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## DELINEATION/REMEDIATION WORKPLAN

### OXY – Goodnight 27-1 CTB (Leak Date: 5/16/20)

#### Incident ID: NRM2015546715

This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NRM2015546715.

The following information includes:

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

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

**OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP1, SP6, and SP8-SP9 (WHITE shade on diagram) will zero remediation. The leak area near SP2 (GREEN shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP3 and SP& (PURPLE shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP4 and SP5 (BLUE shade on diagram) will be excavated to a depth of 2 feet.**

**Bottom confirmation samples will be collected every 75 feet. The estimated amount of soil to be excavated is 222 cubic yards. Remediation activities will commence within 90 days of all approvals.**

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

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

Form C-141

State of New Mexico  
Oil Conservation Division

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Incident ID	NRM2015546715
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?	100 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input 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 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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


Form C-141

State of New Mexico  
Oil Conservation Division

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Incident ID	NRM2015546715
District RP	
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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: 7-17-20  
 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	NRM2015546715
District RP	
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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: 7-17-20  
 email: wade\_dittrich@oxy.com Telephone: (575) 390-2828

**OCD Only**

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

Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

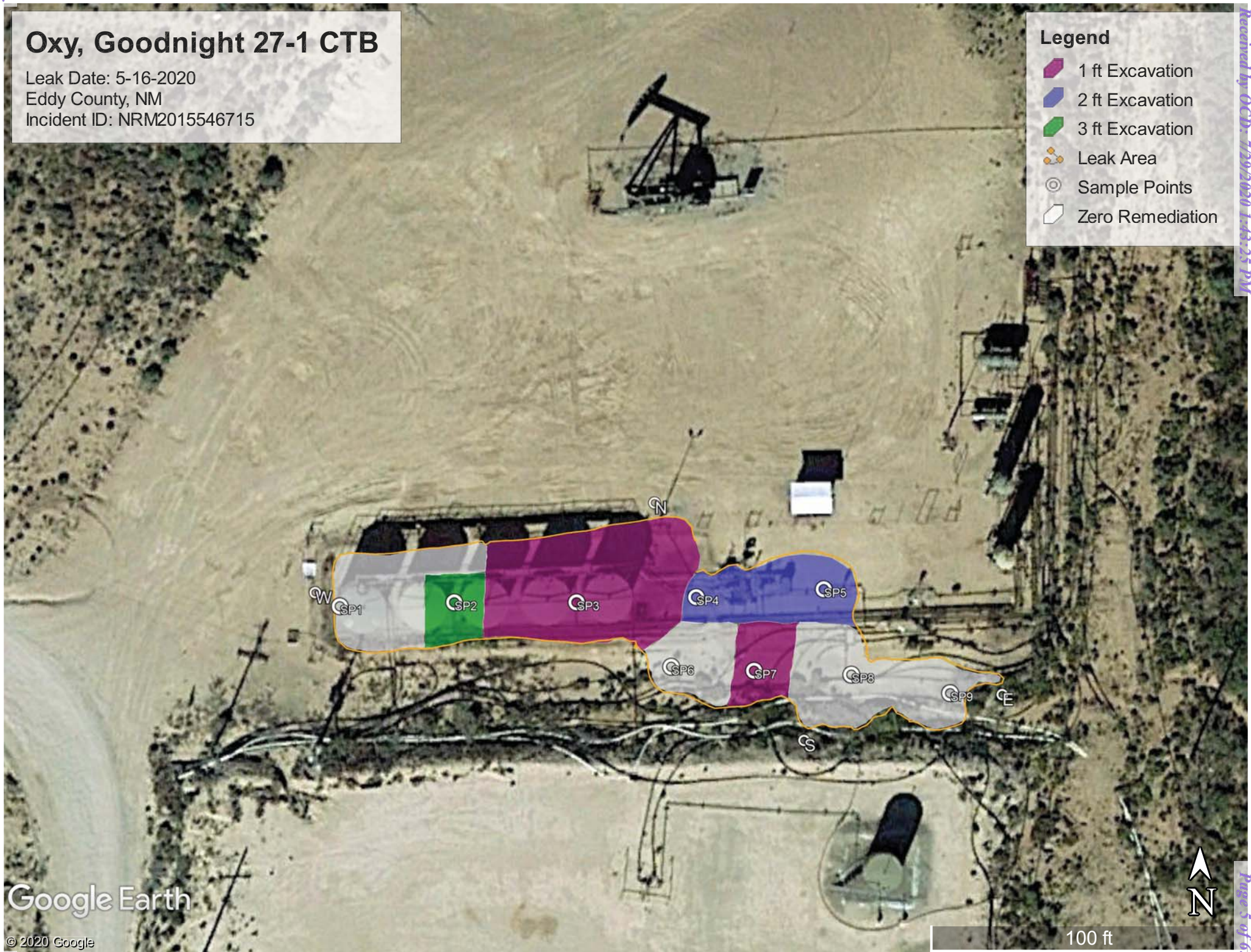
Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# Oxy, Goodnight 27-1 CTB

Leak Date: 5-16-2020  
Eddy County, NM  
Incident ID: NRM2015546715

## Legend

- 1 ft Excavation
- 2 ft Excavation
- 3 ft Excavation
- Leak Area
- Sample Points
- Zero Remediation



Oxy, Goodnight 27-1 CTB (5-16-20)

Sample points

SP1, N 32.27006 W-103.97506

SP2, N 32.27007 W-103.97494

SP3, N 32.27007 W-103.97482

SP4, N 32.27007 W-103.97469

SP5, N 32.27008 W-103.97456

SP6, N 32.27001 W-103.97472

SP7, N 32.27001 W-103.97464

SP8, N 32.27000 W-103.97454

SP9, N 32.26999 W-103.97443

NORTH, N 32.27015 W-103.97474

EAST, N 32.26999 W-103.97438

WEST, N 32.27007 W-103.97509

SOUTH, N 32.26995 W-103.97458



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National Water Information System: Web Interface

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Data Category:  Geographic Area:

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Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs  
 site\_no list = 

- 321615104014601

Minimum number of levels = 1

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

USGS 321615104014601 23S.29E.30.331322

Eddy County, New Mexico  
 Latitude 32°16'15", Longitude 104°01'46" NAD27  
 Land-surface elevation 2,962 feet above NAVD88  
 The depth of the well is 89 feet below land surface.  
 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1954-11-08		D	35.62			2		U		

