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DELINEATION/REMEDATION WORKPLAN

OXY – CEDAR CANYON 21-22 FED 34H (Leak Date: 7/27/20)

Incident Reference #: NRM2022459251

This delineation workplan and remediation proposal addresses the releases associated with Incident Reference #: NRM2022459251.

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).
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 and SP2 (light blue shade on diagram) will be excavated to a depth of 4 feet. The leak area near SP3, SP6, SP8, SP9, SP11, SP12 and SP14 (purple shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP4, SP10 and SP13 (green shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP5 and SP7 (dark blue shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP15 (white shade of diagram) will require zero remediation.

OXY will collect sidewall and confirmation samples every 400 square feet. The estimated amount of soil to be excavated is 1,324 cubic yards. The remediation will be completed within 90 days of 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.

ENVIRONMENTAL CONSULTING AND REMEDIATION SERVICES
HOBBS, NEW MEXICO • WEBSITE: www.bbcinternational.com • HOUSTON, TEXAS

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NRM2022459251
District RP	
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?	55 (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 not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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


Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NRM2022459251
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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: 8/18/20
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NRM2022459251
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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 CoordinatorSignature:  Date: 8-18-20email: 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 21-22 Fed 34H

Leak Date: 7-27-20
Eddy County, NM
Incident ID: NRM2022459251

Legend

1' Excavation

2' Excavation

3 ft Excavation

4' Excavation

Leak Area

Sample Points

Zero Remediation



Oxy, Cedar Canyon 21-22 Fed 34H (7-27-20)

Sample points

SP1, N 32.19812 W-103.97987

SP2, N 32.19828 W-103.97988

SP3, N 32.19845 W-103.97988

SP4, N 32.19820 W-103.97999

SP5, N 32.19836 W-103.98003

SP6, N 32.19820 W-103.98015

SP7, N 32.19831 W-103.98022

SP8, N 32.19832 W-103.98036

SP9, N 32.19846 W-103.98045

SP10, N 32.19817 W-103.98033

SP11, N 32.19817 W-103.98057

SP12, N 32.19811 W-103.98040

SP13, N 32.19809 W-103.98017

SP14, N 32.19800 W-103.97989

SP15, N 32.19799 W-103.98004

NORTH, N 32.19843 W-103.98005

EAST, N 32.19833 W-103.97985

WEST, N 32.19828 W-103.98041

SOUTH, N 32.19800 W-103.98011



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:Groundwater

Geographic Area:New Mexico

GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321157104000601

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

USGS 321157104000601 24S.29E.20.432A

Eddy County, New Mexico
Latitude 32°11'54", Longitude 104°00'09" NAD27
Land-surface elevation 2,955 feet above NGVD29
This well is completed in the Rustler Formation (312RSLR) 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 measurement
1975-07-14		D	55.9			1		Z	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	1	Water level accuracy to nearest tenth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	Z	Other.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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

Title: Groundwater for New Mexico: Water Levels

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

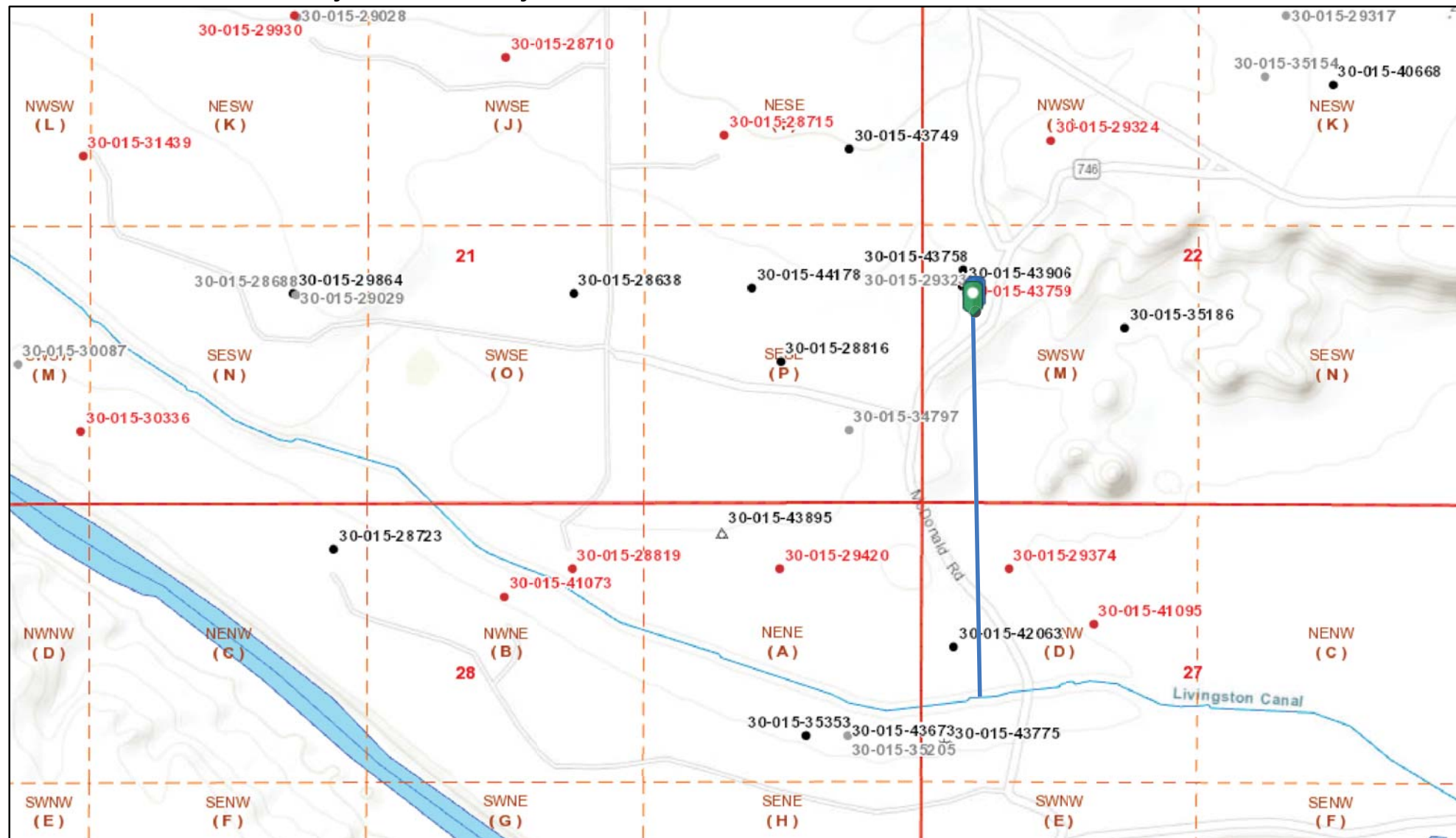


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2020-08-04 12:28:16 EDT

0.29 0.26 nadww01

Oxy Cedar Canyon 21-22 Fed 34H, 7-25-20, 1,800 ft to h2o



8/4/2020, 9:25:39 AM

Wells - Large Scale

? undefined

● Miscellaneous

✱ CO2, Active

✱ CO2, Cancelled

✱ CO2, New

✱ CO2, Plugged

✱ CO2, Temporarily Abandoned

✱ Gas, Active

✱ Gas, Cancelled

✱ Gas, New

✱ Gas, Plugged

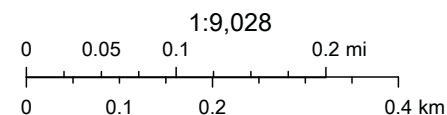
✱ Gas, Temporarily Abandoned

✱ Injection, Active

✱ Injection, Cancelled

✱ Injection, New

✱ Injection, Plugged



Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c)



New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division

Oxy, Cedar Canyon 21-22 Fed 34H

Leak Date: 7-25-2020
Eddy County, NM

BLM CAVE KARST MAP

- Legend**
-  Leak Area
 -  Medium Potential

McDonald Rd

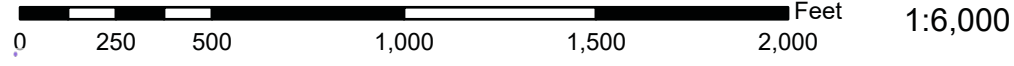
746



National Flood Hazard Layer FIRMMette



103°59'8"W 32°12'9"N



103°58'30"W 32°11'39"N

Legend

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

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

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/4/2020 at 12:31 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.

