



DELINEATION WORKPLAN

OXY – LOST TANK 4 FEDERAL 17 (Leak Date: 11/21/18)

RP # 2RP-5170

This delineation workplan and remediation proposal addresses the releases associated with RP # 2RP-5170.

The following information includes:

1. Appropriate completed and signed C-141 pages.
2. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
3. GPS information for sample points and sample methodology.
4. Depth to groundwater information (i.e., pdf of OSE search results, USGS search results, and/or copy of Chevron groundwater trend map).
5. Watercourse/features map within 1000 feet.
6. BLM Cave Karst map.
7. FEMA National Flood map.
8. Laboratory analysis results summary table and original laboratory analysis reports.
9. Potentially other pertinent information as necessary for site specific purposes.

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

OXY will excavate the spill area as depicted on the following site diagram. The entire leak area near SP1 – SP5 (GREEN shade on diagram) will be excavated to a depth of 1 foot.

Bottom confirmation samples will be collected at no greater than 50 ft. intervals. Estimated volume of material to be removed is 327 cubic yards. The remediation will be completed within 90 days of plan approval.

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

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

LT 4-17 11/2/18

Form C-141

Page 3

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-5170
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	125 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within 1/4-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-5170
Facility ID	
Application ID	

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.

Printed Name: Wade DittrichTitle: Environmental CoordinatorSignature: Date: 2-7-11email: wade_dittrich@oxy.comTelephone: (575) 390-2828**OCD Only**

Received by: _____

Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-5170
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: Wade DittrichTitle: Environmental CoordinatorSignature: Date: 2-7-19email: wade_dittrich@oxy.comTelephone: (575) 390-2828**OCD Only**

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved




Signature: _____

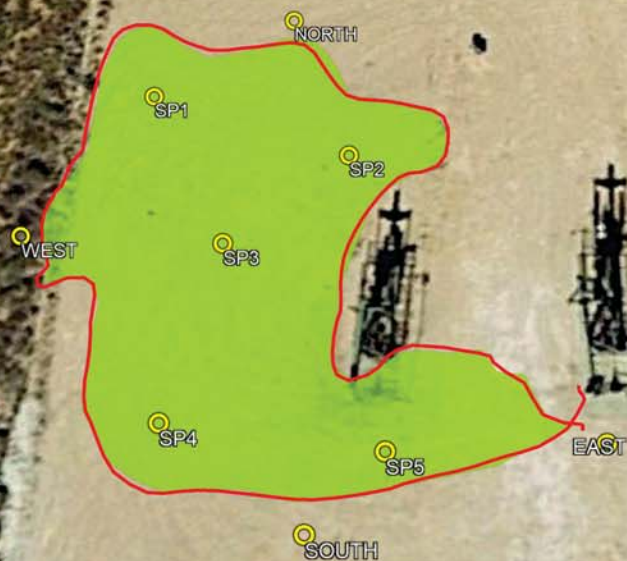
Date: _____

Oxy, Lost Tank 4 Federal 17

Leak date: 11/21/18
Eddy County, NM
API# 30-015-37958
2RP-5170

Legend

-  1 ft Excavation across entire leak area
-  Leak Area
-  Sample points



Oxy, Lost Tank 4 Federal 17

Sample points

SP1, N 32.41966 W-103.77870

SP2, N 32.41961 W-103.77855

SP3, N 32.41954 W-103.77864

SP4, N 32.41941 W-103.77867

SP5, N 32.41939 W-103.77852

NORTH, N 32.41972 W-103.77859

SOUTH, N 32.41934 W-103.77857

EAST, N 32.41939 W-103.77837

WEST, N 32.41954 W-103.77878

Oxy, Lost Tank 4 Federal 17
U/L J, Section 4, T22S, R31E
Groundwater: 125'





USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

New Mexico

GO

Click to hideNews Bulletins

- [Please see news on new formats](#)
- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 322333103461301

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 322333103461301 22S.31E.15.13223

Eddy County, New Mexico

Latitude 32°23'40", Longitude 103°46'15" NAD27

Land-surface elevation 3,456 feet above NAVD88

The depth of the well is 170 feet below land surface.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1959-02-19		D	150.87				2		U	
1972-09-12		D	146.30				2		U	
1976-12-08		D	135.97				2		U	
1983-01-18		D	133.14				2		U	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)
[Help](#)
[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)
[News](#)

[Accessibility](#) [Plug-Ins](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>

