



## DELINEATION WORKPLAN

### OXY – SALT RIDGE CC 20 17 FED COM 23H (Leak Date: 11/22/18)

#### RP # 2RP-5172

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This delineation workplan and remediation proposal addresses the releases associated with RP # 2RP-5172.

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 (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 1,685 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.

Incident ID	
District RP	2RP-5172
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?	52 (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 checked="" type="checkbox"/> Yes <input 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 checked="" 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 checked="" type="checkbox"/> Yes <input 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 ½-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-5172
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 Dittrich Title: Environmental CoordinatorSignature:  Date: 2-11-9email: wade\_dittrich@oxy.com Telephone: (575) 390-2828**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	2RP-6172
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 Dittrich Title: Environmental Coordinator  
Signature:  Date: 2-11-19  
email: wade\_dittrich@oxy.com Telephone: (575) 390-2828

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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





Signature: \_\_\_\_\_ Date: \_\_\_\_\_

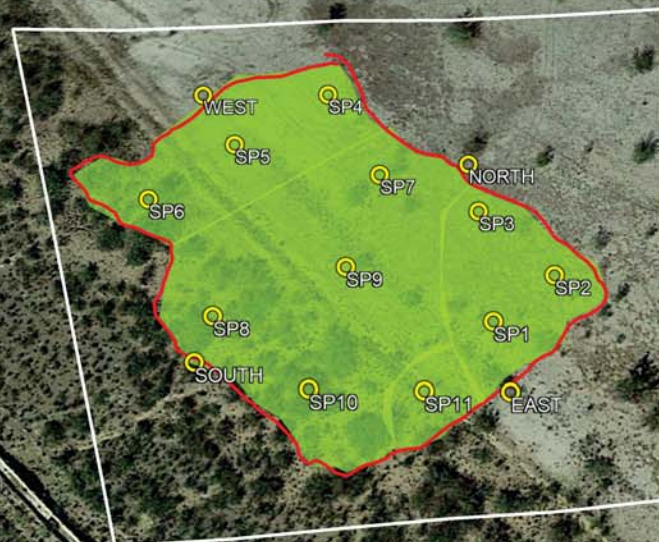


# Oxy, Salt Ridge CC 20 17 Fed Com 23H

Leak date: 11/22/18  
Eddy County, NM  
API# 30-015-44847  
2RP-5172

## Legend

-  1 ft Excavation across entire leak area
-  LEAK AREA
-  Location Pad
-  Sample points



Google Earth

© 2018 Google



300 ft



Oxy, Salt Ridge CC 20 17 Fed Com 23H

Sample points

SP1, N 32.21827 W-104.01072

SP2, N 32.21835 W-104.10609

SP3, N 32.21846 W-104.01075

SP4, N 32.21868 W-104.01104

SP5, N 32.21858 W-104.01121

SP6, N 32.21848 W-104.01136

SP7, N 32.21853 W-104.01093

SP8, N 32.21827 W-104.01122

SP9, N 32.21835 W-104.01099

SP10, N 32.21814 W-104.01104

SP11, N 32.21814 W-104.01084

NORTH, N 32.21855 W-104.01077

SOUTH, N 32.21819 W-104.01125

EAST, N 32.21814 W-104.01068

WEST, N 32.21868 W-104.01128

**Oxy, Salt Ridge CC 20 17 Fed Com 23H**

**U/L E, Section 17, T24S, R29E**

**Groundwater: 50'-75'**





USGS Home  
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## National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

New Mexico

GO

Click to hide News Bulletins

- [Please see news on new formats](#)
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Groundwater levels for New Mexico

Click to hide state-specific text

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 321355104012001

Minimum number of levels = 1

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

### USGS 321355104012001 24S.29E.07.14444

Eddy County, New Mexico

Latitude 32°13'55", Longitude 104°01'20" NAD27

Land-surface elevation 2,983 feet above NAVD88

The depth of the well is 160 feet below land surface.

This well is completed in the Castile Formation (312CSTL) local aquifer.

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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
1983-02-01		D	47.14				2		U	
1987-10-16		D	51.84				2		U	
1988-02-11		D	52.19				2		U	
1992-10-20		D	51.78				2		S	

#### 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	S	Steel-tape measurement.
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.



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



**Title: Groundwater for New Mexico: Water Levels**

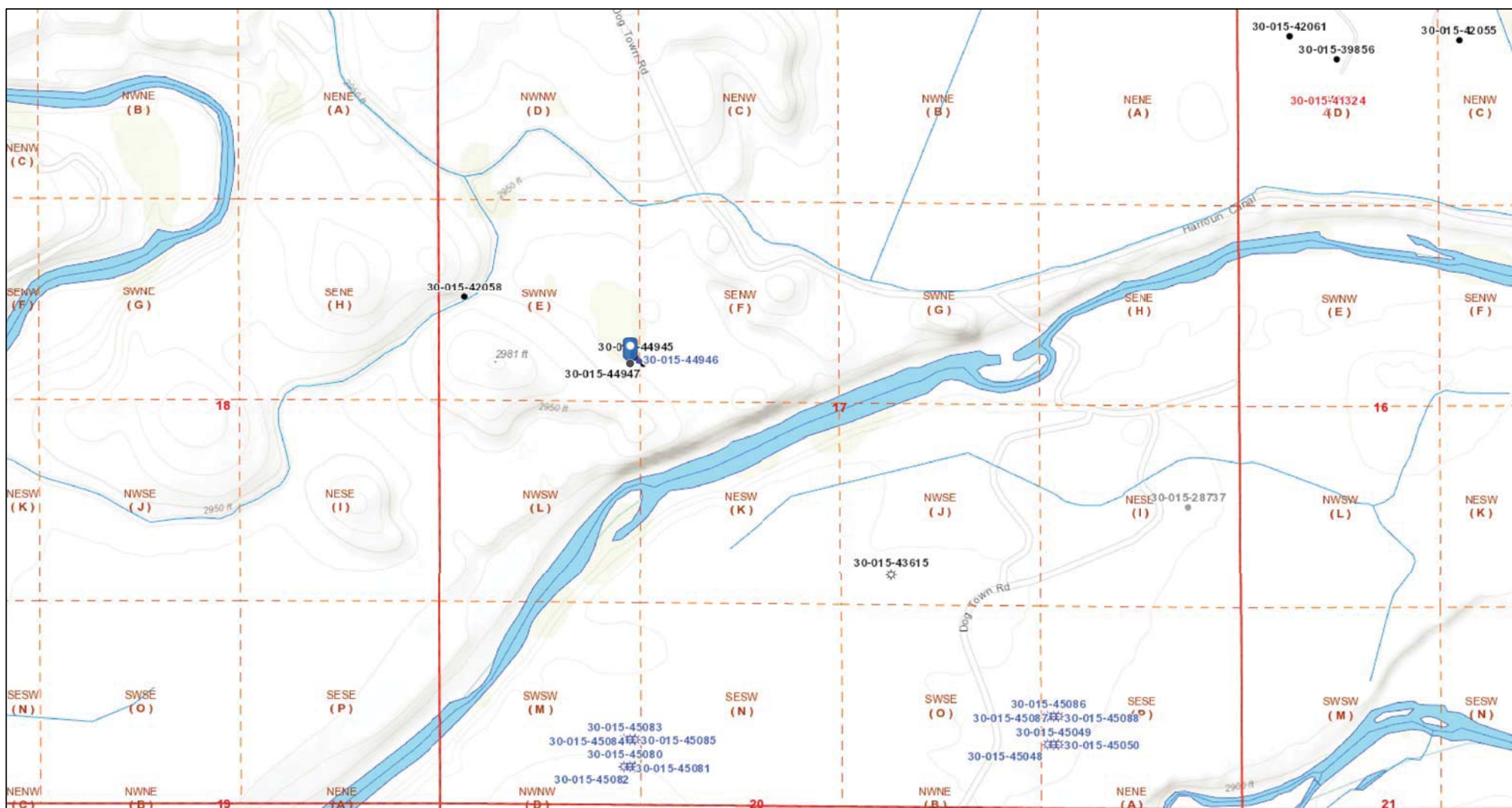
**URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**

