



## DELINEATION WORKPLAN

### OXY – CEDAR CANYON 28 CTB (Leak Date: 10/17/18)

#### RP # 2RP-5211

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This delineation workplan and remediation proposal addresses the releases associated with RP # 2RP-5211.

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 – SP7 and SP11 (BLUE shade on diagram) will be excavated to a depth of 1.5 feet. The leak area near SP9 and SP13 (GREEN shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP8 (PINK shade on diagram) will be excavated to a depth of 4 feet. The leak area near SP10 (ORANGE shade on diagram) will be excavated to a depth of 2 feet.***

***Bottom confirmation samples will be collected at no greater than 75 ft. intervals. Estimated volume of material to be removed is 458 cubic yards. The remediation will be completed within 90 days of plan approval.***

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

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

Incident ID	
District RP	2RP-5211
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	52 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input 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 ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	2RP-5211
Facility ID	
Application ID	

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

Printed Name: Wade DittrichTitle: Environmental CoordinatorSignature: Date: 5-3-19email: wade\_dittrich@oxy.comTelephone: (575) 390-2828**OCD Only**

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

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

Incident ID	
District RP	2RP-5211
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: 5-3-19  
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, Cedar Canyon 28 CTB

Leak date: 10/17/18  
Eddy County, NM  
2RP-5211

Legend

1.5 ft excavation

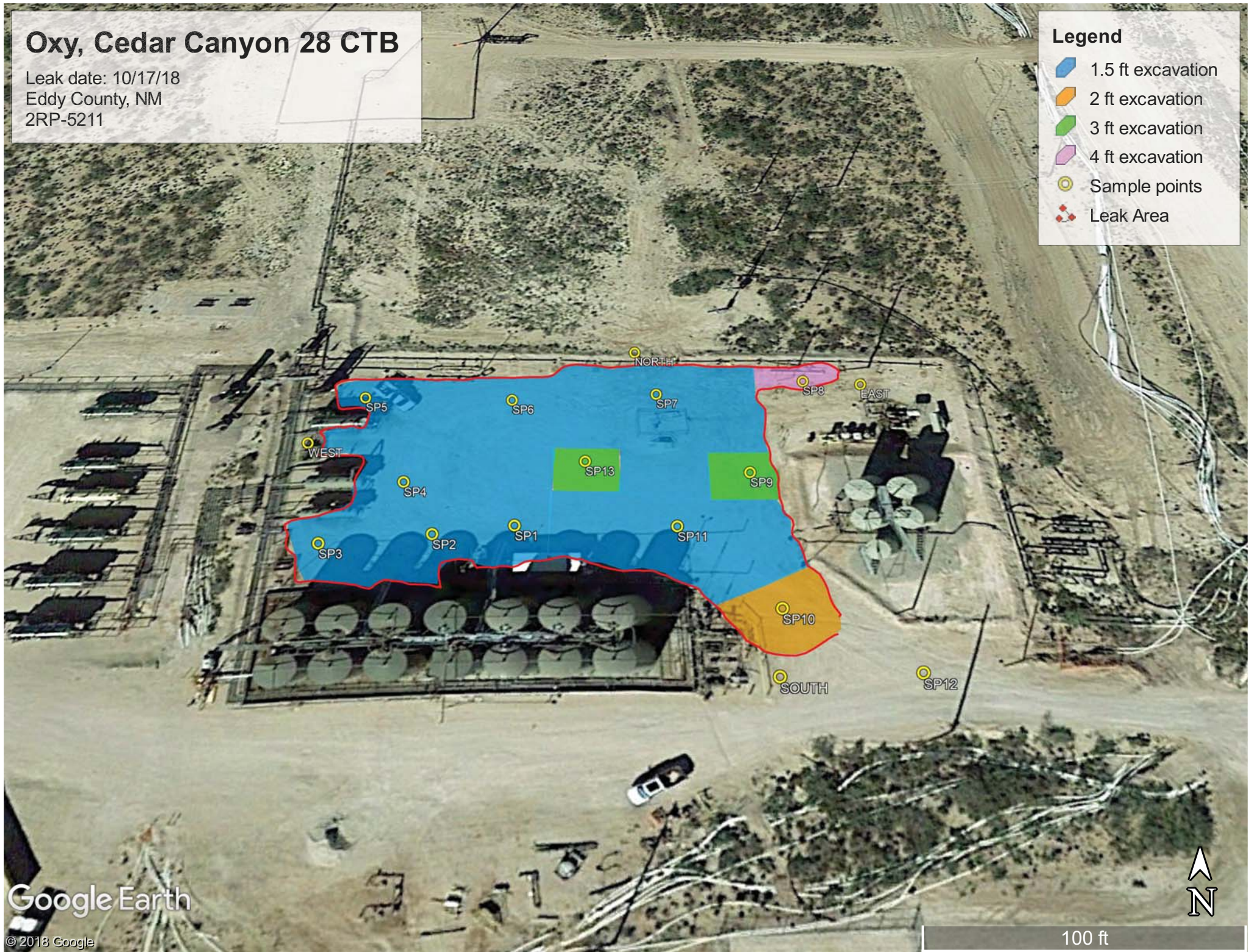
2 ft excavation

3 ft excavation

4 ft excavation

Sample points

Leak Area





Oxy, Cedar Canyon 28 CTB

Sample points

SP1, N 32.18635 W-103.99188

SP2, N 32.18634 W-103.99198

SP3, N 32.18633 W-103.99212

SP4, N 32.18642 W-103.99203

SP5, N 32.18655 W-103.99210

SP6, N 32.18655 W-103.99190

SP7, N 32.18656 W-103.99170

SP8, N 32.18658 W-103.99149

SP9, N 32.18643 W-103.99158

SP10, N 32.18624 W-103.99155

SP11, N 32.18635 W-103.99167

SP12, N 32.18616 W-103.99140

SP13, N 32.18645 W-103.99179

NORTH, N 32.18664 W-103.99173

SOUTH, N 32.18616 W-103.99156

EAST, N 32.18658 W-103.99141

WEST, N 32.18648 W-103.99216

**Oxy, Cedar Canyon 28 CTB**  
**U/L K, Section 28, T24S, R29E**  
**Groundwater: 75'**





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## National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

New Mexico

GO

Click to hideNews Bulletins

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

Click to hide state-specific text

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 321355104012001

Minimum number of levels = 1

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

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

Eddy County, New Mexico

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

Land-surface elevation 2,983 feet above NAVD88

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

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

#### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1983-02-01		D	47.14				2		U	
1987-10-16		D	51.84				2		U	
1988-02-11		D	52.19				2		U	
1992-10-20		D	51.78				2		S	

#### Explanation

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



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

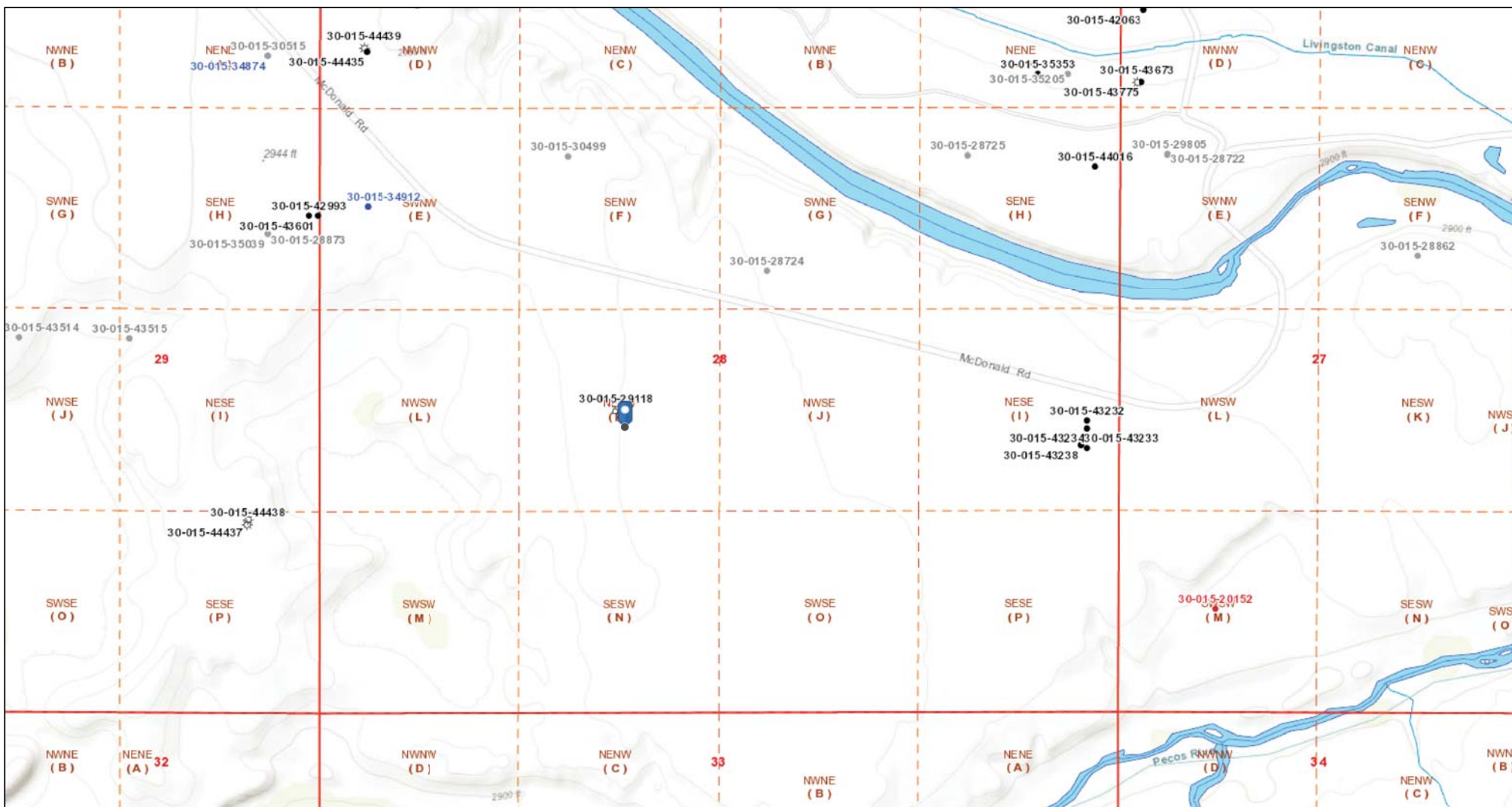
**URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**