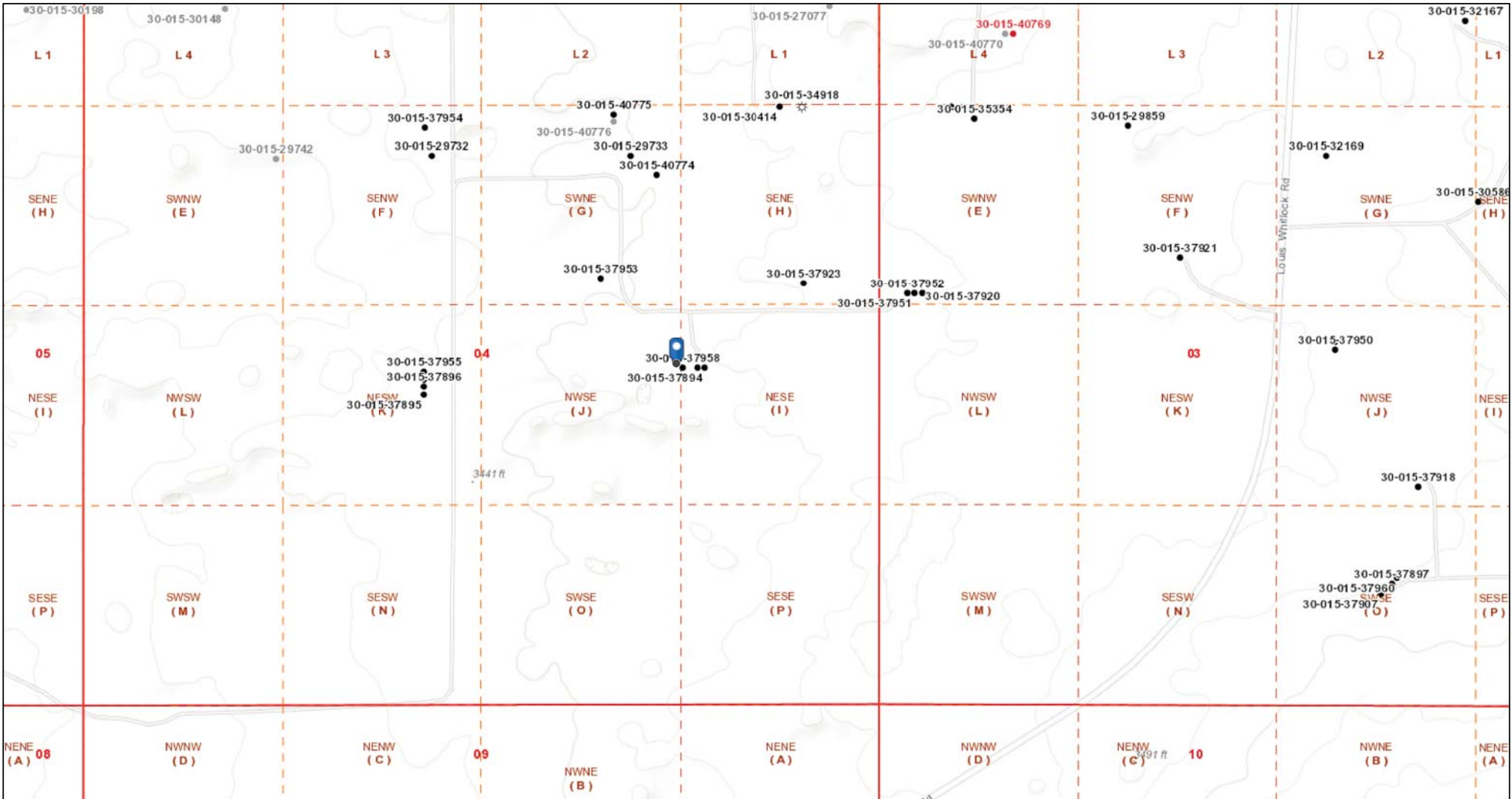


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2018-12-03 12:37:35 EST

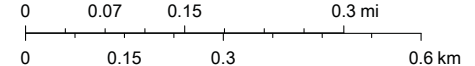
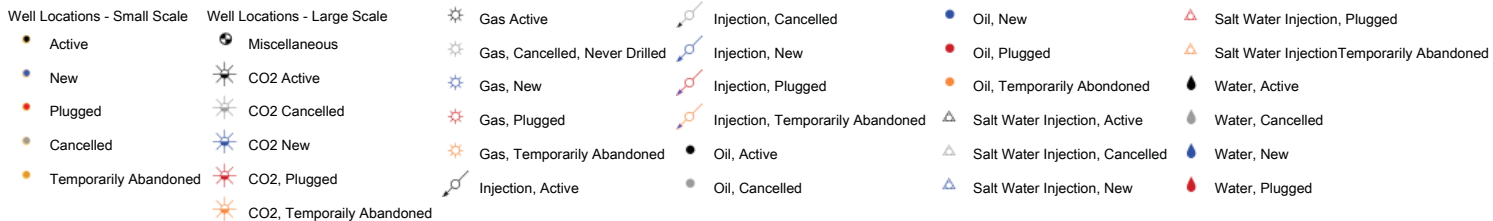
0.71 0.6 nadww01