Explanation

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

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

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



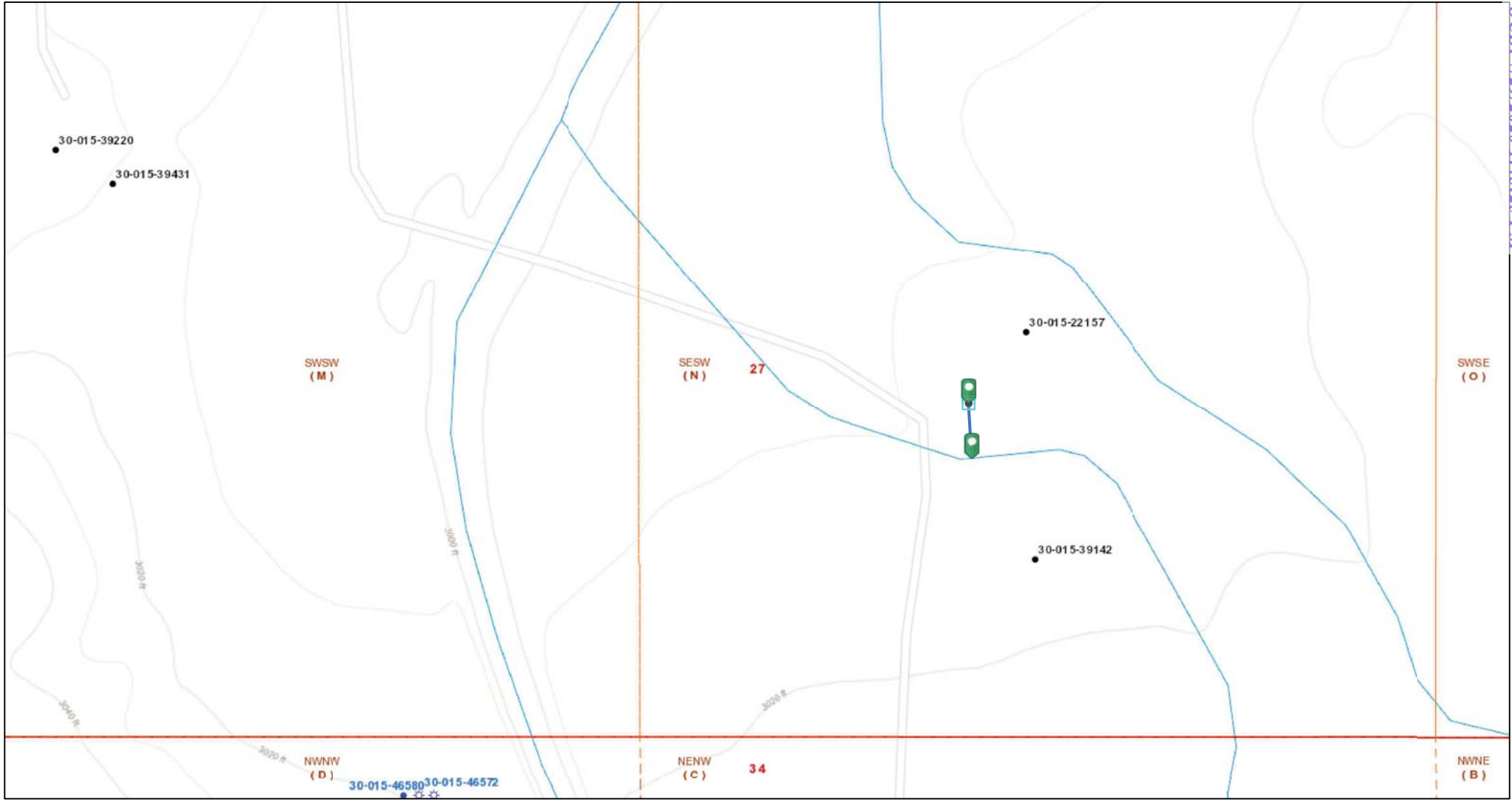
Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2020-05-26 18:08:05 EDT

0.28 0.27 nadww01

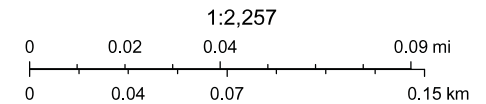


# Oxy Goodnight 27-1 CTB (5-16-20) 90ft to h2o



5/26/2020 4:15:20 PM

- |                     |                            |                                  |                                 |   |
|---------------------|----------------------------|----------------------------------|---------------------------------|---|
| Wells - Large Scale | CO2, Temporarily Abandoned | Injection, Active                | Oil, Cancelled                  | Salt Water Injection, New                   |
| undefined           | Gas, Active                | Injection, Cancelled             | Oil, New                        | Salt Water Injection, Plugged               |
| Miscellaneous       | Gas, Cancelled             | Injection, New                   | Oil, Plugged                    | Salt Water Injection, Temporarily Abandoned |
| CO2, Active         | Gas, New                   | Injection, Plugged               | Oil, Temporarily Abandoned      | Water, Active                               |
| CO2, Cancelled      | Gas, Plugged               | Injection, Temporarily Abandoned | Salt Water Injection, Active    | Water, Cancelled                            |
| CO2, New            | Gas, Temporarily Abandoned | Oil, Active                      | Salt Water Injection, Cancelled | Water, New                                  |
| CO2, 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,