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

Page Last Modified: 2018-12-11 14:13:12 EST

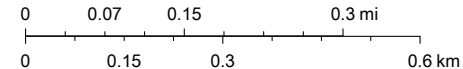
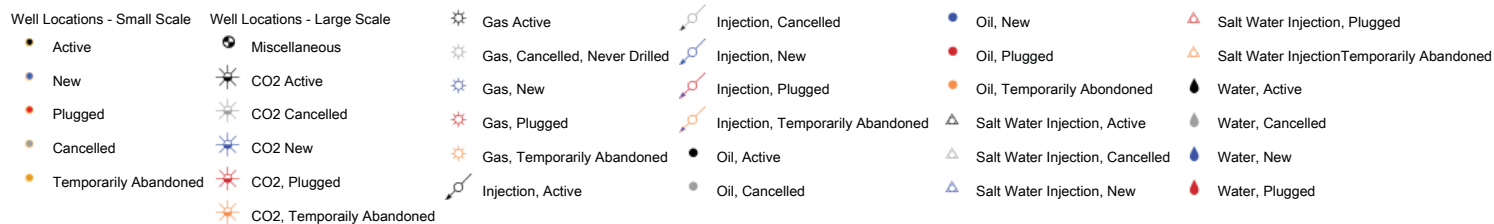
0.55 0.43 nadww01

# Cedar Canyon 28 CTB, TOPO Map with Water Features



1/22/2019 11:35:25 AM

1:9,028





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

# Oxy, Cedar Canyon 28 CTB

Leak date: 10/17/18  
Eddy County, NM

## BLM CAVE KARST MAP

### Legend

-  Leak area
-  Medium potential



Google Earth

© 2018 Google



2000 ft



# National Flood Hazard Layer FIRMette



## Legend

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

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



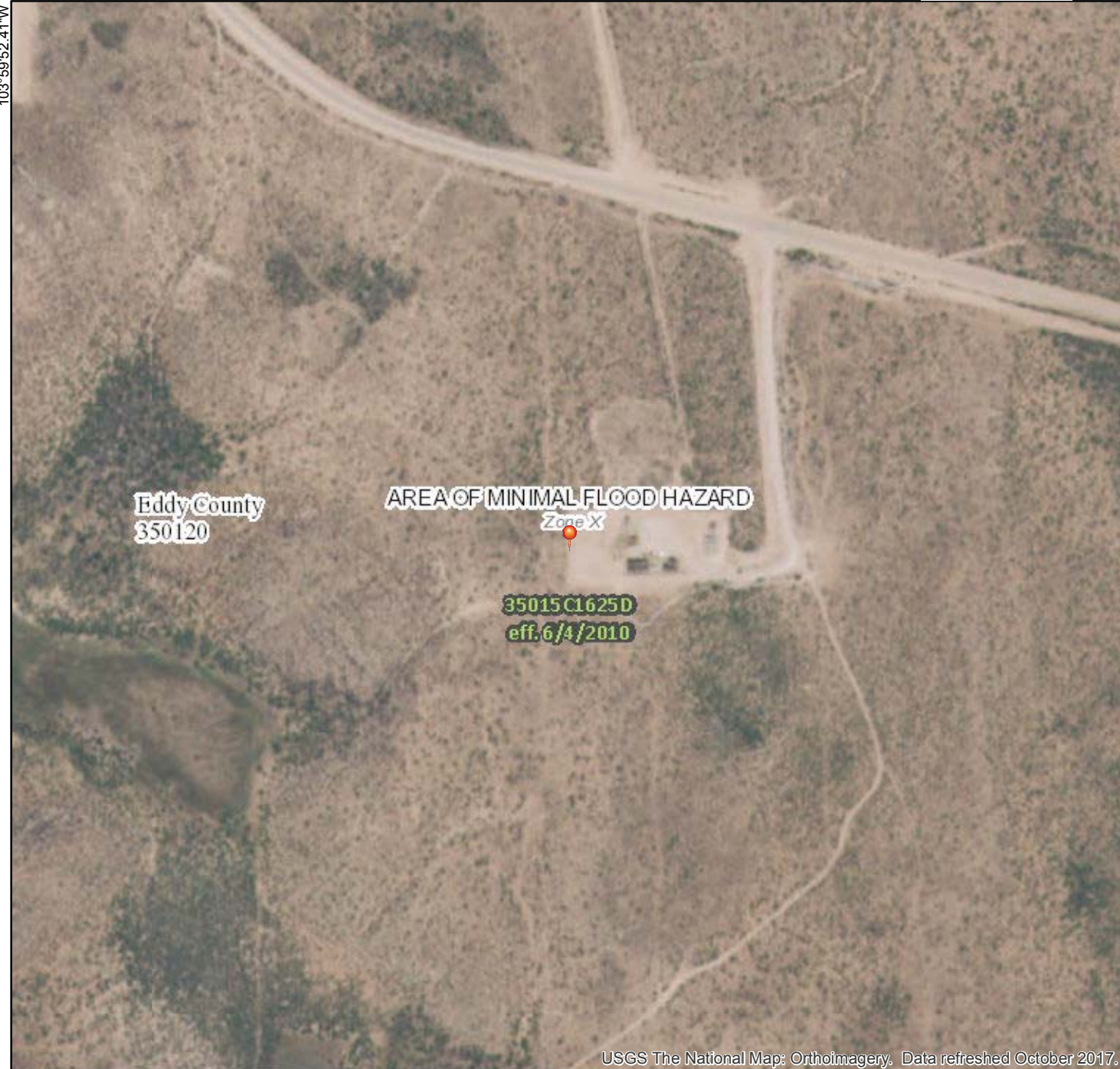
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **12/11/2018 at 2:28:09 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

32°11'26.37"N



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

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

32°10'55.92"N

103°59'14.96"W

Laboratory Analytical Results Summary  
Cedar Canyon 28 CTB (10/17/19)

		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	4/1/19	4/1/19	4/1/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		800	80	80
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		2630	103	30.3
EXT DRO	TPH 8015M		862	49	<10.0

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	4/1/19	4/1/19	4/1/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		624	112	80
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		2600	79.2	21
EXT DRO	TPH 8015M		809	35.6	<10.0

		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	4/1/19	4/1/19	4/1/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		816	96	96
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		2030	52.9	27.2
EXT DRO	TPH 8015M		662	25.3	<10.0

		Sample ID	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	4/2/19	4/2/19	4/2/19	4/2/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.073	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.08	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.492	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		0.645	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		2000	192	112	80
GRO	TPH 8015M		17.7	<10.0	<10.0	<10.0
DRO	TPH 8015M		8800	215	43.6	33.8
EXT DRO	TPH 8015M		3110	83.8	<10.0	<10.0

Laboratory Analytical Results Summary  
Cedar Canyon 28 CTB (10/17/19)

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	4/2/19	4/2/19	4/2/19	4/2/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.095	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.091	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.553	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		0.74	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		1460	224	96	96
GRO	TPH 8015M		<50.0	13.2	<10.0	<10.0
DRO	TPH 8015M		9910	428	19.5	27.2
EXT DRO	TPH 8015M		3600	95.3	<10.0	<10.0

