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## DELINEATION/REMEDATION WORKPLAN

### OXY – NBR STATE 1 SWD (Leak Date: 8/6/19)

#### RP # 1RP-5681

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This delineation workplan and remediation proposal addresses the releases associated with RP # 1RP-5681.

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 leak area near SP1 – SP3 and SP6 – SP10 (PURPLE shade on diagram) will zero remediation. The leak area near SP4 and SP5 (GREEN shade on diagram) will be excavated to a depth of 4 feet. The leak area near SP11 (YELLOW shade on diagram) will be excavated to a depth of 1 foot.***

***Bottom confirmation samples will be collected every 75 feet.***

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.

Form C-141

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State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	1RP-5681
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?	370 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input 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 <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within 1/2-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.

Form C-141

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State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	1RP-5681
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: 11-20-19email: wade\_dittrich@oxy.com Telephone: (575) 390-2828**OCD Only**

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

Form C-141

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State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	1RP-5681
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: 11-20-19  
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: \_\_\_\_\_

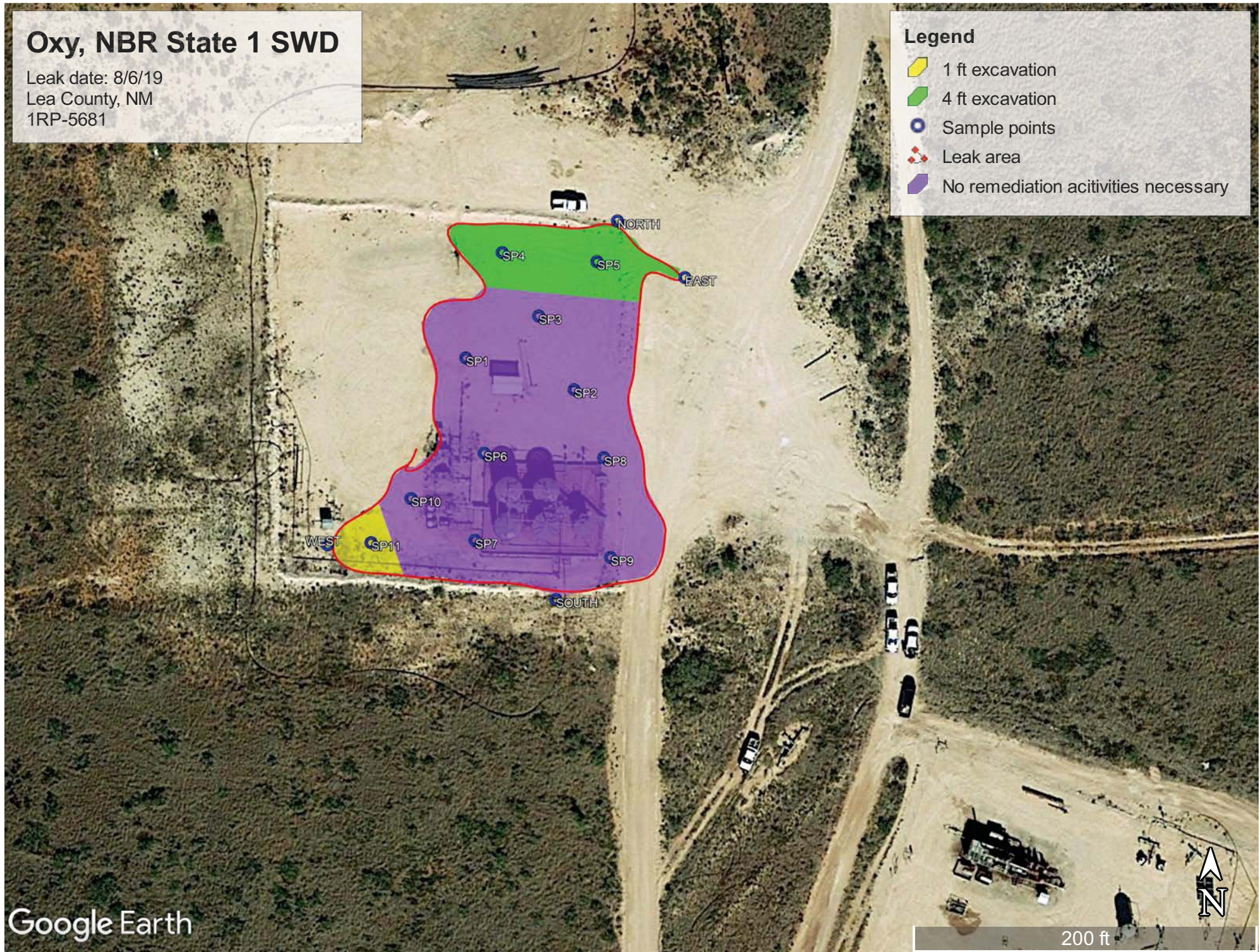


# Oxy, NBR State 1 SWD

Leak date: 8/6/19  
Lea County, NM  
1RP-5681

## Legend

-  1 ft excavation
-  4 ft excavation
-  Sample points
-  Leak area
-  No remediation activities necessary