Released to Imaging: 6/15/2021 2:44:36 PM

Received by OCD: 2/8/2021 1:10:03 PM

Laboratory Analytical Results Summary
Oxy, Cedar Canyon 21-22 Fed 34H 7-25-20

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	8/3/20	8/3/20	8/3/20	8/3/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32.0	16.0	48.0	32.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP1 @ Surface	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'
Analyte	Method	Date	8/3/20	8/3/20	8/3/20	8/3/20	8/3/20	8/3/20
			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
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		0.129	<0.050	<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		1.64	<0.150	<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		1.81	<0.300	<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		2960	2280	2400	640	400	32.0
GRO	TPH 8015M		33.2	<10.0	<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		10500	651	949	356	n/a	n/a
EXT DRO	TPH 8015M		1770	151	197	80.5	n/a	n/a

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'
Analyte	Method	Date	8/3/20	8/3/20	8/3/20	8/3/20	8/3/20	8/3/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		1.93	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		2.78	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		35.7	0.379	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		40.4	0.420	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		7120	4320	4480	560	240	272
GRO	TPH 8015M		1400	22.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		27000	766	169	453	<10.0	<10.0
EXT DRO	TPH 8015M		5340	152	37.7	91.3	<10.0	<10.0

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	8/4/20	8/4/20	8/4/20	8/4/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.072	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		0.916	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		1.03	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		13600	224	320	112
GRO	TPH 8015M		22.7	<10.0	<10.0	n/a
DRO	TPH 8015M		6980	<10.0	<10.0	n/a
EXT DRO	TPH 8015M		1200	<10.0	<10.0	n/a

Laboratory Analytical Results Summary
Oxy, Cedar Canyon 21-22 Fed 34H 7-25-20

		Sample ID	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	8/4/20	8/4/20	8/4/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.076	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.142	<0.050	n/a
Total Xylenes	BTEX 8021B		1.71	<0.150	n/a
Total BTEX	BTEX 8021B		1.93	<0.300	n/a
Chloride	SM4500Cl-B		9600	688	80.0
GRO	TPH 8015M		<100	<10.0	n/a
DRO	TPH 8015M		32800	36.8	n/a
EXT DRO	TPH 8015M		7390	17.4	n/a

		Sample ID	SP5 @ Surface	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	8/4/20	8/4/20	8/4/20	8/5/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		0.281	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		0.313	<0.300	n/a	n/a
Chloride	SM4500Cl-B		11500	528	640	80.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		9320	<10.0	n/a	n/a
EXT DRO	TPH 8015M		2370	<10.0	n/a	n/a

		Sample ID	SP6 @ Surface	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	8/4/20	8/4/20	8/4/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		1.40	<0.150	n/a
Total BTEX	BTEX 8021B		1.45	<0.300	n/a
Chloride	SM4500Cl-B		12000	160	160
GRO	TPH 8015M		<100	<10.0	n/a
DRO	TPH 8015M		22800	21.5	n/a
EXT DRO	TPH 8015M		5260	<10.0	n/a

		Sample ID	SP7 @ Surface	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'
Analyte	Method	Date	8/4/20	8/4/20	8/4/20	8/5/20	8/6/20
			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		0.243	<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		3840	768	512	320	192
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		8890	483	405	58.9	<10.0
EXT DRO	TPH 8015M		2150	111	70.0	17.9	<10.0

Laboratory Analytical Results Summary
Oxy, Cedar Canyon 21-22 Fed 34H 7-25-20

		Sample ID	SP8 @ Surface	SP8 @ 1'	SP8 @ 2'
Analyte	Method	Date	8/4/20	8/4/20	8/4/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		2440	544	192
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		3580	68.9	n/a
EXT DRO	TPH 8015M		1000	25.0	n/a

		Sample ID	SP9 @ Surface	SP9 @ 1'	SP9 @ 2'
Analyte	Method	Date	8/4/20	8/4/20	8/4/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		1880	176	160
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		3300	82.3	n/a
EXT DRO	TPH 8015M		887	<10.0	n/a

		Sample ID	SP10 @ Surface	SP10 @ 1'	SP10 @ 2'
Analyte	Method	Date	8/4/20	8/4/20	8/4/20
			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		0.238	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		2600	1020	144
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		2620	97.1	<10.0
EXT DRO	TPH 8015M		710	18.8	<10.0

		Sample ID	SP11 @ Surface	SP11 @ 1'	SP11 @ 2'
Analyte	Method	Date	8/4/20	8/4/20	8/4/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		1760	528	80.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		4140	48.5	n/a
EXT DRO	TPH 8015M		976	<10.0	n/a

Laboratory Analytical Results Summary
Oxy, Cedar Canyon 21-22 Fed 34H 7-25-20

		Sample ID	SP12 @ Surface	SP12 @ 1'	SP12 @ 2'
Analyte	Method	Date	8/4/20	8/4/20	8/4/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		7330	32.0	96.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP13 @ Surface	SP13 @ 1'	SP13 @ 2'
Analyte	Method	Date	8/4/20	8/4/20	8/4/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		0.275	<0.150	n/a
Total BTEX	BTEX 8021B		0.314	<0.300	n/a
Chloride	SM4500Cl-B		8400	752	336
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		7120	64.3	n/a
EXT DRO	TPH 8015M		7120	<10.0	n/a

		Sample ID	SP14 @ Surface	SP14 @ 1'	SP14 @ 2'
Analyte	Method	Date	8/4/20	8/4/20	8/4/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.090	0.090	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		2.51	<0.150	n/a
Total BTEX	BTEX 8021B		2.60	<0.300	n/a
Chloride	SM4500Cl-B		8930	224	176
GRO	TPH 8015M		145	<10.0	n/a
DRO	TPH 8015M		11900	61.1	n/a
EXT DRO	TPH 8015M		2760	<10.0	n/a

		Sample ID	SP15 @ Surface	SP15 @ 1'	SP15 @ 2'
Analyte	Method	Date	8/4/20	8/4/20	8/4/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		48.0	32.0	16.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	10.0	n/a



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

August 19, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 21-22 FED #34H CTB

Enclosed are the results of analyses for samples received by the laboratory on 08/11/20 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	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,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N @ SURFACE	H002087-01	Soil	03-Aug-20 09:35	11-Aug-20 16:45
E @ SURFACE	H002087-02	Soil	03-Aug-20 09:47	11-Aug-20 16:45
W @ SURFACE	H002087-03	Soil	03-Aug-20 10:07	11-Aug-20 16:45
S @ SURFACE	H002087-04	Soil	03-Aug-20 10:16	11-Aug-20 16:45
SP 1 @ SURFACE	H002087-05	Soil	03-Aug-20 10:34	11-Aug-20 16:45
SP 1 @ 1'	H002087-06	Soil	03-Aug-20 10:47	11-Aug-20 16:45
SP 1 @ 2'	H002087-07	Soil	03-Aug-20 11:04	11-Aug-20 16:45
SP 1 @ 3'	H002087-08	Soil	03-Aug-20 11:19	11-Aug-20 16:45
SP 1 @ 4'	H002087-09	Soil	03-Aug-20 13:12	11-Aug-20 16:45
SP 1 @ 5'	H002087-10	Soil	03-Aug-20 13:23	11-Aug-20 16:45
SP 2 @ SURFACE	H002087-11	Soil	03-Aug-20 13:42	11-Aug-20 16:45
SP 2 @ 1'	H002087-12	Soil	03-Aug-20 14:04	11-Aug-20 16:45
SP 2 @ 2'	H002087-13	Soil	03-Aug-20 14:18	11-Aug-20 16:45
SP 2 @ 3'	H002087-14	Soil	03-Aug-20 14:34	11-Aug-20 16:45
SP 2 @ 4'	H002087-15	Soil	03-Aug-20 14:45	11-Aug-20 16:45
SP 2 @ 5'	H002087-16	Soil	03-Aug-20 14:58	11-Aug-20 16:45
SP 3 @ SURFACE	H002087-17	Soil	04-Aug-20 09:20	11-Aug-20 16:45
SP 3 @ 1'	H002087-18	Soil	04-Aug-20 09:34	11-Aug-20 16:45
SP 3 @ 2'	H002087-19	Soil	04-Aug-20 09:50	11-Aug-20 16:45
SP 3 @ 3'	H002087-20	Soil	04-Aug-20 10:08	11-Aug-20 16:45
SP 4 @ SURFACE	H002087-21	Soil	04-Aug-20 10:35	11-Aug-20 16:45
SP 4 @ 1'	H002087-22	Soil	04-Aug-20 10:54	11-Aug-20 16:45
SP 4 @ 2'	H002087-23	Soil	04-Aug-20 11:17	11-Aug-20 16:45
SP 5 @ SURFACE	H002087-24	Soil	04-Aug-20 11:45	11-Aug-20 16:45
SP 5 @ 1'	H002087-25	Soil	04-Aug-20 12:51	11-Aug-20 16:45
SP 5 @ 2'	H002087-26	Soil	04-Aug-20 13:19	11-Aug-20 16:45
SP 5 @ 3'	H002087-27	Soil	04-Aug-20 13:38	11-Aug-20 16:45