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

Page Last Modified: 2018-12-03 13:29:14 EST

0.76   0.68 nadww01

# Salt Ridge CC 20 17 Fed Com 23H, TOPO Map with Water Features



12/3/2018 11:18:23 AM

1:9,028

Well Locations - Small Scale

- Active
- New
- Plugged
- Cancelled
- Temporarily Abandoned

Well Locations - Large Scale

- Miscellaneous
- CO2 Active
- CO2 Cancelled
- CO2 New
- CO2 Plugged
- CO2 Temporarily Abandoned

Gas Active

- Gas, Cancelled, Never Drilled
- Gas, New
- Gas, Plugged
- Gas, Temporarily Abandoned
- Injection, Active

Injection, Cancelled

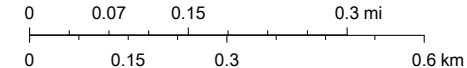
- Injection, New
- Injection, Plugged
- Injection, Temporarily Abandoned

Oil, New

- Oil, Plugged
- Oil, Temporarily Abandoned
- Salt Water Injection, Active
- Salt Water Injection, Cancelled
- Salt Water Injection, New

Salt Water Injection, Plugged

- Salt Water Injection Temporarily Abandoned
- Water, Active
- Water, Cancelled
- Water, New
- Water, Plugged





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

# Oxy, Salt Ridge CC 20 17 Fed Com 23H

Leak date: 11/22/18  
Eddy County, NM  
API#30-015-44847

## BLM CAVE KARST MAP

### Legend

-  LEAK AREA
-  Medium potential



Salt Rid CC 20 17 Fed Com 23H Leak Area





# National Flood Hazard Layer FIRMette



## 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
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		Cross Sections with 1% Annual Chance Water Surface Elevation
MAP PANELS		20.2
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		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 1:36:57 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.

32°13'21.24"N



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

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

32°12'50.80"N

104°0'21.02"W

Laboratory Analytical Results Summary  
Salt Ridge CC 20 17 Fed Com 23H (11/22/18)

		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	1/24/19	1/24/19	1/24/19	1/24/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		1.39	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		1.87	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		12.9	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		16.1	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		34800	976	304	32
GRO	TPH 8015M		267	<10.0	<10.0	<10.0
DRO	TPH 8015M		17000	68.6	<10.0	<10.0
EXT DRO	TPH 8015M		3400	37.1	<10.0	<10.0

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	1/24/19	1/24/19	1/24/19	1/24/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.88	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		1.39	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		8.37	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		10.6	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		31200	1760	256	32
GRO	TPH 8015M		180	<10.0	<10.0	<10.0
DRO	TPH 8015M		16800	91.1	<10.0	<10.0
EXT DRO	TPH 8015M		3510	45.2	<10.0	<10.0

		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	1/24/19	1/24/19	1/24/19	1/24/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.47	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.667	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		4.44	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		5.58	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		37200	1760	272	32
GRO	TPH 8015M		269	<10.0	<10.0	<10.0
DRO	TPH 8015M		24300	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		4970	<10.0	<10.0	<10.0

		Sample ID	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	1/28/19	1/28/19	1/28/19	1/28/19
			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		34800	368	416	64
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		15	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	1/24/19	1/24/19	1/24/19	1/24/19
			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		30000	496	448	48
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	22.3
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'
Analyte	Method	Date	1/24/19	1/24/19	1/28/19	1/28/19
			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		24000	432	448	48
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

		Sample ID	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'
Analyte	Method	Date	1/29/19	1/29/19	1/29/19	1/29/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.05	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		1.89	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		1.94	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		15600	928	672	48
GRO	TPH 8015M		69.2	<10.0	<10.0	<10.0
DRO	TPH 8015M		9060	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		2290	<10.0	<10.0	<10.0

		Sample ID	SP8 @ SURFACE	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'
Analyte	Method	Date	1/29/19	1/29/19	1/29/19	1/29/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.100	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.392	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		3.04	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		3.44	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		28000	624	816	48
GRO	TPH 8015M		337	<10.0	<10.0	<10.0
DRO	TPH 8015M		15100	53.4	<10.0	<10.0
EXT DRO	TPH 8015M		2820	33.4	<10.0	<10.0

Laboratory Analytical Results Summary  
Salt Ridge CC 20 17 Fed Com 23H (11/22/18)

		Sample ID	SP9 @ SURFACE	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'
Analyte	Method	Date	1/29/19	1/29/19	1/29/19	1/29/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.100	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.100	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.373	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.600	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		34000	608	752	48
GRO	TPH 8015M		317	<10.0	<10.0	<10.0
DRO	TPH 8015M		10600	87.5	<10.0	<10.0
EXT DRO	TPH 8015M		1440	24.1	<10.0	<10.0

		Sample ID	SP10 @ SURFACE	SP10 @ 1'	SP10 @ 2'	SP10 @ 3'
Analyte	Method	Date	1/29/19	1/29/19	1/29/19	1/29/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.100	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.24	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		1.61	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		1.85	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		27200	720	640	80
GRO	TPH 8015M		401	<10.0	<10.0	<10.0
DRO	TPH 8015M		12800	44.9	<10.0	<10.0
EXT DRO	TPH 8015M		1870	26.6	<10.0	<10.0

		Sample ID	SP11 @ SURFACE	SP11 @ 1'	SP11 @ 2'	SP11 @ 3'
Analyte	Method	Date	1/29/19	1/29/19	1/29/19	1/29/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.100	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.235	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		2.26	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		2.49	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		8800	896	944	64
GRO	TPH 8015M		358	<10.0	<10.0	<10.0
DRO	TPH 8015M		12200	366	47.9	20.6
EXT DRO	TPH 8015M		2080	170	34.3	<10.0

		Sample ID	NORTH @ SURFACE	SOUTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE
Analyte	Method	Date	1/24/19	1/24/19	1/24/19	1/24/19
			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		80	112	112	64
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	14.1	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0



February 09, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SALT RIDGE CC 20 17 FED COM 23H

Enclosed are the results of analyses for samples received by the laboratory on 01/31/19 15:50.