Oxy, NBR State 1 SWD

Sample points

SP1, N 32.38988 W-103.60945

SP2, N 32.38983 W-103.60925

SP3, N 32.38995 W-103.60931

SP4, N 32.39005 W-103.60938

SP5, N 32.39003 W-103.60920

SP6, N 32.38973 W-103.60941

SP7, N 32.38959 W-103.60943

SP8, N 32.38972 W-103.60919

SP9, N 32.38956 W-103.60918

SP10, N 32.38966 W-103.60955

SP11, N 32.38959 W-103.60963

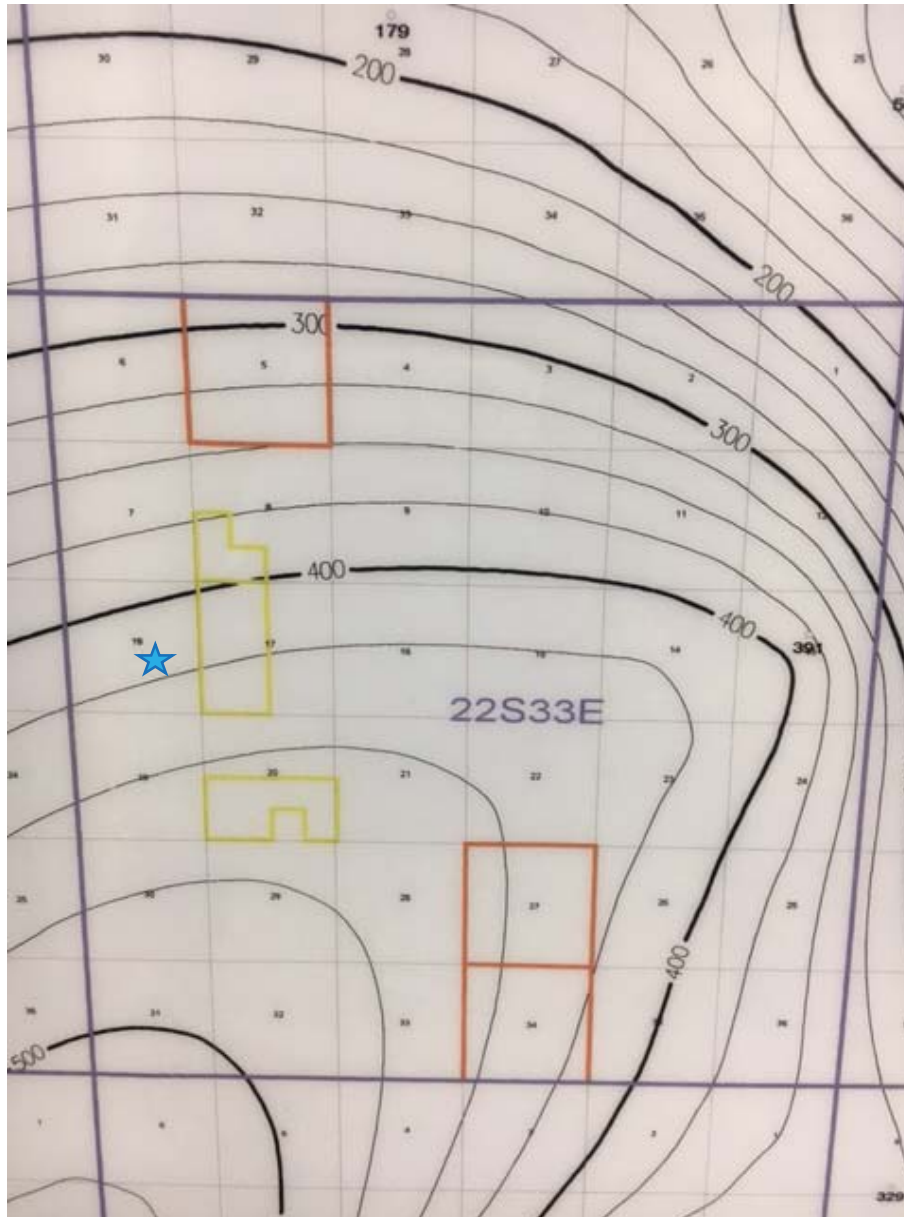
NORTH, N 32.39010 W-103.60917

SOUTH, N 32.38950 W-103.60928

EAST, N 32.39001 W-103.60904

WEST, N 32.38958 W-103.60971

**Oxy, NBR State 1 SWD**  
**U/L J, Section 18, T22S, R33E**  
**Groundwater: 425'**





USGS Home  
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National Water Information System: Web Interface

USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
New Mexico

GO

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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 =

- 322314103383601

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 322314103383601 22S.32E.14.32422

Lea County, New Mexico  
Latitude 32°23'14", Longitude 103°38'36" NAD27  
Land-surface elevation 3,740 feet above NAVD88  
The depth of the well is 380 feet below land surface.  
This well is completed in the Santa Rosa Sandstone (231SNRS) 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
1972-09-13		D	370.40			2		U		