# Oxy Goodnight 27-1 CTB

Leak Date: 5-16-20  
Eddy County, NM  
Incident ID: NRM2015546715

## BLM CAVE KARST MAP

- Legend**
-  Leak Area
  -  Medium Potential

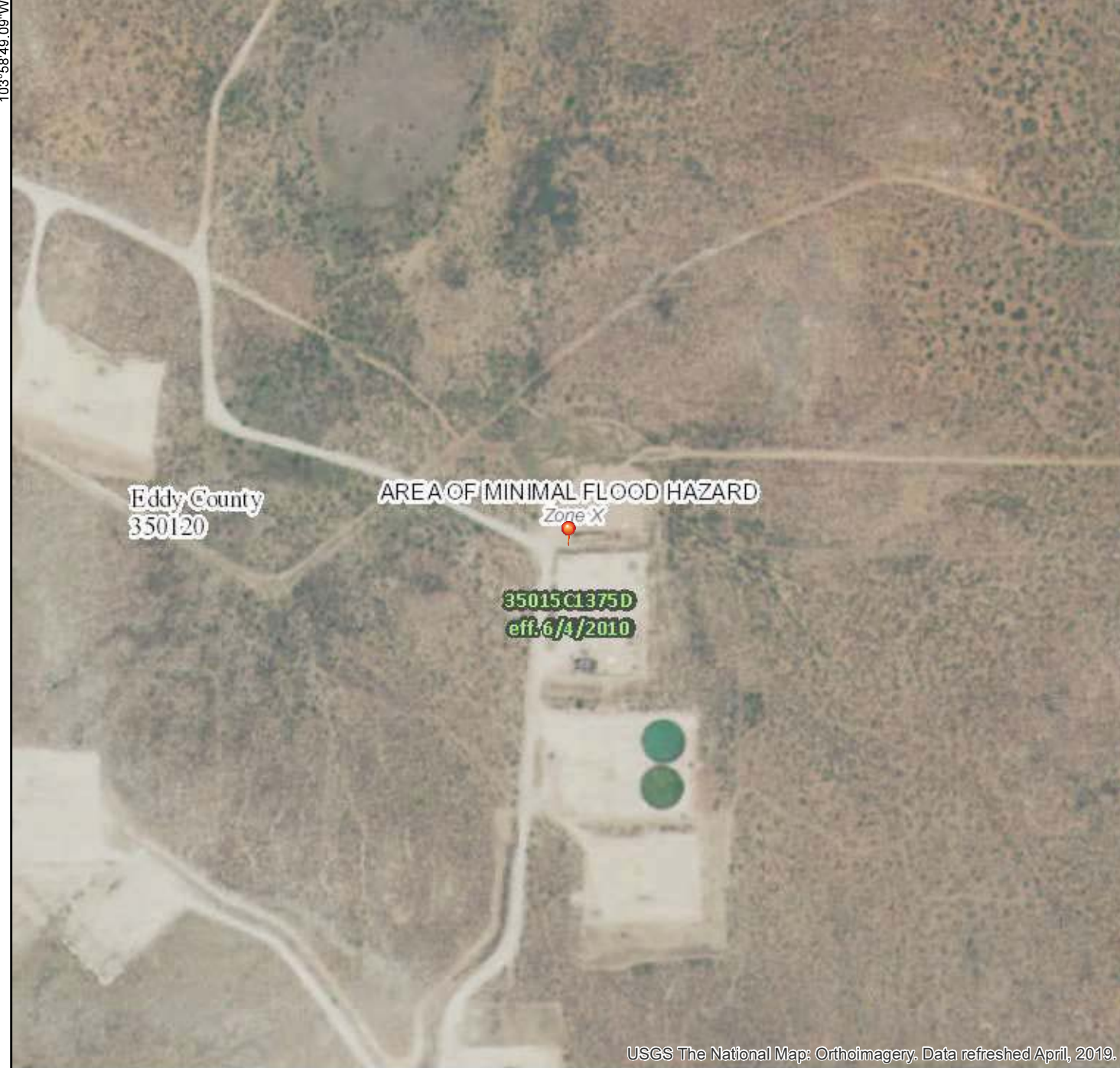
Received by: OCD: 7/29/2020 1:43:25 PM



# National Flood Hazard Layer FIRMette



32°16'27.57"N



103°58'49.09"W

## Legend

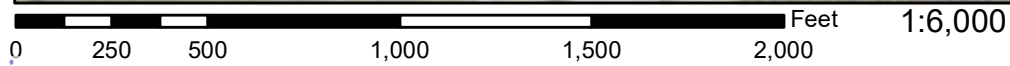
SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone 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
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

Received by OCD: 7/26/2020 1:43:25 PM

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USGS The National Map: Orthoimagery. Data refreshed April, 2019.



32°15'57.15"N

103°58'11.63"W

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 5/26/2020 at 6:01:05 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Laboratory Analytical Results Summary  
 Oxy, Goodnight 27-1 (5-16-20)

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
<b>Analyte</b>	<b>Method</b>	<b>Date</b>	7/1/20	7/1/20	7/1/20	7/1/20
			mg/kg	mg/kg	mg/kg	mg/kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>96.0</b>	<16.0	<b>112</b>	<b>80.0</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0
<b>EXT DRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP1 @ Surface	SP1 @ 1'
<b>Analyte</b>	<b>Method</b>	<b>Date</b>	7/1/20	7/1/20
			mg/kg	mg/kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>16.0</b>	<b>32.0</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0
<b>EXT DRO</b>	TPH 8015M		<10.0	<10.0

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
<b>Analyte</b>	<b>Method</b>	<b>Date</b>	7/1/20	7/1/20	7/1/20	7/1/20	7/1/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>11600</b>	<b>2720</b>	<b>896</b>	<b>304</b>	<b>16.0</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
<b>DRO</b>	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
<b>EXT DRO</b>	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'
<b>Analyte</b>	<b>Method</b>	<b>Date</b>	1/22/20	1/22/20	1/22/20
			mg/kg	mg/kg	mg/kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	n/a
<b>Chloride</b>	SM4500Cl-B		<b>1940</b>	<b>112</b>	<b>112</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	n/a
<b>DRO</b>	TPH 8015M		<10.0	<10.0	n/a
<b>EXT DRO</b>	TPH 8015M		<10.0	<10.0	n/a

Laboratory Analytical Results Summary  
Oxy, Goodnight 27-1 (5-16-20)

		Sample ID	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	7/1/20	7/1/20	7/1/20	7/1/20
			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		<b>12600</b>	<b>400</b>	<b>112</b>	<b>32.0</b>
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<b>905</b>	<b>96.2</b>	<10.0	<10.0
EXT DRO	TPH 8015M		<b>502</b>	<b>53.1</b>	<10.0	<10.0

		Sample ID	SP5 @ Surface	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	7/1/20	7/1/20	7/2/20	7/2/20
			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		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		<b>13300</b>	<b>1060</b>	<b>240</b>	<b>32.0</b>
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a

		Sample ID	SP6 @ Surface	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	7/2/20	7/2/20	7/2/20
			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		<b>16.0</b>	<b>16.0</b>	<b>48.0</b>
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	SP7 @ Surface	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'
Analyte	Method	Date	7/2/20	7/2/20	7/2/20	7/2/20
			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		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		<b>6320</b>	<b>560</b>	<b>512</b>	<b>16.0</b>
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a

Laboratory Analytical Results Summary  
Oxy, Goodnight 27-1 (5-16-20)

		Sample ID	SP8 @ Surface	SP8 @ 1'	SP8 @ 2'
Analyte	Method	Date	7/2/20	7/2/20	7/2/20
			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		112	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

		Sample ID	SP9 @ Surface	SP9 @ 1'	SP9 @ 2'
Analyte	Method	Date	7/2/20	7/2/20	7/2/20
			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		<16.0	<16.0	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

July 14, 2020

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

RE: GOODNIGHT 27 -1

Enclosed are the results of analyses for samples received by the laboratory on 07/08/20 14:30.

