓</i>			<i>2-28-19</i>	<i>100</i>	<i>✓</i>
<i>2</i>	<i>Sidewall</i>	<i>6</i>	<i>G 1</i>			<i>✓</i>				<i>✓</i>			<i>2-28-19</i>	<i>110</i>	<i>✓</i>
<i>3</i>	<i>Sidewall</i>	<i>7</i>	<i>G 1</i>			<i>✓</i>				<i>✓</i>			<i>2-28-19</i>	<i>120</i>	<i>✓</i>
<i>4</i>	<i>Sidewall</i>	<i>8</i>	<i>G 1</i>			<i>✓</i>				<i>✓</i>			<i>2-28-19</i>	<i>130</i>	<i>✓</i>
<i>5</i>	<i>Sidewall</i>	<i>9</i>	<i>G 1</i>			<i>✓</i>				<i>✓</i>			<i>2-28-19</i>	<i>140</i>	<i>✓</i>
<i>6</i>	<i>Sidewall</i>	<i>10</i>	<i>G 1</i>			<i>✓</i>				<i>✓</i>			<i>2-28-19</i>	<i>150</i>	<i>✓</i>
<i>7</i>	<i>Sidewall</i>	<i>11</i>	<i>G 1</i>			<i>✓</i>				<i>✓</i>			<i>2-28-19</i>	<i>200</i>	<i>✓</i>
<i>8</i>	<i>BOTTOM</i>	<i>3</i>	<i>L 1</i>			<i>✓</i>				<i>✓</i>			<i>2-28-19</i>	<i>210</i>	<i>✓</i>

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Relinquished By: <i>Roger Hernandez</i>	Date: <i>2-28-19</i>	Received By: <i>[Signature]</i>	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: <i>5:00p</i>		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By: <i>[Signature]</i>	Date: <i>3-1-19</i>	Received By: <i>[Signature]</i>	REMARKS:
	Time: <i>08:35</i>		<i>Rush added</i>
Delivered By: (Circle One)		Sample Condition	
Sampler - UPS - Bus - Other: <i>4.8c #11</i>		Cool Intact ☐ Yes ☐ No ☐ Yes ☐ No	
		CHECKED BY: (Initials) <i>TO</i>	

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



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

March 22, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RED TANK 35 FED #3 SWD

Enclosed are the results of analyses for samples received by the laboratory on 03/20/19 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/20/2019	Sampling Date:	03/19/2019
Reported:	03/22/2019	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SIDEWALL 12 (H901072-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2019	ND	2.03	102	2.00	0.832	
Toluene*	<0.050	0.050	03/21/2019	ND	1.90	95.2	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/21/2019	ND	1.99	99.6	2.00	1.04	
Total Xylenes*	<0.150	0.150	03/21/2019	ND	6.06	101	6.00	2.51	
Total BTEX	<0.300	0.300	03/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129

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	03/21/2019	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	03/21/2019	ND	206	103	200	6.02	
DRO >C10-C28*	<10.0	10.0	03/21/2019	ND	209	105	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/20/2019
 Reported: 03/22/2019
 Project Name: RED TANK 35 FED #3 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 03/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 13 (H901072-02)

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	03/21/2019	ND	2.03	102	2.00	0.832	
Toluene*	<0.050	0.050	03/21/2019	ND	1.90	95.2	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/21/2019	ND	1.99	99.6	2.00	1.04	
Total Xylenes*	<0.150	0.150	03/21/2019	ND	6.06	101	6.00	2.51	
Total BTEx	<0.300	0.300	03/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 73.3-129

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	03/21/2019	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	03/21/2019	ND	206	103	200	6.02	
DRO >C10-C28*	<10.0	10.0	03/21/2019	ND	209	105	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/20/2019
 Reported: 03/22/2019
 Project Name: RED TANK 35 FED #3 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 03/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 14 (H901072-03)

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	03/21/2019	ND	2.03	102	2.00	0.832	
Toluene*	<0.050	0.050	03/21/2019	ND	1.90	95.2	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/21/2019	ND	1.99	99.6	2.00	1.04	
Total Xylenes*	<0.150	0.150	03/21/2019	ND	6.06	101	6.00	2.51	
Total BTX	<0.300	0.300	03/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 73.3-129