Lost Tank 4 Federal 17, TOPO Map with Water Features



12/3/2018 10:28:28 AM

1:9,028




Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA, OCD, BLM


Oxy, Lost Tank 4 Federal 17

Leak date: 11/21/18
Eddy County, NM
API# 30-015-37958

BLM CAVE KARST MAP

Legend

 Leak Area

 Lost Tank 4 Federal 17

Louis Whitlock Rd

Google Earth

© 2018 Google



1000 ft

National Flood Hazard Layer FIRMette



32°25'25.42"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000

USGS The National Map: Orthoimagery. Data refreshed October 2017.

32°24'55.05"N

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/3/2018 at 12:46:08 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Laboratory Analytical Results Summary
Lost Tank 4 Federal #17 (11/21/18)

		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	1/2/19	1/2/19	1/2/19	1/2/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.513	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.2	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		1.33	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		2.05	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		11200	48	16	16
GRO	TPH 8015M		<100	<10.0	<10.0	<10.0
DRO	TPH 8015M		14800	45.8	<10.0	<10.0
EXT DRO	TPH 8015M		3260	21.7	<10.0	<10.0

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	1/2/19	1/2/19	1/2/19	1/2/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.079	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.06	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.404	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		0.543	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		26800	64	32	320
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		149	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		49.8	<10.0	<10.0	<10.0

		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	1/2/19	1/2/19	1/2/19	1/2/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.222	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		23200	160	192	192
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		710	17.7	<10.0	<10.0
EXT DRO	TPH 8015M		218	41.4	<10.0	<10.0

		Sample ID	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	1/2/19	1/2/19	1/2/19	1/2/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.364	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.15	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.999	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		1.51	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		14800	272	640	464
GRO	TPH 8015M		<50.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		8690	34	<10.0	<10.0
EXT DRO	TPH 8015M		2290	49.8	11.7	<10.0

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'
Analyte	Method	Date	1/2/19	1/2/19	1/2/19	1/2/19	1/2/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.12	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.063	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.399	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		0.582	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		22600	240	656	496	288
GRO	TPH 8015M		12.7	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		3620	68	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		1070	79.4	10.5	<10.0	<10.0

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	1/2/19	1/2/19	1/2/19	1/2/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32	304	160	272
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

January 11, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LOST TANK 4 FEDERAL #0017

Enclosed are the results of analyses for samples received by the laboratory on 01/07/19 11:35.

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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 1 @ SURFACE (H900022-01)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2019	ND	2.18	109	2.00	1.06	
Toluene*	0.513	0.050	01/09/2019	ND	2.28	114	2.00	1.01	
Ethylbenzene*	0.200	0.050	01/09/2019	ND	2.27	114	2.00	1.29	
Total Xylenes*	1.33	0.150	01/09/2019	ND	6.90	115	6.00	0.804	
Total BTX	2.05	0.300	01/09/2019	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	11200	16.0	01/08/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<100	100	01/07/2019	ND	182	91.0	200	6.09		
DRO >C10-C28*	14800	100	01/07/2019	ND	192	95.9	200	5.67		
EXT DRO >C28-C36	3260	100	01/07/2019	ND						

Surrogate: 1-Chlorooctane 96.2 % 41-142

Surrogate: 1-Chlorooctadecane 609 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 1 @ 1' (H900022-02)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2019	ND	2.18	109	2.00	1.06	
Toluene*	<0.050	0.050	01/09/2019	ND	2.28	114	2.00	1.01	
Ethylbenzene*	<0.050	0.050	01/09/2019	ND	2.27	114	2.00	1.29	
Total Xylenes*	<0.150	0.150	01/09/2019	ND	6.90	115	6.00	0.804	
Total BTX	<0.300	0.300	01/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	48.0	16.0	01/08/2019	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	01/08/2019	ND	182	91.0	200	6.09	
DRO >C10-C28*	45.8	10.0	01/08/2019	ND	192	95.9	200	5.67	
EXT DRO >C28-C36	21.7	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 87.4 % 41-142