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](http://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:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 1 @ SURFACE (H900370-01)**

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	02/07/2019	ND	2.13	106	2.00	3.24	
<b>Toluene*</b>	<b>1.39</b>	0.100	02/07/2019	ND	2.19	110	2.00	2.57	
<b>Ethylbenzene*</b>	<b>1.87</b>	0.100	02/07/2019	ND	2.18	109	2.00	1.61	
<b>Total Xylenes*</b>	<b>12.9</b>	0.300	02/07/2019	ND	6.18	103	6.00	1.75	
<b>Total BTEx</b>	<b>16.1</b>	0.600	02/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 139 % 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
<b>Chloride</b>	<b>34800</b>	16.0	02/05/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>267</b>	50.0	02/02/2019	ND	168	84.0	200	0.234	
<b>DRO &gt;C10-C28*</b>	<b>17000</b>	50.0	02/02/2019	ND	183	91.7	200	2.11	
<b>EXT DRO &gt;C28-C36</b>	<b>3400</b>	50.0	02/02/2019	ND					

Surrogate: 1-Chlorooctane 111 % 41-142

Surrogate: 1-Chlorooctadecane 662 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 1 @ 1' (H900370-02)**

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	02/07/2019	ND	2.13	106	2.00	3.24	
Toluene*	<0.050	0.050	02/07/2019	ND	2.19	110	2.00	2.57	
Ethylbenzene*	<0.050	0.050	02/07/2019	ND	2.18	109	2.00	1.61	
Total Xylenes*	<0.150	0.150	02/07/2019	ND	6.18	103	6.00	1.75	
Total BTX	<0.300	0.300	02/07/2019	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	976	16.0	02/05/2019	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	02/02/2019	ND	168	84.0	200	0.234	
DRO >C10-C28*	68.6	10.0	02/02/2019	ND	183	91.7	200	2.11	
EXT DRO >C28-C36	37.1	10.0	02/02/2019	ND					

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane 89.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 1 @ 2' (H900370-03)**

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	02/07/2019	ND	2.13	106	2.00	3.24	
Toluene*	<0.050	0.050	02/07/2019	ND	2.19	110	2.00	2.57	
Ethylbenzene*	<0.050	0.050	02/07/2019	ND	2.18	109	2.00	1.61	
Total Xylenes*	<0.150	0.150	02/07/2019	ND	6.18	103	6.00	1.75	
Total BTX	<0.300	0.300	02/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	304	16.0	02/05/2019	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	02/02/2019	ND	168	84.0	200	0.234	
DRO >C10-C28*	<10.0	10.0	02/02/2019	ND	183	91.7	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/02/2019	ND					

Surrogate: 1-Chlorooctane 87.5 % 41-142

Surrogate: 1-Chlorooctadecane 87.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 1 @ 3' (H900370-04)**

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	02/07/2019	ND	2.13	106	2.00	3.24	
Toluene*	<0.050	0.050	02/07/2019	ND	2.19	110	2.00	2.57	
Ethylbenzene*	<0.050	0.050	02/07/2019	ND	2.18	109	2.00	1.61	
Total Xylenes*	<0.150	0.150	02/07/2019	ND	6.18	103	6.00	1.75	
Total BTX	<0.300	0.300	02/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	32.0	16.0	02/05/2019	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	02/02/2019	ND	168	84.0	200	0.234	
DRO >C10-C28*	<10.0	10.0	02/02/2019	ND	183	91.7	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/02/2019	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 86.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 2 @ SURFACE (H900370-05)**

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2019	ND	2.13	106	2.00	3.24	
Toluene*	<b>0.880</b>	0.050	02/07/2019	ND	2.19	110	2.00	2.57	
Ethylbenzene*	<b>1.39</b>	0.050	02/07/2019	ND	2.18	109	2.00	1.61	
Total Xylenes*	<b>8.37</b>	0.150	02/07/2019	ND	6.18	103	6.00	1.75	
Total BTEX	<b>10.6</b>	0.300	02/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 181 % 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	<b>31200</b>	16.0	02/05/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>180</b>	50.0	02/02/2019	ND	168	84.0	200	0.234	
DRO >C10-C28*	<b>16800</b>	50.0	02/02/2019	ND	183	91.7	200	2.11	
EXT DRO >C28-C36	<b>3510</b>	50.0	02/02/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 689 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 2 @ 1' (H900370-06)**

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	02/07/2019	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	02/07/2019	ND	2.07	104	2.00	0.362	
Ethylbenzene*	<0.050	0.050	02/07/2019	ND	2.04	102	2.00	1.40	
Total Xylenes*	<0.150	0.150	02/07/2019	ND	6.14	102	6.00	1.11	
Total BTEx	<0.300	0.300	02/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	1760	16.0	02/05/2019	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	02/02/2019	ND	168	84.0	200	0.234	
DRO >C10-C28*	91.1	10.0	02/02/2019	ND	183	91.7	200	2.11	
EXT DRO >C28-C36	45.2	10.0	02/02/2019	ND					

Surrogate: 1-Chlorooctane 82.9 % 41-142

Surrogate: 1-Chlorooctadecane 88.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 2 @ 2' (H900370-07)**

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	02/07/2019	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	02/07/2019	ND	2.07	104	2.00	0.362	
Ethylbenzene*	<0.050	0.050	02/07/2019	ND	2.04	102	2.00	1.40	
Total Xylenes*	<0.150	0.150	02/07/2019	ND	6.14	102	6.00	1.11	
Total BTEx	<0.300	0.300	02/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	256	16.0	02/05/2019	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	02/02/2019	ND	168	84.0	200	0.234	
DRO >C10-C28*	<10.0	10.0	02/02/2019	ND	183	91.7	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/02/2019	ND					

Surrogate: 1-Chlorooctane 88.3 % 41-142

Surrogate: 1-Chlorooctadecane 89.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 2 @ 3' (H900370-08)**

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	02/07/2019	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	02/07/2019	ND	2.07	104	2.00	0.362	
Ethylbenzene*	<0.050	0.050	02/07/2019	ND	2.04	102	2.00	1.40	
Total Xylenes*	<0.150	0.150	02/07/2019	ND	6.14	102	6.00	1.11	
Total BTEx	<0.300	0.300	02/07/2019	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	32.0	16.0	02/05/2019	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	02/02/2019	ND	168	84.0	200	0.234	
DRO >C10-C28*	<10.0	10.0	02/02/2019	ND	183	91.7	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/02/2019	ND					