		Sample ID	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'
Analyte	Method	Date	4/2/19	4/2/19	4/2/19	4/2/19	4/2/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		11800	704	448	96	112
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		6430	74.5	36.1	56.4	24.6
EXT DRO	TPH 8015M		1490	20.4	<10.0	<10.0	<10.0

		Sample ID	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'
Analyte	Method	Date	4/2/19	4/2/19	4/2/19	4/2/19	4/2/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.177	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		10600	480	448	64	64
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		6270	61.1	15.9	65.1	<10.0
EXT DRO	TPH 8015M		1530	19.9	<10.0	<10.0	<10.0

		Sample ID	SP8 @ SURFACE	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'	SP8 @ 4'	SP8 @ 5'	SP8 @ 6'	SP8 @ 7'	SP8 @ 8'	SP8 @ 9'	SP8 @ 10'
Analyte	Method	Date	4/2/19	4/3/19	4/3/19	4/3/19	4/3/19	4/3/19	4/3/19	4/3/19	4/3/19	4/3/19	4/3/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		32000	7400	8880	9360	12000	13200	2580	64	80	96	112
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a



Laboratory Analytical Results Summary  
Cedar Canyon 28 CTB (10/17/19)

		Sample ID	SP9 @ SURFACE	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'	SP9 @ 4'	SP9 @ 5'	SP9 @ 6'
Analyte	Method	Date	4/3/19	4/3/19	4/3/19	4/3/19	4/3/19	4/3/19	4/3/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		46000	4800	18800	96	288	64	128
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		37.7	<10.0	<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		21.7	<10.0	<10.0	<10.0	n/a	n/a	n/a

		Sample ID	SP10 @ SURFACE	SP10 @ 1'	SP10 @ 2'	SP10 @ 3'
Analyte	Method	Date	4/3/19	4/3/19	4/3/19	4/4/19
			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		3640	656	144	64
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		319	57.5	<10.0	<10.0
EXT DRO	TPH 8015M		106	27.3	<10.0	<10.0

		Sample ID	SP11 @ SURFACE	SP11 @ 1'	SP11 @ 2'
Analyte	Method	Date	4/4/19	4/4/19	4/4/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.089	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.267	<0.150	<0.150
Total BTEX	BTEX 8021B		0.356	<0.300	<0.300
Chloride	SM4500Cl-B		1260	64	80
GRO	TPH 8015M		33.4	<10.0	<10.0
DRO	TPH 8015M		6810	35.6	<10.0
EXT DRO	TPH 8015M		1680	20.9	<10.0

		Sample ID	SP12 @ SURFACE	SP12 @ 1'
Analyte	Method	Date	4/4/19	4/4/19
			mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		112	80
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		15.8	10.6
EXT DRO	TPH 8015M		<10.0	<10.0

Laboratory Analytical Results Summary  
Cedar Canyon 28 CTB (10/17/19)

		Sample ID	SP13 @ SURFACE	SP13 @ 1'	SP13 @ 2'	SP13 @ 3'	SP13 @ 4'
Analyte	Method	Date	4/4/19	4/4/19	4/4/19	4/4/19	4/4/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		848	256	336	80	80
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		2400	202	188	<10.0	<10.0
EXT DRO	TPH 8015M		610	58	42.5	<10.0	<10.0

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	4/4/19	4/4/19	4/4/19	4/4/19
			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		64	64	64	64
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

April 12, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 28 CTB

Enclosed are the results of analyses for samples received by the laboratory on 04/05/19 11:00.

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	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP 1 @ SURFACE	H901261-01	Soil	01-Apr-19 11:11	05-Apr-19 11:00
SP 1 @ 1'	H901261-02	Soil	01-Apr-19 11:25	05-Apr-19 11:00
SP 1 @ 2'	H901261-03	Soil	01-Apr-19 11:50	05-Apr-19 11:00
SP 2 @ SURFACE	H901261-04	Soil	01-Apr-19 12:12	05-Apr-19 11:00
SP 2 @ 1'	H901261-05	Soil	01-Apr-19 12:51	05-Apr-19 11:00
SP 2 @ 2'	H901261-06	Soil	01-Apr-19 13:11	05-Apr-19 11:00
SP 3 @ SURFACE	H901261-07	Soil	01-Apr-19 13:15	05-Apr-19 11:00
SP 3 @ 1'	H901261-08	Soil	01-Apr-19 13:30	05-Apr-19 11:00
SP 3 @ 2'	H901261-09	Soil	01-Apr-19 14:15	05-Apr-19 11:00
SP 4 @ SURFACE	H901261-10	Soil	02-Apr-19 09:19	05-Apr-19 11:00
SP 4 @ 1'	H901261-11	Soil	02-Apr-19 09:30	05-Apr-19 11:00
SP 4 @ 2'	H901261-12	Soil	02-Apr-19 09:49	05-Apr-19 11:00
SP 4 @ 3'	H901261-13	Soil	02-Apr-19 10:22	05-Apr-19 11:00
SP 5 @ SURFACE	H901261-14	Soil	02-Apr-19 10:44	05-Apr-19 11:00
SP 5 @ 1'	H901261-15	Soil	02-Apr-19 10:59	05-Apr-19 11:00
SP 5 @ 2'	H901261-16	Soil	02-Apr-19 11:15	05-Apr-19 11:00
SP 5 @ 3'	H901261-17	Soil	02-Apr-19 11:39	05-Apr-19 11:00
SP 6 @ SURFACE	H901261-18	Soil	02-Apr-19 12:01	05-Apr-19 11:00
SP 6 @ 1'	H901261-19	Soil	02-Apr-19 12:50	05-Apr-19 11:00
SP 6 @ 2'	H901261-20	Soil	02-Apr-19 13:19	05-Apr-19 11:00
SP 6 @ 3'	H901261-21	Soil	02-Apr-19 13:30	05-Apr-19 11:00
SP 6 @ 4'	H901261-22	Soil	02-Apr-19 13:51	05-Apr-19 11:00
SP 7 @ SURFACE	H901261-23	Soil	02-Apr-19 13:52	05-Apr-19 11:00
SP 7 @ 1'	H901261-24	Soil	02-Apr-19 13:59	05-Apr-19 11:00
SP 7 @ 2'	H901261-25	Soil	02-Apr-19 14:20	05-Apr-19 11:00
SP 7 @ 3'	H901261-26	Soil	02-Apr-19 14:37	05-Apr-19 11:00
SP 7 @ 4'	H901261-27	Soil	02-Apr-19 14:49	05-Apr-19 11:00

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

SP 8 @ SURFACE	H901261-28	Soil	02-Apr-19 15:03	05-Apr-19 11:00
SP 8 @ 1'	H901261-29	Soil	03-Apr-19 09:30	05-Apr-19 11:00
SP 8 @ 2'	H901261-30	Soil	03-Apr-19 09:51	05-Apr-19 11:00
SP 8 @ 3'	H901261-31	Soil	03-Apr-19 10:08	05-Apr-19 11:00
SP 8 @ 4'	H901261-32	Soil	03-Apr-19 10:22	05-Apr-19 11:00
SP 8 @ 5'	H901261-33	Soil	03-Apr-19 10:37	05-Apr-19 11:00
SP 8 @ 6'	H901261-34	Soil	03-Apr-19 11:01	05-Apr-19 11:00
SP 8 @ 7'	H901261-35	Soil	03-Apr-19 11:19	05-Apr-19 11:00
SP 8 @ 8'	H901261-36	Soil	03-Apr-19 11:32	05-Apr-19 11:00
SP 8 @ 9'	H901261-37	Soil	03-Apr-19 11:47	05-Apr-19 11:00
SP 8 @ 10'	H901261-38	Soil	03-Apr-19 12:01	05-Apr-19 11:00
SP 9 @ SURFACE	H901261-39	Soil	03-Apr-19 12:05	05-Apr-19 11:00
SP 9 @ 1'	H901261-40	Soil	03-Apr-19 12:08	05-Apr-19 11:00
SP 9 @ 2'	H901261-41	Soil	03-Apr-19 12:19	05-Apr-19 11:00
SP 9 @ 3'	H901261-42	Soil	03-Apr-19 12:50	05-Apr-19 11:00
SP 9 @ 4'	H901261-43	Soil	03-Apr-19 12:57	05-Apr-19 11:00
SP 9 @ 5'	H901261-44	Soil	03-Apr-19 13:15	05-Apr-19 11:00
SP 9 @ 6'	H901261-45	Soil	03-Apr-19 13:33	05-Apr-19 11:00
SP 10 @ SURFACE	H901261-46	Soil	03-Apr-19 13:40	05-Apr-19 11:00
SP 10 @ 1'	H901261-47	Soil	03-Apr-19 14:47	05-Apr-19 11:00
SP 10 @ 2'	H901261-48	Soil	03-Apr-19 15:01	05-Apr-19 11:00
SP 10 @ 3'	H901261-49	Soil	04-Apr-19 08:57	05-Apr-19 11:00
SP 11 @ SURFACE	H901261-50	Soil	04-Apr-19 09:09	05-Apr-19 11:00
SP 11 @ 1'	H901261-51	Soil	04-Apr-19 09:21	05-Apr-19 11:00
SP 11 @ 2'	H901261-52	Soil	04-Apr-19 09:42	05-Apr-19 11:00
SP 12 @ SURFACE	H901261-53	Soil	04-Apr-19 10:01	05-Apr-19 11:00
SP 12 @ 1'	H901261-54	Soil	04-Apr-19 10:11	05-Apr-19 11:00
SP 13 @ SURFACE	H901261-55	Soil	04-Apr-19 10:31	05-Apr-19 11:00
SP 13 @ 1'	H901261-56	Soil	04-Apr-19 10:52	05-Apr-19 11:00
SP 13 @ 2'	H901261-57	Soil	04-Apr-19 11:11	05-Apr-19 11:00