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	03/21/2019	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	03/21/2019	ND	206	103	200	6.02	
DRO >C10-C28*	<10.0	10.0	03/21/2019	ND	209	105	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2019
 Reported: 03/22/2019
 Project Name: RED TANK 35 FED #3 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 03/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 15 (H901072-04)

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	03/21/2019	ND	2.03	102	2.00	0.832	
Toluene*	<0.050	0.050	03/21/2019	ND	1.90	95.2	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/21/2019	ND	1.99	99.6	2.00	1.04	
Total Xylenes*	<0.150	0.150	03/21/2019	ND	6.06	101	6.00	2.51	
Total BTEx	<0.300	0.300	03/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 73.3-129

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	03/21/2019	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	03/21/2019	ND	206	103	200	6.02	
DRO >C10-C28*	<10.0	10.0	03/21/2019	ND	209	105	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Analytical Results For:

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

Received: 03/20/2019
 Reported: 03/22/2019
 Project Name: RED TANK 35 FED #3 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 03/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 16 (H901072-05)

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	03/21/2019	ND	2.03	102	2.00	0.832	
Toluene*	<0.050	0.050	03/21/2019	ND	1.90	95.2	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/21/2019	ND	1.99	99.6	2.00	1.04	
Total Xylenes*	<0.150	0.150	03/21/2019	ND	6.06	101	6.00	2.51	
Total BTEx	<0.300	0.300	03/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 73.3-129

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	03/21/2019	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	03/21/2019	ND	206	103	200	6.02	
DRO >C10-C28*	<10.0	10.0	03/21/2019	ND	209	105	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2019
 Reported: 03/22/2019
 Project Name: RED TANK 35 FED #3 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 03/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 17 (H901072-06)

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	03/21/2019	ND	2.03	102	2.00	0.832		
Toluene*	<0.050	0.050	03/21/2019	ND	1.90	95.2	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/21/2019	ND	1.99	99.6	2.00	1.04		
Total Xylenes*	<0.150	0.150	03/21/2019	ND	6.06	101	6.00	2.51		
Total BTEX	<0.300	0.300	03/21/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 73.3-129

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	03/21/2019	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	03/21/2019	ND	206	103	200	6.02	
DRO >C10-C28*	<10.0	10.0	03/21/2019	ND	209	105	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/20/2019
 Reported: 03/22/2019
 Project Name: RED TANK 35 FED #3 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 03/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 18 (H901072-07)

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	03/21/2019	ND	2.03	102	2.00	0.832	
Toluene*	<0.050	0.050	03/21/2019	ND	1.90	95.2	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/21/2019	ND	1.99	99.6	2.00	1.04	
Total Xylenes*	<0.150	0.150	03/21/2019	ND	6.06	101	6.00	2.51	
Total BTX	<0.300	0.300	03/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 73.3-129

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	03/21/2019	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	03/21/2019	ND	206	103	200	6.02	
DRO >C10-C28*	<10.0	10.0	03/21/2019	ND	209	105	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 116 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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:	03/20/2019	Sampling Date:	03/19/2019
Reported:	03/22/2019	Sampling Type:	Soil
Project Name:	RED TANK 35 FED #3 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SIDEWALL 19 (H901072-08)

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	03/21/2019	ND	2.03	102	2.00	0.832		
Toluene*	<0.050	0.050	03/21/2019	ND	1.90	95.2	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/21/2019	ND	1.99	99.6	2.00	1.04		
Total Xylenes*	<0.150	0.150	03/21/2019	ND	6.06	101	6.00	2.51		
Total BTEX	<0.300	0.300	03/21/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 73.3-129

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	03/21/2019	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	03/21/2019	ND	206	103	200	6.02	
DRO >C10-C28*	<10.0	10.0	03/21/2019	ND	209	105	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/20/2019
 Reported: 03/22/2019
 Project Name: RED TANK 35 FED #3 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 03/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 20 (H901072-09)

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	03/21/2019	ND	2.03	102	2.00	0.832	
Toluene*	<0.050	0.050	03/21/2019	ND	1.90	95.2	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/21/2019	ND	1.99	99.6	2.00	1.04	
Total Xylenes*	<0.150	0.150	03/21/2019	ND	6.06	101	6.00	2.51	
Total BTEx	<0.300	0.300	03/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 73.3-129