Surrogate: 1-Chlorooctane 87.8 % 41-142

Surrogate: 1-Chlorooctadecane 87.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 3 @ SURFACE (H900370-09)**

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	02/07/2019	ND	2.14	107	2.00	2.30	
Toluene*	0.470	0.050	02/07/2019	ND	2.07	104	2.00	0.362	
Ethylbenzene*	0.667	0.050	02/07/2019	ND	2.04	102	2.00	1.40	
Total Xylenes*	4.44	0.150	02/07/2019	ND	6.14	102	6.00	1.11	
Total BTEX	5.58	0.300	02/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	37200	16.0	02/05/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	269	50.0	02/02/2019	ND	168	84.0	200	0.234	
DRO >C10-C28*	24300	50.0	02/02/2019	ND	183	91.7	200	2.11	
EXT DRO >C28-C36	4970	50.0	02/02/2019	ND					

Surrogate: 1-Chlorooctane 120 % 41-142

Surrogate: 1-Chlorooctadecane 944 % 37.6-147

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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 3 @ 1' (H900370-10)**

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	02/03/2019	ND	1.87	93.4	2.00	2.73	
Toluene*	<0.050	0.050	02/03/2019	ND	1.91	95.4	2.00	3.12	
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	1.85	92.4	2.00	3.10	
Total Xylenes*	<0.150	0.150	02/03/2019	ND	5.34	88.9	6.00	3.08	
Total BTX	<0.300	0.300	02/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 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	1760	16.0	02/05/2019	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	02/04/2019	ND	192	96.1	200	9.80	QM-07
DRO >C10-C28*	<10.0	10.0	02/04/2019	ND	179	89.5	200	15.3	
EXT DRO >C28-C36	<10.0	10.0	02/04/2019	ND					

Surrogate: 1-Chlorooctane 90.8 % 41-142

Surrogate: 1-Chlorooctadecane 92.8 % 37.6-147

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Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 3 @ 2' (H900370-11)**

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	02/03/2019	ND	1.87	93.4	2.00	2.73	
Toluene*	<0.050	0.050	02/03/2019	ND	1.91	95.4	2.00	3.12	
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	1.85	92.4	2.00	3.10	
Total Xylenes*	<0.150	0.150	02/03/2019	ND	5.34	88.9	6.00	3.08	
Total BTX	<0.300	0.300	02/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 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	02/05/2019	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	02/04/2019	ND	192	96.1	200	9.80	
DRO >C10-C28*	<10.0	10.0	02/04/2019	ND	179	89.5	200	15.3	
EXT DRO >C28-C36	<10.0	10.0	02/04/2019	ND					

Surrogate: 1-Chlorooctane 94.3 % 41-142

Surrogate: 1-Chlorooctadecane 95.9 % 37.6-147

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Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 3 @ 3' (H900370-12)**

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	02/03/2019	ND	1.87	93.4	2.00	2.73	
Toluene*	<0.050	0.050	02/03/2019	ND	1.91	95.4	2.00	3.12	
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	1.85	92.4	2.00	3.10	
Total Xylenes*	<0.150	0.150	02/03/2019	ND	5.34	88.9	6.00	3.08	
Total BTEX	<0.300	0.300	02/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 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	32.0	16.0	02/05/2019	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	02/05/2019	ND	192	96.1	200	9.80	
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	179	89.5	200	15.3	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 93.3 % 41-142

Surrogate: 1-Chlorooctadecane 93.5 % 37.6-147

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Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: NORTH SAMPLE @ SURFACE (H900370-13)**

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	02/03/2019	ND	1.87	93.4	2.00	2.73		
Toluene*	<0.050	0.050	02/03/2019	ND	1.91	95.4	2.00	3.12		
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	1.85	92.4	2.00	3.10		
Total Xylenes*	<0.150	0.150	02/03/2019	ND	5.34	88.9	6.00	3.08		
Total BTX	<0.300	0.300	02/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.2 % 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	80.0	16.0	02/05/2019	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	02/05/2019	ND	192	96.1	200	9.80	
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	179	89.5	200	15.3	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 78.5 % 41-142

Surrogate: 1-Chlorooctadecane 75.8 % 37.6-147

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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SOUTH SAMPLE @ SURFACE (H900370-14)**

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	02/03/2019	ND	1.87	93.4	2.00	2.73		
Toluene*	<0.050	0.050	02/03/2019	ND	1.91	95.4	2.00	3.12		
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	1.85	92.4	2.00	3.10		
Total Xylenes*	<0.150	0.150	02/03/2019	ND	5.34	88.9	6.00	3.08		
Total BTEx	<0.300	0.300	02/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.5 % 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	112	16.0	02/05/2019	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	02/05/2019	ND	192	96.1	200	9.80	
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	179	89.5	200	15.3	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 81.9 % 41-142

Surrogate: 1-Chlorooctadecane 81.1 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: EAST SAMPLE @ SURFACE (H900370-15)**

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	02/03/2019	ND	1.87	93.4	2.00	2.73	
Toluene*	<0.050	0.050	02/03/2019	ND	1.91	95.4	2.00	3.12	
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	1.85	92.4	2.00	3.10	
Total Xylenes*	<0.150	0.150	02/03/2019	ND	5.34	88.9	6.00	3.08	
Total BTX	<0.300	0.300	02/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 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	112	16.0	02/05/2019	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	02/05/2019	ND	192	96.1	200	9.80	
DRO >C10-C28*	14.1	10.0	02/05/2019	ND	179	89.5	200	15.3	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 93.6 % 41-142

Surrogate: 1-Chlorooctadecane 95.8 % 37.6-147

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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: WEST SAMPLE @ SURFACE (H900370-16)**

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	02/03/2019	ND	1.87	93.4	2.00	2.73		
Toluene*	<0.050	0.050	02/03/2019	ND	1.91	95.4	2.00	3.12		
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	1.85	92.4	2.00	3.10		
Total Xylenes*	<0.150	0.150	02/03/2019	ND	5.34	88.9	6.00	3.08		
Total BTEx	<0.300	0.300	02/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 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	64.0	16.0	02/06/2019	ND	432	108	400	0.00	QR-03

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	02/05/2019	ND	192	96.1	200	9.80	
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	179	89.5	200	15.3	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 86.4 % 41-142