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397Reported:  
12-Apr-19 15:49

SP 13 @ 3'	H901261-58	Soil	04-Apr-19 11:37	05-Apr-19 11:00
SP 13 @ 4'	H901261-59	Soil	04-Apr-19 12:12	05-Apr-19 11:00
NORTH @ SURFACE	H901261-60	Soil	04-Apr-19 13:11	05-Apr-19 11:00
EAST @ SURFACE	H901261-61	Soil	04-Apr-19 13:22	05-Apr-19 11:00
WEST @ SURFACE	H901261-62	Soil	04-Apr-19 13:33	05-Apr-19 11:00
SOUTH @ SURFACE	H901261-63	Soil	04-Apr-19 13:44	05-Apr-19 11:00

Client added BTEX and TPH to samples -58 and -59 04/11/19. This is the revised report with those additions. This report will replace the one sent on 04/11/19.

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

**SP 1 @ SURFACE**  
**H901261-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

<b>Chloride</b>	<b>800</b>		16.0	mg/kg	4	9040506	AC	08-Apr-19	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	<0.050	0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	91.6 %	73.3-129	9040803	ms	08-Apr-19	8021B	
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**Petroleum Hydrocarbons by GC FID**
**S-04**

GRO C6-C10*	<10.0	10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	
DRO >C10-C28*	2630	10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	862	10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane	77.0 %	41-142	9040508	MS	05-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane	188 %	37.6-147	9040508	MS	05-Apr-19	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 1 @ 1' H901261-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	9040506	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.8 %		73.3-129	9040803	ms	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	
DRO >C10-C28*	103		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	49.0		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane			91.8 %		41-142	9040508	MS	05-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			96.9 %		37.6-147	9040508	MS	05-Apr-19	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 1 @ 2' H901261-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	9040506	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 73.3-129 9040803 ms 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	
DRO >C10-C28*	30.3		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane 88.2 % 41-142 9040508 MS 05-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 92.9 % 37.6-147 9040508 MS 05-Apr-19 8015B

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 2 @ SURFACE

#### H901261-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	624		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 73.3-129 9040803 ms 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	
DRO >C10-C28*	2600		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	809		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane 74.0 % 41-142 9040508 MS 05-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 178 % 37.6-147 9040508 MS 05-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 2 @ 1' H901261-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	112		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 73.3-129 9040803 ms 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	
DRO >C10-C28*	79.2		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	35.6		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane 83.0 % 41-142 9040508 MS 05-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 92.8 % 37.6-147 9040508 MS 05-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 2 @ 2' H901261-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.8 %		73.3-129	9040803	ms	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	
DRO >C10-C28*	21.0		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane			79.2 %		41-142	9040508	MS	05-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			85.3 %		37.6-147	9040508	MS	05-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 3 @ SURFACE

#### H901261-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	816		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			92.5 %		73.3-129	9040803	ms	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	
DRO >C10-C28*	2030		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	662		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane			75.4 %		41-142	9040508	MS	05-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			160 %		37.6-147	9040508	MS	05-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 3 @ 1' H901261-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	96.0		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 73.3-129 9040803 ms 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	
DRO >C10-C28*	52.9		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	25.3		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane 86.8 % 41-142 9040508 MS 05-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 92.2 % 37.6-147 9040508 MS 05-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 3 @ 2' H901261-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	96.0		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.7 %		73.3-129	9040803	ms	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	
DRO >C10-C28*	27.2		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040508	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane			86.6 %		41-142	9040508	MS	05-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			90.9 %		37.6-147	9040508	MS	05-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 4 @ SURFACE

#### H901261-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	2000		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	0.073		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	0.080		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	0.492		0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	0.645		0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.2 %	73.3-129		9040803	ms	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	17.7		10.0	mg/kg	1	9040508	MS	06-Apr-19	8015B	
DRO >C10-C28*	8800		10.0	mg/kg	1	9040508	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	3110		10.0	mg/kg	1	9040508	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane			87.3 %	41-142		9040508	MS	06-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			505 %	37.6-147		9040508	MS	06-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 4 @ 1' H901261-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	192		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 73.3-129 9040803 ms 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040508	MS	06-Apr-19	8015B	
DRO >C10-C28*	215		10.0	mg/kg	1	9040508	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	83.8		10.0	mg/kg	1	9040508	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane 87.4 % 41-142 9040508 MS 06-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 103 % 37.6-147 9040508 MS 06-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 4 @ 2' H901261-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	112		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			92.4 %		73.3-129	9040803	ms	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040508	MS	06-Apr-19	8015B	
DRO >C10-C28*	43.6		10.0	mg/kg	1	9040508	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040508	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane			93.5 %		41-142	9040508	MS	06-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			91.2 %		37.6-147	9040508	MS	06-Apr-19	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

**SP 4 @ 3'**  
**H901261-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

#### Inorganic Compounds

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			93.1 %		73.3-129	9040803	ms	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040508	MS	06-Apr-19	8015B	
<b>DRO &gt;C10-C28*</b>	<b>33.8</b>		10.0	mg/kg	1	9040508	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040508	MS	06-Apr-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.1 %		41-142	9040508	MS	06-Apr-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.2 %		37.6-147	9040508	MS	06-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 5 @ SURFACE

#### H901261-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	1460		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	0.095		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	0.091		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	0.553		0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	0.740		0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			93.4 %		73.3-129	9040803	ms	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	<50.0		50.0	mg/kg	5	9040509	MS	10-Apr-19	8015B	
DRO >C10-C28*	9910		50.0	mg/kg	5	9040509	MS	10-Apr-19	8015B	QM-07
EXT DRO >C28-C36	3600		50.0	mg/kg	5	9040509	MS	10-Apr-19	8015B	

Surrogate: 1-Chlorooctane			95.3 %		41-142	9040509	MS	10-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			539 %		37.6-147	9040509	MS	10-Apr-19	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 5 @ 1' H901261-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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#### Cardinal Laboratories

#### Inorganic Compounds

Chloride	224		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.0 %		73.3-129	9040803	ms	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	13.2		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	
DRO >C10-C28*	428		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	95.3		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane			104 %		41-142	9040509	MS	05-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			130 %		37.6-147	9040509	MS	05-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

**SP 5 @ 2'**  
**H901261-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

#### Inorganic Compounds

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			93.5 %		73.3-129	9040803	ms	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	
<b>DRO &gt;C10-C28*</b>	<b>19.5</b>		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			104 %		41-142	9040509	MS	05-Apr-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			109 %		37.6-147	9040509	MS	05-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 5 @ 3' H901261-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	96.0		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			93.7 %		73.3-129	9040803	ms	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	
DRO >C10-C28*	27.2		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane			101 %		41-142	9040509	MS	05-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			107 %		37.6-147	9040509	MS	05-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 6 @ SURFACE

#### H901261-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	11800		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.9 %		73.3-129	9040803	ms	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	
DRO >C10-C28*	6430		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	1490		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane			99.9 %		41-142	9040509	MS	05-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			405 %		37.6-147	9040509	MS	05-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 6 @ 1' H901261-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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#### Cardinal Laboratories

#### Inorganic Compounds

Chloride	704		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 73.3-129 9040803 ms 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	
DRO >C10-C28*	74.5		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	20.4		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane 93.2 % 41-142 9040509 MS 05-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 97.1 % 37.6-147 9040509 MS 05-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 6 @ 2' H901261-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	448		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040803	ms	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040803	ms	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			92.5 %		73.3-129	9040803	ms	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	
DRO >C10-C28*	36.1		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane			99.0 %		41-142	9040509	MS	05-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			104 %		37.6-147	9040509	MS	05-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 6 @ 3' H901261-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	96.0		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3-129		9040804	MS	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	
DRO >C10-C28*	56.4		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane			100 %	41-142		9040509	MS	05-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			108 %	37.6-147		9040509	MS	05-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 6 @ 4' H901261-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	112		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129 9040804 MS 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	
DRO >C10-C28*	24.6		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane 90.0 % 41-142 9040509 MS 05-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 95.4 % 37.6-147 9040509 MS 05-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 7 @ SURFACE