Surrogate: 1-Chlorooctadecane 89.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 1 @ 2' (H900022-03)

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	01/09/2019	ND	2.18	109	2.00	1.06	
Toluene*	<0.050	0.050	01/09/2019	ND	2.28	114	2.00	1.01	
Ethylbenzene*	<0.050	0.050	01/09/2019	ND	2.27	114	2.00	1.29	
Total Xylenes*	<0.150	0.150	01/09/2019	ND	6.90	115	6.00	0.804	
Total BTX	<0.300	0.300	01/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 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	16.0	16.0	01/08/2019	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	01/08/2019	ND	182	91.0	200	6.09	
DRO >C10-C28*	<10.0	10.0	01/08/2019	ND	192	95.9	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 93.1 % 41-142

Surrogate: 1-Chlorooctadecane 93.4 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 1 @ 3' (H900022-04)

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	01/09/2019	ND	2.18	109	2.00	1.06	
Toluene*	<0.050	0.050	01/09/2019	ND	2.28	114	2.00	1.01	
Ethylbenzene*	<0.050	0.050	01/09/2019	ND	2.27	114	2.00	1.29	
Total Xylenes*	<0.150	0.150	01/09/2019	ND	6.90	115	6.00	0.804	
Total BTX	<0.300	0.300	01/09/2019	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	01/08/2019	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	01/08/2019	ND	182	91.0	200	6.09	
DRO >C10-C28*	<10.0	10.0	01/08/2019	ND	192	95.9	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 89.7 % 41-142

Surrogate: 1-Chlorooctadecane 88.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 2 @ SURFACE (H900022-05)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2019	ND	2.18	109	2.00	1.06	
Toluene*	0.079	0.050	01/09/2019	ND	2.28	114	2.00	1.01	
Ethylbenzene*	0.060	0.050	01/09/2019	ND	2.27	114	2.00	1.29	
Total Xylenes*	0.404	0.150	01/09/2019	ND	6.90	115	6.00	0.804	
Total BTX	0.543	0.300	01/09/2019	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	26800	16.0	01/08/2019	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	01/08/2019	ND	182	91.0	200	6.09	
DRO >C10-C28*	149	10.0	01/08/2019	ND	192	95.9	200	5.67	
EXT DRO >C28-C36	49.8	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 88.0 % 41-142

Surrogate: 1-Chlorooctadecane 98.1 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 2 @ 1' (H900022-06)

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	01/09/2019	ND	2.18	109	2.00	1.06		
Toluene*	<0.050	0.050	01/09/2019	ND	2.28	114	2.00	1.01		
Ethylbenzene*	<0.050	0.050	01/09/2019	ND	2.27	114	2.00	1.29		
Total Xylenes*	<0.150	0.150	01/09/2019	ND	6.90	115	6.00	0.804		
Total BTEX	<0.300	0.300	01/09/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	64.0	16.0	01/08/2019	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	01/08/2019	ND	182	91.0	200	6.09	
DRO >C10-C28*	<10.0	10.0	01/08/2019	ND	192	95.9	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 89.3 % 41-142

Surrogate: 1-Chlorooctadecane 87.7 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 2 @ 2' (H900022-07)

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	01/09/2019	ND	2.18	109	2.00	1.06		
Toluene*	<0.050	0.050	01/09/2019	ND	2.28	114	2.00	1.01		
Ethylbenzene*	<0.050	0.050	01/09/2019	ND	2.27	114	2.00	1.29		
Total Xylenes*	<0.150	0.150	01/09/2019	ND	6.90	115	6.00	0.804		
Total BTX	<0.300	0.300	01/09/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	01/08/2019	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	01/08/2019	ND	182	91.0	200	6.09		
DRO >C10-C28*	<10.0	10.0	01/08/2019	ND	192	95.9	200	5.67		
EXT DRO >C28-C36	<10.0	10.0	01/08/2019	ND						

Surrogate: 1-Chlorooctane 91.8 % 41-142

Surrogate: 1-Chlorooctadecane 92.4 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 2 @ 3' (H900022-08)

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	01/09/2019	ND	2.18	109	2.00	1.06	
Toluene*	<0.050	0.050	01/09/2019	ND	2.28	114	2.00	1.01	
Ethylbenzene*	<0.050	0.050	01/09/2019	ND	2.27	114	2.00	1.29	
Total Xylenes*	<0.150	0.150	01/09/2019	ND	6.90	115	6.00	0.804	
Total BTX	<0.300	0.300	01/09/2019	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	320	16.0	01/09/2019	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	01/08/2019	ND	182	91.0	200	6.09	
DRO >C10-C28*	<10.0	10.0	01/08/2019	ND	192	95.9	200	5.67	
EXT DRO >C28-C36	<10.0	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 92.4 % 41-142

