



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805
E-MAIL: cbrunson@bbcinternational.com

DELINEATION/REMEDIATION WORKPLAN

OXY – HEIGHT CC 6-7 FED COM 34H (Leak Date: 11/26/19)

Incident Reference #: NRM2002750398

This delineation workplan and remediation proposal addresses the releases associated with Incident Reference #: NRM2002750398.

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 and SP2 (BLUE shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP3 (PURPLE shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP4 (RED shade on diagram) will be excavated to a depth of 3 feet.

Bottom and sidewall confirmation samples will be collected every 50 feet. The estimated amount of soil to be excavated is 492 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.

Form C-141

State of New Mexico
Oil Conservation Division

Page 3

Incident ID	
District RP	NRM2002750398
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?	51 (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 checked="" type="checkbox"/> Yes <input 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Form C-141

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	NRM2002750398
Facility ID	
Application ID	

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

Printed Name: Wade Dittrich Title: Environmental Coordinator
 Signature:  Date: 2-10-2020
 email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: Cristina Eads Date: 03/18/2020

Form C-141

State of New Mexico
Oil Conservation Division

Page 5

Incident ID	
District RP	NRM2002750398
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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 I specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Wade Dittrich Title: Environmental Coordinator
 Signature:  Date: 2-10-2020
 email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: Cristina Eads Date: 03/18/2020

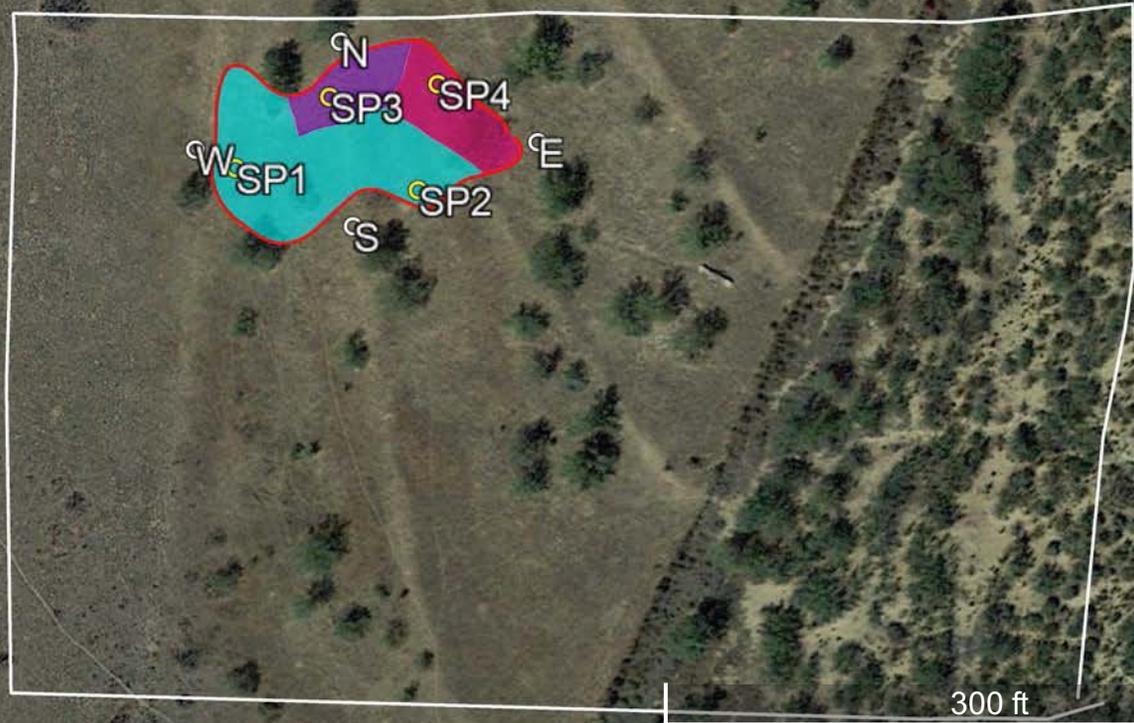
- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature:  Date: 03/18/2020