### H901261-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	10600		16.0	mg/kg	4	9040810	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	0.177		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			122 %	73.3-129		9040804	MS	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	
DRO >C10-C28*	6270		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	1530		10.0	mg/kg	1	9040509	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane			102 %	41-142		9040509	MS	05-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			402 %	37.6-147		9040509	MS	05-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 7 @ 1' H901261-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	480		16.0	mg/kg	4	9040811	AC	08-Apr-19	4500-Cl-B	QM-07
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	110 %		73.3-129			9040804	MS	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
DRO >C10-C28*	61.1		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	19.9		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane	97.2 %		41-142			9040509	MS	06-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane	105 %		37.6-147			9040509	MS	06-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

**SP 7 @ 2'**  
**H901261-25 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

#### Inorganic Compounds

<b>Chloride</b>	<b>448</b>		16.0	mg/kg	4	9040811	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.3-129 9040804 MS 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
<b>DRO &gt;C10-C28*</b>	<b>15.9</b>		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane 98.7 % 41-142 9040509 MS 06-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 104 % 37.6-147 9040509 MS 06-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 7 @ 3' H901261-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	9040811	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129 9040804 MS 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
DRO >C10-C28*	65.1		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane 100 % 41-142 9040509 MS 06-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 110 % 37.6-147 9040509 MS 06-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

**SP 7 @ 4'**  
**H901261-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

#### Inorganic Compounds

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	9040811	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %	73.3-129		9040804	MS	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			103 %	41-142		9040509	MS	06-Apr-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			107 %	37.6-147		9040509	MS	06-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 8 @ SURFACE

#### H901261-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	32000		16.0	mg/kg	4	9040811	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %		73.3-129	9040804	MS	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane			99.9 %		41-142	9040509	MS	06-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			103 %		37.6-147	9040509	MS	06-Apr-19	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 8 @ 1' H901261-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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#### Cardinal Laboratories

#### Inorganic Compounds

Chloride	7400		16.0	mg/kg	4	9040811	AC	08-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129 9040804 MS 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane 91.6 % 41-142 9040509 MS 06-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 91.5 % 37.6-147 9040509 MS 06-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

**SP 8 @ 2'**  
**H901261-30 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

#### Inorganic Compounds

<b>Chloride</b>	<b>8880</b>		16.0	mg/kg	4	9040811	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129 9040804 MS 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane 97.4 % 41-142 9040509 MS 06-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 100 % 37.6-147 9040509 MS 06-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

**SP 8 @ 3'**  
**H901261-31 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

#### Inorganic Compounds

<b>Chloride</b>	<b>9360</b>		16.0	mg/kg	4	9040811	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129 9040804 MS 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane 102 % 41-142 9040509 MS 06-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 103 % 37.6-147 9040509 MS 06-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 8 @ 4' H901261-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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#### Cardinal Laboratories

#### Inorganic Compounds

Chloride	12000		16.0	mg/kg	4	9040811	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129 9040804 MS 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane 96.2 % 41-142 9040509 MS 06-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 102 % 37.6-147 9040509 MS 06-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

**SP 8 @ 5'**  
**H901261-33 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

#### Inorganic Compounds

<b>Chloride</b>	<b>13200</b>		16.0	mg/kg	4	9040811	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.2 %		73.3-129	9040804	MS	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040509	MS	06-Apr-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.7 %		41-142	9040509	MS	06-Apr-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			102 %		37.6-147	9040509	MS	06-Apr-19	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397Reported:  
12-Apr-19 15:49**SP 8 @ 6'**  
**H901261-34 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>2580</b>		16.0	mg/kg	4	9040811	AC	09-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397Reported:  
12-Apr-19 15:49**SP 8 @ 7'**  
**H901261-35 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	9040811	AC	09-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397Reported:  
12-Apr-19 15:49**SP 8 @ 8'**  
**H901261-36 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	9040811	AC	09-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397Reported:  
12-Apr-19 15:49**SP 8 @ 9'**  
**H901261-37 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	9040811	AC	09-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397Reported:  
12-Apr-19 15:49**SP 8 @ 10'**  
**H901261-38 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	9040811	AC	09-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 9 @ SURFACE

#### H901261-39 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	46000		16.0	mg/kg	4	9040811	AC	09-Apr-19	4500-CI-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129 9040804 MS 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040510	MS	05-Apr-19	8015B	
DRO >C10-C28*	37.7		10.0	mg/kg	1	9040510	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	21.7		10.0	mg/kg	1	9040510	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane 79.2 % 41-142 9040510 MS 05-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 81.1 % 37.6-147 9040510 MS 05-Apr-19 8015B

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

**SP 9 @ 1'**  
**H901261-40 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

#### Inorganic Compounds

<b>Chloride</b>	<b>4800</b>		16.0	mg/kg	4	9040811	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129 9040804 MS 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040510	MS	05-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9040510	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040510	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane 80.3 % 41-142 9040510 MS 05-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 77.6 % 37.6-147 9040510 MS 05-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

**SP 9 @ 2'**  
**H901261-41 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

#### Inorganic Compounds

<b>Chloride</b>	<b>18800</b>		16.0	mg/kg	4	9040811	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

*Surrogate: 4-Bromofluorobenzene (PID)* 97.2 % 73.3-129 9040804 MS 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040510	MS	05-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9040510	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040510	MS	05-Apr-19	8015B	

*Surrogate: 1-Chlorooctane* 79.2 % 41-142 9040510 MS 05-Apr-19 8015B

*Surrogate: 1-Chlorooctadecane* 81.5 % 37.6-147 9040510 MS 05-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

**SP 9 @ 3'**  
**H901261-42 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

#### Inorganic Compounds

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	9040811	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129 9040804 MS 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040510	MS	05-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9040510	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040510	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane 79.5 % 41-142 9040510 MS 05-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 79.2 % 37.6-147 9040510 MS 05-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397Reported:  
12-Apr-19 15:49**SP 9 @ 4'**  
**H901261-43 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>288</b>		16.0	mg/kg	4	9040811	AC	09-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397Reported:  
12-Apr-19 15:49**SP 9 @ 5'**  
**H901261-44 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397Reported:  
12-Apr-19 15:49**SP 9 @ 6'**  
**H901261-45 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 10 @ SURFACE

#### H901261-46 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	3640		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129 9040804 MS 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040510	MS	05-Apr-19	8015B	
DRO >C10-C28*	319		10.0	mg/kg	1	9040510	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	106		10.0	mg/kg	1	9040510	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane 77.6 % 41-142 9040510 MS 05-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 89.6 % 37.6-147 9040510 MS 05-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 10 @ 1' H901261-47 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	656		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	73.3-129		9040804	MS	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040510	MS	05-Apr-19	8015B	
DRO >C10-C28*	57.5		10.0	mg/kg	1	9040510	MS	05-Apr-19	8015B	
EXT DRO >C28-C36	27.3		10.0	mg/kg	1	9040510	MS	05-Apr-19	8015B	

Surrogate: 1-Chlorooctane			80.0 %	41-142		9040510	MS	05-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			82.4 %	37.6-147		9040510	MS	05-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 10 @ 2' H901261-48 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	144		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040804	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040804	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.8 %		73.3-129	9040804	MS	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane			84.3 %		41-142	9040510	MS	06-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			83.1 %		37.6-147	9040510	MS	06-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 10 @ 3' H901261-49 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040805	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129 9040805 MS 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane 80.8 % 41-142 9040510 MS 06-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 82.0 % 37.6-147 9040510 MS 06-Apr-19 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 11 @ SURFACE

#### H901261-50 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	1260		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

**S-04**

Benzene*	<0.050		0.050	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Ethylbenzene*	0.089		0.050	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Total Xylenes*	0.267		0.150	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Total BTEX	0.356		0.300	mg/kg	50	9040805	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			144 %	73.3-129		9040805	MS	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

**S-04**

GRO C6-C10*	33.4		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
DRO >C10-C28*	6810		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	1680		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane			101 %	41-142		9040510	MS	06-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			335 %	37.6-147		9040510	MS	06-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 11 @ 1' H901261-51 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040805	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129 9040805 MS 08-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
DRO >C10-C28*	35.6		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	20.9		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane 80.8 % 41-142 9040510 MS 06-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 83.0 % 37.6-147 9040510 MS 06-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 11 @ 2' H901261-52 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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#### Cardinal Laboratories

#### Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040805	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		73.3-129	9040805	MS	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane			80.4 %		41-142	9040510	MS	06-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			82.9 %		37.6-147	9040510	MS	06-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 12 @ SURFACE

#### H901261-53 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	112		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040805	MS	08-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040805	MS	08-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %		73.3-129	9040805	MS	08-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
DRO >C10-C28*	15.8		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane			80.2 %		41-142	9040510	MS	06-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			81.6 %		37.6-147	9040510	MS	06-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 12 @ 1' H901261-54 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040805	MS	09-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129 9040805 MS 09-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
DRO >C10-C28*	10.6		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane 77.5 % 41-142 9040510 MS 06-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 78.2 % 37.6-147 9040510 MS 06-Apr-19 8015B

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 13 @ SURFACE

#### H901261-55 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	848		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040805	MS	09-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.3-129 9040805 MS 09-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
DRO >C10-C28*	2400		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	610		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane 85.2 % 41-142 9040510 MS 06-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 175 % 37.6-147 9040510 MS 06-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 13 @ 1' H901261-56 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	256		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040805	MS	09-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129 9040805 MS 09-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
DRO >C10-C28*	202		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	58.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane 81.1 % 41-142 9040510 MS 06-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 91.3 % 37.6-147 9040510 MS 06-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 13 @ 2' H901261-57 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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#### Cardinal Laboratories

#### Inorganic Compounds

Chloride	336		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040805	MS	09-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		73.3-129	9040805	MS	09-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
DRO >C10-C28*	188		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	42.5		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane			79.7 %		41-142	9040510	MS	06-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			86.4 %		37.6-147	9040510	MS	06-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 13 @ 3' H901261-58 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041103	ms	11-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041103	ms	11-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041103	ms	11-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041103	ms	11-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041103	ms	11-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 73.3-129 9041103 ms 11-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041105	MS	11-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9041105	MS	11-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041105	MS	11-Apr-19	8015B	

Surrogate: 1-Chlorooctane 88.1 % 41-142 9041105 MS 11-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 84.3 % 37.6-147 9041105 MS 11-Apr-19 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SP 13 @ 4' H901261-59 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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#### Cardinal Laboratories

#### Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041103	ms	11-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041103	ms	11-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041103	ms	11-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041103	ms	11-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041103	ms	11-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 73.3-129 9041103 ms 11-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041105	MS	11-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9041105	MS	11-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041105	MS	11-Apr-19	8015B	

Surrogate: 1-Chlorooctane 86.3 % 41-142 9041105 MS 11-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 81.6 % 37.6-147 9041105 MS 11-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### NORTH @ SURFACE

#### H901261-60 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040805	MS	09-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129 9040805 MS 09-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane 81.1 % 41-142 9040510 MS 06-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 81.8 % 37.6-147 9040510 MS 06-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### EAST @ SURFACE

#### H901261-61 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040805	MS	09-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %		73.3-129	9040805	MS	09-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane			75.9 %		41-142	9040510	MS	06-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			74.1 %		37.6-147	9040510	MS	06-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### WEST @ SURFACE

#### H901261-62 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040805	MS	09-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.2 %		73.3-129	9040805	MS	09-Apr-19	8021B	
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane			79.6 %		41-142	9040510	MS	06-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			78.7 %		37.6-147	9040510	MS	06-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### SOUTH@ SURFACE

#### H901261-63 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Cardinal Laboratories

#### Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	9040913	AC	09-Apr-19	4500-Cl-B	
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#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9040805	MS	09-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9040805	MS	09-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129 9040805 MS 09-Apr-19 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9040510	MS	06-Apr-19	8015B	

Surrogate: 1-Chlorooctane 80.4 % 41-142 9040510 MS 06-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 78.3 % 37.6-147 9040510 MS 06-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### Inorganic Compounds - Quality Control

#### Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 9040506 - General Prep - Wet Chem

##### Blank (9040506-BLK1)

Prepared &amp; Analyzed: 05-Apr-19

Chloride ND 16.0 mg/kg

##### LCS (9040506-BS1)

Prepared &amp; Analyzed: 05-Apr-19

Chloride 416 16.0 mg/kg 400 104 80-120

##### LCS Dup (9040506-BSD1)

Prepared &amp; Analyzed: 05-Apr-19

Chloride 416 16.0 mg/kg 400 104 80-120 0.00 20

#### Batch 9040810 - General Prep - Wet Chem

##### Blank (9040810-BLK1)

Prepared &amp; Analyzed: 08-Apr-19

Chloride ND 16.0 mg/kg

##### LCS (9040810-BS1)

Prepared &amp; Analyzed: 08-Apr-19

Chloride 432 16.0 mg/kg 400 108 80-120

##### LCS Dup (9040810-BSD1)

Prepared &amp; Analyzed: 08-Apr-19

Chloride 432 16.0 mg/kg 400 108 80-120 0.00 20

#### Batch 9040811 - General Prep - Wet Chem

##### Blank (9040811-BLK1)

Prepared: 08-Apr-19 Analyzed: 09-Apr-19

Chloride ND 16.0 mg/kg

##### LCS (9040811-BS1)

Prepared: 08-Apr-19 Analyzed: 09-Apr-19

Chloride 400 16.0 mg/kg 400 100 80-120

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### Inorganic Compounds - Quality Control

#### Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 9040811 - General Prep - Wet Chem

##### LCS Dup (9040811-BSD1)

Prepared: 08-Apr-19 Analyzed: 09-Apr-19

Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	
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#### Batch 9040913 - General Prep - Wet Chem

##### Blank (9040913-BLK1)

Prepared &amp; Analyzed: 09-Apr-19

Chloride	ND	16.0	mg/kg							
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##### LCS (9040913-BS1)

Prepared &amp; Analyzed: 09-Apr-19

Chloride	400	16.0	mg/kg	400		100	80-120			
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##### LCS Dup (9040913-BSD1)

Prepared &amp; Analyzed: 09-Apr-19

Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

#### Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 9040803 - Volatiles

##### Blank (9040803-BLK1)

Prepared &amp; Analyzed: 08-Apr-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0939		mg/kg	0.100		93.9	73.3-129			

##### LCS (9040803-BS1)

Prepared &amp; Analyzed: 08-Apr-19

Benzene	2.07	0.050	mg/kg	2.00		104	72.2-131			
Toluene	1.93	0.050	mg/kg	2.00		96.6	71.7-126			
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.6	68.9-126			
Total Xylenes	6.21	0.150	mg/kg	6.00		103	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0901		mg/kg	0.100		90.1	73.3-129			

##### LCS Dup (9040803-BSD1)

Prepared &amp; Analyzed: 08-Apr-19

Benzene	2.07	0.050	mg/kg	2.00		104	72.2-131	0.00245	6.91	
Toluene	1.91	0.050	mg/kg	2.00		95.4	71.7-126	1.32	7.12	
Ethylbenzene	2.01	0.050	mg/kg	2.00		101	68.9-126	1.00	7.88	
Total Xylenes	6.31	0.150	mg/kg	6.00		105	71.4-125	1.59	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.0923		mg/kg	0.100		92.3	73.3-129			

#### Batch 9040804 - Volatiles

##### Blank (9040804-BLK1)

Prepared &amp; Analyzed: 08-Apr-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0997		mg/kg	0.100		99.7	73.3-129			

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Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

#### Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 9040804 - Volatiles

##### LCS (9040804-BS1)

Prepared &amp; Analyzed: 08-Apr-19

Benzene	1.96	0.050	mg/kg	2.00		98.0	72.2-131			
Toluene	2.02	0.050	mg/kg	2.00		101	71.7-126			
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	68.9-126			
Total Xylenes	6.03	0.150	mg/kg	6.00		101	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.105		mg/kg	0.100		105	73.3-129			

##### LCS Dup (9040804-BS1)

Prepared &amp; Analyzed: 08-Apr-19

Benzene	2.08	0.050	mg/kg	2.00		104	72.2-131	5.90	6.91	
Toluene	2.09	0.050	mg/kg	2.00		104	71.7-126	3.33	7.12	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	68.9-126	1.24	7.88	
Total Xylenes	6.17	0.150	mg/kg	6.00		103	71.4-125	2.22	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.104		mg/kg	0.100		104	73.3-129			

#### Batch 9040805 - Volatiles

##### Blank (9040805-BLK1)

Prepared &amp; Analyzed: 08-Apr-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0960		mg/kg	0.100		96.0	73.3-129			

##### LCS (9040805-BS1)

Prepared &amp; Analyzed: 08-Apr-19

Benzene	1.70	0.050	mg/kg	2.00		85.1	72.2-131			
Toluene	1.75	0.050	mg/kg	2.00		87.3	71.7-126			
Ethylbenzene	1.72	0.050	mg/kg	2.00		86.0	68.9-126			
Total Xylenes	5.07	0.150	mg/kg	6.00		84.5	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.103		mg/kg	0.100		103	73.3-129			