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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

Method EPA 552.2      Total Haloacetic Acids (HAA-5)  
Method EPA 524.2      Total Trihalomethanes (TTHM)  
Method EPA 524.4      Regulated VOCs (V1, V2, V3)

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

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

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

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

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N @ SURFACE	H001796-01	Soil	01-Jul-20 09:20	08-Jul-20 14:30
E @ SURFACE	H001796-02	Soil	01-Jul-20 09:32	08-Jul-20 14:30
W @ SURFACE	H001796-03	Soil	01-Jul-20 09:45	08-Jul-20 14:30
S @ SURFACE	H001796-04	Soil	01-Jul-20 10:03	08-Jul-20 14:30
SP 1 @ SURFACE	H001796-05	Soil	01-Jul-20 10:22	08-Jul-20 14:30
SP 1 @ 1'	H001796-06	Soil	01-Jul-20 10:34	08-Jul-20 14:30
SP 2 @ SURFACE	H001796-07	Soil	01-Jul-20 10:50	08-Jul-20 14:30
SP 2 @ 1'	H001796-08	Soil	01-Jul-20 11:04	08-Jul-20 14:30
SP 2 @ 2'	H001796-09	Soil	01-Jul-20 11:15	08-Jul-20 14:30
SP 2 @ 3'	H001796-10	Soil	01-Jul-20 11:33	08-Jul-20 14:30
SP 2 @ 4'	H001796-11	Soil	01-Jul-20 11:46	08-Jul-20 14:30
SP 3 @ SURFACE	H001796-12	Soil	01-Jul-20 12:44	08-Jul-20 14:30
SP 3 @ 1'	H001796-13	Soil	01-Jul-20 12:57	08-Jul-20 14:30
SP 3 @ 2'	H001796-14	Soil	01-Jul-20 13:06	08-Jul-20 14:30
SP 4 @ SURFACE	H001796-15	Soil	01-Jul-20 13:20	08-Jul-20 14:30
SP 4 @ 1'	H001796-16	Soil	01-Jul-20 13:39	08-Jul-20 14:30
SP 4 @ 2'	H001796-17	Soil	01-Jul-20 14:00	08-Jul-20 14:30
SP 4 @ 3'	H001796-18	Soil	01-Jul-20 14:24	08-Jul-20 14:30
SP 5 @ SURFACE	H001796-19	Soil	01-Jul-20 14:41	08-Jul-20 14:30
SP 5 @ 1'	H001796-20	Soil	01-Jul-20 14:55	08-Jul-20 14:30
SP 5 @ 2'	H001796-21	Soil	02-Jul-20 09:30	08-Jul-20 14:30
SP 5 @ 3'	H001796-22	Soil	02-Jul-20 09:43	08-Jul-20 14:30
SP 6 @ SURFACE	H001796-23	Soil	02-Jul-20 09:56	08-Jul-20 14:30
SP 6 @ 1'	H001796-24	Soil	02-Jul-20 10:21	08-Jul-20 14:30
SP 6 @ 2'	H001796-25	Soil	02-Jul-20 10:34	08-Jul-20 14:30
SP 7 @ SURFACE	H001796-26	Soil	02-Jul-20 10:50	08-Jul-20 14:30
SP 7 @ 1'	H001796-27	Soil	02-Jul-20 11:12	08-Jul-20 14:30

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

SP 7 @ 2'	H001796-28	Soil	02-Jul-20 11:24	08-Jul-20 14:30
SP 7 @ 3'	H001796-29	Soil	02-Jul-20 11:40	08-Jul-20 14:30
SP 8 @ SURFACE	H001796-30	Soil	02-Jul-20 11:52	08-Jul-20 14:30
SP 8 @ 1'	H001796-31	Soil	02-Jul-20 11:46	08-Jul-20 14:30
SP 8 @ 2'	H001796-32	Soil	02-Jul-20 12:44	08-Jul-20 14:30
SP 9 @ SURFACE	H001796-33	Soil	02-Jul-20 12:57	08-Jul-20 14:30
SP 9 @ 1'	H001796-34	Soil	02-Jul-20 13:06	08-Jul-20 14:30
SP 9 @ 2'	H001796-35	Soil	02-Jul-20 13:20	08-Jul-20 14:30

07/13/20 - Client added BTEX and TPH to samples -17 and -18.

07/14/20 - Revised report issued with additional analytes. This report will replace the one sent on 07/13/20.

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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: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**N @ SURFACE**  
**H001796-01 (Soil)**

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

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	0070908	GM	09-Jul-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			95.0 %		73.3-129	0070902	MS	09-Jul-20	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
Surrogate: 1-Chlorooctane			87.9 %		44.3-144	0070901	MS	09-Jul-20	8015B	
Surrogate: 1-Chlorooctadecane			89.9 %		42.2-156	0070901	MS	09-Jul-20	8015B	

Cardinal Laboratories

\*=Accredited Analyte

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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: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**E @ SURFACE****H001796-02 (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	0070908	GM	09-Jul-20	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070902	MS	09-Jul-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.8 %	73.3-129		0070902	MS	09-Jul-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	

Surrogate: 1-Chlorooctane			100 %	44.3-144		0070901	MS	09-Jul-20	8015B	
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Surrogate: 1-Chlorooctadecane			102 %	42.2-156		0070901	MS	09-Jul-20	8015B	
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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**W @ SURFACE****H001796-03 (Soil)**

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

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	0070908	GM	09-Jul-20	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070902	MS	09-Jul-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.5 %		73.3-129	0070902	MS	09-Jul-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.1 %		44.3-144	0070901	MS	09-Jul-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.3 %		42.2-156	0070901	MS	09-Jul-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: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**S @ SURFACE****H001796-04 (Soil)**