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	03/21/2019	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	03/21/2019	ND	206	103	200	6.02	
DRO >C10-C28*	<10.0	10.0	03/21/2019	ND	209	105	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane 82.8 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2019
 Reported: 03/22/2019
 Project Name: RED TANK 35 FED #3 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 03/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 4 (H901072-10)

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	03/21/2019	ND	2.03	102	2.00	0.832	
Toluene*	<0.050	0.050	03/21/2019	ND	1.90	95.2	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/21/2019	ND	1.99	99.6	2.00	1.04	
Total Xylenes*	<0.150	0.150	03/21/2019	ND	6.06	101	6.00	2.51	
Total BTEx	<0.300	0.300	03/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 73.3-129

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	03/21/2019	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	03/21/2019	ND	206	103	200	6.02	
DRO >C10-C28*	<10.0	10.0	03/21/2019	ND	209	105	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 99.9 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/20/2019
 Reported: 03/22/2019
 Project Name: RED TANK 35 FED #3 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 03/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 5 (H901072-11)

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	03/21/2019	ND	2.03	102	2.00	0.832	
Toluene*	<0.050	0.050	03/21/2019	ND	1.90	95.2	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/21/2019	ND	1.99	99.6	2.00	1.04	
Total Xylenes*	<0.150	0.150	03/21/2019	ND	6.06	101	6.00	2.51	
Total BTEx	<0.300	0.300	03/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 73.3-129

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	03/21/2019	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	03/21/2019	ND	206	103	200	6.02	
DRO >C10-C28*	<10.0	10.0	03/21/2019	ND	209	105	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 116 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2019
 Reported: 03/22/2019
 Project Name: RED TANK 35 FED #3 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 03/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 6 (H901072-12)

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	03/21/2019	ND	2.03	102	2.00	0.832	
Toluene*	<0.050	0.050	03/21/2019	ND	1.90	95.2	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/21/2019	ND	1.99	99.6	2.00	1.04	
Total Xylenes*	<0.150	0.150	03/21/2019	ND	6.06	101	6.00	2.51	
Total BTEx	<0.300	0.300	03/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 73.3-129

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	03/21/2019	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	03/21/2019	ND	206	103	200	6.02	
DRO >C10-C28*	<10.0	10.0	03/21/2019	ND	209	105	200	5.27	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2019
 Reported: 03/22/2019
 Project Name: RED TANK 35 FED #3 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 03/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 7 (H901072-13)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2019	ND	2.03	102	2.00	0.832	
Toluene*	<0.050	0.050	03/21/2019	ND	1.90	95.2	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/21/2019	ND	1.99	99.6	2.00	1.04	
Total Xylenes*	<0.150	0.150	03/21/2019	ND	6.06	101	6.00	2.51	
Total BTEx	<0.300	0.300	03/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 73.3-129

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	03/21/2019	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	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	<10.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 99.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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: 03/20/2019
 Reported: 03/22/2019
 Project Name: RED TANK 35 FED #3 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 03/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 8 (H901072-14)

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	03/21/2019	ND	2.03	102	2.00	0.832	
Toluene*	<0.050	0.050	03/21/2019	ND	1.90	95.2	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/21/2019	ND	1.99	99.6	2.00	1.04	
Total Xylenes*	<0.150	0.150	03/21/2019	ND	6.06	101	6.00	2.51	
Total BTEx	<0.300	0.300	03/21/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 73.3-129

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	03/21/2019	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	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	<10.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 92.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