Explanation

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

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

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

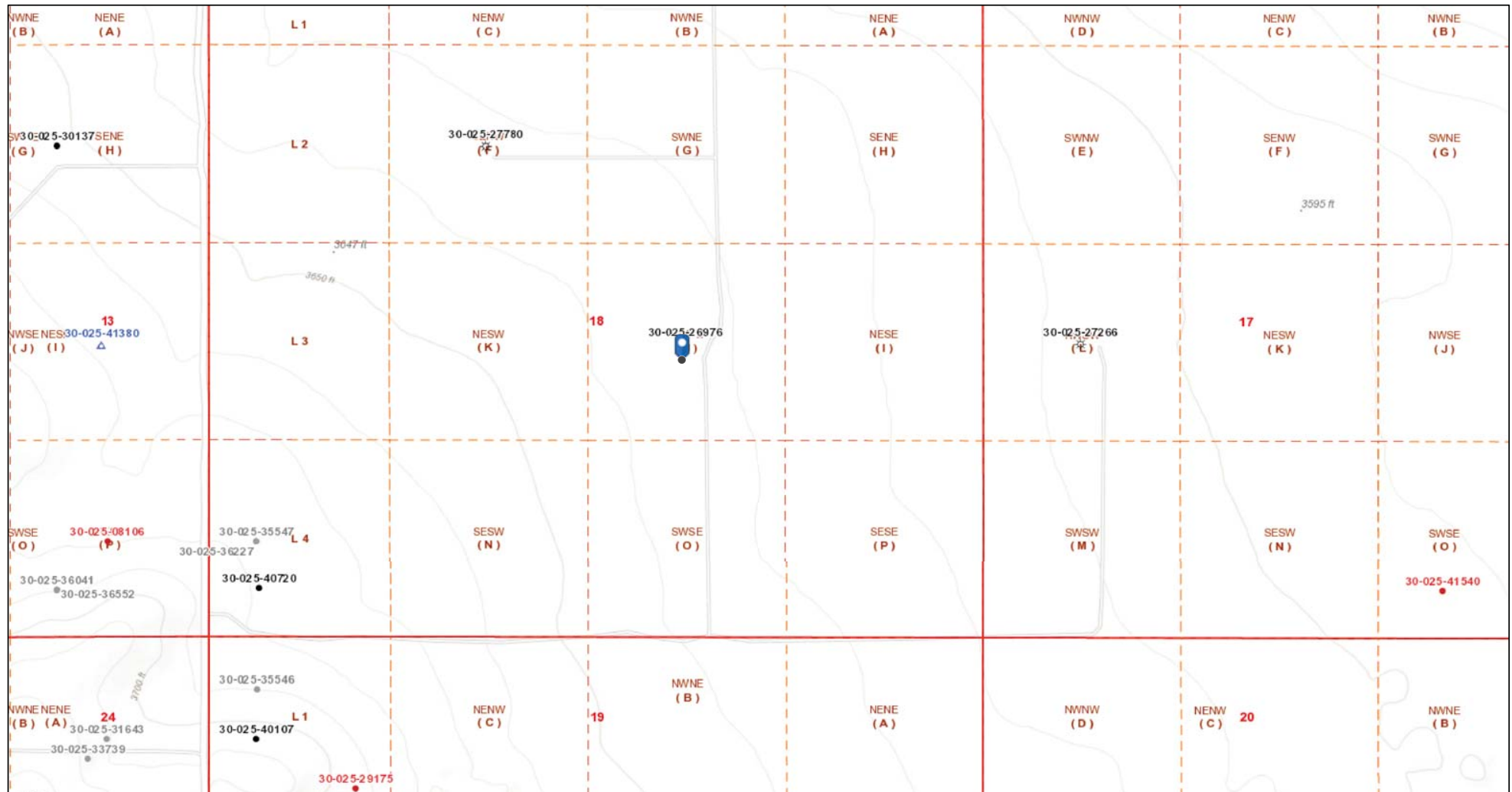


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2019-02-04 10:55:24 EST

0.52 0.45 nadww01

## Oxy, NBR State 1 SWD



9/4/2019 11:41:05 AM

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

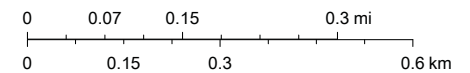
- ☆ Gas Active
- ☆ Gas, Cancelled, Never Drilled
- ☆ Gas, New
- ☆ Gas, Plugged
- ☆ Gas, Temporarily Abandoned
- ☆ Injection, Active

- ☆ Injection, Cancelled
- ☆ Injection, New
- ☆ Injection, Plugged
- ☆ Injection, Temporarily Abandoned
- Oil, Active
- Oil, Cancelled

- 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

1:9,028





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

Oxy, NBR State 1 SWD

Leak date: 8/6/19  
Lea County, NM

BLM CAVE KARST MAP

Legend

-  Leak area
-  Low potential





## National Flood Hazard Layer FIRMette



32°23'37.79"N

103°36'53.54"W



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

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

1:6,000

32°23'16.08"N

## Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/4/2019 at 11:04:27 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Laboratory Analytical Results Summary  
NBR State 1 SWD (8/6/19)

Analyte	Method	Sample ID	SP1 @	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'	SP1 @ 6'
			SURFACE	9/23/19	9/23/19	9/23/19	9/27/19	9/27/19	9/27/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		1340	9060	10700	3600	1540	144	112
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a

Analyte	Method	Sample ID	SP2 @	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'	SP2 @ 6'
			SURFACE	9/23/19	9/23/19	9/23/19	9/27/19	9/27/19	9/27/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		1100	14200	6260	6400	1680	144	160
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a

Analyte	Method	Sample ID	SP3 @	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'	SP3 @ 6'
			SURFACE	9/23/19	9/24/19	9/24/19	9/27/19	9/27/19	9/27/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		1140	10000	8000	11500	2200	128	128
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a

Analyte	Method	Sample ID	SP4 @	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'	SP4 @ 5'	SP4 @ 6'
			SURFACE	9/24/19	9/24/19	9/24/19	9/27/19	9/27/19	9/27/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		1260	6530	26400	32400	2320	112	128
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a

Laboratory Analytical Results Summary  
NBR State 1 SWD (8/6/19)

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'	SP5 @ 5'	SP5 @ 6'
Analyte	Method	Date	9/24/19	9/24/19	9/24/19	9/24/19	9/27/19	9/30/19	9/30/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		2280	24800	34000	31200	2040	144	128
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a

		Sample ID	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'	SP6 @ 5'	SP6 @ 6'
Analyte	Method	Date	9/24/19	9/24/19	9/24/19	9/24/19	9/30/19	9/30/19	9/30/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		3280	10300	10100	4640	1960	112	112
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a

		Sample ID	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'
Analyte	Method	Date	9/24/19	9/24/19	9/24/19	9/24/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a
Chloride	SM4500CI-B		2480	6130	9400	6160
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a