Surrogate: 1-Chlorooctadecane 86.5 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/28/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 4 @ SURFACE (H900370-17)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2019	ND	1.87	93.4	2.00	2.73		
Toluene*	<0.050	0.050	02/03/2019	ND	1.91	95.4	2.00	3.12		
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	1.85	92.4	2.00	3.10		
Total Xylenes*	<0.150	0.150	02/03/2019	ND	5.34	88.9	6.00	3.08		
Total BTX	<0.300	0.300	02/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 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	34800	16.0	02/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2019	ND	192	96.1	200	9.80	
DRO >C10-C28*	15.0	10.0	02/05/2019	ND	179	89.5	200	15.3	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 92.6 % 41-142

Surrogate: 1-Chlorooctadecane 93.5 % 37.6-147

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\*=Accredited Analyte

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

Received:	01/31/2019	Sampling Date:	01/28/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 4 @ 1' (H900370-18)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/03/2019	ND	1.87	93.4	2.00	2.73		
Toluene*	<0.050	0.050	02/03/2019	ND	1.91	95.4	2.00	3.12		
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	1.85	92.4	2.00	3.10		
Total Xylenes*	<0.150	0.150	02/03/2019	ND	5.34	88.9	6.00	3.08		
Total BTEx	<0.300	0.300	02/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.5 % 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	368	16.0	02/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2019	ND	192	96.1	200	9.80	
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	179	89.5	200	15.3	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 92.3 % 41-142

Surrogate: 1-Chlorooctadecane 91.9 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/28/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 4 @ 2' (H900370-19)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2019	ND	1.87	93.4	2.00	2.73		
Toluene*	<0.050	0.050	02/04/2019	ND	1.91	95.4	2.00	3.12		
Ethylbenzene*	<0.050	0.050	02/04/2019	ND	1.85	92.4	2.00	3.10		
Total Xylenes*	<0.150	0.150	02/04/2019	ND	5.34	88.9	6.00	3.08		
Total BTX	<0.300	0.300	02/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.4 % 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	416	16.0	02/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2019	ND	192	96.1	200	9.80	
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	179	89.5	200	15.3	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 90.3 % 41-142

Surrogate: 1-Chlorooctadecane 92.7 % 37.6-147

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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/28/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 4 @ 3' (H900370-20)**

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	02/04/2019	ND	1.87	93.4	2.00	2.73		
Toluene*	<0.050	0.050	02/04/2019	ND	1.91	95.4	2.00	3.12		
Ethylbenzene*	<0.050	0.050	02/04/2019	ND	1.85	92.4	2.00	3.10		
Total Xylenes*	<0.150	0.150	02/04/2019	ND	5.34	88.9	6.00	3.08		
Total BTX	<0.300	0.300	02/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.4 % 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	64.0	16.0	02/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2019	ND	192	96.1	200	9.80	
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	179	89.5	200	15.3	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 85.8 % 41-142

Surrogate: 1-Chlorooctadecane 90.4 % 37.6-147

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Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 5 @ SURFACE (H900370-21)**

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	02/04/2019	ND	1.87	93.4	2.00	2.73	
Toluene*	<0.050	0.050	02/04/2019	ND	1.91	95.4	2.00	3.12	
Ethylbenzene*	<0.050	0.050	02/04/2019	ND	1.85	92.4	2.00	3.10	
Total Xylenes*	<0.150	0.150	02/04/2019	ND	5.34	88.9	6.00	3.08	
Total BTX	<0.300	0.300	02/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.6 % 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	30000	16.0	02/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2019	ND	192	96.1	200	9.80	
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	179	89.5	200	15.3	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 90.2 % 41-142

Surrogate: 1-Chlorooctadecane 90.6 % 37.6-147

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Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 5 @ 1' (H900370-22)**

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	02/04/2019	ND	1.87	93.4	2.00	2.73		
Toluene*	<0.050	0.050	02/04/2019	ND	1.91	95.4	2.00	3.12		
Ethylbenzene*	<0.050	0.050	02/04/2019	ND	1.85	92.4	2.00	3.10		
Total Xylenes*	<0.150	0.150	02/04/2019	ND	5.34	88.9	6.00	3.08		
Total BTX	<0.300	0.300	02/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.3 % 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	496	16.0	02/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2019	ND	192	96.1	200	9.80	
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	179	89.5	200	15.3	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 94.7 % 41-142

Surrogate: 1-Chlorooctadecane 94.8 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 5 @ 2' (H900370-23)**

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	02/04/2019	ND	1.87	93.4	2.00	2.73	
Toluene*	<0.050	0.050	02/04/2019	ND	1.91	95.4	2.00	3.12	
Ethylbenzene*	<0.050	0.050	02/04/2019	ND	1.85	92.4	2.00	3.10	
Total Xylenes*	<0.150	0.150	02/04/2019	ND	5.34	88.9	6.00	3.08	
Total BTEX	<0.300	0.300	02/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 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	448	16.0	02/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2019	ND	192	96.1	200	9.80	
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	179	89.5	200	15.3	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 95.3 % 41-142

Surrogate: 1-Chlorooctadecane 95.7 % 37.6-147

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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 5 @ 3' (H900370-24)**

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	02/04/2019	ND	1.87	93.4	2.00	2.73		
Toluene*	<0.050	0.050	02/04/2019	ND	1.91	95.4	2.00	3.12		
Ethylbenzene*	<0.050	0.050	02/04/2019	ND	1.85	92.4	2.00	3.10		
Total Xylenes*	<0.150	0.150	02/04/2019	ND	5.34	88.9	6.00	3.08		
Total BTX	<0.300	0.300	02/04/2019	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	48.0	16.0	02/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2019	ND	192	96.1	200	9.80	
DRO >C10-C28*	22.3	10.0	02/05/2019	ND	179	89.5	200	15.3	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 88.9 % 41-142

Surrogate: 1-Chlorooctadecane 91.2 % 37.6-147

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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 6 @ SURFACE (H900370-25)**

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	02/04/2019	ND	1.87	93.4	2.00	2.73		
Toluene*	<0.050	0.050	02/04/2019	ND	1.91	95.4	2.00	3.12		
Ethylbenzene*	<0.050	0.050	02/04/2019	ND	1.85	92.4	2.00	3.10		
Total Xylenes*	<0.150	0.150	02/04/2019	ND	5.34	88.9	6.00	3.08		
Total BTX	<0.300	0.300	02/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.5 % 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	24000	16.0	02/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2019	ND	192	96.1	200	9.80	
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	179	89.5	200	15.3	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 89.6 % 41-142

Surrogate: 1-Chlorooctadecane 91.9 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 6 @ 1' (H900370-26)**

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	02/04/2019	ND	1.87	93.4	2.00	2.73		
Toluene*	<0.050	0.050	02/04/2019	ND	1.91	95.4	2.00	3.12		
Ethylbenzene*	<0.050	0.050	02/04/2019	ND	1.85	92.4	2.00	3.10		
Total Xylenes*	<0.150	0.150	02/04/2019	ND	5.34	88.9	6.00	3.08		
Total BTEX	<0.300	0.300	02/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 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	432	16.0	02/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2019	ND	192	96.1	200	9.80	
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	179	89.5	200	15.3	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 86.0 % 41-142