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

1082

Page 17 of 18

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST												
Project Manager: Cliff Brunson				P.O. #:																
Address: P.O. Box 805				Company: <i>Oxy</i>																
City: Hobbs State: NM Zip: 88241				Attn: <i>W. D. Frick</i>																
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																
Project #: Project Owner:				City:																
Project Name: Red Tank 35 Federal #3 SWD				State: Zip:																
Project Location: Lea County, NM				Phone #:																
Sampler Name: Roger Hernandez				Fax #:																
FOR LAB USE ONLY																				
Lab I.D.	Sample I.D.	GRAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING		<i>BTX</i> <i>CI</i> <i>TPHXL</i>									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:							ICE / COOL	OTHER :	DATE	TIME
<i>H901072</i>																				
1	SIDEWALL 12	<i>G</i>	<i>1</i>			<i>✓</i>				<i>✓</i>									3/19/19	12:30 PM
2	SIDEWALL 13																		3/19/19	12:50 PM
3	SIDEWALL 14																		3/19/19	1:00 PM
4	SIDEWALL 15																		3/19/19	1:10 PM
5	SIDEWALL 16																		3/19/19	1:20 PM
6	SIDEWALL 17																		3/19/19	1:30 PM
7	SIDEWALL 18																		3/19/19	1:40 PM
8	SIDEWALL 19												3/19/19	1:50 PM						
9	SIDEWALL 20												3/19/19	1:55 PM						
10	BOTTOM 4												3/19/19	2:00 PM						

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Relinquished By: <i>Roger Hernandez</i>	Date: <i>3/19/19</i> Time: <i>5:00 PM</i>	Received By: <i>Israel Peña</i>	Phone Result: ☐ Yes ☐ No	Add'l Phone #:
Relinquished By: <i>Israel Peña</i>	Date: <i>3-20-19</i> Time: <i>11:50 AM</i>	Received By: <i>Samuel Aldega</i>	Fax Result: ☐ Yes ☐ No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>1.1 c #97</i>			REMARKS:	
Sample Condition Cool Intact ☐ Yes ☐ No		CHECKED BY: (Initials) <i>TO</i>		

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

208

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Relinquished By: <i>Nasser Hamdy</i>		Date: <i>3/19/19</i>	Received By: <i>Israel Pena</i>		Phone Result: ☐ Yes ☐ No	Add'l Phone #:
Time: <i>5:00pm</i>					Fax Result: ☐ Yes ☐ No	Add'l Fax #:
Relinquished By: <i>Israel Pena</i>		Date: <i>3-20-19</i>	Received By: <i>Isabella Pena</i>		REMARKS:	
Time: <i>11:50am</i>						
Delivered By: (Circle One)			Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:			Cool ☒ Intact ☒	(Initials)		
<i>1.1°C #97</i>			☐ Yes ☒ No	<i>IS</i>		

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



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

April 23, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RED TANK 35

Enclosed are the results of analyses for samples received by the laboratory on 04/22/19 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 9 (H901431-01)

BTEx 8021B		mg / kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/23/2019	ND	1.95	97.5	2.00	7.54		
Toluene*	<0.050	0.050	04/23/2019	ND	1.99	99.5	2.00	6.88		
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	2.01	100	2.00	5.93		
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.72	95.4	6.00	5.50		
Total BTEx	<0.300	0.300	04/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	04/23/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	212	106	200	0.441	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	202	101	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 88.0 % 41-142

Surrogate: 1-Chlorooctadecane 90.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 10 (H901431-02)

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	04/23/2019	ND	1.95	97.5	2.00	7.54	
Toluene*	<0.050	0.050	04/23/2019	ND	1.99	99.5	2.00	6.88	
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	2.01	100	2.00	5.93	
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.72	95.4	6.00	5.50	
Total BTEx	<0.300	0.300	04/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	04/23/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	208	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	199	99.6	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 92.7 % 41-142

Surrogate: 1-Chlorooctadecane 93.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 21 (H901431-03)

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	04/23/2019	ND	1.95	97.5	2.00	7.54		
Toluene*	<0.050	0.050	04/23/2019	ND	1.99	99.5	2.00	6.88		
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	2.01	100	2.00	5.93		
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.72	95.4	6.00	5.50		
Total BTX	<0.300	0.300	04/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

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	04/23/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	208	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	199	99.6	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 99.0 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Analytical Results For:

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

Received: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 22 (H901431-04)

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	04/23/2019	ND	1.95	97.5	2.00	7.54		
Toluene*	<0.050	0.050	04/23/2019	ND	1.99	99.5	2.00	6.88		
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	2.01	100	2.00	5.93		
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.72	95.4	6.00	5.50		
Total BTEx	<0.300	0.300	04/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.6 % 73.3-129

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	04/23/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	208	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	199	99.6	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 98.2 % 41-142

Surrogate: 1-Chlorooctadecane 99.1 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 397-0397