		Sample ID	SP8 @ SURFACE	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'
Analyte	Method	Date	9/24/19	9/24/19	9/24/19	9/24/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a
Chloride	SM4500CI-B		2000	4080	8800	6080
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	20.3	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a



Laboratory Analytical Results Summary  
NBR State 1 SWD (8/6/19)

		Sample ID	SP9 @ SURFACE	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'
Analyte	Method	Date	9/24/19	9/24/19	9/24/19	9/24/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		1920	2760	3840	5840
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a

		Sample ID	SP10 @ SURFACE	SP10 @ 1'	SP10 @ 2'	SP10 @ 3'
Analyte	Method	Date	9/24/19	9/25/19	9/25/19	9/25/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		8000	9600	1840	320
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a

		Sample ID	SP11 @ SURFACE	SP11 @ 1'	SP11 @ 2'	SP11 @ 3'
Analyte	Method	Date	9/25/19	9/25/19	9/25/19	9/25/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		49200	1070	1120	240
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	9/25/19	9/25/19	9/25/19	9/25/19
			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		480	336	528	496
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



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

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October 08, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NBR STATE #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 10/02/19 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/23/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 1 @ SURFACE (H903368-01)**

BTEX 8021B			mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	1.97	98.5	2.00	3.87		
Toluene*	<0.050	0.050	10/03/2019	ND	1.90	94.8	2.00	3.15		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.89	94.7	2.00	3.75		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	5.82	97.0	6.00	4.29		
Total BTEX	<0.300	0.300	10/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 78.8 % 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	1340	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	158	78.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 79.3 % 41-142

Surrogate: 1-Chlorooctadecane 81.9 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/23/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 1 @ 1' (H903368-02)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	1.97	98.5	2.00	3.87		
Toluene*	<0.050	0.050	10/03/2019	ND	1.90	94.8	2.00	3.15		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.89	94.7	2.00	3.75		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	5.82	97.0	6.00	4.29		
Total BTEX	<0.300	0.300	10/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 79.1 % 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	9060	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	158	78.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 81.4 % 41-142

Surrogate: 1-Chlorooctadecane 84.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/23/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 1 @ 2' (H903368-03)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	1.97	98.5	2.00	3.87		
Toluene*	<0.050	0.050	10/03/2019	ND	1.90	94.8	2.00	3.15		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.89	94.7	2.00	3.75		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	5.82	97.0	6.00	4.29		
Total BTEX	<0.300	0.300	10/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 79.4 % 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	10700	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	158	78.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 79.7 % 41-142

Surrogate: 1-Chlorooctadecane 83.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/23/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 1 @ 3' (H903368-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	10/04/2019	ND	416	104	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/23/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 2 @ SURFACE (H903368-05)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	1.97	98.5	2.00	3.87		
Toluene*	<0.050	0.050	10/03/2019	ND	1.90	94.8	2.00	3.15		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.89	94.7	2.00	3.75		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	5.82	97.0	6.00	4.29		
Total BTEX	<0.300	0.300	10/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 78.6 % 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	1100	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	158	78.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 78.5 % 41-142

Surrogate: 1-Chlorooctadecane 80.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/23/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 2 @ 1' (H903368-06)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	1.97	98.5	2.00	3.87		
Toluene*	<0.050	0.050	10/03/2019	ND	1.90	94.8	2.00	3.15		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.89	94.7	2.00	3.75		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	5.82	97.0	6.00	4.29		
Total BTEX	<0.300	0.300	10/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 79.0 % 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	14200	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	158	78.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 79.0 % 41-142

Surrogate: 1-Chlorooctadecane 83.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/23/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 2 @ 2' (H903368-07)**

BTEX 8021B			mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	1.97	98.5	2.00	3.87		
Toluene*	<0.050	0.050	10/03/2019	ND	1.90	94.8	2.00	3.15		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.89	94.7	2.00	3.75		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	5.82	97.0	6.00	4.29		
Total BTEX	<0.300	0.300	10/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 78.7 % 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	6260	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12		
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	158	78.9	200	5.34		
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND						

Surrogate: 1-Chlorooctane 80.7 % 41-142

Surrogate: 1-Chlorooctadecane 84.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/23/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 2 @ 3' (H903368-08)**

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>6400</b>	16.0	10/04/2019	ND	416	104	400	3.77	

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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:	10/02/2019	Sampling Date:	09/23/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 3 @ SURFACE (H903368-09)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94		
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60		
Total BTEX	<0.300	0.300	10/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	1140	16.0	10/04/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	158	78.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 80.2 % 41-142

Surrogate: 1-Chlorooctadecane 84.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/23/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 3 @ 1' (H903368-10)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94		
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60		
Total BTEX	<0.300	0.300	10/03/2019	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	10000	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	158	78.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 72.5 % 41-142

Surrogate: 1-Chlorooctadecane 76.0 % 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:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 6 @ SURFACE (H903368-11)**

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94	
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75	
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02	
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60	
Total BTEX	<0.300	0.300	10/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	3280	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	158	78.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 79.3 % 41-142

Surrogate: 1-Chlorooctadecane 82.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 6 @ 1' (H903368-12)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94		
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60		
Total BTEX	<0.300	0.300	10/03/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10300	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	158	78.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 75.5 % 41-142

Surrogate: 1-Chlorooctadecane 79.6 % 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:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 6 @ 2' (H903368-13)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94		
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60		
Total BTEX	<0.300	0.300	10/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	10100	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	158	78.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 77.7 % 41-142

Surrogate: 1-Chlorooctadecane 81.8 % 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:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 6 @ 3' (H903368-14)**

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>4640</b>	16.0	10/04/2019	ND	416	104	400	3.77	