Surrogate: 1-Chlorooctadecane 96.7 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 3 @ SURFACE (H900022-09)

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	01/09/2019	ND	2.18	109	2.00	1.06	
Toluene*	<0.050	0.050	01/09/2019	ND	2.28	114	2.00	1.01	
Ethylbenzene*	<0.050	0.050	01/09/2019	ND	2.27	114	2.00	1.29	
Total Xylenes*	0.222	0.150	01/09/2019	ND	6.90	115	6.00	0.804	
Total BTEx	<0.300	0.300	01/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	23200	16.0	01/09/2019	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	01/08/2019	ND	209	105	200	3.08	
DRO >C10-C28*	710	10.0	01/08/2019	ND	190	95.1	200	4.24	
EXT DRO >C28-C36	218	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 3 @ 1' (H900022-10)

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	01/09/2019	ND	2.18	109	2.00	1.06		
Toluene*	<0.050	0.050	01/09/2019	ND	2.28	114	2.00	1.01		
Ethylbenzene*	<0.050	0.050	01/09/2019	ND	2.27	114	2.00	1.29		
Total Xylenes*	<0.150	0.150	01/09/2019	ND	6.90	115	6.00	0.804		
Total BTEX	<0.300	0.300	01/09/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	160	16.0	01/09/2019	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	01/08/2019	ND	209	105	200	3.08	
DRO >C10-C28*	17.7	10.0	01/08/2019	ND	190	95.1	200	4.24	
EXT DRO >C28-C36	41.4	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 88.0 % 41-142

Surrogate: 1-Chlorooctadecane 83.9 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 3 @ 2' (H900022-11)

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	01/09/2019	ND	2.18	109	2.00	1.06		
Toluene*	<0.050	0.050	01/09/2019	ND	2.28	114	2.00	1.01		
Ethylbenzene*	<0.050	0.050	01/09/2019	ND	2.27	114	2.00	1.29		
Total Xylenes*	<0.150	0.150	01/09/2019	ND	6.90	115	6.00	0.804		
Total BTX	<0.300	0.300	01/09/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	192	16.0	01/09/2019	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	01/08/2019	ND	209	105	200	3.08	
DRO >C10-C28*	<10.0	10.0	01/08/2019	ND	190	95.1	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 93.3 % 41-142

Surrogate: 1-Chlorooctadecane 86.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 3 @ 3' (H900022-12)

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	01/09/2019	ND	2.18	109	2.00	1.06		
Toluene*	<0.050	0.050	01/09/2019	ND	2.28	114	2.00	1.01		
Ethylbenzene*	<0.050	0.050	01/09/2019	ND	2.27	114	2.00	1.29		
Total Xylenes*	<0.150	0.150	01/09/2019	ND	6.90	115	6.00	0.804		
Total BTX	<0.300	0.300	01/09/2019	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	192	16.0	01/09/2019	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	01/08/2019	ND	209	105	200	3.08	
DRO >C10-C28*	<10.0	10.0	01/08/2019	ND	190	95.1	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 92.6 % 41-142

Surrogate: 1-Chlorooctadecane 85.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 4 @ SURFACE (H900022-13)

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	01/09/2019	ND	2.18	109	2.00	1.06	
Toluene*	0.364	0.050	01/09/2019	ND	2.28	114	2.00	1.01	
Ethylbenzene*	0.150	0.050	01/09/2019	ND	2.27	114	2.00	1.29	
Total Xylenes*	0.999	0.150	01/09/2019	ND	6.90	115	6.00	0.804	
Total BTEx	1.51	0.300	01/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	14800	16.0	01/09/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	01/08/2019	ND	209	105	200	3.08	
DRO >C10-C28*	8690	50.0	01/08/2019	ND	190	95.1	200	4.24	
EXT DRO >C28-C36	2290	50.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 95.1 % 41-142

Surrogate: 1-Chlorooctadecane 407 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 4 @ 1' (H900022-14)