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

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	0070908	GM	09-Jul-20	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070902	MS	09-Jul-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.2 %		73.3-129	0070902	MS	09-Jul-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.2 %		44.3-144	0070901	MS	09-Jul-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			89.6 %		42.2-156	0070901	MS	09-Jul-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: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**SP 1 @ SURFACE****H001796-05 (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	0070908	GM	09-Jul-20	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070902	MS	09-Jul-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.4 %	73.3-129		0070902	MS	09-Jul-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	

Surrogate: 1-Chlorooctane			100 %	44.3-144		0070901	MS	09-Jul-20	8015B	
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Surrogate: 1-Chlorooctadecane			101 %	42.2-156		0070901	MS	09-Jul-20	8015B	
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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**SP 1 @ 1'**  
**H001796-06 (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	0070910	GM	09-Jul-20	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070902	MS	09-Jul-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.4 %		73.3-129	0070902	MS	09-Jul-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	

Surrogate: 1-Chlorooctane			101 %		44.3-144	0070901	MS	09-Jul-20	8015B	
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Surrogate: 1-Chlorooctadecane			103 %		42.2-156	0070901	MS	09-Jul-20	8015B	
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Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**SP 2 @ SURFACE****H001796-07 (Soil)**

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

<b>Chloride</b>	<b>11600</b>		16.0	mg/kg	4	0070910	GM	09-Jul-20	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070902	MS	09-Jul-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.0 %		73.3-129	0070902	MS	09-Jul-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.2 %		44.3-144	0070901	MS	09-Jul-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.1 %		42.2-156	0070901	MS	09-Jul-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: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**SP 2 @ 1'**  
**H001796-08 (Soil)**

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

Chloride	2720		16.0	mg/kg	4	0070910	GM	09-Jul-20	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070902	MS	09-Jul-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.5 %	73.3-129		0070902	MS	09-Jul-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	

Surrogate: 1-Chlorooctane			99.0 %	44.3-144		0070901	MS	09-Jul-20	8015B	
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Surrogate: 1-Chlorooctadecane			98.7 %	42.2-156		0070901	MS	09-Jul-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: GOODNIGHT 27 -1 Project Number: ( 5-16-20 ) Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 14-Jul-20 15:13
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**SP 2 @ 2'**  
**H001796-09 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>896</b>		16.0	mg/kg	4	0070910	GM	09-Jul-20	4500-CI-B	
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**Analytical Results For:**

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: GOODNIGHT 27 -1 Project Number: ( 5-16-20 ) Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 14-Jul-20 15:13
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**SP 2 @ 3'**  
**H001796-10 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>304</b>		16.0	mg/kg	4	0070910	GM	09-Jul-20	4500-Cl-B	
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**Analytical Results For:**

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: GOODNIGHT 27 -1 Project Number: ( 5-16-20 ) Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 14-Jul-20 15:13
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**SP 2 @ 4'  
H001796-11 (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	0070910	GM	09-Jul-20	4500-CI-B	
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**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**SP 3 @ SURFACE****H001796-12 (Soil)**

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

<b>Chloride</b>	<b>1940</b>		16.0	mg/kg	4	0070910	GM	09-Jul-20	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070902	MS	09-Jul-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.5 %		73.3-129	0070902	MS	09-Jul-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.9 %		44.3-144	0070901	MS	09-Jul-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			92.0 %		42.2-156	0070901	MS	09-Jul-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: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**SP 3 @ 1'**  
**H001796-13 (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	0070910	GM	09-Jul-20	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070902	MS	09-Jul-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.2 %		73.3-129	0070902	MS	09-Jul-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	

Surrogate: 1-Chlorooctane			96.0 %		44.3-144	0070901	MS	09-Jul-20	8015B	
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Surrogate: 1-Chlorooctadecane			97.3 %		42.2-156	0070901	MS	09-Jul-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: GOODNIGHT 27 -1 Project Number: ( 5-16-20 ) Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 14-Jul-20 15:13
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**SP 3 @ 2'  
H001796-14 (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	0070910	GM	09-Jul-20	4500-CI-B	
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\*=Accredited Analyte

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**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**SP 4 @ SURFACE****H001796-15 (Soil)**

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

<b>Chloride</b>	<b>12600</b>		16.0	mg/kg	4	0070910	GM	09-Jul-20	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070902	MS	09-Jul-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.4 %		73.3-129	0070902	MS	09-Jul-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
<b>DRO &gt;C10-C28*</b>	<b>905</b>		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>502</b>		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			98.9 %		44.3-144	0070901	MS	09-Jul-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			129 %		42.2-156	0070901	MS	09-Jul-20	8015B	
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**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**SP 4 @ 1'**  
**H001796-16 (Soil)**

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

<b>Chloride</b>	<b>400</b>		16.0	mg/kg	4	0070910	GM	09-Jul-20	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070902	MS	09-Jul-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.7 %		73.3-129	0070902	MS	09-Jul-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
<b>DRO &gt;C10-C28*</b>	<b>96.2</b>		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>53.1</b>		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			96.7 %		44.3-144	0070901	MS	09-Jul-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			103 %		42.2-156	0070901	MS	09-Jul-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: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**SP 4 @ 2'**  
**H001796-17 (Soil)**

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

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	0070910	GM	09-Jul-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0071302	MS	13-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0071302	MS	13-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0071302	MS	13-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0071302	MS	13-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0071302	MS	13-Jul-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 73.3-129 0071302 MS 13-Jul-20 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0071301	MS	13-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0071301	MS	13-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0071301	MS	13-Jul-20	8015B	

Surrogate: 1-Chlorooctane 88.2 % 44.3-144 0071301 MS 13-Jul-20 8015B

Surrogate: 1-Chlorooctadecane 87.1 % 42.2-156 0071301 MS 13-Jul-20 8015B

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**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**SP 4 @ 3'**  
**H001796-18 (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	0070910	GM	09-Jul-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0071302	MS	13-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0071302	MS	13-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0071302	MS	13-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0071302	MS	13-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0071302	MS	13-Jul-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 73.3-129 0071302 MS 13-Jul-20 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0071301	MS	13-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0071301	MS	13-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0071301	MS	13-Jul-20	8015B	

Surrogate: 1-Chlorooctane 85.6 % 44.3-144 0071301 MS 13-Jul-20 8015B

Surrogate: 1-Chlorooctadecane 85.3 % 42.2-156 0071301 MS 13-Jul-20 8015B

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**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**SP 5 @ SURFACE****H001796-19 (Soil)**