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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:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 7 @ SURFACE (H903368-15)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94		
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60		
Total BTEX	<0.300	0.300	10/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	2480	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	158	78.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 79.3 % 41-142

Surrogate: 1-Chlorooctadecane 82.0 % 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:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 7 @ 1' (H903368-16)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94		
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60		
Total BTEX	<0.300	0.300	10/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	6130	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	158	78.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 81.8 % 41-142

Surrogate: 1-Chlorooctadecane 84.9 % 37.6-147

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

**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 7 @ 2' (H903368-17)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94		
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60		
Total BTEX	<0.300	0.300	10/03/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9400	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	158	78.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 81.4 % 41-142

Surrogate: 1-Chlorooctadecane 85.0 % 37.6-147

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\*=Accredited Analyte

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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:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 7 @ 3' (H903368-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	10/04/2019	ND	416	104	400	3.77	

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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:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 8 @ SURFACE (H903368-19)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94		
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60		
Total BTEX	<0.300	0.300	10/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	2000	16.0	10/04/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	158	78.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 79.7 % 41-142

Surrogate: 1-Chlorooctadecane 81.2 % 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:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 8 @ 1' (H903368-20)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94		
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60		
Total BTEX	<0.300	0.300	10/03/2019	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	4080	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	158	78.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 75.6 % 41-142

Surrogate: 1-Chlorooctadecane 78.6 % 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:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 8 @ 2' (H903368-21)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94		
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60		
Total BTEX	<0.300	0.300	10/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	8800	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12	
DRO >C10-C28*	20.3	10.0	10/03/2019	ND	158	78.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 80.0 % 41-142

Surrogate: 1-Chlorooctadecane 84.5 % 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:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 8 @ 3' (H903368-22)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6080	16.0	10/04/2019	ND	416	104	400	3.77		

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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:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 9 @ SURFACE (H903368-23)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94		
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60		
Total BTEX	<0.300	0.300	10/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	1920	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	158	78.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 79.7 % 41-142

Surrogate: 1-Chlorooctadecane 83.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 9 @ 1' (H903368-24)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94		
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60		
Total BTEX	<0.300	0.300	10/03/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	2760	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	169	84.3	200	5.12	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	158	78.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 77.8 % 41-142

Surrogate: 1-Chlorooctadecane 82.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 9 @ 2' (H903368-25)**

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94	
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75	
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02	
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60	
Total BTEX	<0.300	0.300	10/03/2019	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	10/04/2019	ND	416	104	400	3.77	QM-07

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	211	106	200	14.5	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	207	104	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 82.7 % 41-142

Surrogate: 1-Chlorooctadecane 87.3 % 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:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 9 @ 3' (H903368-26)**

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>5840</b>	16.0	10/04/2019	ND	416	104	400	3.77	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 10 @ SURFACE (H903368-27)**

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94	
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75	
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02	
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60	
Total BTEX	<0.300	0.300	10/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	8000	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	211	106	200	14.5	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	207	104	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 82.8 % 41-142

Surrogate: 1-Chlorooctadecane 87.1 % 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:	10/02/2019	Sampling Date:	09/25/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 10 @ 1' (H903368-28)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94		
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60		
Total BTEX	<0.300	0.300	10/03/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	211	106	200	14.5	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	207	104	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 83.5 % 41-142

Surrogate: 1-Chlorooctadecane 88.0 % 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:	10/02/2019	Sampling Date:	09/25/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 10 @ 2' (H903368-29)**

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94	
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75	
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02	
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60	
Total BTEX	<0.300	0.300	10/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	1840	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	211	106	200	14.5	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	207	104	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 79.7 % 41-142

Surrogate: 1-Chlorooctadecane 83.6 % 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:	10/02/2019	Sampling Date:	09/25/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 10 @ 3' (H903368-30)**

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>320</b>	16.0	10/04/2019	ND	416	104	400	3.77		

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**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/25/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 11 @ SURFACE (H903368-31)**

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94	
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75	
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02	
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60	
Total BTEX	<0.300	0.300	10/03/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	49200	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	211	106	200	14.5	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	207	104	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 81.3 % 41-142

Surrogate: 1-Chlorooctadecane 85.0 % 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:	10/02/2019	Sampling Date:	09/25/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 11 @ 1' (H903368-32)**

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94	
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75	
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02	
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60	
Total BTEX	<0.300	0.300	10/03/2019	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	1070	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	211	106	200	14.5	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	207	104	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 84.1 % 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:	10/02/2019	Sampling Date:	09/25/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 11 @ 2' (H903368-33)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2019	ND	2.24	112	2.00	1.94		
Toluene*	<0.050	0.050	10/03/2019	ND	1.94	97.2	2.00	2.75		
Ethylbenzene*	<0.050	0.050	10/03/2019	ND	1.98	98.9	2.00	2.02		
Total Xylenes*	<0.150	0.150	10/03/2019	ND	6.07	101	6.00	1.60		
Total BTEX	<0.300	0.300	10/03/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	211	106	200	14.5	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	207	104	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 85.6 % 41-142

Surrogate: 1-Chlorooctadecane 89.1 % 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:	10/02/2019	Sampling Date:	09/25/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 11 @ 3' (H903368-34)**

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>240</b>	16.0	10/04/2019	ND	416	104	400	3.77	

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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:	10/02/2019	Sampling Date:	09/25/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: NORTH @ SURFACE (H903368-35)**

BTEX 8021B			mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/04/2019	ND	1.93	96.7	2.00	0.508		
Toluene*	<0.050	0.050	10/04/2019	ND	1.89	94.4	2.00	0.967		
Ethylbenzene*	<0.050	0.050	10/04/2019	ND	1.84	92.1	2.00	0.0919		
Total Xylenes*	<0.150	0.150	10/04/2019	ND	5.59	93.1	6.00	0.710		
Total BTEX	<0.300	0.300	10/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 78.0 % 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	480	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	211	106	200	14.5		
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	207	104	200	21.7		
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND						