Oxy, Height CC 6-7 Fed Com 34H

Leak Date: 11-26-19
Eddy County, NM
Reference# NRM2002750398

- Legend**
- 1 ft Excavation
 - 2 ft Excavation
 - 3 ft Excavation
 - Leak Area
 - Location Pad
 - Sample Points



Google Earth

© 2019 Google

Oxy, Height CC 6-7 #39H

Sample Points

SP1, N 32.25370 W-103.02523

SP2, N 32.25367 W-103.02496

SP3, N 32.25379 W-103.02509

SP4, N 32.25380 W-103.02493

Oxy, Height CC 6-7 Fed Com 34H
U/L C, Section 6, T24S, R29E
Groundwater: <50'





USGS Home
 Contact USGS
 Search USGS

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category: Geographic Area:

Click to hide News 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 =

- 321355104012001

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

USGS 321355104012001 24S.29E.07.14444

Eddy County, New Mexico
 Latitude 32°13'55", Longitude 104°01'20" NAD27
 Land-surface elevation 2,983 feet above NAVD88
 The depth of the well is 160 feet below land surface.
 This well is completed in the Castile Formation (312CSTL) local aquifer.

Output formats

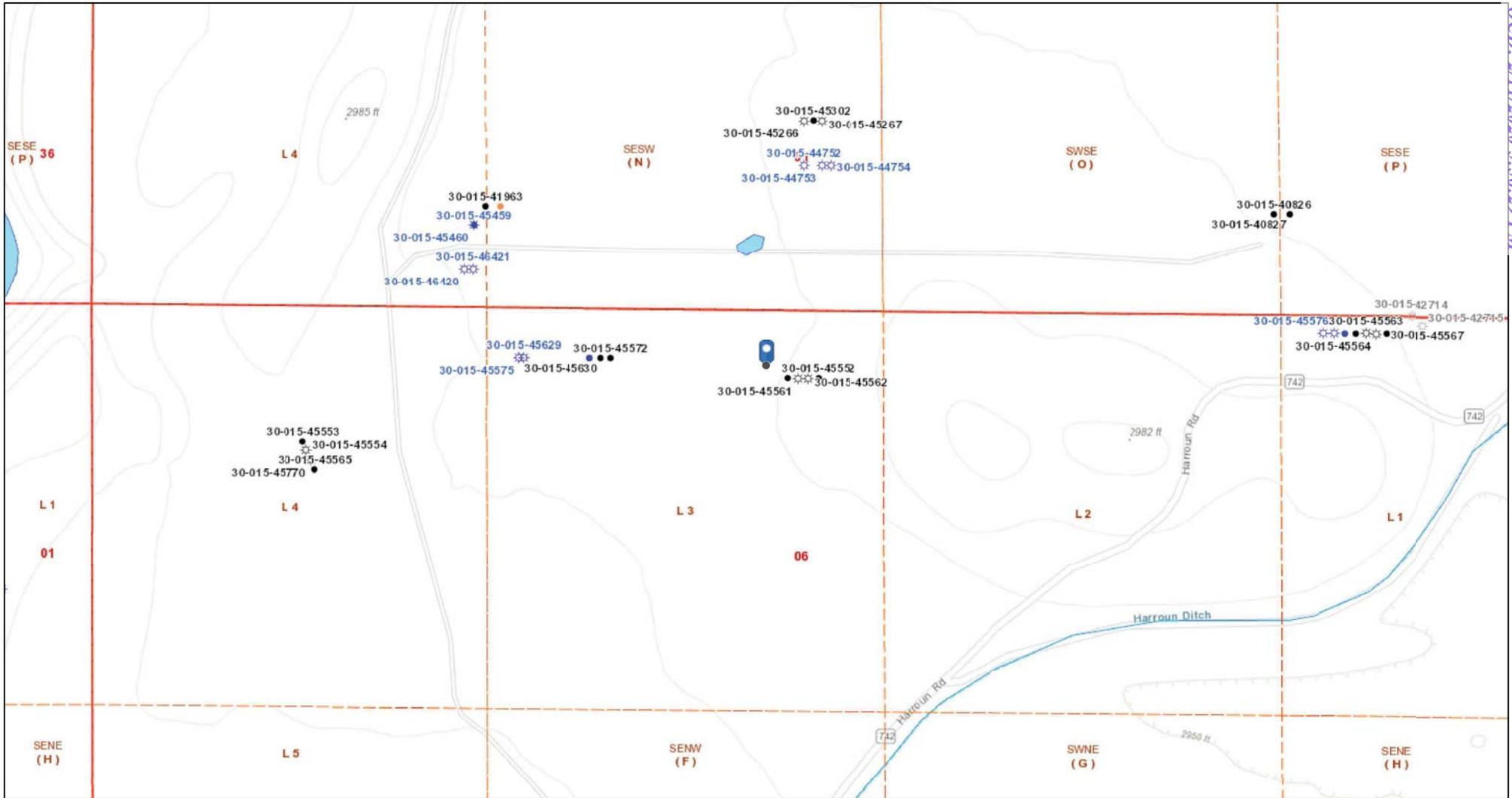
Table of data
Tab-separated data
Graph of data
Reselect period