Surrogate: 1-Chlorooctadecane 88.1 % 37.6-147

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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:	01/31/2019	Sampling Date:	01/28/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 6 @ 2' (H900370-27)**

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	02/04/2019	ND	1.87	93.4	2.00	2.73		
Toluene*	<0.050	0.050	02/04/2019	ND	1.91	95.4	2.00	3.12		
Ethylbenzene*	<0.050	0.050	02/04/2019	ND	1.85	92.4	2.00	3.10		
Total Xylenes*	<0.150	0.150	02/04/2019	ND	5.34	88.9	6.00	3.08		
Total BTX	<0.300	0.300	02/04/2019	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	448	16.0	02/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2019	ND	192	96.1	200	9.80	
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	179	89.5	200	15.3	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 82.5 % 41-142

Surrogate: 1-Chlorooctadecane 87.7 % 37.6-147

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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:	01/31/2019	Sampling Date:	01/28/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 6 @ 3' (H900370-28)**

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	02/04/2019	ND	1.87	93.4	2.00	2.73	
Toluene*	<0.050	0.050	02/04/2019	ND	1.91	95.4	2.00	3.12	
Ethylbenzene*	<0.050	0.050	02/04/2019	ND	1.85	92.4	2.00	3.10	
Total Xylenes*	<0.150	0.150	02/04/2019	ND	5.34	88.9	6.00	3.08	
Total BTEX	<0.300	0.300	02/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 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	48.0	16.0	02/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2019	ND	192	96.1	200	9.80	
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	179	89.5	200	15.3	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 95.5 % 41-142

Surrogate: 1-Chlorooctadecane 96.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 7 @ SURFACE (H900370-29)**

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2019	ND	1.87	93.4	2.00	2.73	
<b>Toluene*</b>	<b>0.050</b>	0.050	02/04/2019	ND	1.91	95.4	2.00	3.12	
Ethylbenzene*	<0.050	0.050	02/04/2019	ND	1.85	92.4	2.00	3.10	
<b>Total Xylenes*</b>	<b>1.89</b>	0.150	02/04/2019	ND	5.34	88.9	6.00	3.08	
<b>Total BTEx</b>	<b>1.94</b>	0.300	02/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 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
<b>Chloride</b>	<b>15600</b>	16.0	02/06/2019	ND	432	108	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
<b>GRO C6-C10*</b>	<b>69.2</b>	10.0	02/05/2019	ND	192	96.1	200	9.80	
<b>DRO &gt;C10-C28*</b>	<b>9060</b>	10.0	02/05/2019	ND	179	89.5	200	15.3	
<b>EXT DRO &gt;C28-C36</b>	<b>2290</b>	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 439 % 37.6-147

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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:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 7 @ 1' (H900370-30)**

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	02/08/2019	ND	2.22	111	2.00	1.36	
Toluene*	<0.050	0.050	02/08/2019	ND	2.11	106	2.00	2.10	
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.09	105	2.00	1.39	
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.25	104	6.00	1.41	
Total BTEX	<0.300	0.300	02/08/2019	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	928	16.0	02/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2019	ND	204	102	200	5.63	QM-07
DRO >C10-C28*	<10.0	10.0	02/08/2019	ND	202	101	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	02/08/2019	ND					

Surrogate: 1-Chlorooctane 76.1 % 41-142

Surrogate: 1-Chlorooctadecane 79.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 7 @ 2' (H900370-31)**

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	02/08/2019	ND	2.22	111	2.00	1.36	
Toluene*	<0.050	0.050	02/08/2019	ND	2.11	106	2.00	2.10	
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.09	105	2.00	1.39	
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.25	104	6.00	1.41	
Total BTX	<0.300	0.300	02/08/2019	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	672	16.0	02/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2019	ND	191	95.7	200	4.30	
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	214	107	200	0.303	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 75.3 % 41-142

Surrogate: 1-Chlorooctadecane 77.9 % 37.6-147

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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:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 7 @ 3' (H900370-32)**

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	02/08/2019	ND	2.22	111	2.00	1.36	
Toluene*	<0.050	0.050	02/08/2019	ND	2.11	106	2.00	2.10	
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.09	105	2.00	1.39	
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.25	104	6.00	1.41	
Total BTEX	<0.300	0.300	02/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	48.0	16.0	02/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2019	ND	191	95.7	200	4.30	
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	214	107	200	0.303	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 76.5 % 41-142

Surrogate: 1-Chlorooctadecane 78.6 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 8 @ SURFACE (H900370-33)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	02/08/2019	ND	2.22	111	2.00	1.36	
Toluene*	<0.100	0.100	02/08/2019	ND	2.11	106	2.00	2.10	
Ethylbenzene*	<b>0.392</b>	0.100	02/08/2019	ND	2.09	105	2.00	1.39	
<b>Total Xylenes*</b>	<b>3.04</b>	0.300	02/08/2019	ND	6.25	104	6.00	1.41	
<b>Total BTX</b>	<b>3.44</b>	0.600	02/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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
<b>Chloride</b>	<b>28000</b>	16.0	02/06/2019	ND	432	108	400	0.00	
<b>TPH 8015M</b>									<b>S-06</b>

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>337</b>	100	02/06/2019	ND	191	95.7	200	4.30	
<b>DRO &gt;C10-C28*</b>	<b>15100</b>	100	02/06/2019	ND	214	107	200	0.303	
<b>EXT DRO &gt;C28-C36</b>	<b>2820</b>	100	02/06/2019	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 630 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 8 @ 1' (H900370-34)**

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	02/08/2019	ND	2.22	111	2.00	1.36		
Toluene*	<0.050	0.050	02/08/2019	ND	2.11	106	2.00	2.10		
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.09	105	2.00	1.39		
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.25	104	6.00	1.41		
Total BTX	<0.300	0.300	02/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	624	16.0	02/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/05/2019	ND	191	95.7	200	4.30		
DRO >C10-C28*	53.4	10.0	02/05/2019	ND	214	107	200	0.303		
EXT DRO >C28-C36	33.4	10.0	02/05/2019	ND						

Surrogate: 1-Chlorooctane 80.6 % 41-142

Surrogate: 1-Chlorooctadecane 86.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 8 @ 2' (H900370-35)**

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	02/08/2019	ND	2.22	111	2.00	1.36	
Toluene*	<0.050	0.050	02/08/2019	ND	2.11	106	2.00	2.10	
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.09	105	2.00	1.39	
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.25	104	6.00	1.41	
Total BTX	<0.300	0.300	02/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	816	16.0	02/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2019	ND	191	95.7	200	4.30	
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	214	107	200	0.303	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctane 78.2 % 41-142