Surrogate: 1-Chlorooctane 84.1 % 41-142

Surrogate: 1-Chlorooctadecane 87.8 % 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:	10/02/2019	Sampling Date:	09/25/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: EAST @ SURFACE (H903368-36)**

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2019	ND	1.93	96.7	2.00	0.508	
Toluene*	<0.050	0.050	10/04/2019	ND	1.89	94.4	2.00	0.967	
Ethylbenzene*	<0.050	0.050	10/04/2019	ND	1.84	92.1	2.00	0.0919	
Total Xylenes*	<0.150	0.150	10/04/2019	ND	5.59	93.1	6.00	0.710	
Total BTEX	<0.300	0.300	10/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 78.2 % 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	336	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	211	106	200	14.5	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	207	104	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 80.8 % 41-142

Surrogate: 1-Chlorooctadecane 83.7 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/25/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: WEST @ SURFACE (H903368-37)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/04/2019	ND	1.93	96.7	2.00	0.508		
Toluene*	<0.050	0.050	10/04/2019	ND	1.89	94.4	2.00	0.967		
Ethylbenzene*	<0.050	0.050	10/04/2019	ND	1.84	92.1	2.00	0.0919		
Total Xylenes*	<0.150	0.150	10/04/2019	ND	5.59	93.1	6.00	0.710		
Total BTEX	<0.300	0.300	10/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 79.3 % 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	528	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	211	106	200	14.5	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	207	104	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 84.7 % 41-142

Surrogate: 1-Chlorooctadecane 88.6 % 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:	10/02/2019	Sampling Date:	09/25/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SOUTH @ SURFACE (H903368-38)**

BTEX 8021B			mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/04/2019	ND	1.93	96.7	2.00	0.508		
Toluene*	<0.050	0.050	10/04/2019	ND	1.89	94.4	2.00	0.967		
Ethylbenzene*	<0.050	0.050	10/04/2019	ND	1.84	92.1	2.00	0.0919		
Total Xylenes*	<0.150	0.150	10/04/2019	ND	5.59	93.1	6.00	0.710		
Total BTEX	<0.300	0.300	10/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 77.1 % 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	496	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	211	106	200	14.5		
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	207	104	200	21.7		
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND						

Surrogate: 1-Chlorooctane 82.6 % 41-142

Surrogate: 1-Chlorooctadecane 84.7 % 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:	10/02/2019	Sampling Date:	09/27/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 1 @ 4' (H903368-39)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	10/04/2019	ND	416	104	400	3.77	

**Sample ID: SP 1 @ 5' (H903368-40)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/04/2019	ND	416	104	400	3.77	

**Sample ID: SP 1 @ 6' (H903368-41)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/04/2019	ND	416	104	400	3.77	

**Sample ID: SP 2 @ 4' (H903368-42)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	10/04/2019	ND	416	104	400	3.77		

**Sample ID: SP 2 @ 5' (H903368-43)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/04/2019	ND	416	104	400	3.77		

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**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/27/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 2 @ 6' (H903368-44)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/04/2019	ND	416	104	400	3.77		

**Sample ID: SP 3 @ 4' (H903368-45)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	10/04/2019	ND	416	104	400	3.77	QM-07	

**Sample ID: SP 3 @ 5' (H903368-46)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/04/2019	ND	416	104	400	3.77		

**Sample ID: SP 3 @ 6' (H903368-47)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/04/2019	ND	416	104	400	3.77		

**Sample ID: SP 4 @ 4' (H903368-48)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	10/04/2019	ND	416	104	400	3.77	

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**Analytical Results For:**

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 Fax To: (575) 397-0397

Received:	10/02/2019	Sampling Date:	09/27/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 4 @ 5' (H903368-49)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/04/2019	ND	416	104	400	3.77	

**Sample ID: SP 4 @ 6' (H903368-50)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/04/2019	ND	416	104	400	3.77		

**Sample ID: SP 5 @ 4' (H903368-51)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	10/04/2019	ND	416	104	400	3.77	

**Sample ID: SP 5 @ 5' (H903368-52)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/04/2019	ND	416	104	400	3.77		

**Sample ID: SP 5 @ 6' (H903368-53)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/04/2019	ND	416	104	400	3.77	

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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:	10/02/2019	Sampling Date:	09/30/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 6 @ 4' (H903368-54)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	10/04/2019	ND	416	104	400	3.77	

**Sample ID: SP 6 @ 5' (H903368-55)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/04/2019	ND	416	104	400	3.77	

**Sample ID: SP 6 @ 6' (H903368-56)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/04/2019	ND	416	104	400	3.77	

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**Analytical Results For:**

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 Fax To: (575) 397-0397

Received:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 3 @ 2' (H903368-57)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/04/2019	ND	1.93	96.7	2.00	0.508		
Toluene*	<0.050	0.050	10/04/2019	ND	1.89	94.4	2.00	0.967		
Ethylbenzene*	<0.050	0.050	10/04/2019	ND	1.84	92.1	2.00	0.0919		
Total Xylenes*	<0.150	0.150	10/04/2019	ND	5.59	93.1	6.00	0.710		
Total BTEX	<0.300	0.300	10/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 75.9 % 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	8000	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	211	106	200	14.5	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	207	104	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 94.2 % 41-142

Surrogate: 1-Chlorooctadecane 97.7 % 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:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 3 @ 3' (H903368-58)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11500	16.0	10/04/2019	ND	416	104	400	3.77	