Received: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 23 (H901431-05)

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	04/23/2019	ND	1.80	89.8	2.00	1.20		
Toluene*	<0.050	0.050	04/23/2019	ND	1.88	94.0	2.00	0.730		
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.83	91.5	2.00	1.51		
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.62	93.7	6.00	2.22		
Total BTEx	<0.300	0.300	04/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 73.3-129

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	04/23/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	208	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	199	99.6	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 88.0 % 41-142

Surrogate: 1-Chlorooctadecane 89.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 Fax To: (575) 397-0397

Received: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 24 (H901431-06)

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	04/23/2019	ND	1.80	89.8	2.00	1.20		
Toluene*	<0.050	0.050	04/23/2019	ND	1.88	94.0	2.00	0.730		
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.83	91.5	2.00	1.51		
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.62	93.7	6.00	2.22		
Total BTX	<0.300	0.300	04/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 73.3-129

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	04/23/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	208	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	199	99.6	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 95.8 % 41-142

Surrogate: 1-Chlorooctadecane 95.2 % 37.6-147

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Analytical Results For:

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

Received: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 25 (H901431-07)

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	04/23/2019	ND	1.80	89.8	2.00	1.20		
Toluene*	<0.050	0.050	04/23/2019	ND	1.88	94.0	2.00	0.730		
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.83	91.5	2.00	1.51		
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.62	93.7	6.00	2.22		
Total BTEx	<0.300	0.300	04/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 73.3-129

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	04/23/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	208	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	199	99.6	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 94.8 % 41-142

Surrogate: 1-Chlorooctadecane 92.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 10 (H901431-08)

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	04/23/2019	ND	1.80	89.8	2.00	1.20		
Toluene*	<0.050	0.050	04/23/2019	ND	1.88	94.0	2.00	0.730		
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.83	91.5	2.00	1.51		
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.62	93.7	6.00	2.22		
Total BTEx	<0.300	0.300	04/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7840	16.0	04/23/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	208	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	199	99.6	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 98.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 Fax To: (575) 397-0397

Received: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 11 (H901431-09)

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	04/23/2019	ND	1.80	89.8	2.00	1.20	
Toluene*	<0.050	0.050	04/23/2019	ND	1.88	94.0	2.00	0.730	
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.83	91.5	2.00	1.51	
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.62	93.7	6.00	2.22	
Total BTX	<0.300	0.300	04/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	04/23/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	208	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	199	99.6	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 94.9 % 41-142

Surrogate: 1-Chlorooctadecane 92.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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Received: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 12 (H901431-10)

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	04/23/2019	ND	1.80	89.8	2.00	1.20	
Toluene*	<0.050	0.050	04/23/2019	ND	1.88	94.0	2.00	0.730	
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.83	91.5	2.00	1.51	
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.62	93.7	6.00	2.22	
Total BTX	<0.300	0.300	04/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6080	16.0	04/23/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	208	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	199	99.6	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 97.2 % 41-142

Surrogate: 1-Chlorooctadecane 95.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 13 (H901431-11)

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	04/23/2019	ND	1.80	89.8	2.00	1.20		
Toluene*	<0.050	0.050	04/23/2019	ND	1.88	94.0	2.00	0.730		
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.83	91.5	2.00	1.51		
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.62	93.7	6.00	2.22		
Total BTX	<0.300	0.300	04/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	04/23/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	208	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	199	99.6	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 92.4 % 41-142

Surrogate: 1-Chlorooctadecane 89.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 14 (H901431-12)

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	04/23/2019	ND	1.80	89.8	2.00	1.20		
Toluene*	<0.050	0.050	04/23/2019	ND	1.88	94.0	2.00	0.730		
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.83	91.5	2.00	1.51		
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.62	93.7	6.00	2.22		
Total BTEx	<0.300	0.300	04/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3400	16.0	04/23/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	208	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	199	99.6	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 95.3 % 41-142

Surrogate: 1-Chlorooctadecane 93.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 15 (H901431-13)

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	04/23/2019	ND	1.80	89.8	2.00	1.20		
Toluene*	<0.050	0.050	04/23/2019	ND	1.88	94.0	2.00	0.730		
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.83	91.5	2.00	1.51		
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.62	93.7	6.00	2.22		
Total BTX	<0.300	0.300	04/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	04/23/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	208	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	199	99.6	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 92.3 % 41-142