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

Explanation

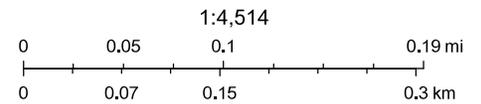
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement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

Oxy Height CC 6-7 Fed Com 34H, 1,250 ft to h2o



2/11/2020 10:02:12 AM

- | | | | | |
|---------------------|----------------------------|----------------------------------|---------------------------------|---|
| 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,

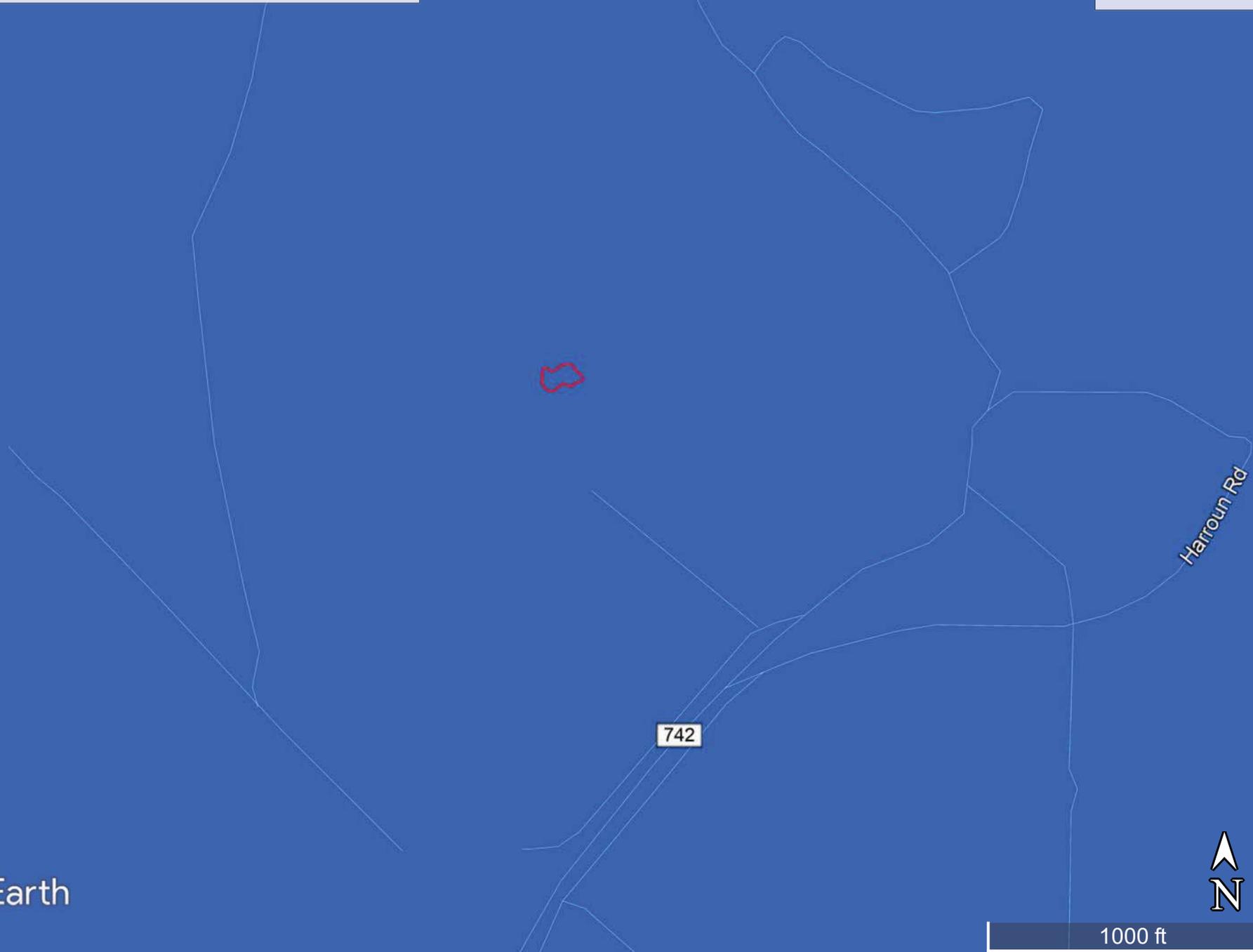
Oxy Height CC 6-7 Fed Com 34H

Leak Date: 11-26-19
Eddy County, NM

BLM CAVE KARST MAP

Legend

-  Leak Area
-  Medium



Google Earth

© 2018 Google

1000 ft

National Flood Hazard Layer FIRMette



32°15'28.70"N



104°148.98"W

Legend

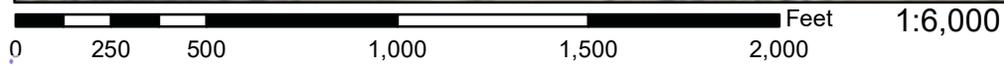
SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

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
		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
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		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
MAP PANELS		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped

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

Received by OCD: 2/1/2020 5:56:29 PM

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



32°14'58.27"N

104°111.53"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 **12/10/2019 at 12:11:30 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.

Page 11 of 47

Laboratory Analytical Results Summary
 Oxy, Height CC 6-7 #34H 11-26-19

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	12/13/19	12/13/19	12/13/19	12/13/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		96.0	144	192	96.0
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'
Analyte	Method	Date	12/13/19	12/13/19	12/13/19	12/13/19	12/13/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		0.068	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		0.374	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		0.442	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		16000	448.0	400	48.0	64.0