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	01/09/2019	ND	2.18	109	2.00	1.06		
Toluene*	<0.050	0.050	01/09/2019	ND	2.28	114	2.00	1.01		
Ethylbenzene*	<0.050	0.050	01/09/2019	ND	2.27	114	2.00	1.29		
Total Xylenes*	<0.150	0.150	01/09/2019	ND	6.90	115	6.00	0.804		
Total BTEx	<0.300	0.300	01/09/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 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	272	16.0	01/09/2019	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	01/08/2019	ND	209	105	200	3.08	
DRO >C10-C28*	34.0	10.0	01/08/2019	ND	190	95.1	200	4.24	
EXT DRO >C28-C36	49.8	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 95.2 % 41-142

Surrogate: 1-Chlorooctadecane 89.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 4 @ 2' (H900022-15)

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	01/09/2019	ND	2.18	109	2.00	1.06	
Toluene*	<0.050	0.050	01/09/2019	ND	2.28	114	2.00	1.01	
Ethylbenzene*	<0.050	0.050	01/09/2019	ND	2.27	114	2.00	1.29	
Total Xylenes*	<0.150	0.150	01/09/2019	ND	6.90	115	6.00	0.804	
Total BTX	<0.300	0.300	01/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	640	16.0	01/09/2019	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	01/08/2019	ND	209	105	200	3.08	
DRO >C10-C28*	<10.0	10.0	01/08/2019	ND	190	95.1	200	4.24	
EXT DRO >C28-C36	11.7	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 93.2 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 4 @ 3' (H900022-16)

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	01/09/2019	ND	2.18	109	2.00	1.06	
Toluene*	<0.050	0.050	01/09/2019	ND	2.28	114	2.00	1.01	
Ethylbenzene*	<0.050	0.050	01/09/2019	ND	2.27	114	2.00	1.29	
Total Xylenes*	<0.150	0.150	01/09/2019	ND	6.90	115	6.00	0.804	
Total BTX	<0.300	0.300	01/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 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	464	16.0	01/09/2019	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	01/08/2019	ND	209	105	200	3.08	
DRO >C10-C28*	<10.0	10.0	01/08/2019	ND	190	95.1	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 94.3 % 41-142

Surrogate: 1-Chlorooctadecane 88.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 5 @ SURFACE (H900022-17)

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	01/10/2019	ND	2.09	105	2.00	1.78	
Toluene*	0.120	0.050	01/10/2019	ND	2.22	111	2.00	3.34	
Ethylbenzene*	0.063	0.050	01/10/2019	ND	2.21	111	2.00	0.317	
Total Xylenes*	0.399	0.150	01/10/2019	ND	6.79	113	6.00	0.690	
Total BTEX	0.582	0.300	01/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	22600	16.0	01/09/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.7	10.0	01/08/2019	ND	209	105	200	3.08	
DRO >C10-C28*	3620	10.0	01/08/2019	ND	190	95.1	200	4.24	
EXT DRO >C28-C36	1070	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 94.5 % 41-142

Surrogate: 1-Chlorooctadecane 215 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/07/2019
Reported: 01/11/2019
Project Name: LOST TANK 4 FEDERAL #0017
Project Number: (11-21-18)
Project Location: OXY

Sampling Date: 01/02/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ 1' (H900022-18)

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	01/10/2019	ND	2.09	105	2.00	1.78	
Toluene*	<0.050	0.050	01/10/2019	ND	2.22	111	2.00	3.34	
Ethylbenzene*	<0.050	0.050	01/10/2019	ND	2.21	111	2.00	0.317	
Total Xylenes*	<0.150	0.150	01/10/2019	ND	6.79	113	6.00	0.690	
Total BTX	<0.300	0.300	01/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	240	16.0	01/09/2019	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	01/08/2019	ND	209	105	200	3.08	
DRO >C10-C28*	68.0	10.0	01/08/2019	ND	190	95.1	200	4.24	
EXT DRO >C28-C36	79.4	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 89.8 % 41-142

Surrogate: 1-Chlorooctadecane 86.4 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 5 @ 2' (H900022-19)

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	01/10/2019	ND	2.09	105	2.00	1.78	
Toluene*	<0.050	0.050	01/10/2019	ND	2.22	111	2.00	3.34	
Ethylbenzene*	<0.050	0.050	01/10/2019	ND	2.21	111	2.00	0.317	
Total Xylenes*	<0.150	0.150	01/10/2019	ND	6.79	113	6.00	0.690	
Total BTEX	<0.300	0.300	01/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	656	16.0	01/09/2019	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	01/08/2019	ND	209	105	200	3.08	
DRO >C10-C28*	<10.0	10.0	01/08/2019	ND	190	95.1	200	4.24	
EXT DRO >C28-C36	10.5	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 86.9 % 41-142