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

Chloride	13300		16.0	mg/kg	4	0070910	GM	09-Jul-20	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070902	MS	09-Jul-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 73.3-129 0070902 MS 09-Jul-20 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	

Surrogate: 1-Chlorooctane 80.7 % 44.3-144 0070901 MS 09-Jul-20 8015B

Surrogate: 1-Chlorooctadecane 82.4 % 42.2-156 0070901 MS 09-Jul-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: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**SP 5 @ 1'**  
**H001796-20 (Soil)**

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

<b>Chloride</b>	<b>1060</b>		16.0	mg/kg	4	0070910	GM	09-Jul-20	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070902	MS	09-Jul-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.8 %		73.3-129	0070902	MS	09-Jul-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			99.6 %		44.3-144	0070901	MS	09-Jul-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.7 %		42.2-156	0070901	MS	09-Jul-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: GOODNIGHT 27 -1 Project Number: ( 5-16-20 ) Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 14-Jul-20 15:13
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**SP 5 @ 2'**  
**H001796-21 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	0070910	GM	09-Jul-20	4500-CI-B	
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**Analytical Results For:**

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: GOODNIGHT 27 -1 Project Number: ( 5-16-20 ) Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 14-Jul-20 15:13
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**SP 5 @ 3'**  
**H001796-22 (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	0070910	GM	09-Jul-20	4500-CI-B	
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**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**SP 6 @ SURFACE****H001796-23 (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	0070910	GM	09-Jul-20	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070902	MS	09-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070902	MS	09-Jul-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 73.3-129 0070902 MS 09-Jul-20 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	

Surrogate: 1-Chlorooctane 90.8 % 44.3-144 0070901 MS 09-Jul-20 8015B

Surrogate: 1-Chlorooctadecane 89.6 % 42.2-156 0070901 MS 09-Jul-20 8015B

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**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**SP 6 @ 1'**  
**H001796-24 (Soil)**

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

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	0070910	GM	09-Jul-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070903	MS	10-Jul-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 73.3-129 0070903 MS 10-Jul-20 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	

Surrogate: 1-Chlorooctane 98.4 % 44.3-144 0070901 MS 09-Jul-20 8015B

Surrogate: 1-Chlorooctadecane 101 % 42.2-156 0070901 MS 09-Jul-20 8015B

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**Analytical Results For:**

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: GOODNIGHT 27 -1 Project Number: ( 5-16-20 ) Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 14-Jul-20 15:13
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**SP 6 @ 2'**  
**H001796-25 (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	0070910	GM	09-Jul-20	4500-CI-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: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**SP 7 @ SURFACE****H001796-26 (Soil)**

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

Chloride	6320		16.0	mg/kg	4	0070911	GM	09-Jul-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	0070903	MS	10-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070903	MS	10-Jul-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 73.3-129 0070903 MS 10-Jul-20 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	

Surrogate: 1-Chlorooctane 79.4 % 44.3-144 0070901 MS 09-Jul-20 8015B

Surrogate: 1-Chlorooctadecane 77.5 % 42.2-156 0070901 MS 09-Jul-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: GOODNIGHT 27 -1 Project Number: ( 5-16-20 ) Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 14-Jul-20 15:13
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**SP 7 @ 1'**  
**H001796-27 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>560</b>		16.0	mg/kg	4	0070911	GM	09-Jul-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070903	MS	10-Jul-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.9 %		73.3-129	0070903	MS	10-Jul-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070901	MS	09-Jul-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			96.3 %		44.3-144	0070901	MS	09-Jul-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			95.0 %		42.2-156	0070901	MS	09-Jul-20	8015B	
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**Analytical Results For:**

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: GOODNIGHT 27 -1 Project Number: ( 5-16-20 ) Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 14-Jul-20 15:13
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**SP 7 @ 2'  
H001796-28 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>512</b>		16.0	mg/kg	4	0070911	GM	09-Jul-20	4500-CI-B	
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**Analytical Results For:**

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: GOODNIGHT 27 -1 Project Number: ( 5-16-20 ) Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 14-Jul-20 15:13
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**SP 7 @ 3'**  
**H001796-29 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	0070911	GM	09-Jul-20	4500-CI-B	
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**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**SP 8 @ SURFACE****H001796-30 (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	0070911	GM	09-Jul-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070903	MS	10-Jul-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.5 %	73.3-129		0070903	MS	10-Jul-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070907	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070907	MS	09-Jul-20	8015B	QR-03
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070907	MS	09-Jul-20	8015B	

Surrogate: 1-Chlorooctane			69.8 %	44.3-144		0070907	MS	09-Jul-20	8015B	
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Surrogate: 1-Chlorooctadecane			72.0 %	42.2-156		0070907	MS	09-Jul-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: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**SP 8 @ 1'**  
**H001796-31 (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	0070911	GM	09-Jul-20	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070903	MS	10-Jul-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 73.3-129 0070903 MS 10-Jul-20 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070907	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070907	MS	09-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070907	MS	09-Jul-20	8015B	

Surrogate: 1-Chlorooctane 62.0 % 44.3-144 0070907 MS 09-Jul-20 8015B

Surrogate: 1-Chlorooctadecane 63.6 % 42.2-156 0070907 MS 09-Jul-20 8015B

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**Analytical Results For:**

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: GOODNIGHT 27 -1 Project Number: ( 5-16-20 ) Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 14-Jul-20 15:13
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**SP 8 @ 2'  
H001796-32 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	0070911	GM	09-Jul-20	4500-CI-B	
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**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**SP 9 @ SURFACE****H001796-33 (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	0070911	GM	09-Jul-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070903	MS	10-Jul-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.4 %	73.3-129		0070903	MS	10-Jul-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070907	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070907	MS	09-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070907	MS	09-Jul-20	8015B	

Surrogate: 1-Chlorooctane			65.1 %	44.3-144		0070907	MS	09-Jul-20	8015B	
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Surrogate: 1-Chlorooctadecane			67.8 %	42.2-156		0070907	MS	09-Jul-20	8015B	
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**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**SP 9 @ 1'**  
**H001796-34 (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	0070911	GM	09-Jul-20	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0070903	MS	10-Jul-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0070903	MS	10-Jul-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 73.3-129 0070903 MS 10-Jul-20 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0070907	MS	09-Jul-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0070907	MS	09-Jul-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0070907	MS	09-Jul-20	8015B	