GRO	TPH 8015M		21.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		5620	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		1590	<10.0	n/a	n/a	n/a

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	12/13/19	12/13/19	12/13/19	12/13/19
			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		0.381	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		0.381	<0.300	n/a	n/a
Chloride	SM4500Cl-B		7060	416.0	272.0	96.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		1450	<10.0	n/a	n/a
EXT DRO	TPH 8015M		507	<10.0	n/a	n/a

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	12/13/19	12/13/19	12/13/19	12/13/19	12/13/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	0.528	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	0.528	n/a	n/a	n/a
Chloride	SM4500Cl-B		4880	672	32.0	32.0	32.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		2250	17.1	n/a	n/a	n/a
EXT DRO	TPH 8015M		594	27.3	n/a	n/a	n/a

		Sample ID	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	12/13/19	12/13/19	12/13/19	12/13/19	12/13/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.052	<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.068	<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		0.483	0.339	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		0.603	0.339	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		5440	2080	912	32.0	32.0
GRO	TPH 8015M		<10.0	29.7	<10.0	<10.0	n/a
DRO	TPH 8015M		2360	818	97.9	<10.0	n/a
EXT DRO	TPH 8015M		623	165	<10.0	<10.0	n/a



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

December 30, 2019

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

RE: HEIGHT CC 6-7 # 34H

Enclosed are the results of analyses for samples received by the laboratory on 12/20/19 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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.