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

#### Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 9040805 - Volatiles

##### LCS Dup (9040805-BSD1)

Prepared &amp; Analyzed: 08-Apr-19

Benzene	1.74	0.050	mg/kg	2.00		87.1	72.2-131	2.43	6.91	
Toluene	1.78	0.050	mg/kg	2.00		88.8	71.7-126	1.78	7.12	
Ethylbenzene	1.76	0.050	mg/kg	2.00		88.2	68.9-126	2.59	7.88	
Total Xylenes	5.18	0.150	mg/kg	6.00		86.3	71.4-125	2.17	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.101		mg/kg	0.100		101	73.3-129			

#### Batch 9041103 - Volatiles

##### Blank (9041103-BLK1)

Prepared &amp; Analyzed: 11-Apr-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0904		mg/kg	0.100		90.4	73.3-129			

##### LCS (9041103-BS1)

Prepared &amp; Analyzed: 11-Apr-19

Benzene	2.09	0.050	mg/kg	2.00		105	72.2-131			
Toluene	1.95	0.050	mg/kg	2.00		97.7	71.7-126			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	68.9-126			
Total Xylenes	6.22	0.150	mg/kg	6.00		104	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0891		mg/kg	0.100		89.1	73.3-129			

##### LCS Dup (9041103-BSD1)

Prepared &amp; Analyzed: 11-Apr-19

Benzene	2.07	0.050	mg/kg	2.00		104	72.2-131	1.12	6.91	
Toluene	1.92	0.050	mg/kg	2.00		96.0	71.7-126	1.82	7.12	
Ethylbenzene	2.03	0.050	mg/kg	2.00		102	68.9-126	0.286	7.88	
Total Xylenes	6.20	0.150	mg/kg	6.00		103	71.4-125	0.448	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.0906		mg/kg	0.100		90.6	73.3-129			

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Celey D. Keene, Lab Director/Quality Manager

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BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### Petroleum Hydrocarbons by GC FID - Quality Control

#### Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 9040508 - General Prep - Organics

##### Blank (9040508-BLK1)

Prepared &amp; Analyzed: 05-Apr-19

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	38.6		mg/kg	50.0		77.2	41-142			
Surrogate: 1-Chlorooctadecane	37.6		mg/kg	50.0		75.2	37.6-147			

##### LCS (9040508-BS1)

Prepared &amp; Analyzed: 05-Apr-19

GRO C6-C10	213	10.0	mg/kg	200		107	76.5-133			
DRO >C10-C28	196	10.0	mg/kg	200		98.0	72.9-138			
Total TPH C6-C28	410	10.0	mg/kg	400		102	78-132			
Surrogate: 1-Chlorooctane	47.0		mg/kg	50.0		94.0	41-142			
Surrogate: 1-Chlorooctadecane	45.3		mg/kg	50.0		90.6	37.6-147			

##### LCS Dup (9040508-BS1)

Prepared &amp; Analyzed: 05-Apr-19

GRO C6-C10	215	10.0	mg/kg	200		108	76.5-133	0.887	20.6	
DRO >C10-C28	218	10.0	mg/kg	200		109	72.9-138	10.4	20.6	
Total TPH C6-C28	433	10.0	mg/kg	400		108	78-132	5.58	18	
Surrogate: 1-Chlorooctane	46.1		mg/kg	50.0		92.1	41-142			
Surrogate: 1-Chlorooctadecane	43.6		mg/kg	50.0		87.3	37.6-147			

#### Batch 9040509 - General Prep - Organics

##### Blank (9040509-BLK1)

Prepared &amp; Analyzed: 05-Apr-19

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.7		mg/kg	50.0		101	41-142			
Surrogate: 1-Chlorooctadecane	49.0		mg/kg	50.0		97.9	37.6-147			

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Celey D. Keene, Lab Director/Quality Manager

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BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CEDAR CANYON 28 CTB  
Project Number: ( 10/17/18 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-Apr-19 15:49

### Petroleum Hydrocarbons by GC FID - Quality Control

#### Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 9040509 - General Prep - Organics

##### LCS (9040509-BS1)

Prepared &amp; Analyzed: 05-Apr-19

GRO C6-C10	208	10.0	mg/kg	200		104	76.5-133		
DRO >C10-C28	216	10.0	mg/kg	200		108	72.9-138		
Total TPH C6-C28	424	10.0	mg/kg	400		106	78-132		
Surrogate: 1-Chlorooctane	55.9		mg/kg	50.0		112	41-142		
Surrogate: 1-Chlorooctadecane	53.9		mg/kg	50.0		108	37.6-147		

##### LCS Dup (9040509-BS1)

Prepared &amp; Analyzed: 05-Apr-19

GRO C6-C10	204	10.0	mg/kg	200		102	76.5-133	2.07	20.6
DRO >C10-C28	206	10.0	mg/kg	200		103	72.9-138	4.92	20.6
Total TPH C6-C28	409	10.0	mg/kg	400		102	78-132	3.51	18
Surrogate: 1-Chlorooctane	54.8		mg/kg	50.0		110	41-142		
Surrogate: 1-Chlorooctadecane	52.8		mg/kg	50.0		106	37.6-147		

#### Batch 9040510 - General Prep - Organics

##### Blank (9040510-BLK1)

Prepared &amp; Analyzed: 05-Apr-19

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	43.0		mg/kg	50.0		86.0	41-142		
Surrogate: 1-Chlorooctadecane	43.0		mg/kg	50.0		86.0	37.6-147		

##### LCS (9040510-BS1)

Prepared &amp; Analyzed: 05-Apr-19

GRO C6-C10	198	10.0	mg/kg	200		98.9	76.5-133		
DRO >C10-C28	213	10.0	mg/kg	200		107	72.9-138		
Total TPH C6-C28	411	10.0	mg/kg	400		103	78-132		
Surrogate: 1-Chlorooctane	47.3		mg/kg	50.0		94.6	41-142		
Surrogate: 1-Chlorooctadecane	45.4		mg/kg	50.0		90.8	37.6-147		

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Project Manager: Cliff Brunson  
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12-Apr-19 15:49

### Petroleum Hydrocarbons by GC FID - Quality Control

#### Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 9040510 - General Prep - Organics

##### LCS Dup (9040510-BSD1)

Prepared &amp; Analyzed: 05-Apr-19

GRO C6-C10	204	10.0	mg/kg	200		102	76.5-133	3.02	20.6	
DRO >C10-C28	201	10.0	mg/kg	200		100	72.9-138	6.05	20.6	
Total TPH C6-C28	405	10.0	mg/kg	400		101	78-132	1.58	18	
Surrogate: 1-Chlorooctane	48.6		mg/kg	50.0		97.2	41-142			
Surrogate: 1-Chlorooctadecane	44.7		mg/kg	50.0		89.4	37.6-147			

#### Batch 9041105 - General Prep - Organics

##### Blank (9041105-BLK1)

Prepared &amp; Analyzed: 11-Apr-19

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.9		mg/kg	50.0		95.7	41-142			
Surrogate: 1-Chlorooctadecane	47.2		mg/kg	50.0		94.4	37.6-147			

##### LCS (9041105-BS1)

Prepared &amp; Analyzed: 11-Apr-19

GRO C6-C10	210	10.0	mg/kg	200		105	76.5-133			
DRO >C10-C28	195	10.0	mg/kg	200		97.6	72.9-138			
Total TPH C6-C28	405	10.0	mg/kg	400		101	78-132			
Surrogate: 1-Chlorooctane	55.2		mg/kg	50.0		110	41-142			
Surrogate: 1-Chlorooctadecane	50.3		mg/kg	50.0		101	37.6-147			

##### LCS Dup (9041105-BSD1)

Prepared &amp; Analyzed: 11-Apr-19

GRO C6-C10	197	10.0	mg/kg	200		98.7	76.5-133	6.01	20.6	
DRO >C10-C28	167	10.0	mg/kg	200		83.6	72.9-138	15.5	20.6	
Total TPH C6-C28	365	10.0	mg/kg	400		91.1	78-132	10.5	18	
Surrogate: 1-Chlorooctane	52.9		mg/kg	50.0		106	41-142			
Surrogate: 1-Chlorooctadecane	48.3		mg/kg	50.0		96.7	37.6-147			