Surrogate: 1-Chlorooctane 86.8 % 44.3-144 0070907 MS 09-Jul-20 8015B

Surrogate: 1-Chlorooctadecane 92.8 % 42.2-156 0070907 MS 09-Jul-20 8015B

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**Analytical Results For:**

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: GOODNIGHT 27 -1 Project Number: ( 5-16-20 ) Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 14-Jul-20 15:13
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**SP 9 @ 2'**  
**H001796-35 (Soil)**

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

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	0070911	GM	09-Jul-20	4500-CI-B	
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**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**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 0070908 - 1:4 DI Water****Blank (0070908-BLK1)**

Prepared &amp; Analyzed: 09-Jul-20

Chloride ND 16.0 mg/kg

**LCS (0070908-BS1)**

Prepared &amp; Analyzed: 09-Jul-20

Chloride 432 16.0 mg/kg 400 108 80-120

**LCS Dup (0070908-BSD1)**

Prepared &amp; Analyzed: 09-Jul-20

Chloride 416 16.0 mg/kg 400 104 80-120 3.77 20

**Batch 0070910 - 1:4 DI Water****Blank (0070910-BLK1)**

Prepared &amp; Analyzed: 09-Jul-20

Chloride ND 16.0 mg/kg

**LCS (0070910-BS1)**

Prepared &amp; Analyzed: 09-Jul-20

Chloride 416 16.0 mg/kg 400 104 80-120

**LCS Dup (0070910-BSD1)**

Prepared &amp; Analyzed: 09-Jul-20

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

**Batch 0070911 - 1:4 DI Water****Blank (0070911-BLK1)**

Prepared &amp; Analyzed: 09-Jul-20

Chloride ND 16.0 mg/kg

**LCS (0070911-BS1)**

Prepared &amp; Analyzed: 09-Jul-20

Chloride 416 16.0 mg/kg 400 104 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: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**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 0070911 - 1:4 DI Water****LCS Dup (0070911-BSD1)**

Prepared &amp; Analyzed: 09-Jul-20

Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
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**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**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 0070902 - Volatiles****Blank (0070902-BLK1)**

Prepared &amp; Analyzed: 09-Jul-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							
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>ND</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>95.3</i>	<i>73.3-129</i>			

**LCS (0070902-BS1)**

Prepared &amp; Analyzed: 09-Jul-20

Benzene	1.82	0.050	mg/kg	2.00		90.8	72.2-131			
Toluene	1.83	0.050	mg/kg	2.00		91.4	71.7-126			
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.3	68.9-126			
Total Xylenes	5.26	0.150	mg/kg	6.00		87.6	71.4-125			
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0482</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>96.4</i>	<i>73.3-129</i>			

**LCS Dup (0070902-BSD1)**

Prepared &amp; Analyzed: 09-Jul-20

Benzene	1.98	0.050	mg/kg	2.00		99.0	72.2-131	8.69	14.6	
Toluene	2.00	0.050	mg/kg	2.00		99.8	71.7-126	8.81	17.4	
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	68.9-126	9.43	18.9	
Total Xylenes	5.78	0.150	mg/kg	6.00		96.3	71.4-125	9.48	18.5	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0486</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>97.2</i>	<i>73.3-129</i>			

**Batch 0070903 - Volatiles****Blank (0070903-BLK1)**

Prepared: 09-Jul-20 Analyzed: 10-Jul-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							
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>ND</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>94.4</i>	<i>73.3-129</i>			

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**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**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 0070903 - Volatiles****LCS (0070903-BS1)**

Prepared: 09-Jul-20 Analyzed: 10-Jul-20

Benzene	1.85	0.050	mg/kg	2.00		92.6	72.2-131			
Toluene	1.86	0.050	mg/kg	2.00		93.1	71.7-126			
Ethylbenzene	1.87	0.050	mg/kg	2.00		93.5	68.9-126			
Total Xylenes	5.38	0.150	mg/kg	6.00		89.7	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0484		mg/kg	0.0500		96.9	73.3-129			

**LCS Dup (0070903-BSD1)**

Prepared: 09-Jul-20 Analyzed: 10-Jul-20

Benzene	1.94	0.050	mg/kg	2.00		97.0	72.2-131	4.67	14.6	
Toluene	1.95	0.050	mg/kg	2.00		97.6	71.7-126	4.79	17.4	
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.3	68.9-126	4.91	18.9	
Total Xylenes	5.65	0.150	mg/kg	6.00		94.2	71.4-125	4.90	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0487		mg/kg	0.0500		97.4	73.3-129			

**Batch 0071302 - Volatiles****Blank (0071302-BLK1)**

Prepared &amp; Analyzed: 13-Jul-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		94.4	73.3-129			

**LCS (0071302-BS1)**

Prepared &amp; Analyzed: 13-Jul-20

Benzene	1.90	0.050	mg/kg	2.00		95.0	72.2-131			
Toluene	1.90	0.050	mg/kg	2.00		94.8	71.7-126			
Ethylbenzene	1.93	0.050	mg/kg	2.00		96.6	68.9-126			
Total Xylenes	5.58	0.150	mg/kg	6.00		93.0	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0484		mg/kg	0.0500		96.7	73.3-129			

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**Analytical Results For:**

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: GOODNIGHT 27 -1 Project Number: ( 5-16-20 ) Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 14-Jul-20 15:13
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**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 0071302 - Volatiles**

**LCS Dup (0071302-BSD1)**

Prepared & Analyzed: 13-Jul-20

Benzene	1.95	0.050	mg/kg	2.00		97.7	72.2-131	2.84	14.6	
Toluene	1.95	0.050	mg/kg	2.00		97.7	71.7-126	3.05	17.4	
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.4	68.9-126	2.86	18.9	
Total Xylenes	5.74	0.150	mg/kg	6.00		95.6	71.4-125	2.82	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0489		mg/kg	0.0500		97.8	73.3-129			

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**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**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 0070901 - General Prep - Organics****Blank (0070901-BLK1)**

Prepared &amp; Analyzed: 09-Jul-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							
<i>Surrogate: 1-Chlorooctane</i>	49.1		mg/kg	50.0		98.3	44.3-144			
<i>Surrogate: 1-Chlorooctadecane</i>	46.5		mg/kg	50.0		92.9	42.2-156			