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: HEIGHT CC 6-7 # 34H
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
30-Dec-19 08:33

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NORTH @ SURFACE	H904260-01	Soil	13-Dec-19 09:09	20-Dec-19 12:15
EAST @ SURFACE	H904260-02	Soil	13-Dec-19 09:15	20-Dec-19 12:15
WEST @ SURFACE	H904260-03	Soil	13-Dec-19 09:31	20-Dec-19 12:15
SOUTH @ SURFACE	H904260-04	Soil	13-Dec-19 09:49	20-Dec-19 12:15
SP 1 @ SURFACE	H904260-05	Soil	13-Dec-19 10:15	20-Dec-19 12:15
SP 1 @ 1'	H904260-06	Soil	13-Dec-19 10:22	20-Dec-19 12:15
SP 1 @ 2'	H904260-07	Soil	13-Dec-19 10:37	20-Dec-19 12:15
SP 1 @ 3'	H904260-08	Soil	13-Dec-19 10:47	20-Dec-19 12:15
SP 1 @ 4'	H904260-09	Soil	13-Dec-19 10:59	20-Dec-19 12:15
SP 2 @ SURFACE	H904260-10	Soil	13-Dec-19 11:11	20-Dec-19 12:15
SP 2 @ 1'	H904260-11	Soil	13-Dec-19 11:22	20-Dec-19 12:15
SP 2 @ 2'	H904260-12	Soil	13-Dec-19 11:35	20-Dec-19 12:15
SP 2 @ 3'	H904260-13	Soil	13-Dec-19 11:51	20-Dec-19 12:15
SP 3 @ SURFACE	H904260-14	Soil	13-Dec-19 11:50	20-Dec-19 12:15
SP 3 @ 1'	H904260-15	Soil	13-Dec-19 12:50	20-Dec-19 12:15
SP 3 @ 2'	H904260-16	Soil	13-Dec-19 13:09	20-Dec-19 12:15
SP 3 @ 3'	H904260-17	Soil	13-Dec-19 13:22	20-Dec-19 12:15
SP 3 @ 4'	H904260-18	Soil	13-Dec-19 13:33	20-Dec-19 12:15
SP 4 @ SURFACE	H904260-19	Soil	13-Dec-19 13:35	20-Dec-19 12:15
SP 4 @ 1'	H904260-20	Soil	13-Dec-19 13:40	20-Dec-19 12:15
SP 4 @ 2'	H904260-21	Soil	13-Dec-19 13:47	20-Dec-19 12:15
SP 4 @ 3'	H904260-22	Soil	13-Dec-19 13:57	20-Dec-19 12:15
SP 4 @ 4'	H904260-23	Soil	13-Dec-19 14:20	20-Dec-19 12:15

Client added BTEX and TPH to samples -21 and -22. This is the revised report and will replace the one sent on 12/27/19.

Cardinal Laboratories

* = Accredited Analyte

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 client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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: HEIGHT CC 6-7 # 34H
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
30-Dec-19 08:33

NORTH @ SURFACE**H904260-01 (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	9122312	AC	23-Dec-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9122310	MS	23-Dec-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.2 %		73.3-129	9122310	MS	23-Dec-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	

Surrogate: 1-Chlorooctane			119 %		41-142	9122305	MS	23-Dec-19	8015B	
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Surrogate: 1-Chlorooctadecane			127 %		37.6-147	9122305	MS	23-Dec-19	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: HEIGHT CC 6-7 # 34H
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
30-Dec-19 08:33

EAST @ SURFACE**H904260-02 (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	9122312	AC	23-Dec-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9122310	MS	23-Dec-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.3 %		73.3-129	9122310	MS	23-Dec-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	

Surrogate: 1-Chlorooctane			115 %		41-142	9122305	MS	23-Dec-19	8015B	
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Surrogate: 1-Chlorooctadecane			128 %		37.6-147	9122305	MS	23-Dec-19	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: HEIGHT CC 6-7 # 34H
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
30-Dec-19 08:33

WEST @ SURFACE**H904260-03 (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	9122312	AC	23-Dec-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9122310	MS	23-Dec-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.2 %		73.3-129	9122310	MS	23-Dec-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			116 %		41-142	9122305	MS	23-Dec-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			127 %		37.6-147	9122305	MS	23-Dec-19	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: HEIGHT CC 6-7 # 34H
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
30-Dec-19 08:33