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**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 4 @ SURFACE (H903368-59)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/04/2019	ND	1.93	96.7	2.00	0.508		
Toluene*	<0.050	0.050	10/04/2019	ND	1.89	94.4	2.00	0.967		
Ethylbenzene*	<0.050	0.050	10/04/2019	ND	1.84	92.1	2.00	0.0919		
Total Xylenes*	<0.150	0.150	10/04/2019	ND	5.59	93.1	6.00	0.710		
Total BTEX	<0.300	0.300	10/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 77.8 % 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	1260	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	211	106	200	14.5	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	207	104	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 89.7 % 41-142

Surrogate: 1-Chlorooctadecane 93.0 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 4 @ 1' (H903368-60)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/04/2019	ND	1.93	96.7	2.00	0.508		
Toluene*	<0.050	0.050	10/04/2019	ND	1.89	94.4	2.00	0.967		
Ethylbenzene*	<0.050	0.050	10/04/2019	ND	1.84	92.1	2.00	0.0919		
Total Xylenes*	<0.150	0.150	10/04/2019	ND	5.59	93.1	6.00	0.710		
Total BTEX	<0.300	0.300	10/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 78.9 % 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	6530	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2019	ND	211	106	200	14.5	
DRO >C10-C28*	<10.0	10.0	10/03/2019	ND	207	104	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	10/03/2019	ND					

Surrogate: 1-Chlorooctane 90.8 % 41-142

Surrogate: 1-Chlorooctadecane 93.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 4 @ 2' (H903368-61)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/04/2019	ND	1.93	96.7	2.00	0.508		
Toluene*	<0.050	0.050	10/04/2019	ND	1.89	94.4	2.00	0.967		
Ethylbenzene*	<0.050	0.050	10/04/2019	ND	1.84	92.1	2.00	0.0919		
Total Xylenes*	<0.150	0.150	10/04/2019	ND	5.59	93.1	6.00	0.710		
Total BTEX	<0.300	0.300	10/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 79.9 % 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	26400	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2019	ND	211	106	200	14.5	
DRO >C10-C28*	<10.0	10.0	10/04/2019	ND	207	104	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	10/04/2019	ND					

Surrogate: 1-Chlorooctane 92.2 % 41-142

Surrogate: 1-Chlorooctadecane 95.9 % 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:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 4 @ 3' (H903368-62)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32400	16.0	10/04/2019	ND	416	104	400	3.77		

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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:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 5 @ SURFACE (H903368-63)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/04/2019	ND	1.93	96.7	2.00	0.508		
Toluene*	<0.050	0.050	10/04/2019	ND	1.89	94.4	2.00	0.967		
Ethylbenzene*	<0.050	0.050	10/04/2019	ND	1.84	92.1	2.00	0.0919		
Total Xylenes*	<0.150	0.150	10/04/2019	ND	5.59	93.1	6.00	0.710		
Total BTEX	<0.300	0.300	10/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 78.2 % 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	2280	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2019	ND	211	106	200	14.5	
DRO >C10-C28*	<10.0	10.0	10/04/2019	ND	207	104	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	10/04/2019	ND					

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 95.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 5 @ 1' (H903368-64)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/04/2019	ND	1.93	96.7	2.00	0.508		
Toluene*	<0.050	0.050	10/04/2019	ND	1.89	94.4	2.00	0.967		
Ethylbenzene*	<0.050	0.050	10/04/2019	ND	1.84	92.1	2.00	0.0919		
Total Xylenes*	<0.150	0.150	10/04/2019	ND	5.59	93.1	6.00	0.710		
Total BTEX	<0.300	0.300	10/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 79.8 % 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	24800	16.0	10/04/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2019	ND	211	106	200	14.5	
DRO >C10-C28*	<10.0	10.0	10/04/2019	ND	207	104	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	10/04/2019	ND					

Surrogate: 1-Chlorooctane 95.7 % 41-142

Surrogate: 1-Chlorooctadecane 98.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 5 @ 2' (H903368-65)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/04/2019	ND	1.93	96.7	2.00	0.508		
Toluene*	<0.050	0.050	10/04/2019	ND	1.89	94.4	2.00	0.967		
Ethylbenzene*	<0.050	0.050	10/04/2019	ND	1.84	92.1	2.00	0.0919		
Total Xylenes*	<0.150	0.150	10/04/2019	ND	5.59	93.1	6.00	0.710		
Total BTEX	<0.300	0.300	10/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 76.6 % 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	34000	16.0	10/04/2019	ND	416	104	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2019	ND	211	106	200	14.5	
DRO >C10-C28*	<10.0	10.0	10/04/2019	ND	207	104	200	21.7	
EXT DRO >C28-C36	<10.0	10.0	10/04/2019	ND					

Surrogate: 1-Chlorooctane 96.4 % 41-142

Surrogate: 1-Chlorooctadecane 99.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	10/02/2019	Sampling Date:	09/24/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	( 8/6/19 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 5 @ 3' (H903368-66)**

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>31200</b>	16.0	10/04/2019	ND	416	104	400	3.77	

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---

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### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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A handwritten signature in black ink that reads "Caley D. Keene".