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 6 @ SURFACE	H002087-28	Soil	04-Aug-20 14:00	11-Aug-20 16:45
SP 6 @ 1'	H002087-29	Soil	04-Aug-20 14:21	11-Aug-20 16:45
SP 6 @ 2'	H002087-30	Soil	04-Aug-20 14:39	11-Aug-20 16:45
SP 7 @ SURFACE	H002087-31	Soil	05-Aug-20 09:25	11-Aug-20 16:45
SP 7 @ 1'	H002087-32	Soil	05-Aug-20 09:42	11-Aug-20 16:45
SP 7 @ 2'	H002087-33	Soil	05-Aug-20 09:57	11-Aug-20 16:45
SP 7 @ 3'	H002087-34	Soil	05-Aug-20 10:14	11-Aug-20 16:45
SP 7 @ 4'	H002087-35	Soil	05-Aug-20 10:38	11-Aug-20 16:45
SP 8 @ SURFACE	H002087-36	Soil	05-Aug-20 11:03	11-Aug-20 16:45
SP 8 @ 1'	H002087-37	Soil	05-Aug-20 11:18	11-Aug-20 16:45
SP 8 @ 2'	H002087-38	Soil	05-Aug-20 11:31	11-Aug-20 16:45
SP 9 @ SURFACE	H002087-39	Soil	05-Aug-20 11:47	11-Aug-20 16:45
SP 9 @ 1'	H002087-40	Soil	05-Aug-20 12:46	11-Aug-20 16:45
SP 9 @ 2'	H002087-41	Soil	05-Aug-20 13:06	11-Aug-20 16:45
SP 10 @ SURFACE	H002087-42	Soil	05-Aug-20 13:22	11-Aug-20 16:45
SP 10 @ 1'	H002087-43	Soil	05-Aug-20 13:38	11-Aug-20 16:45
SP 10 @ 2'	H002087-44	Soil	05-Aug-20 14:00	11-Aug-20 16:45
SP 11 @ SURFACE	H002087-45	Soil	05-Aug-20 14:14	11-Aug-20 16:45
SP 11 @ 1'	H002087-46	Soil	05-Aug-20 14:29	11-Aug-20 16:45
SP 11 @ 2'	H002087-47	Soil	05-Aug-20 14:42	11-Aug-20 16:45
SP 12 @ SURFACE	H002087-48	Soil	06-Aug-20 09:25	11-Aug-20 16:45
SP 12 @ 1'	H002087-49	Soil	06-Aug-20 09:42	11-Aug-20 16:45
SP 12 @ 2'	H002087-50	Soil	06-Aug-20 09:57	11-Aug-20 16:45
SP 13 @ SURFACE	H002087-51	Soil	06-Aug-20 10:22	11-Aug-20 16:45
SP 13 @ 1'	H002087-52	Soil	06-Aug-20 10:41	11-Aug-20 16:45
SP 13 @ 2'	H002087-53	Soil	06-Aug-20 10:55	11-Aug-20 16:45
SP 14 @ SURFACE	H002087-54	Soil	06-Aug-20 11:21	11-Aug-20 16:45
SP 14 @ 1'	H002087-55	Soil	06-Aug-20 11:42	11-Aug-20 16:45
SP 14 @ 2'	H002087-56	Soil	06-Aug-20 12:00	11-Aug-20 16:45
SP 15 @ SURFACE	H002087-57	Soil	06-Aug-20 12:14	11-Aug-20 16:45

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 15 @ 1'	H002087-58	Soil	06-Aug-20 12:26	11-Aug-20 16:45
SP 15 @ 2'	H002087-59	Soil	06-Aug-20 12:44	11-Aug-20 16:45

08/19/20 - Additional analysis added on 08/18/20. This is the revised report and will replace the one sent on 08/17/20.

08/19/20 - Project date changed as per the client. This is the 2nd revision of the report and it will replace the one sent earlier 08/19/20.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

N @ SURFACE**H002087-01 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	0081311	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081211	MS	12-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.7 %		73.3-129	0081211	MS	12-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane			84.7 %		44.3-144	0081209	MS	13-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane			96.6 %		42.2-156	0081209	MS	13-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

E @ SURFACE**H002087-02 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	0081311	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081211	MS	12-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129 0081211 MS 12-Aug-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane 88.1 % 44.3-144 0081209 MS 13-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 90.7 % 42.2-156 0081209 MS 13-Aug-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

W @ SURFACE**H002087-03 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	0081311	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Toluene*	<0.050	0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	0081211	MS	12-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	99.7 %	73.3-129	0081211	MS	12-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane	84.4 %	44.3-144	0081209	MS	13-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane	87.3 %	42.2-156	0081209	MS	13-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

S @ SURFACE**H002087-04 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	0081311	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081211	MS	12-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129 0081211 MS 12-Aug-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane 92.4 % 44.3-144 0081209 MS 13-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 94.7 % 42.2-156 0081209 MS 13-Aug-20 8015B

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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 1 @ SURFACE**H002087-05 (Soil)**

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

Chloride	2960		16.0	mg/kg	4	0081311	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Ethylbenzene*	0.129		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Total Xylenes*	1.64		0.150	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Total BTEX	1.76		0.300	mg/kg	50	0081211	MS	12-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129 0081211 MS 12-Aug-20 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	33.2		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
DRO >C10-C28*	10500		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	1770		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane 101 % 44.3-144 0081209 MS 13-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 489 % 42.2-156 0081209 MS 13-Aug-20 8015B

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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 1 @ 1'
H002087-06 (Soil)

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

Chloride	2280		16.0	mg/kg	4	0081311	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081211	MS	12-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129 0081211 MS 12-Aug-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
DRO >C10-C28*	651		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	151		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane 90.2 % 44.3-144 0081209 MS 13-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 110 % 42.2-156 0081209 MS 13-Aug-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 1 @ 2'
H002087-07 (Soil)

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

Chloride	2400		16.0	mg/kg	4	0081311	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Toluene*	<0.050	0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	0081211	MS	12-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	102 %	73.3-129	0081211	MS	12-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
DRO >C10-C28*	949	10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	197	10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane	87.8 %	44.3-144	0081209	MS	13-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane	122 %	42.2-156	0081209	MS	13-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 1 @ 3'
H002087-08 (Soil)

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

Chloride	640		16.0	mg/kg	4	0081311	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081211	MS	12-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129 0081211 MS 12-Aug-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
DRO >C10-C28*	356		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	80.5		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane 88.0 % 44.3-144 0081209 MS 13-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 106 % 42.2-156 0081209 MS 13-Aug-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 1 @ 4'
H002087-09 (Soil)

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	400		16.0	mg/kg	4	0081311	AC	13-Aug-20	4500-Cl-B	

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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 1 @ 5'
H002087-10 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	0081311	AC	13-Aug-20	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 2 @ SURFACE**H002087-11 (Soil)**