Surrogate: 1-Chlorooctadecane 82.6 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 8 @ 3' (H900370-36)**

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	02/08/2019	ND	2.22	111	2.00	1.36	
Toluene*	<0.050	0.050	02/08/2019	ND	2.11	106	2.00	2.10	
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.09	105	2.00	1.39	
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.25	104	6.00	1.41	
Total BTEX	<0.300	0.300	02/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	48.0	16.0	02/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2019	ND	204	102	200	5.63	
DRO >C10-C28*	<10.0	10.0	02/08/2019	ND	202	101	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	02/08/2019	ND					

Surrogate: 1-Chlorooctane 69.5 % 41-142

Surrogate: 1-Chlorooctadecane 71.2 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 9 @ SURFACE (H900370-37)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	02/08/2019	ND	2.22	111	2.00	1.36	
Toluene*	<0.100	0.100	02/08/2019	ND	2.11	106	2.00	2.10	
Ethylbenzene*	<0.100	0.100	02/08/2019	ND	2.09	105	2.00	1.39	
<b>Total Xylenes*</b>	<b>0.373</b>	0.300	02/08/2019	ND	6.25	104	6.00	1.41	
Total BTEX	<0.600	0.600	02/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	34000	16.0	02/06/2019	ND	432	108	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*	317	100	02/08/2019	ND	204	102	200	5.63	
DRO >C10-C28*	10600	100	02/08/2019	ND	202	101	200	4.89	
EXT DRO >C28-C36	1440	100	02/08/2019	ND					

Surrogate: 1-Chlorooctane 97.1 % 41-142

Surrogate: 1-Chlorooctadecane 366 % 37.6-147

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Cliff Brunson  
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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 9 @ 1' (H900370-38)**

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	02/08/2019	ND	2.22	111	2.00	1.36	
Toluene*	<0.050	0.050	02/08/2019	ND	2.11	106	2.00	2.10	
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.09	105	2.00	1.39	
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.25	104	6.00	1.41	
Total BTEx	<0.300	0.300	02/08/2019	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	608	16.0	02/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2019	ND	204	102	200	5.63	
DRO >C10-C28*	87.5	10.0	02/08/2019	ND	202	101	200	4.89	
EXT DRO >C28-C36	24.1	10.0	02/08/2019	ND					

Surrogate: 1-Chlorooctane 80.8 % 41-142

Surrogate: 1-Chlorooctadecane 88.4 % 37.6-147

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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 9 @ 2' (H900370-39)**

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	02/08/2019	ND	2.22	111	2.00	1.36		
Toluene*	<0.050	0.050	02/08/2019	ND	2.11	106	2.00	2.10		
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.09	105	2.00	1.39		
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.25	104	6.00	1.41		
Total BTEx	<0.300	0.300	02/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	752	16.0	02/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2019	ND	204	102	200	5.63	
DRO >C10-C28*	<10.0	10.0	02/08/2019	ND	202	101	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	02/08/2019	ND					

Surrogate: 1-Chlorooctane 79.1 % 41-142

Surrogate: 1-Chlorooctadecane 81.9 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 9 @ 3' (H900370-40)**

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	02/08/2019	ND	2.22	111	2.00	1.36		
Toluene*	<0.050	0.050	02/08/2019	ND	2.11	106	2.00	2.10		
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.09	105	2.00	1.39		
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.25	104	6.00	1.41		
Total BTEX	<0.300	0.300	02/08/2019	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	48.0	16.0	02/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2019	ND	204	102	200	5.63	
DRO >C10-C28*	<10.0	10.0	02/08/2019	ND	202	101	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	02/08/2019	ND					

Surrogate: 1-Chlorooctane 76.8 % 41-142

Surrogate: 1-Chlorooctadecane 80.6 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 10 @ SURFACE (H900370-41)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	02/08/2019	ND	2.22	111	2.00	1.36	
Toluene*	<0.100	0.100	02/08/2019	ND	2.11	106	2.00	2.10	
Ethylbenzene*	0.240	0.100	02/08/2019	ND	2.09	105	2.00	1.39	
Total Xylenes*	1.61	0.300	02/08/2019	ND	6.25	104	6.00	1.41	
Total BTEx	1.85	0.600	02/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	27200	16.0	02/06/2019	ND	432	108	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
<b>GRO C6-C10*</b>	<b>401</b>	100	02/08/2019	ND	204	102	200	5.63	
<b>DRO &gt;C10-C28*</b>	<b>12800</b>	100	02/08/2019	ND	202	101	200	4.89	
<b>EXT DRO &gt;C28-C36</b>	<b>1870</b>	100	02/08/2019	ND					

Surrogate: 1-Chlorooctane 99.5 % 41-142

Surrogate: 1-Chlorooctadecane 459 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 10 @ 1' (H900370-42)**

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	02/08/2019	ND	2.22	111	2.00	1.36	
Toluene*	<0.050	0.050	02/08/2019	ND	2.11	106	2.00	2.10	
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.09	105	2.00	1.39	
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.25	104	6.00	1.41	
Total BTX	<0.300	0.300	02/08/2019	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	720	16.0	02/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2019	ND	204	102	200	5.63	
DRO >C10-C28*	44.9	10.0	02/08/2019	ND	202	101	200	4.89	
EXT DRO >C28-C36	26.6	10.0	02/08/2019	ND					

Surrogate: 1-Chlorooctane 75.4 % 41-142

Surrogate: 1-Chlorooctadecane 80.9 % 37.6-147

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Received:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 10 @ 2' (H900370-43)**

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	02/08/2019	ND	2.22	111	2.00	1.36		
Toluene*	<0.050	0.050	02/08/2019	ND	2.11	106	2.00	2.10		
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.09	105	2.00	1.39		
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.25	104	6.00	1.41		
Total BTEX	<0.300	0.300	02/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	640	16.0	02/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2019	ND	204	102	200	5.63	
DRO >C10-C28*	<10.0	10.0	02/08/2019	ND	202	101	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	02/08/2019	ND					

Surrogate: 1-Chlorooctane 80.2 % 41-142

Surrogate: 1-Chlorooctadecane 84.6 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 10 @ 3' (H900370-44)**

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	02/08/2019	ND	2.22	111	2.00	1.36	
Toluene*	<0.050	0.050	02/08/2019	ND	2.11	106	2.00	2.10	
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.09	105	2.00	1.39	
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.25	104	6.00	1.41	
Total BTX	<0.300	0.300	02/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	80.0	16.0	02/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2019	ND	204	102	200	5.63	
DRO >C10-C28*	<10.0	10.0	02/08/2019	ND	202	101	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	02/08/2019	ND					