---

Caley D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

Page 56 of 61

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																	
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>TPH Extended</div> <div>B Test</div> <div>C/L</div> </div>																	
Address: P.O. Box 805				Company:																					
City: Hobbs State: NM Zip: 88241				Attn:																					
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																					
Project #: Project Owner: Oxy				City:																					
Project Name: NBR STATE #1 SWD - 8-6-19				State: Zip:																					
Project Location:				Phone #:																					
Sampler Name: JEFF ORNELAS				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	GRAB OR (COMP. # CONTAINERS)	MATRIX				PRESERV.	SAMPLING																	
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
11	SP6 @ SURFACE				X					X		9-24-19	11:22 AM	X	X										
12	SP6 @ 1'				X					X		9-24-19	11:33 AM	X	X										
13	SP6 @ 2'				X					X		9-24-19	11:44 AM	X	X										
14	SP6 @ 3'				X					X		9-24-19	12:12 PM	X	X										
15	SP7 @ SURFACE				X					X		9-24-19	12:59 PM	X	X										
16	SP7 @ 1'				X					X		9-24-19	1:15 PM	X	X										
17	SP7 @ 2'				X					X		9-24-19	1:25 PM	X	X										
18	SP7 @ 3'				X					X		9-24-19	1:37 PM	X	X										
19	SP8 @ SURFACE				X					X		9-24-19	1:45 PM	X	X										
20	SP8 @ 1'				X					X		9-24-19	1:59 PM	X	X										

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Relinquished By:	Date: 10-2-19	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: 10-2-19	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Time: 4:20pm	Sample Condition	REMARKS:	
Sampler - UPS - Bus - Other:	Time: 1:82	Cool Intact		
	Corrected 2.2i	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	#97	<input type="checkbox"/> Yes <input type="checkbox"/> No		
		CHECKED BY: (Initials)		
		J.O.		

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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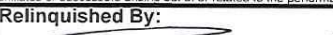




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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4-6

Company Name: BBC International, Inc.						BILL TO							ANALYSIS REQUEST							
Project Manager: Cliff Brunson						P.O. #:							<div style="text-align: center;">TPH Extracted BTEX CL</div>							
Address: P.O. Box 805						Company:														
City: Hobbs State: NM Zip: 88241						Attn:														
Phone #: 575-397-6388 Fax #: 575-397-0397						Address:														
Project #: Project Owner: Oxy						City:														
Project Name: NBR STATE #1 SWD - 8-6-19						State: Zip:														
Project Location:						Phone #:														
Sampler Name: JEFF ORNELAS						Fax #:														
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING										
Lab I.D.	Sample I.D.	(GRAB OR (COMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE: ICE / COOL	OTHER :	DATE	TIME								
H903368																				
31	SP11 @ SURFACE				X				X		9-25-19	10:15 AM	X	X	X					
32	SP11 @ 1'				X				X		9-25-19	10:25 AM	X	X	X					
33	SP11 @ 2'				X				X		9-25-19	10:35 AM	X	X	X					
34	SP11 @ 3'				X				X		9-25-19	10:57 AM	X	X	X					
35	NORTH @ SURFACE				X				X		9-25-19	1:11 PM	X	X	X					
36	EAST @ SURFACE				X				X		9-25-19	1:22 PM	X	X	X					
37	WEST @ SURFACE				X				X		9-25-19	1:33 PM	X	X	X					
38	SOUTH @ SURFACE				X				X		9-25-19	1:59 PM	X	X	X					
39	SP1 @ 4'				X				X		9-27-19	9:19 AM	X	X	X					
40	SP1 @ 5'				X				X		9-27-19	9:39 AM	X	X	X					

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Relinquished By: 		Date: 10-2-19	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 4:20 PM				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: 		Date: 10-2-19	Received By: 	REMARKS:	
Time: 4:20 PM					
Delivered By: (Circle One) 1.8c #47		Sample Condition	CHECKED BY:		
Cool Intact			(Initials)		
Sampler - UPS - Bus - Other: Corrected 2.2c		<input type="checkbox"/> Yes <input type="checkbox"/> No			
		<input type="checkbox"/> Yes <input type="checkbox"/> No	TO -		

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Page 59 of 61

**CARDINAL LABORATORIES**

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

5.6

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																		
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH Extended</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">C1-</div> </div>																		
Address: P.O. Box 805				Company:																						
City: Hobbs State: NM Zip: 88241				Attn:																						
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																						
Project #: Project Owner: Oxy				City:																						
Project Name: NBR STATE #1 SWD - 8-6-19				State: Zip:																						
Project Location:				Phone #:																						
Sampler Name: JEFF ORNELAS				Fax #:																						
FOR LAB USE ONLY																										
Lab I.D.	Sample I.D.	(GIRAB OR C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING														
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
41	SP1 @ 6'					X				X			9-27-19	10:01 AM												
42	SP2 @ 4'					X				X			9-27-19	10:16 AM												
43	SP2 @ 5'					X				X			9-27-19	10:39 AM												
44	SP2 @ 6'					X				X			9-27-19	11:11 AM												
45	SP3 @ 4'					X				X			9-27-19	11:22 AM												
46	SP3 @ 5'					X				X			9-27-19	11:42 AM												
47	SP3 @ 6'					X				X			9-27-19	12:42 PM												
48	SP4 @ 4'					X				X			9-27-19	1:11 PM												
49	SP4 @ 5'					X				X			9-27-19	1:30 PM												
50	SP4 @ 6'					X				X			9-27-19	1:59 PM												

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Relinquished By:	Date: 10-2-19	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: 10-2-19	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Time: 4:20 PM	Sample Condition	REMARKS:	
Sampler - UPS - Bus - Other:	Time: 1:58	Cool Intact		
	Corrected 2:20	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	#97	<input type="checkbox"/> No <input type="checkbox"/> No		
		CHECKED BY: (Initials)		

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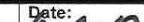








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Relinquished By: 	Date: 10-2-19 Time: 	Received By: 
Relinquished By: 	Date: 10-2-19 Time: 4:20 PM	Received By: 
Delivered By: (Circle One) 1.8°C #97	Sampler - UPS - Bus - Other: Corrected 2.0°C	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No CHECKED BY: (Initials) 

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