**LCS (0070901-BS1)**

Prepared &amp; Analyzed: 09-Jul-20

GRO C6-C10	202	10.0	mg/kg	200		101	78.8-127			
DRO >C10-C28	194	10.0	mg/kg	200		97.0	80-132			
Total TPH C6-C28	396	10.0	mg/kg	400		98.9	81.3-128			
<i>Surrogate: 1-Chlorooctane</i>	51.0		mg/kg	50.0		102	44.3-144			
<i>Surrogate: 1-Chlorooctadecane</i>	47.3		mg/kg	50.0		94.7	42.2-156			

**LCS Dup (0070901-BS1)**

Prepared &amp; Analyzed: 09-Jul-20

GRO C6-C10	203	10.0	mg/kg	200		101	78.8-127	0.556	15.1	
DRO >C10-C28	198	10.0	mg/kg	200		98.9	80-132	1.95	17.1	
Total TPH C6-C28	401	10.0	mg/kg	400		100	81.3-128	1.24	15	
<i>Surrogate: 1-Chlorooctane</i>	52.5		mg/kg	50.0		105	44.3-144			
<i>Surrogate: 1-Chlorooctadecane</i>	49.1		mg/kg	50.0		98.3	42.2-156			

**Batch 0070907 - General Prep - Organics****Blank (0070907-BLK1)**

Prepared &amp; Analyzed: 09-Jul-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							
<i>Surrogate: 1-Chlorooctane</i>	35.3		mg/kg	50.0		70.7	44.3-144			
<i>Surrogate: 1-Chlorooctadecane</i>	36.0		mg/kg	50.0		72.0	42.2-156			

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**Analytical Results For:**

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

Project: GOODNIGHT 27 -1  
Project Number: ( 5-16-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
14-Jul-20 15:13

**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 0070907 - General Prep - Organics****LCS (0070907-BS1)**

Prepared &amp; Analyzed: 09-Jul-20

GRO C6-C10	207	10.0	mg/kg	200	103	78.8-127				
DRO >C10-C28	240	10.0	mg/kg	200	120	80-132				
Total TPH C6-C28	447	10.0	mg/kg	400	112	81.3-128				
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0	96.3	44.3-144				
Surrogate: 1-Chlorooctadecane	49.9		mg/kg	50.0	99.8	42.2-156				

**LCS Dup (0070907-BSD1)**

Prepared &amp; Analyzed: 09-Jul-20

GRO C6-C10	204	10.0	mg/kg	200	102	78.8-127	1.29	15.1		
DRO >C10-C28	208	10.0	mg/kg	200	104	80-132	14.5	17.1		
Total TPH C6-C28	412	10.0	mg/kg	400	103	81.3-128	8.20	15		
Surrogate: 1-Chlorooctane	49.4		mg/kg	50.0	98.9	44.3-144				
Surrogate: 1-Chlorooctadecane	51.4		mg/kg	50.0	103	42.2-156				

**Batch 0071301 - General Prep - Organics****Blank (0071301-BLK1)**

Prepared &amp; Analyzed: 13-Jul-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	47.6		mg/kg	50.0	95.3	44.3-144				
Surrogate: 1-Chlorooctadecane	47.8		mg/kg	50.0	95.5	42.2-156				

**LCS (0071301-BS1)**

Prepared &amp; Analyzed: 13-Jul-20

GRO C6-C10	206	10.0	mg/kg	200	103	78.8-127				
DRO >C10-C28	191	10.0	mg/kg	200	95.3	80-132				
Total TPH C6-C28	397	10.0	mg/kg	400	99.2	81.3-128				
Surrogate: 1-Chlorooctane	54.2		mg/kg	50.0	108	44.3-144				
Surrogate: 1-Chlorooctadecane	51.4		mg/kg	50.0	103	42.2-156				

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**Analytical Results For:**

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: GOODNIGHT 27 -1 Project Number: ( 5-16-20 ) Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 14-Jul-20 15:13
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**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 0071301 - General Prep - Organics**

**LCS Dup (0071301-BSD1)**

Prepared & Analyzed: 13-Jul-20

GRO C6-C10	198	10.0	mg/kg	200		98.8	78.8-127	4.26	15.1	
DRO >C10-C28	175	10.0	mg/kg	200		87.3	80-132	8.73	17.1	
Total TPH C6-C28	372	10.0	mg/kg	400		93.1	81.3-128	6.38	15	
Surrogate: 1-Chlorooctane	53.8		mg/kg	50.0		108	44.3-144			
Surrogate: 1-Chlorooctadecane	51.0		mg/kg	50.0		102	42.2-156			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celest D. Keene

Celey D. Keene, Lab Director/Quality Manager



**CARDINAL LABORATORIES**  
 101 East Marland, Hobbs, NM 88240  
 (505) 393-2326 FAX (505) 393-2476

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

1084

Company Name: BBC International, Inc.				<b>BILL TO</b>												<b>ANALYSIS REQUEST</b>														
Project Manager: Cliff Brunson				P.O. #:																										
Address: P.O. Box 805				Company: OXY																										
City: Hobbs		State: NM Zip: 88241		Attn: WADE																										
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																										
Project #:		Project Owner: Oxy		City:																										
Project Name: GOODNIGHT 27-1 (5-16-20)				State: Zip:																										
Project Location: EDDY COUNTY, NM				Phone #:																										
Sampler Name: Simon Rendon				Fax #:																										
FOR LAB USE ONLY																														
Lab I.D.		Sample I.D.		# CONTAINERS	MATRIX					PRESERV.			SAMPLING																	
				(G)RAB OR (C)OMP.	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	CL	BTEX	TPH	EXT											
H001796				6										7/1/20	9:20 AM	✓	✓	✓												
1		N @ Surface												7/1/20	9:32 AM	✓	✓	✓												
2		E @ Surface												7/1/20	9:45 AM	✓	✓	✓												
3		W @ Surface												7/1/20	10:03 AM	✓	✓	✓												
4		S @ Surface												7/1/20	10:22 AM	✓	✓	✓												
5		SP1 @ Surface												7/1/20	10:34 AM	✓	✓	✓												
6		SP1 @ 1'												7/1/20	10:50 AM	✓	✓	✓												
7		SP2 @ Surface												7/1/20	11:04 AM	✓	✓	✓												
8		SP2 @ 1'												7/1/20	11:15 AM	✓														
9		SP2 @ 2'												7/1/20	11:33 AM	✓														
10		SP2 @ 3'																												

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

Relinquished By:		Date: 7/8/20		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 14:30				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other: -9.8c/#113				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

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