Surrogate: 1-Chlorooctadecane 84.7 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 5 @ 3' (H900022-20)

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	01/10/2019	ND	2.09	105	2.00	1.78	
Toluene*	<0.050	0.050	01/10/2019	ND	2.22	111	2.00	3.34	
Ethylbenzene*	<0.050	0.050	01/10/2019	ND	2.21	111	2.00	0.317	
Total Xylenes*	<0.150	0.150	01/10/2019	ND	6.79	113	6.00	0.690	
Total BTX	<0.300	0.300	01/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	496	16.0	01/09/2019	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	01/08/2019	ND	209	105	200	3.08	
DRO >C10-C28*	<10.0	10.0	01/08/2019	ND	190	95.1	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 89.9 % 41-142

Surrogate: 1-Chlorooctadecane 86.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/07/2019
Reported: 01/11/2019
Project Name: LOST TANK 4 FEDERAL #0017
Project Number: (11-21-18)
Project Location: OXY

Sampling Date: 01/02/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ 4' (H900022-21)

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	01/10/2019	ND	2.09	105	2.00	1.78	
Toluene*	<0.050	0.050	01/10/2019	ND	2.22	111	2.00	3.34	
Ethylbenzene*	<0.050	0.050	01/10/2019	ND	2.21	111	2.00	0.317	
Total Xylenes*	<0.150	0.150	01/10/2019	ND	6.79	113	6.00	0.690	
Total BTX	<0.300	0.300	01/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	288	16.0	01/09/2019	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	01/08/2019	ND	209	105	200	3.08	
DRO >C10-C28*	<10.0	10.0	01/08/2019	ND	190	95.1	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 90.1 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: NORTH @ SURFACE (H900022-22)

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	01/10/2019	ND	2.09	105	2.00	1.78	
Toluene*	<0.050	0.050	01/10/2019	ND	2.22	111	2.00	3.34	
Ethylbenzene*	<0.050	0.050	01/10/2019	ND	2.21	111	2.00	0.317	
Total Xylenes*	<0.150	0.150	01/10/2019	ND	6.79	113	6.00	0.690	
Total BTX	<0.300	0.300	01/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	32.0	16.0	01/09/2019	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	01/08/2019	ND	209	105	200	3.08	
DRO >C10-C28*	<10.0	10.0	01/08/2019	ND	190	95.1	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 85.4 % 41-142

Surrogate: 1-Chlorooctadecane 82.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: EAST @ SURFACE (H900022-23)

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	01/10/2019	ND	2.09	105	2.00	1.78		
Toluene*	<0.050	0.050	01/10/2019	ND	2.22	111	2.00	3.34		
Ethylbenzene*	<0.050	0.050	01/10/2019	ND	2.21	111	2.00	0.317		
Total Xylenes*	<0.150	0.150	01/10/2019	ND	6.79	113	6.00	0.690		
Total BTX	<0.300	0.300	01/10/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	304	16.0	01/09/2019	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	01/08/2019	ND	209	105	200	3.08	
DRO >C10-C28*	<10.0	10.0	01/08/2019	ND	190	95.1	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 92.1 % 41-142

Surrogate: 1-Chlorooctadecane 90.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: WEST @ SURFACE (H900022-24)

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	01/10/2019	ND	2.09	105	2.00	1.78	
Toluene*	<0.050	0.050	01/10/2019	ND	2.22	111	2.00	3.34	
Ethylbenzene*	<0.050	0.050	01/10/2019	ND	2.21	111	2.00	0.317	
Total Xylenes*	<0.150	0.150	01/10/2019	ND	6.79	113	6.00	0.690	
Total BTX	<0.300	0.300	01/10/2019	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	160	16.0	01/09/2019	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	01/08/2019	ND	209	105	200	3.08	
DRO >C10-C28*	<10.0	10.0	01/08/2019	ND	190	95.1	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 91.1 % 41-142

Surrogate: 1-Chlorooctadecane 91.1 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2019	Sampling Date:	01/02/2019
Reported:	01/11/2019	Sampling Type:	Soil
Project Name:	LOST TANK 4 FEDERAL #0017	Sampling Condition:	Cool & Intact
Project Number:	(11-21-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SOUTH @ SURFACE (H900022-25)