SOUTH @ SURFACE**H904260-04 (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	9122312	AC	23-Dec-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9122310	MS	23-Dec-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.4 %		73.3-129	9122310	MS	23-Dec-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			111 %		41-142	9122305	MS	23-Dec-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			121 %		37.6-147	9122305	MS	23-Dec-19	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: HEIGHT CC 6-7 # 34H
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
30-Dec-19 08:33

SP 1 @ SURFACE**H904260-05 (Soil)**

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

Chloride	16000		16.0	mg/kg	4	9122312	AC	23-Dec-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Toluene*	0.068		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total Xylenes*	0.374		0.150	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total BTEX	0.442		0.300	mg/kg	50	9122310	MS	23-Dec-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.3 %		73.3-129	9122310	MS	23-Dec-19	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	21.0		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	
DRO >C10-C28*	5620		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	
EXT DRO >C28-C36	1590		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			113 %		41-142	9122305	MS	23-Dec-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			307 %		37.6-147	9122305	MS	23-Dec-19	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: HEIGHT CC 6-7 # 34H
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
30-Dec-19 08:33

SP 1 @ 1'
H904260-06 (Soil)

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

Chloride	448		16.0	mg/kg	4	9122312	AC	23-Dec-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9122310	MS	23-Dec-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.7 %		73.3-129	9122310	MS	23-Dec-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			118 %		41-142	9122305	MS	23-Dec-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			129 %		37.6-147	9122305	MS	23-Dec-19	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: HEIGHT CC 6-7 # 34H Project Number: NONE GIVEN Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 30-Dec-19 08:33
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SP 1 @ 2'
H904260-07 (Soil)

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

Inorganic Compounds

Chloride	400		16.0	mg/kg	4	9122312	AC	23-Dec-19	4500-CI-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: HEIGHT CC 6-7 # 34H Project Number: NONE GIVEN Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 30-Dec-19 08:33
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SP 1 @ 3'

H904260-08 (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	9122312	AC	23-Dec-19	4500-CI-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: HEIGHT CC 6-7 # 34H Project Number: NONE GIVEN Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 30-Dec-19 08:33
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SP 1 @ 4'

H904260-09 (Soil)

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

Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	9122302	AC	23-Dec-19	4500-CI-B	
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Cardinal Laboratories

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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: HEIGHT CC 6-7 # 34H
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
30-Dec-19 08:33

SP 2 @ SURFACE**H904260-10 (Soil)**

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

Chloride	7060		16.0	mg/kg	4	9122302	AC	23-Dec-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total Xylenes*	0.381		0.150	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total BTEX	0.381		0.300	mg/kg	50	9122310	MS	23-Dec-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.8 %	73.3-129		9122310	MS	23-Dec-19	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	
DRO >C10-C28*	1450		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	
EXT DRO >C28-C36	507		10.0	mg/kg	1	9122305	MS	23-Dec-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			114 %	41-142		9122305	MS	23-Dec-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			178 %	37.6-147		9122305	MS	23-Dec-19	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: HEIGHT CC 6-7 # 34H
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
30-Dec-19 08:33

SP 2 @ 1'
H904260-11 (Soil)

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

Chloride	416		16.0	mg/kg	4	9122302	AC	23-Dec-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9122310	MS	23-Dec-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129 9122310 MS 23-Dec-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9122306	MS	23-Dec-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9122306	MS	23-Dec-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9122306	MS	23-Dec-19	8015B	

Surrogate: 1-Chlorooctane 87.3 % 41-142 9122306 MS 23-Dec-19 8015B

Surrogate: 1-Chlorooctadecane 92.0 % 37.6-147 9122306 MS 23-Dec-19 8015B

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Analytical Results For:

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: HEIGHT CC 6-7 # 34H Project Number: NONE GIVEN Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 30-Dec-19 08:33
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SP 2 @ 2'
H904260-12 (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	9122302	AC	23-Dec-19	4500-CI-B	
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Analytical Results For:

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: HEIGHT CC 6-7 # 34H Project Number: NONE GIVEN Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 30-Dec-19 08:33
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SP 2 @ 3'

H904260-13 (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	9122302	AC	23-Dec-19	4500-CI-B	
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Analytical Results For:

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

Project: HEIGHT CC 6-7 # 34H
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
30-Dec-19 08:33