Surrogate: 1-Chlorooctane 78.5 % 41-142

Surrogate: 1-Chlorooctadecane 82.7 % 37.6-147

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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:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 11 @ SURFACE (H900370-45)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	02/08/2019	ND	2.22	111	2.00	1.36	
Toluene*	<0.100	0.100	02/08/2019	ND	2.11	106	2.00	2.10	
Ethylbenzene*	0.235	0.100	02/08/2019	ND	2.09	105	2.00	1.39	
Total Xylenes*	2.26	0.300	02/08/2019	ND	6.25	104	6.00	1.41	
Total BTEX	2.49	0.600	02/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	8800	16.0	02/06/2019	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-04

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*	358	10.0	02/08/2019	ND	204	102	200	5.63	
DRO >C10-C28*	12200	10.0	02/08/2019	ND	202	101	200	4.89	
EXT DRO >C28-C36	2080	10.0	02/08/2019	ND					

Surrogate: 1-Chlorooctane 96.6 % 41-142

Surrogate: 1-Chlorooctadecane 536 % 37.6-147

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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:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 11 @ 1' (H900370-46)**

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	02/08/2019	ND	1.97	98.7	2.00	8.02	
Toluene*	<0.050	0.050	02/08/2019	ND	2.03	102	2.00	5.81	
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	1.99	99.5	2.00	6.31	
Total Xylenes*	<0.150	0.150	02/08/2019	ND	5.74	95.7	6.00	5.23	
Total BTEx	<0.300	0.300	02/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 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	896	16.0	02/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2019	ND	204	102	200	5.63	
DRO >C10-C28*	366	10.0	02/08/2019	ND	202	101	200	4.89	
EXT DRO >C28-C36	170	10.0	02/08/2019	ND					

Surrogate: 1-Chlorooctane 80.9 % 41-142

Surrogate: 1-Chlorooctadecane 91.8 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 11 @ 2' (H900370-47)**

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	02/04/2019	ND	1.98	98.9	2.00	0.149	
Toluene*	<0.050	0.050	02/04/2019	ND	2.00	100	2.00	0.858	
Ethylbenzene*	<0.050	0.050	02/04/2019	ND	1.95	97.3	2.00	1.61	
Total Xylenes*	<0.150	0.150	02/04/2019	ND	5.62	93.6	6.00	0.885	
Total BTX	<0.300	0.300	02/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 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	944	16.0	02/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2019	ND	204	102	200	5.63	
DRO >C10-C28*	47.9	10.0	02/08/2019	ND	202	101	200	4.89	
EXT DRO >C28-C36	34.3	10.0	02/08/2019	ND					

Surrogate: 1-Chlorooctane 82.2 % 41-142

Surrogate: 1-Chlorooctadecane 87.4 % 37.6-147

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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:	01/31/2019	Sampling Date:	01/29/2019
Reported:	02/09/2019	Sampling Type:	Soil
Project Name:	SALT RIDGE CC 20 17 FED COM 23H	Sampling Condition:	Cool & Intact
Project Number:	11-22-18	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 11 @ 3' (H900370-48)**

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	02/04/2019	ND	1.98	98.9	2.00	0.149	
Toluene*	<0.050	0.050	02/04/2019	ND	2.00	100	2.00	0.858	
Ethylbenzene*	<0.050	0.050	02/04/2019	ND	1.95	97.3	2.00	1.61	
Total Xylenes*	<0.150	0.150	02/04/2019	ND	5.62	93.6	6.00	0.885	
Total BTX	<0.300	0.300	02/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 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	64.0	16.0	02/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/08/2019	ND	204	102	200	5.63	
DRO >C10-C28*	20.6	10.0	02/08/2019	ND	202	101	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	02/08/2019	ND					

Surrogate: 1-Chlorooctane 70.2 % 41-142

Surrogate: 1-Chlorooctadecane 74.7 % 37.6-147

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### Notes and Definitions

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



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1 of 5

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Relinquished By: 		Date: 11/29/19		Received By: 		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 5:30pm				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: 		Date: 1-31-19		Received By: 		REMARKS:			
		Time: 15:50							
Delivered By: (Circle One)		Sample Condition		CHECKED BY:					
Sampler - UPS - Bus - Other: -4.1°C #97		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		(Initials) JO.					


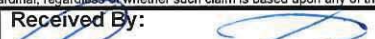


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Relinquished By: 		Date: 1/29/19	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Time: 5:30				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Relinquished By: 		Date: 1-31-19	Received By: 	REMARKS:
Time: 15:50				
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -4.1°C #97		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) TC	

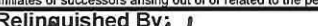
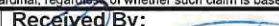


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Relinquished By: 		Date: 11-29-19	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 5:30pm				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: 		Date: 1-31-19	Received By: 	REMARKS:	
Time: 15:50					
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) TC		

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Relinquished By: <i>[Signature]</i>	Date: <i>1/29/19</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: _____
	Time: <i>3:30</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #: _____
Relinquished By: <i>[Signature]</i>	Date: <i>1-31-19</i>	Received By: <i>[Signature]</i>	REMARKS: _____	
	Time: <i>15:50</i>			
Delivered By: (Circle One)		Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other: <i>-4.1°C #97</i>		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials)	
		Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<i>T.O.</i>	

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**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

5 of 5

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																															
Project Manager: Cliff Brunson				P.O. #:																																			
Address: P.O. Box 805				Company: <i>Oxy</i>																																			
City: Hobbs		State: NM Zip: 88241		Attn: <i>[Signature]</i>																																			
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																																			
Project #:		Project Owner: Oxy		City:																																			
Project Name: Salt Ridge CC 20 17 Fed Com 23H - 11-22-18				State: Zip:																																			
Project Location:				Phone #:																																			
Sampler Name: Roger Hernandez				Fax #:																																			
FOR LAB USE ONLY																																							
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS)		MATRIX		PRESERV.		SAMPLING																													
						GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
H900370																																							
41		SP10 @ SURFACE		6																				1-29-19		1:22 PM		✓ ✓ ✓											
42		SP10 @ 1'																						1-29-19		1:34 PM		✓ ✓ ✓											
43		SP10 @ 2'																						1-29-19		1:47 PM		✓ ✓ ✓											
44		SP10 @ 3'																						1-29-19		2:00 PM		✓ ✓ ✓											
45		SP11 @ SURFACE																						1-29-19		2:15 PM		✓ ✓ ✓											
46		SP11 @ 1'																						1-29-19		2:29 PM		✓ ✓ ✓											
47		SP11 @ 2'																						1-29-19		2:40 PM		✓ ✓ ✓											
48		SP11 @ 3'																						1-29-19		2:50 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: <i>[Signature]</i>		Date: 1/29/19		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: 5:30						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <i>[Signature]</i>		Date: 1-31-19		Received By: <i>[Signature]</i>		REMARKS:			
Time: 15:50									
Delivered By: (Circle One)									
Sampler - UPS - Bus - Other: -4.10 #97		Sample Condition		CHECKED BY: (Initials)					
		Cool Intact							
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

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