Surrogate: 1-Chlorooctadecane 88.9 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 397-0397

Received: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 16 (H901431-14)

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	04/23/2019	ND	1.80	89.8	2.00	1.20		
Toluene*	<0.050	0.050	04/23/2019	ND	1.88	94.0	2.00	0.730		
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.83	91.5	2.00	1.51		
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.62	93.7	6.00	2.22		
Total BTEX	<0.300	0.300	04/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/23/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	208	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	199	99.6	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 99.2 % 41-142

Surrogate: 1-Chlorooctadecane 96.7 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
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 Fax To: (575) 397-0397

Received: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 10' (H901431-15)

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	04/23/2019	ND	1.80	89.8	2.00	1.20		
Toluene*	<0.050	0.050	04/23/2019	ND	1.88	94.0	2.00	0.730		
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.83	91.5	2.00	1.51		
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.62	93.7	6.00	2.22		
Total BTEx	<0.300	0.300	04/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	04/23/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	208	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	199	99.6	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 97.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 11' (H901431-16)

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	04/23/2019	ND	1.80	89.8	2.00	1.20		
Toluene*	<0.050	0.050	04/23/2019	ND	1.88	94.0	2.00	0.730		
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.83	91.5	2.00	1.51		
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.62	93.7	6.00	2.22		
Total BTEx	<0.300	0.300	04/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	04/23/2019	ND	416	104	400	3.92	QM-07	

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	04/23/2019	ND	208	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	199	99.6	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 99.0 % 41-142

Surrogate: 1-Chlorooctadecane 95.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 12' (H901431-17)

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	04/23/2019	ND	1.80	89.8	2.00	1.20		
Toluene*	<0.050	0.050	04/23/2019	ND	1.88	94.0	2.00	0.730		
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.83	91.5	2.00	1.51		
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.62	93.7	6.00	2.22		
Total BTEx	<0.300	0.300	04/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5520	16.0	04/23/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	208	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	199	99.6	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 98.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 13' (H901431-18)

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	04/23/2019	ND	1.80	89.8	2.00	1.20	
Toluene*	<0.050	0.050	04/23/2019	ND	1.88	94.0	2.00	0.730	
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.83	91.5	2.00	1.51	
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.62	93.7	6.00	2.22	
Total BTX	<0.300	0.300	04/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	04/23/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	208	104	200	5.78	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	199	99.6	200	9.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 96.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 Fax To: (575) 397-0397

Received: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 14' (H901431-19)

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	04/23/2019	ND	1.80	89.8	2.00	1.20		
Toluene*	<0.050	0.050	04/23/2019	ND	1.88	94.0	2.00	0.730		
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.83	91.5	2.00	1.51		
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.62	93.7	6.00	2.22		
Total BTEx	<0.300	0.300	04/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	04/23/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	212	106	200	0.441	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	202	101	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 89.6 % 41-142

Surrogate: 1-Chlorooctadecane 92.1 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 15' (H901431-20)

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	04/23/2019	ND	1.80	89.8	2.00	1.20		
Toluene*	<0.050	0.050	04/23/2019	ND	1.88	94.0	2.00	0.730		
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.83	91.5	2.00	1.51		
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.62	93.7	6.00	2.22		
Total BTEx	<0.300	0.300	04/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	04/23/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	212	106	200	0.441	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	202	101	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 86.2 % 41-142

Surrogate: 1-Chlorooctadecane 88.3 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/22/2019
 Reported: 04/23/2019
 Project Name: RED TANK 35
 Project Number: NONE GIVEN
 Project Location: MILLS RANCH

Sampling Date: 04/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 16' (H901431-21)

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	04/23/2019	ND	1.80	89.8	2.00	1.20		
Toluene*	<0.050	0.050	04/23/2019	ND	1.88	94.0	2.00	0.730		
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.83	91.5	2.00	1.51		
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.62	93.7	6.00	2.22		
Total BTEx	<0.300	0.300	04/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/23/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2019	ND	212	106	200	0.441	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	202	101	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					