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

Chloride	7120		16.0	mg/kg	4	0081311	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.200		0.200	mg/kg	200	0081211	MS	12-Aug-20	8021B	
Toluene*	1.93		0.200	mg/kg	200	0081211	MS	12-Aug-20	8021B	
Ethylbenzene*	2.78		0.200	mg/kg	200	0081211	MS	12-Aug-20	8021B	
Total Xylenes*	35.7		0.600	mg/kg	200	0081211	MS	12-Aug-20	8021B	
Total BTEX	40.4		1.20	mg/kg	200	0081211	MS	12-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		194 %		73.3-129		0081211	MS	12-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	1400		200	mg/kg	20	0081209	MS	13-Aug-20	8015B	
DRO >C10-C28*	27000		200	mg/kg	20	0081209	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	5340		200	mg/kg	20	0081209	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane		539 %		44.3-144		0081209	MS	13-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane		1020 %		42.2-156		0081209	MS	13-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 2 @ 1'
H002087-12 (Soil)

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

Chloride	4320		16.0	mg/kg	4	0081311	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Total Xylenes*	0.338		0.150	mg/kg	50	0081211	MS	12-Aug-20	8021B	
Total BTEX	0.338		0.300	mg/kg	50	0081211	MS	12-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	73.3-129		0081211	MS	12-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	22.0		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
DRO >C10-C28*	766		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	152		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane			101 %	44.3-144		0081209	MS	13-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane			119 %	42.2-156		0081209	MS	13-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 2 @ 2'
H002087-13 (Soil)

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

Chloride	4480		16.0	mg/kg	4	0081311	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Toluene*	<0.050	0.050	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	0081215	MS	12-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	102 %	73.3-129	0081215	MS	12-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
DRO >C10-C28*	169	10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	37.7	10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane	92.9 %	44.3-144	0081209	MS	13-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane	103 %	42.2-156	0081209	MS	13-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 2 @ 3'
H002087-14 (Soil)

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

Chloride	560		16.0	mg/kg	4	0081311	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081215	MS	12-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %		73.3-129	0081215	MS	12-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
DRO >C10-C28*	453		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	91.3		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane			89.3 %		44.3-144	0081209	MS	13-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane			103 %		42.2-156	0081209	MS	13-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 2 @ 4'
H002087-15 (Soil)

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

Chloride	240		16.0	mg/kg	4	0081311	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**I-02**

Benzene*	<0.050	0.050	mg/kg	50	0081803	MS	18-Aug-20	8021B
Toluene*	<0.050	0.050	mg/kg	50	0081803	MS	18-Aug-20	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	0081803	MS	18-Aug-20	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	0081803	MS	18-Aug-20	8021B
Total BTEX	<0.300	0.300	mg/kg	50	0081803	MS	18-Aug-20	8021B

Surrogate: 4-Bromofluorobenzene (PID)	100 %	73.3-129	0081803	MS	18-Aug-20	8021B
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Petroleum Hydrocarbons by GC FID**I-03, S-04**

GRO C6-C10*	<10.0	10.0	mg/kg	1	0081808	MS	18-Aug-20	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	0081808	MS	18-Aug-20	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	0081808	MS	18-Aug-20	8015B

Surrogate: 1-Chlorooctane	93.1 %	44.3-144	0081808	MS	18-Aug-20	8015B
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Surrogate: 1-Chlorooctadecane	105 %	42.2-156	0081808	MS	18-Aug-20	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 2 @ 5'
H002087-16 (Soil)

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

Chloride	272		16.0	mg/kg	4	0081311	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**I-02**

Benzene*	<0.050	0.050	mg/kg	50	0081803	MS	18-Aug-20	8021B
Toluene*	<0.050	0.050	mg/kg	50	0081803	MS	18-Aug-20	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	0081803	MS	18-Aug-20	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	0081803	MS	18-Aug-20	8021B
Total BTEX	<0.300	0.300	mg/kg	50	0081803	MS	18-Aug-20	8021B

Surrogate: 4-Bromofluorobenzene (PID)	98.6 %	73.3-129	0081803	MS	18-Aug-20	8021B
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Petroleum Hydrocarbons by GC FID**I-03, S-04**

GRO C6-C10*	<10.0	10.0	mg/kg	1	0081808	MS	18-Aug-20	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	0081808	MS	18-Aug-20	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	0081808	MS	18-Aug-20	8015B

Surrogate: 1-Chlorooctane	89.8 %	44.3-144	0081808	MS	18-Aug-20	8015B
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Surrogate: 1-Chlorooctadecane	102 %	42.2-156	0081808	MS	18-Aug-20	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 3 @ SURFACE**H002087-17 (Soil)**

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

Chloride	13600		16.0	mg/kg	4	0081311	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Ethylbenzene*	0.072		0.050	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Total Xylenes*	0.916		0.150	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Total BTEX	0.988		0.300	mg/kg	50	0081215	MS	12-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129 0081215 MS 12-Aug-20 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	22.7		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
DRO >C10-C28*	6980		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	1200		10.0	mg/kg	1	0081209	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane 89.6 % 44.3-144 0081209 MS 13-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 340 % 42.2-156 0081209 MS 13-Aug-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 3 @ 1'
H002087-18 (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	0081311	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Toluene*	<0.050	0.050	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	0081215	MS	12-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	100 %	73.3-129	0081215	MS	12-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	0081210	MS	13-Aug-20	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	0081210	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	0081210	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane	88.0 %	44.3-144	0081210	MS	13-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane	93.1 %	42.2-156	0081210	MS	13-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 3 @ 2'
H002087-19 (Soil)

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

Chloride	320		16.0	mg/kg	4	0081311	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081215	MS	12-Aug-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			100 %	73.3-129		0081215	MS	12-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081210	MS	13-Aug-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0081210	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0081210	MS	13-Aug-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.8 %	44.3-144		0081210	MS	13-Aug-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			95.5 %	42.2-156		0081210	MS	13-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 3 @ 3'
H002087-20 (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	0081311	AC	13-Aug-20	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 4 @ SURFACE**H002087-21 (Soil)**

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

Chloride	9600		16.0	mg/kg	4	0081312	AC	13-Aug-20	4500-Cl-B	QM-07
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Toluene*	0.076		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Ethylbenzene*	0.142		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Total Xylenes*	1.71		0.150	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Total BTEX	1.93		0.300	mg/kg	50	0081215	MS	13-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.3-129 0081215 MS 13-Aug-20 8021B

Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	<100		100	mg/kg	10	0081210	MS	13-Aug-20	8015B	
DRO >C10-C28*	32800		100	mg/kg	10	0081210	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	7390		100	mg/kg	10	0081210	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane 98.8 % 44.3-144 0081210 MS 13-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 1410 % 42.2-156 0081210 MS 13-Aug-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 4 @ 1'
H002087-22 (Soil)

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

Chloride	688		16.0	mg/kg	4	0081312	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081215	MS	12-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081215	MS	12-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129 0081215 MS 12-Aug-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081210	MS	13-Aug-20	8015B	
DRO >C10-C28*	36.8		10.0	mg/kg	1	0081210	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	17.4		10.0	mg/kg	1	0081210	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane 85.7 % 44.3-144 0081210 MS 13-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 97.0 % 42.2-156 0081210 MS 13-Aug-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 4 @ 2'**H002087-23 (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	0081312	AC	13-Aug-20	4500-Cl-B	
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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 5 @ SURFACE**H002087-24 (Soil)**

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	11500		16.0	mg/kg	4	0081312	AC	13-Aug-20	4500-Cl-B	

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Total Xylenes*	0.281		0.150	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081215	MS	13-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.3-129		0081215	MS	13-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081210	MS	13-Aug-20	8015B	
DRO >C10-C28*	9320		10.0	mg/kg	1	0081210	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	2370		10.0	mg/kg	1	0081210	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane			87.8 %	44.3-144		0081210	MS	13-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane			477 %	42.2-156		0081210	MS	13-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 5 @ 1'
H002087-25 (Soil)

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

Chloride	528		16.0	mg/kg	4	0081312	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081215	MS	13-Aug-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.6 %		73.3-129	0081215	MS	13-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081213	MS	12-Aug-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0081213	MS	12-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0081213	MS	12-Aug-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.5 %		44.3-144	0081213	MS	12-Aug-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.3 %		42.2-156	0081213	MS	12-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 5 @ 2'
H002087-26 (Soil)

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

Chloride	640		16.0	mg/kg	4	0081312	AC	13-Aug-20	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 5 @ 3'
H002087-27 (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	0081312	AC	13-Aug-20	4500-Cl-B	
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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 6 @ SURFACE**H002087-28 (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	0081312	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Total Xylenes*	1.40		0.150	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Total BTEX	1.40		0.300	mg/kg	50	0081215	MS	13-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 127 % 73.3-129 0081215 MS 13-Aug-20 8021B

Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	<100		100	mg/kg	10	0081213	MS	13-Aug-20	8015B	
DRO >C10-C28*	22800		100	mg/kg	10	0081213	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	5260		100	mg/kg	10	0081213	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane 101 % 44.3-144 0081213 MS 13-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 1050 % 42.2-156 0081213 MS 13-Aug-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 6 @ 1'
H002087-29 (Soil)

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

Chloride	160		16.0	mg/kg	4	0081312	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081215	MS	13-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129 0081215 MS 13-Aug-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081213	MS	12-Aug-20	8015B	
DRO >C10-C28*	21.5		10.0	mg/kg	1	0081213	MS	12-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0081213	MS	12-Aug-20	8015B	

Surrogate: 1-Chlorooctane 85.8 % 44.3-144 0081213 MS 12-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 87.9 % 42.2-156 0081213 MS 12-Aug-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 6 @ 2'
H002087-30 (Soil)

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

Chloride	160		16.0	mg/kg	4	0081312	AC	13-Aug-20	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 7 @ SURFACE**H002087-31 (Soil)**

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

Chloride	3840		16.0	mg/kg	4	0081312	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Total Xylenes*	0.243		0.150	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081215	MS	13-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129 0081215 MS 13-Aug-20 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081213	MS	12-Aug-20	8015B	
DRO >C10-C28*	8890		10.0	mg/kg	1	0081213	MS	12-Aug-20	8015B	
EXT DRO >C28-C36	2150		10.0	mg/kg	1	0081213	MS	12-Aug-20	8015B	

Surrogate: 1-Chlorooctane 89.5 % 44.3-144 0081213 MS 12-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 457 % 42.2-156 0081213 MS 12-Aug-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 7 @ 1'
H002087-32 (Soil)

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

Chloride	768		16.0	mg/kg	4	0081312	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Toluene*	<0.050	0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	0081215	MS	13-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	99.6 %	73.3-129	0081215	MS	13-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
DRO >C10-C28*	483	10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	111	10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane	79.9 %	44.3-144	0081213	MS	13-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane	102 %	42.2-156	0081213	MS	13-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 7 @ 2'
H002087-33 (Soil)

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

Chloride	512		16.0	mg/kg	4	0081312	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081215	MS	13-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129 0081215 MS 13-Aug-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
DRO >C10-C28*	405		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	70.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane 83.5 % 44.3-144 0081213 MS 13-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 104 % 42.2-156 0081213 MS 13-Aug-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 7 @ 3'
H002087-34 (Soil)

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

Chloride	320		16.0	mg/kg	4	0081312	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	0081803	MS	19-Aug-20	8021B	
Toluene*	<0.050	0.050	mg/kg	50	0081803	MS	19-Aug-20	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	0081803	MS	19-Aug-20	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	0081803	MS	19-Aug-20	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	0081803	MS	19-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	99.2 %	73.3-129	0081803	MS	19-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	0081808	MS	18-Aug-20	8015B	
DRO >C10-C28*	58.9	10.0	mg/kg	1	0081808	MS	18-Aug-20	8015B	
EXT DRO >C28-C36	17.9	10.0	mg/kg	1	0081808	MS	18-Aug-20	8015B	

Surrogate: 1-Chlorooctane	94.8 %	44.3-144	0081808	MS	18-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane	112 %	42.2-156	0081808	MS	18-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 7 @ 4'
H002087-35 (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	0081312	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081803	MS	19-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081803	MS	19-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081803	MS	19-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081803	MS	19-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081803	MS	19-Aug-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.5 %		73.3-129	0081803	MS	19-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081808	MS	18-Aug-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0081808	MS	18-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0081808	MS	18-Aug-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.3 %		44.3-144	0081808	MS	18-Aug-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			103 %		42.2-156	0081808	MS	18-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 8 @ SURFACE**H002087-36 (Soil)**

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

Chloride	2440		16.0	mg/kg	4	0081312	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081215	MS	13-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081215	MS	13-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129 0081215 MS 13-Aug-20 8021B

Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
DRO >C10-C28*	3580		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	1000		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane 79.7 % 44.3-144 0081213 MS 13-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 244 % 42.2-156 0081213 MS 13-Aug-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 8 @ 1'
H002087-37 (Soil)

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

Chloride	544		16.0	mg/kg	4	0081312	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081301	MS	13-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.8 %		73.3-129	0081301	MS	13-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
DRO >C10-C28*	68.9		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	25.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane			85.4 %		44.3-144	0081213	MS	13-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane			88.1 %		42.2-156	0081213	MS	13-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 8 @ 2'
H002087-38 (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	0081312	AC	13-Aug-20	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 9 @ SURFACE**H002087-39 (Soil)**

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

Chloride	1880		16.0	mg/kg	4	0081312	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Toluene*	<0.050	0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	0081301	MS	13-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	99.7 %	73.3-129	0081301	MS	13-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0	10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
DRO >C10-C28*	3300	10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	887	10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane	87.0 %	44.3-144	0081213	MS	13-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane	241 %	42.2-156	0081213	MS	13-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 9 @ 1'
H002087-40 (Soil)

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

Chloride	176		16.0	mg/kg	4	0081312	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081301	MS	13-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129 0081301 MS 13-Aug-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
DRO >C10-C28*	82.3		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane 87.0 % 44.3-144 0081213 MS 13-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 92.0 % 42.2-156 0081213 MS 13-Aug-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 9 @ 2'**H002087-41 (Soil)**

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

Chloride	160		16.0	mg/kg	4	0081307	AC	13-Aug-20	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 10 @ SURFACE**H002087-42 (Soil)**

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

Chloride	2600		16.0	mg/kg	4	0081307	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total Xylenes*	0.191		0.150	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081301	MS	13-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129 0081301 MS 13-Aug-20 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
DRO >C10-C28*	2620		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	710		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane 79.3 % 44.3-144 0081213 MS 13-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 202 % 42.2-156 0081213 MS 13-Aug-20 8015B

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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 10 @ 1'
H002087-43 (Soil)

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

Chloride	1020		16.0	mg/kg	4	0081307	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081301	MS	13-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129 0081301 MS 13-Aug-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
DRO >C10-C28*	97.1		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	18.8		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane 91.2 % 44.3-144 0081213 MS 13-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 95.2 % 42.2-156 0081213 MS 13-Aug-20 8015B

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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 10 @ 2'
H002087-44 (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	0081307	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081803	MS	19-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081803	MS	19-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081803	MS	19-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081803	MS	19-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081803	MS	19-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129 0081803 MS 19-Aug-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081808	MS	18-Aug-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0081808	MS	18-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0081808	MS	18-Aug-20	8015B	

Surrogate: 1-Chlorooctane 92.0 % 44.3-144 0081808 MS 18-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 103 % 42.2-156 0081808 MS 18-Aug-20 8015B

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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 11 @ SURFACE**H002087-45 (Soil)**

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

Chloride	1760		16.0	mg/kg	4	0081307	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081301	MS	13-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129 0081301 MS 13-Aug-20 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
DRO >C10-C28*	4140		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	976		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane 89.4 % 44.3-144 0081213 MS 13-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 263 % 42.2-156 0081213 MS 13-Aug-20 8015B

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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 11 @ 1'
H002087-46 (Soil)

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

Chloride	528		16.0	mg/kg	4	0081307	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081301	MS	13-Aug-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.8 %		73.3-129	0081301	MS	13-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
DRO >C10-C28*	48.5		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.1 %		44.3-144	0081213	MS	13-Aug-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			89.2 %		42.2-156	0081213	MS	13-Aug-20	8015B	
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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 11 @ 2'
H002087-47 (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	0081307	AC	13-Aug-20	4500-Cl-B	
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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 12 @ SURFACE**H002087-48 (Soil)**

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

Chloride	7330		16.0	mg/kg	4	0081307	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081301	MS	13-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129 0081301 MS 13-Aug-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane 83.3 % 44.3-144 0081213 MS 13-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 85.0 % 42.2-156 0081213 MS 13-Aug-20 8015B