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	01/10/2019	ND	2.09	105	2.00	1.78	
Toluene*	<0.050	0.050	01/10/2019	ND	2.22	111	2.00	3.34	
Ethylbenzene*	<0.050	0.050	01/10/2019	ND	2.21	111	2.00	0.317	
Total Xylenes*	<0.150	0.150	01/10/2019	ND	6.79	113	6.00	0.690	
Total BTEx	<0.300	0.300	01/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	272	16.0	01/09/2019	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	01/08/2019	ND	209	105	200	3.08	
DRO >C10-C28*	<10.0	10.0	01/08/2019	ND	190	95.1	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	01/08/2019	ND					

Surrogate: 1-Chlorooctane 86.2 % 41-142

Surrogate: 1-Chlorooctadecane 85.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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.
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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**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. #:				<div style="display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH extended</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">C1</div> </div>																							
Address: P.O. Box 805				Company: <i>Oxy</i>																											
City: Hobbs State: NM Zip: 88241				Attn: <i>W. Dietrich</i>																											
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																											
Project #: Project Owner: Oxy				City:																											
Project Name: Lost Tank 4 Federal 0017 (11-21-18)				State: Zip:																											
Project Location:				Phone #:																											
Sampler Name: Jeff Ornelas				Fax #:																											
FOR LAB USE ONLY																															
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL													SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME					
<i>HAD0022</i>																															
<i>1</i>	SP1 @ SURFACE	<i>9</i>	<i>1</i>			<i>✓</i>					<i>✓</i>		1-2-19	9:39 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>														
<i>2</i>	SP1 @ 1'												1-2-19	9:49 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>														
<i>3</i>	SP1 @ 2'												1-2-19	10:19 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>														
<i>4</i>	SP1 @ 3'												1-2-19	10:37 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>														
<i>5</i>	SP2 @ SURFACE												1-2-19	10:50 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>														
<i>6</i>	SP2 @ 1'												1-2-19	10:59 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>														
<i>7</i>	SP2 @ 2'												1-2-19	11:11 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>														
<i>8</i>	SP2 @ 3'												1-2-19	11:22 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>														
<i>9</i>	SP3 @ SURFACE												1-2-19	11:25 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>														
<i>10</i>	SP3 @ 1'												1-2-19	11:42 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>														

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>[Signature]</i>	Date: <i>1/7/19</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <i>11:00</i>			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: <i>11-35</i>	Received By:	REMARKS:	
Time:				
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: <i>5.80 / #97</i>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	<i>[Signature]</i>		

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



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

Company Name: BBC International, Inc.						BILL TO							ANALYSIS REQUEST																								
Project Manager: Cliff Brunson						P.O. #:						BTX TPH extended CI																									
Address: P.O. Box 805						Company: Oxy																															
City: Hobbs State: NM Zip: 88241						Attn: W. Dittich																															
Phone #: 575-397-6388 Fax #: 575-397-0397						Address:																															
Project #: Project Owner: Oxy						City:																															
Project Name: Lost Tank 4 Federal 0017 (11-21-18)						State: Zip:																															
Project Location:						Phone #:																															
Sampler Name: Jeff Ornelas						Fax #:																															
FOR LAB USE ONLY				(G)RAB 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											
HQDDZ				1						✓										✓				1-2-19		12:12 PM		✓ ✓ ✓									
11		SP3 @ 2'		1						✓										✓				1-2-19		12:50 PM		✓ ✓ ✓									
12		SP3 @ 3'		1																				1-2-19		1:11 PM		✓ ✓ ✓									
13		SP4 @ SURFACE		1																				1-2-19		1:22 PM		✓ ✓ ✓									
14		SP4 @ 1'		1																				1-2-19		1:37 PM		✓ ✓ ✓									
15		SP4 @ 2'		1																				1-2-19		1:45 PM		✓ ✓ ✓									
16		SP4 @ 3'		1																				1-2-19		1:49 PM		✓ ✓ ✓									
17		SP5 @ SURFACE		1																				1-2-19		1:55 PM		✓ ✓ ✓									
18		SP5 @ 1'		1																				1-2-19		2:15 PM		✓ ✓ ✓									
19		SP5 @ 2'		1																				1-2-19		2:30 PM		✓ ✓ ✓									
20		SP5 @ 3'		1																				1-2-19		2:30 PM		✓ ✓ ✓									
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																																					
Relinquished By: [Signature]						Date: 1/7/19		Received By: Jodi Benson						Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						Add'l Phone #:																	
						Time: 11:35								Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						Add'l Fax #:																	
Relinquished By:						Date:		Received By:						REMARKS:																							
						Time:																															
Delivered By: (Circle One)						Sample Condition						CHECKED BY: [Signature]																									
Sampler - UPS - Bus - Other: 5.8yd #97						Cool Intact						[Initials]																									
						<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No																															

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

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