Surrogate: 1-Chlorooctane 89.2 % 41-142

Surrogate: 1-Chlorooctadecane 91.7 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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101 East Marland, Hobbs, NM 88240

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

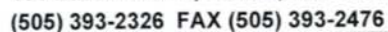
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Cliff Brunson				P.O. #:				TPH BTEX Cl-											
Address: P.O. Box 805				Company:															
City: Hobbs State: NM Zip: 88241				Attn:															
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:															
Project #: Project Owner: OKY				City:															
Project Name:				State: Zip:															
Project Location: Red TANK 35				Phone #:															
Sampler Name: Roger Hernandez				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(G/RAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING									
						GROUNDWATER		WASTEWATER		DATE		TIME							
						SOIL		OIL											
						SLUDGE		OTHER:											
						ACID/BASE:		ICE / COOL											
								OTHER:											
H901431																			
1 Bottom 9		C 1				✓		✓		4-15-19 830		✓							
2 Bottom 10		C 1				✓		✓		4-15-19 845		✓							
3 Sidewall 21		C 1				✓		✓		4-15-19 900		✓							
4 Sidewall 22		C 1				✓		✓		4-15-19 915		✓							
5 Sidewall 23		C 1				✓		✓		4-15-19 930		✓							
6 Sidewall 24		C 1				✓		✓		4-15-19 945		✓							
7 Sidewall 25		C 1				✓		✓		4-15-19 1000		✓							
8 SPI @ 10		C 1				✓		✓		4-15-19 1015		✓							
9 @ 11		C 1				✓		✓		4-15-19 1030		✓							
10 @ 12		C 1				✓		✓		4-15-19 1045		✓							

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Relinquished By: Roger Hernandez		Date: 4/15/19		Received By: Jamara Siddiqui		Phone Result: ☐ Yes ☐ No		Add'l Phone #:	
		Time: 5:00				Fax Result: ☐ Yes ☐ No		Add'l Fax #:	
Relinquished By: Cliff Brunson		Date: 4/22/19		Received By: (Signature)		REMARKS: Rush !!			
		Time: 12:30							
Delivered By: (Circle One)									
Sampler - UPS - Bus - Other: - 2.0S #97		Sample Condition		CHECKED BY: (Initials)					
		Cool Intact		TO					
		☐ Yes ☐ No		☐ Yes ☐ No					

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



24

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



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101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 26 of 26

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241 Phone #: 575-397-6388 Fax #: 575-397-0397 Project #: Project Owner: ORG Project Name: Project Location: Red tank 35 Fed 32nd Sampler Name: Roger Hernandez				BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST													
FOR LAB USE ONLY Lab I.D. H901431 Sample I.D. 21 SP7 @ 16		(G)RAB OR (C)OMP. # CONTAINERS 6		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV. ACID/BASE: ICE / COOL OTHER:		SAMPLING DATE 4-15-19 TIME 220		TPH BTEX CL									

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Relinquished By: Roger Hernandez Date: 4/15/19 Time: 3:00pm		Received By: Date: 4/22/19 Time: 12:30		Phone Result: ☐ Yes ☐ No Add'l Phone #: Fax Result: ☐ Yes ☐ No Add'l Fax #:	
Relinquished By: Cliff Brunson Date: 4/22/19 Time: 12:30		Received By: Tamara Oldaker Date: 4/22/19 Time: 12:30		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: - 2.0°C #97		Sample Condition Cool Intact ☒ Yes ☐ No ☒ Yes ☐ No		CHECKED BY: (Initials) TO	

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

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-3973
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate OCD District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator
Signature:  Date: 4-29-19
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

Incident ID	
District RP	1RP-4093
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate OCD District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator
Signature:  Date: 4-29-19
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

Incident ID	
District RP	1RP-4118
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator
Signature:  Date: 4-29-19
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

Incident ID	
District RP	1RP-4267
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate OCD District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator
Signature:  Date: 4-29-19
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-4339
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator
Signature:  Date: 4-29-19
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-4689
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental CoordinatorSignature:  Date: 4-29-19email: wade_dittrich@oxy.com Telephone: (575) 390-2828**OCD Only**

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 4/4/2023Printed Name: Brittany Hall Title: Environmental Specialist

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 203492

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 203492
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	4/4/2023