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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 12 @ 1'
H002087-49 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	0081307	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081301	MS	13-Aug-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.3 %	73.3-129		0081301	MS	13-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.7 %	44.3-144		0081213	MS	13-Aug-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			91.2 %	42.2-156		0081213	MS	13-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 12 @ 2'
H002087-50 (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	0081307	AC	13-Aug-20	4500-Cl-B	
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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 13 @ SURFACE**H002087-51 (Soil)**

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

Chloride	8400		16.0	mg/kg	4	0081307	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total Xylenes*	0.275		0.150	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081301	MS	13-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129 0081301 MS 13-Aug-20 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
DRO >C10-C28*	7120		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	2120		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane 78.9 % 44.3-144 0081213 MS 13-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 418 % 42.2-156 0081213 MS 13-Aug-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 13 @ 1'
H002087-52 (Soil)

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

Chloride	752		16.0	mg/kg	4	0081307	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081301	MS	13-Aug-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.6 %		73.3-129	0081301	MS	13-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
DRO >C10-C28*	64.3		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.0 %		44.3-144	0081213	MS	13-Aug-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			94.6 %		42.2-156	0081213	MS	13-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 13 @ 2'
H002087-53 (Soil)

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	336		16.0	mg/kg	4	0081307	AC	13-Aug-20	4500-Cl-B	

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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 14 @ SURFACE**H002087-54 (Soil)**

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

Chloride	8930		16.0	mg/kg	4	0081307	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	0081301	MS	14-Aug-20	8021B	
Toluene*	0.090		0.050	mg/kg	50	0081301	MS	14-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081301	MS	14-Aug-20	8021B	
Total Xylenes*	2.51		0.150	mg/kg	50	0081301	MS	14-Aug-20	8021B	
Total BTEX	2.60		0.300	mg/kg	50	0081301	MS	14-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		159 %	73.3-129			0081301	MS	14-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	145		100	mg/kg	10	0081213	MS	13-Aug-20	8015B	
DRO >C10-C28*	11900		100	mg/kg	10	0081213	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	2760		100	mg/kg	10	0081213	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane		100 %	44.3-144			0081213	MS	13-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane		533 %	42.2-156			0081213	MS	13-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 14 @ 1'
H002087-55 (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	0081307	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Toluene*	<0.050	0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	0081301	MS	13-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	100 %	73.3-129	0081301	MS	13-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
DRO >C10-C28*	61.1	10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	0081213	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane	85.6 %	44.3-144	0081213	MS	13-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane	89.5 %	42.2-156	0081213	MS	13-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 14 @ 2'
H002087-56 (Soil)

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	176		16.0	mg/kg	4	0081307	AC	13-Aug-20	4500-Cl-B	

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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 15 @ SURFACE**H002087-57 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	0081307	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0081301	MS	13-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.4 %		73.3-129	0081301	MS	13-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0081214	MS	13-Aug-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0081214	MS	13-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0081214	MS	13-Aug-20	8015B	

Surrogate: 1-Chlorooctane			89.1 %		44.3-144	0081214	MS	13-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane			92.0 %		42.2-156	0081214	MS	13-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 15 @ 1'
H002087-58 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	0081307	AC	13-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Toluene*	<0.050	0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	0081301	MS	13-Aug-20	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	0081301	MS	13-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	99.4 %	73.3-129	0081301	MS	13-Aug-20	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	0081214	MS	13-Aug-20	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	0081214	MS	13-Aug-20	8015B
EXT DRO >C28-C36	10.0	10.0	mg/kg	1	0081214	MS	13-Aug-20	8015B

Surrogate: 1-Chlorooctane	90.9 %	44.3-144	0081214	MS	13-Aug-20	8015B
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Surrogate: 1-Chlorooctadecane	92.8 %	42.2-156	0081214	MS	13-Aug-20	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

SP 15 @ 2'
H002087-59 (Soil)

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	16.0		16.0	mg/kg	4	0081307	AC	13-Aug-20	4500-Cl-B	

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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

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 0081307 - 1:4 DI Water**Blank (0081307-BLK1)**

Prepared & Analyzed: 13-Aug-20

Chloride	ND	16.0	mg/kg							
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LCS (0081307-BS1)

Prepared & Analyzed: 13-Aug-20

Chloride	432	16.0	mg/kg	400		108	80-120			
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LCS Dup (0081307-BSD1)

Prepared & Analyzed: 13-Aug-20

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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Batch 0081311 - 1:4 DI Water**Blank (0081311-BLK1)**

Prepared & Analyzed: 13-Aug-20

Chloride	ND	16.0	mg/kg							
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LCS (0081311-BS1)

Prepared & Analyzed: 13-Aug-20

Chloride	416	16.0	mg/kg	400		104	80-120			
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LCS Dup (0081311-BSD1)

Prepared & Analyzed: 13-Aug-20

Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
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Batch 0081312 - 1:4 DI Water**Blank (0081312-BLK1)**

Prepared & Analyzed: 13-Aug-20

Chloride	ND	16.0	mg/kg							
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LCS (0081312-BS1)

Prepared & Analyzed: 13-Aug-20

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



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

Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

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 0081312 - 1:4 DI Water**LCS Dup (0081312-BSD1)**

Prepared & Analyzed: 13-Aug-20

Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
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Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0081211 - Volatiles**Blank (0081211-BLK1)**

Prepared & Analyzed: 12-Aug-20

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)	0.0500		mg/kg	0.0500		99.9	73.3-129		

LCS (0081211-BS1)

Prepared & Analyzed: 12-Aug-20

Benzene	2.05	0.050	mg/kg	2.00		103	72.2-131		
Toluene	2.07	0.050	mg/kg	2.00		104	71.7-126		
Ethylbenzene	2.07	0.050	mg/kg	2.00		104	68.9-126		
Total Xylenes	6.02	0.150	mg/kg	6.00		100	71.4-125		
Surrogate: 4-Bromofluorobenzene (PID)	0.0509		mg/kg	0.0500		102	73.3-129		

LCS Dup (0081211-BSD1)

Prepared & Analyzed: 12-Aug-20

Benzene	2.04	0.050	mg/kg	2.00		102	72.2-131	0.571	14.6
Toluene	2.06	0.050	mg/kg	2.00		103	71.7-126	0.739	17.4
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	68.9-126	0.682	18.9
Total Xylenes	5.98	0.150	mg/kg	6.00		99.6	71.4-125	0.679	18.5
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	73.3-129		

Batch 0081215 - Volatiles**Blank (0081215-BLK1)**

Prepared & Analyzed: 12-Aug-20

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)	ND		mg/kg	0.0500		99.9	73.3-129		

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Analytical Results For:

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Hobbs NM, 88241

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

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 0081215 - Volatiles**LCS (0081215-BS1)**

Prepared & Analyzed: 12-Aug-20

Benzene	1.99	0.050	mg/kg	2.00		99.5	72.2-131			
Toluene	2.00	0.050	mg/kg	2.00		99.9	71.7-126			
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.3	68.9-126			
Total Xylenes	5.78	0.150	mg/kg	6.00		96.3	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0510		mg/kg	0.0500		102	73.3-129			

LCS Dup (0081215-BS1)

Prepared & Analyzed: 12-Aug-20

Benzene	2.04	0.050	mg/kg	2.00		102	72.2-131	2.29	14.6	
Toluene	2.05	0.050	mg/kg	2.00		102	71.7-126	2.28	17.4	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	68.9-126	2.47	18.9	
Total Xylenes	5.93	0.150	mg/kg	6.00		98.8	71.4-125	2.61	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0505		mg/kg	0.0500		101	73.3-129			

Batch 0081301 - Volatiles**Blank (0081301-BLK1)**

Prepared & Analyzed: 13-Aug-20

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)	ND		mg/kg	0.0500		99.3	73.3-129			

LCS (0081301-BS1)

Prepared & Analyzed: 13-Aug-20

Benzene	2.00	0.050	mg/kg	2.00		100	72.2-131			
Toluene	1.99	0.050	mg/kg	2.00		99.6	71.7-126			
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.6	68.9-126			
Total Xylenes	5.73	0.150	mg/kg	6.00		95.6	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0511		mg/kg	0.0500		102	73.3-129			

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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

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 0081301 - Volatiles**LCS Dup (0081301-BSD1)**