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

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);">CI</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BT6X</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH EXT</div> </div>																			
Address: P.O. Box 805				Company: <u>Oxy</u>																							
City: Hobbs State: NM Zip: 88241				Attn: <u>Wade Dittich</u>																							
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																							
Project #: Project Owner: Oxy				City:																							
Project Name: Cedar Canyon 28 CTB (10/17/18)				State: Zip:																							
Project Location: Eddy County, Nm				Phone #:																							
Sampler Name: Jeff Ornelas				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING																		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
<u>H901261</u>																											
1	SP1 @ SURFACE	G	1			✓					✓		4/1/19	11:11 AM	✓	✓	✓										
2	SP1 @ 1'												4/1/19	11:25 AM	✓	✓	✓										
3	SP1 @ 2'												4/1/19	11:50 AM	✓	✓	✓										
4	SP2 @ SURFACE												4/1/19	12:12 PM	✓	✓	✓										
5	SP2 @ 1'												4/1/19	12:51 PM	✓	✓	✓										
6	SP2 @ 2'												4/1/19	1:11 PM	✓	✓	✓										
7	SP3 @ SURFACE												4/1/19	1:15 PM	✓	✓	✓										
8	SP3 @ 1'												4/1/19	1:30 PM	✓	✓	✓										
9	SP3 @ 2'												4/1/19	2:15 PM	✓	✓	✓										
10	SP4 @ SURFACE												4/2/19	9:19 AM	✓	✓	✓										

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Relinquished By: <u>Jeff Ornelas</u>	Date: <u>4/4/19</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <u>5:00pm</u>			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <u>[Signature]</u>	Date: <u>4/5/19</u>	Received By: <u>Jamara Odeker</u>	REMARKS:	
Time: <u>1:00</u>			<u>1202351</u> <u>01040502</u>	
Delivered By: (Circle One)				
Sampler - UPS - Bus - Other:	<u>4.8c #97</u>	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>YO</u>	

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



**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

2

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CI</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH/EXT</div> </div>											
Address: P.O. Box 805				Company: <i>Oxy</i>															
City: Hobbs State: NM Zip: 88241				Attn: <i>W. Dittich</i>															
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:															
Project #: Project Owner: <i>Oxy</i>				City:															
Project Name: Cedar Canyon 28 CTB (10/17/18)				State: Zip:															
Project Location: Eddy County, Nm				Phone #:															
Sampler Name: Jeff Ornelas				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME					
<i>H901261</i>																			
<i>11</i>	SP4 @ 1'	<i>G</i>	<i>1</i>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		4/2/19	9:30 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<i>12</i>	SP4 @ 2'												4/2/19	9:49 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<i>13</i>	SP4 @ 3'												4/2/19	10:22 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<i>14</i>	SP5 @ SURFACE												4/2/19	10:44 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<i>15</i>	SP5 @ 1'												4/2/19	10:59 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<i>16</i>	SP5 @ 2'												4/2/19	11:15 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<i>17</i>	SP5 @ 3'												4/2/19	11:39 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<i>18</i>	SP6 @ SURFACE												4/2/19	12:01 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<i>19</i>	SP6 @ 1'												4/2/19	12:50 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<i>20</i>	SP6 @ 2'												4/2/19	1:19 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

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Relinquished By: <i>Jeff Ornelas</i>	Date: <i>4/14/19</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>5:00pm</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>[Signature]</i>	Date: <i>4/15/19</i>	Received By: <i>[Signature]</i>	REMARKS:	
	Time: <i>1:00</i>			
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other:	Cool Intact			
<i>4.8°C #97</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>TO</i>		

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## 3

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**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

4

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);">CI</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH5/L</div> </div>											
Address: P.O. Box 805				Company: Oxy															
City: Hobbs State: NM Zip: 88241				Attn: W. Brich															
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:															
Project #: Project Owner: Oxy				City:															
Project Name: Cedar Canyon 28 CTB (10/17/18)				State: Zip:															
Project Location: Eddy County, Nm				Phone #:															
Sampler Name: Jeff Ornelas				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX				PRESERV.	SAMPLING											
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME						
H901261																			
31	SP8 @ 3'	61			✓					✓		4/3/19	10:08 AM	✓	✓				
32	SP8 @ 4'											4/3/19	10:22 AM	✓	✓				
33	SP8 @ 5'											4/3/19	10:37 AM	✓	✓				
34	SP8 @ 6'											4/3/19	11:01 AM	✓					
35	SP8 @ 7'											4/3/19	11:19 AM	✓					
36	SP8 @ 8'											4/3/19	11:32 AM	✓					
37	SP8 @ 9'											4/3/19	11:47 AM	✓					
38	SP8 @ 10'											4/3/19	12:01 PM	✓					
39	SP9 @ SURFACE											4/3/19	12:05 PM	✓	✓				
40	SP9 @ 1'											4/3/19	12:08 PM	✓	✓				

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Relinquished By:	Date: 4/4/19 Time: 5:00pm	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: 4/15/19 Time: 1:00pm	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4.8c #97			REMARKS:	
Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials) JO.		

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: BBC International, Inc.																					
Project Manager: Cliff Brunson																					
Address: P.O. Box 805																					
City: Hobbs		State: NM		Zip: 88241																	
Phone #: 575-397-6388		Fax #: 575-397-0397																			
Project #:		Project Owner: Oxy																			
Project Name: Cedar Canyon 28 CTB (10/17/18)																					
Project Location: Eddy County, Nm																					
Sampler Name: Jeff Ornelas																					
FOR LAB USE ONLY																					
Lab I.D.  H901261		Sample I.D.		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	PRESERV. ACID/BASE: ICE / COOL OTHER :	SAMPLING DATE TIME	CY	BTEX	THATX												
41 SP9 @ 2'		G					X	✓	4/3/19	12:19 PM	✓	✓	✓								
42 SP9 @ 3'		G							4/3/19	12:50 PM	✓	✓	✓								
43 SP9 @ 4'		G							4/3/19	12:57 PM	✓										
44 SP9 @ 5'		G							4/3/19	1:15 PM	✓										
45 SP9 @ 6'		G							4/3/19	1:33 PM	✓										
46 SP10 @ SURFACE		G							4/3/19	1:40 PM	✓	✓	✓								
47 SP10 @ 1'		G							4/3/19	2:47 PM	✓	✓	✓								
48 SP10 @ 2'		G							4/3/19	3:01 PM	✓	✓	✓								
49 SP10 @ 3'		G							4/4/19	8:57 AM	✓	✓	✓								
50 SP11 @ SURFACE		G							4/4/19	9:09 AM	✓	✓	✓								
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Relinquished By: [Signature]		Date: 4/4/19	Received By: [Signature]		Phone Result: Yes No Add'l Phone #:																
Time: 5:00pm					Fax Result: Yes No Add'l Fax #:																
Relinquished By: [Signature]		Date: 4/5/19	Received By: Janara Aldatek		REMARKS:																
Time: 1:00																					
Delivered By: (Circle One) Cool Intact Sample Condition Cool Intact CHECKED BY: TO.																					
Sampler - UPS - Bus - Other: 4.8c #97																					

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

67

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>															
Project Manager: Cliff Brunson				P.O. #:																			
Address: P.O. Box 805				Company: Oxy																			
City: Hobbs State: NM Zip: 88241				Attn: W. Dittich																			
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																			
Project #: Project Owner: Oxy				City:																			
Project Name: Cedar Canyon 28 CTB (10/17/18)				State: Zip:																			
Project Location: Eddy County, Nm				Phone #:																			
Sampler Name: Jeff Ornelas				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING		CI BTEX TPH ECT											
						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE TIME													
H901261																							
51		SP11 @ 1'		G						4/4/19 9:21 AM													
52		SP11 @ 2'		G						4/4/19 9:42 AM													
53		SP12 @ SURFACE		G						4/4/19 10:01 AM													
54		SP12 @ 1'		G						4/4/19 10:11 AM													
55		SP13 @ SURFACE		G						4/4/19 10:31 AM													
56		SP13 @ 1'		G						4/4/19 10:52 AM													
57		SP13 @ 2'		G						4/4/19 11:11 AM													
58		SP13 @ 3'		G						4/4/19 11:37 AM													
59		SP13 @ 4'		G						4/4/19 12:12 PM													
60		NORTH @ SURFACE		G						4/4/19 1:11 PM													
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Relinquished By: Jeff Ornelas				Date: 4/4/19				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:											
Relinquished By: [Signature]				Date: 4/5/19				Received By: Tamara Alda [Signature]				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:											
Delivered By: (Circle One)				Sample Condition				CHECKED BY:				REMARKS:											
Sampler - UPS - Bus - Other: 4.8c H97				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No				(Initials) TO.															

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Relinquished By: <i>V. J. Ornelas</i>		Date: <i>4/14/9</i>	Received By: <i>P. B.</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <i>5:00</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>P. B.</i>		Date: <i>4/15/9</i>	Received By: <i>Jamara P. B.</i>	REMARKS:	
Time: <i>1:00</i>					
Delivered By: (Circle One)		Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:		Cool <input type="checkbox"/> Intact <input type="checkbox"/>	(Initials)		
<i>4.8°C #97</i>		Yes <input type="checkbox"/> No <input type="checkbox"/>	<i>TO</i>		

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