Prepared & Analyzed: 13-Aug-20

Benzene	2.00	0.050	mg/kg	2.00		100	72.2-131	0.0995	14.6	
Toluene	2.00	0.050	mg/kg	2.00		99.8	71.7-126	0.163	17.4	
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.5	68.9-126	0.0727	18.9	
Total Xylenes	5.73	0.150	mg/kg	6.00		95.5	71.4-125	0.0650	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0506		mg/kg	0.0500		101	73.3-129			

Batch 0081803 - Volatiles**Blank (0081803-BLK1)**

Prepared & Analyzed: 18-Aug-20

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)	ND		mg/kg	0.0500		99.2	73.3-129			

LCS (0081803-BS1)

Prepared & Analyzed: 18-Aug-20

Benzene	2.05	0.050	mg/kg	2.00		103	72.2-131			
Toluene	2.07	0.050	mg/kg	2.00		103	71.7-126			
Ethylbenzene	2.05	0.050	mg/kg	2.00		102	68.9-126			
Total Xylenes	5.95	0.150	mg/kg	6.00		99.1	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0504		mg/kg	0.0500		101	73.3-129			

LCS Dup (0081803-BSD1)

Prepared & Analyzed: 18-Aug-20

Benzene	2.09	0.050	mg/kg	2.00		104	72.2-131	1.66	14.6	
Toluene	2.10	0.050	mg/kg	2.00		105	71.7-126	1.75	17.4	
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	68.9-126	1.59	18.9	
Total Xylenes	6.05	0.150	mg/kg	6.00		101	71.4-125	1.64	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0510		mg/kg	0.0500		102	73.3-129			

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Analytical Results For:

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

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

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 0081209 - General Prep - Organics**Blank (0081209-BLK1)**

Prepared & Analyzed: 12-Aug-20

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	50.8		mg/kg	50.0		102	44.3-144			
Surrogate: 1-Chlorooctadecane	53.8		mg/kg	50.0		108	42.2-156			

LCS (0081209-BS1)

Prepared & Analyzed: 12-Aug-20

GRO C6-C10	193	10.0	mg/kg	200		96.3	78.8-127			
DRO >C10-C28	201	10.0	mg/kg	200		100	80-132			
Total TPH C6-C28	393	10.0	mg/kg	400		98.4	81.3-128			
Surrogate: 1-Chlorooctane	54.0		mg/kg	50.0		108	44.3-144			
Surrogate: 1-Chlorooctadecane	58.4		mg/kg	50.0		117	42.2-156			

LCS Dup (0081209-BS1)

Prepared & Analyzed: 12-Aug-20

GRO C6-C10	215	10.0	mg/kg	200		108	78.8-127	11.1	15.1	
DRO >C10-C28	217	10.0	mg/kg	200		108	80-132	7.70	17.1	
Total TPH C6-C28	432	10.0	mg/kg	400		108	81.3-128	9.36	15	
Surrogate: 1-Chlorooctane	54.2		mg/kg	50.0		108	44.3-144			
Surrogate: 1-Chlorooctadecane	58.3		mg/kg	50.0		117	42.2-156			

Batch 0081210 - General Prep - Organics**Blank (0081210-BLK1)**

Prepared & Analyzed: 12-Aug-20

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	44.3-144			
Surrogate: 1-Chlorooctadecane	55.1		mg/kg	50.0		110	42.2-156			

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P.O. Box 805
Hobbs NM, 88241

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

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 0081210 - General Prep - Organics**LCS (0081210-BS1)**

Prepared & Analyzed: 12-Aug-20

GRO C6-C10	186	10.0	mg/kg	200		92.8	78.8-127		
DRO >C10-C28	180	10.0	mg/kg	200		89.8	80-132		
Total TPH C6-C28	365	10.0	mg/kg	400		91.3	81.3-128		
Surrogate: 1-Chlorooctane	52.9		mg/kg	50.0		106	44.3-144		
Surrogate: 1-Chlorooctadecane	58.0		mg/kg	50.0		116	42.2-156		

LCS Dup (0081210-BS1)

Prepared & Analyzed: 12-Aug-20

GRO C6-C10	207	10.0	mg/kg	200		103	78.8-127	10.8	15.1
DRO >C10-C28	205	10.0	mg/kg	200		103	80-132	13.4	17.1
Total TPH C6-C28	412	10.0	mg/kg	400		103	81.3-128	12.1	15
Surrogate: 1-Chlorooctane	53.0		mg/kg	50.0		106	44.3-144		
Surrogate: 1-Chlorooctadecane	58.6		mg/kg	50.0		117	42.2-156		

Batch 0081213 - General Prep - Organics**Blank (0081213-BLK1)**

Prepared & Analyzed: 12-Aug-20

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	52.0		mg/kg	50.0		104	44.3-144		
Surrogate: 1-Chlorooctadecane	54.0		mg/kg	50.0		108	42.2-156		

LCS (0081213-BS1)

Prepared & Analyzed: 12-Aug-20

GRO C6-C10	176	10.0	mg/kg	200		87.8	78.8-127		
DRO >C10-C28	166	10.0	mg/kg	200		83.1	80-132		
Total TPH C6-C28	342	10.0	mg/kg	400		85.5	81.3-128		
Surrogate: 1-Chlorooctane	49.0		mg/kg	50.0		97.9	44.3-144		
Surrogate: 1-Chlorooctadecane	51.5		mg/kg	50.0		103	42.2-156		

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Analytical Results For:

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P.O. Box 805
Hobbs NM, 88241

Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

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 0081213 - General Prep - Organics**LCS Dup (0081213-BSD1)**

Prepared & Analyzed: 12-Aug-20

GRO C6-C10	213	10.0	mg/kg	200		107	78.8-127	19.2	15.1	QR-04
DRO >C10-C28	200	10.0	mg/kg	200		100	80-132	18.6	17.1	QR-04
Total TPH C6-C28	413	10.0	mg/kg	400		103	81.3-128	18.9	15	QR-04
Surrogate: 1-Chlorooctane	53.1		mg/kg	50.0		106	44.3-144			
Surrogate: 1-Chlorooctadecane	54.3		mg/kg	50.0		109	42.2-156			

Batch 0081214 - General Prep - Organics**Blank (0081214-BLK1)**

Prepared: 12-Aug-20 Analyzed: 13-Aug-20

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	38.5		mg/kg	50.0		77.1	44.3-144			
Surrogate: 1-Chlorooctadecane	39.4		mg/kg	50.0		78.8	42.2-156			

LCS (0081214-BS1)

Prepared: 12-Aug-20 Analyzed: 13-Aug-20

GRO C6-C10	194	10.0	mg/kg	200		97.1	78.8-127			
DRO >C10-C28	195	10.0	mg/kg	200		97.3	80-132			
Total TPH C6-C28	389	10.0	mg/kg	400		97.2	81.3-128			
Surrogate: 1-Chlorooctane	54.6		mg/kg	50.0		109	44.3-144			
Surrogate: 1-Chlorooctadecane	58.2		mg/kg	50.0		116	42.2-156			

LCS Dup (0081214-BSD1)

Prepared: 12-Aug-20 Analyzed: 13-Aug-20

GRO C6-C10	210	10.0	mg/kg	200		105	78.8-127	8.04	15.1	
DRO >C10-C28	204	10.0	mg/kg	200		102	80-132	4.68	17.1	
Total TPH C6-C28	414	10.0	mg/kg	400		104	81.3-128	6.37	15	
Surrogate: 1-Chlorooctane	52.9		mg/kg	50.0		106	44.3-144			
Surrogate: 1-Chlorooctadecane	56.4		mg/kg	50.0		113	42.2-156			

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Analytical Results For:

BBC International, Inc.
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Project: CEDAR CANYON 21-22 FED #34H
Project Number: (07-27-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
19-Aug-20 16:40

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 0081808 - General Prep - Organics**Blank (0081808-BLK1)**

Prepared & Analyzed: 18-Aug-20

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	43.3		mg/kg	50.0		86.6	44.3-144			
Surrogate: 1-Chlorooctadecane	49.2		mg/kg	50.0		98.5	42.2-156			

LCS (0081808-BS1)

Prepared & Analyzed: 18-Aug-20

GRO C6-C10	183	10.0	mg/kg	200		91.5	78.8-127			
DRO >C10-C28	179	10.0	mg/kg	200		89.7	80-132			
Total TPH C6-C28	362	10.0	mg/kg	400		90.6	81.3-128			
Surrogate: 1-Chlorooctane	46.4		mg/kg	50.0		92.9	44.3-144			
Surrogate: 1-Chlorooctadecane	50.4		mg/kg	50.0		101	42.2-156			

LCS Dup (0081808-BS1)

Prepared & Analyzed: 18-Aug-20

GRO C6-C10	177	10.0	mg/kg	200		88.6	78.8-127	3.26	15.1	
DRO >C10-C28	181	10.0	mg/kg	200		90.6	80-132	1.07	17.1	
Total TPH C6-C28	358	10.0	mg/kg	400		89.6	81.3-128	1.09	15	
Surrogate: 1-Chlorooctane	45.7		mg/kg	50.0		91.4	44.3-144			
Surrogate: 1-Chlorooctadecane	51.8		mg/kg	50.0		104	42.2-156			

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
I-03	This result was extracted outside of the EPA recommended holding time of 14 days.
I-02	This result was analyzed outside of the EPA recommended holding time.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1046

Page 74 of 79

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																		
Project Manager: Cliff Brunson				P.O. #:																						
Address: P.O. Box 805				Company: OXY																						
City: Hobbs State: NM Zip: 88241				Attn: WADE																						
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																						
Project #: Project Owner: Oxy 7-27-20				City:																						
Project Name: CEDAR CANYON 21-22 FED 34H CTB (7-25-20)				State: Zip:																						
Project Location: EDDY COUNTY, NM				Phone #:																						
Sampler Name: Simon Rendon				Fax #:																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	CL	BTEX	TPH	EXT								
H002087																										
1	N @ Surface												8-3-20	9:35 AM	✓	✓	✓									
2	E @ Surface												8-3-20	9:47 AM	✓	✓	✓									
3	W @ Surface												8-3-20	10:07 AM	✓	✓	✓									
4	S @ Surface												8-3-20	10:16 AM	✓	✓	✓									
5	SP1 @ Surface												8-3-20	10:34 AM	✓	✓	✓									
6	SP1 @ 1'												8-3-20	10:47 AM	✓	✓	✓									
7	SP1 @ 2'												8-3-20	11:04 AM	✓	✓	✓									
8	SP1 @ 3'												8-3-20	11:19 AM	✓	✓	✓									
9	SP1 @ 4'												8-3-20	1:12 PM	✓											
10	SP1 @ 5'												8-3-20	1:23 PM	✓											

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Relinquished By: <i>Simon Rendon</i>	Date: 8-11-20	Received By: <i>Israel Pena</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 8:00 AM			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>Israel Pena</i>	Date: 8-11-20	Received By: <i>Israel Pena</i>	REMARKS:	
Time: 4:45				
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other: #113 -3.9%	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	<i>TO</i>		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4 of 6

Page 77 of 79

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 7-27-20 Project Name: CEDAR CANYON 21-22 FED 34H CTB (7-25-20) Project Location: EDDY COUNTY, NM Sampler Name: Simon Rendon				BILL TO P.O. #: Company: OXY Attn: WADE Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST																			
FOR LAB USE ONLY				MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				PRESERV. ACID/BASE: ICE / COOL OTHER:				SAMPLING DATE TIME				CL BTEX TPH EXT											
Lab I.D. H002087		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE TIME		CL BTEX TPH EXT															
31		SP7 @ Surface		G						8-5-20 9:25 AM		✓															
32		SP7 @ 1'								8-5-20 9:42 AM		✓															
33		SP7 @ 2'								8-5-20 9:57 AM		✓															
34		SP7 @ 3'								8-5-20 10:14 AM		✓															
35		SP7 @ 4'								8-5-20 10:38 AM		✓															
36		SP8 @ Surface								8-5-20 11:03 AM		✓															
37		SP8 @ 1'								8-5-20 11:18 AM		✓															
38		SP8 @ 2'								8-5-20 11:31 AM		✓															
39		SP9 @ Surface								8-5-20 11:47 AM		✓															
40		SP9 @ 1'								8-5-20 12:46 PM		✓															

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Relinquished By: Simon Rendon Date: 8-11-20 Time: 8:00 AM		Received By: Isaac Pena Date: 8-11-20 Time: 4:45 PM		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:	
Relinquished By: Isaac Pena Date: 8-11-20 Time: 4:45 PM		Received By: Tamara Aldridge Date: 8-11-20 Time: 4:45 PM		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: (Initials) TD	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: #113 -3.90					

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 78 of 79

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST															
Project Manager: Cliff Brunson				P.O. #:																			
Address: P.O. Box 805				Company: OXY																			
City: Hobbs		State: NM		Zip: 88241		Attn: WADE																	
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:		City:																	
Project #:		Project Owner: Oxy		State:		Zip:																	
Project Name: CEDAR CANYON 21-22 FED 34H CTB (7-25-20)				Phone #:																			
Project Location: EDDY COUNTY, NM				Fax #:																			
Sampler Name: Simon Rendon																							
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING													
						GROUNDWATER																	
						WASTEWATER																	
						SOIL																	
						OIL																	
						SLUDGE																	
						OTHER:																	
						ACID/BASE:																	
						ICE / COOL																	
						OTHER:																	
										DATE		TIME											
H002087		SP9 @ 2'		G						8-5-20		1:06 PM		CL									
41		SP10 @ Surface		G						8-5-20		1:22 PM		BTEX									
42		SP10 @ 1'		G						8-5-20		1:38 PM		TPH EXT									
43		SP10 @ 2'		G						8-5-20		2:00 PM		added 8/18/20									
44		SP11 @ Surface		G						8-5-20		2:14 PM											
45		SP11 @ 1'		G						8-5-20		2:29 PM											
46		SP11 @ 2'		G						8-5-20		2:42 PM											
47		SP12 @ Surface		G						8-6-20		9:25 AM											
48		SP12 @ 1'		G						8-6-20		9:42 AM											
49		SP12 @ 2'		G						8-6-20		9:57 AM											
50																							

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Relinquished By:	Date: 8-11-20	Received By:	Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
Simon Rendon	Time: 8:00 AM	Isabel Pena	Fax Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 8-11-20	Received By:	REMARKS:			
Isabel Pena	Time: 4:45 PM	Isabel Pena				
Delivered By: (Circle One)	Sample Condition	CHECKED BY:				
Sampler - UPS - Bus - Other:	Cool Intact	(Initials)				
#113 -396	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	T.O.				

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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 7-27-20

Project Name: CEDAR CANYON 21-22 FED 34H CTB (7-25-20)

Project Location: EDDY COUNTY, NM

Sampler Name: Simon Rendon

BILL TO

P.O. #:

Company: OXY

Attn: WADE

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

CONTAINERS

MATRIX

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

PRESERV.

SAMPLING

DATE

TIME

CL

BTX

TPH EXT

SP13 @ Surface

SP13 @ 1'

SP13 @ 2'

SP14 @ Surface

SP14 @ 1'

SP14 @ 2'

SP15 @ Surface

SP15 @ 1'

SP15 @ 2'

8-6-20 10:22 AM

8-6-20 10:41 AM

8-6-20 10:55 AM

8-6-20 11:21 AM

8-6-20 11:42 AM

8-6-20 12:00 PM

8-6-20 12:14 PM

8-6-20 12:26 PM

8-6-20 12:44 PM

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Relinquished By: <i>Simon Gordon</i>		Date: <i>8-11-20</i>	Received By: <i>Israel Pena</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <i>3:00 PM</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>Israel Pena</i>		Date: <i>8-11-20</i>	Received By: <i>Samira Aldate</i>	REMARKS:	
Time: <i>4:45</i>					
Delivered By: (Circle One)		Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other:		Cool Intact		(Initials)	
		<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		<i>Y.</i>	
		<i>#113 -3.9°C</i>			

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Form C-141

State of New Mexico
Oil Conservation Division

Page 5

Incident ID	NRM2022459251
District RP	
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: 8-18-20
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD OnlyReceived by: Robert Hamlet Date: 6/15/2021☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: Robert Hamlet Date: 6/15/2021

District I

1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 17393

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 17393
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Workplan/Remediation Proposal for Incident #NRM2022459251 CEDAR CANYON 21-22 FED 34H, thank you. This Workplan/Remediation proposal is approved.	6/15/2021