SP 3 @ SURFACE**H904260-14 (Soil)**

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

Chloride	4880		16.0	mg/kg	4	9122302	AC	23-Dec-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9122310	MS	23-Dec-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.0 %		73.3-129	9122310	MS	23-Dec-19	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	9122306	MS	23-Dec-19	8015B	
DRO >C10-C28*	2250		10.0	mg/kg	1	9122306	MS	23-Dec-19	8015B	
EXT DRO >C28-C36	594		10.0	mg/kg	1	9122306	MS	23-Dec-19	8015B	

Surrogate: 1-Chlorooctane			84.5 %		41-142	9122306	MS	23-Dec-19	8015B	
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Surrogate: 1-Chlorooctadecane			255 %		37.6-147	9122306	MS	23-Dec-19	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: HEIGHT CC 6-7 # 34H
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
30-Dec-19 08:33

SP 3 @ 1'
H904260-15 (Soil)

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

Chloride	672		16.0	mg/kg	4	9122302	AC	23-Dec-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total Xylenes*	0.528		0.150	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total BTEX	0.528		0.300	mg/kg	50	9122310	MS	23-Dec-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.1 %	73.3-129		9122310	MS	23-Dec-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9122306	MS	23-Dec-19	8015B	
DRO >C10-C28*	17.1		10.0	mg/kg	1	9122306	MS	23-Dec-19	8015B	
EXT DRO >C28-C36	27.3		10.0	mg/kg	1	9122306	MS	23-Dec-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.0 %	41-142		9122306	MS	23-Dec-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.8 %	37.6-147		9122306	MS	23-Dec-19	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: HEIGHT CC 6-7 # 34H Project Number: NONE GIVEN Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 30-Dec-19 08:33
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SP 3 @ 2'

H904260-16 (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	9122302	AC	23-Dec-19	4500-CI-B	
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Analytical Results For:

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: HEIGHT CC 6-7 # 34H Project Number: NONE GIVEN Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 30-Dec-19 08:33
--	--	------------------------------

SP 3 @ 3'

H904260-17 (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	9122302	AC	23-Dec-19	4500-CI-B	
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Analytical Results For:

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: HEIGHT CC 6-7 # 34H Project Number: NONE GIVEN Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 30-Dec-19 08:33
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SP 3 @ 4'

H904260-18 (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	9122302	AC	23-Dec-19	4500-CI-B	
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Analytical Results For:

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

Project: HEIGHT CC 6-7 # 34H
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
30-Dec-19 08:33

SP 4 @ SURFACE**H904260-19 (Soil)**

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

Chloride	5440		16.0	mg/kg	4	9122302	AC	23-Dec-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Toluene*	0.052		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Ethylbenzene*	0.068		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total Xylenes*	0.483		0.150	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total BTEX	0.603		0.300	mg/kg	50	9122310	MS	23-Dec-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129 9122310 MS 23-Dec-19 8021B

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

GRO C6-C10*	<10.0		10.0	mg/kg	1	9122306	MS	23-Dec-19	8015B	
DRO >C10-C28*	2360		10.0	mg/kg	1	9122306	MS	23-Dec-19	8015B	
EXT DRO >C28-C36	623		10.0	mg/kg	1	9122306	MS	23-Dec-19	8015B	

Surrogate: 1-Chlorooctane 92.0 % 41-142 9122306 MS 23-Dec-19 8015B

Surrogate: 1-Chlorooctadecane 159 % 37.6-147 9122306 MS 23-Dec-19 8015B

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Analytical Results For:

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

Project: HEIGHT CC 6-7 # 34H
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
30-Dec-19 08:33

SP 4 @ 1'
H904260-20 (Soil)

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

Chloride	2080		16.0	mg/kg	4	9122302	AC	23-Dec-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total Xylenes*	0.339		0.150	mg/kg	50	9122310	MS	23-Dec-19	8021B	
Total BTEX	0.339		0.300	mg/kg	50	9122310	MS	23-Dec-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			116 %	73.3-129		9122310	MS	23-Dec-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	29.7		10.0	mg/kg	1	9122306	MS	23-Dec-19	8015B	
DRO >C10-C28*	818		10.0	mg/kg	1	9122306	MS	23-Dec-19	8015B	
EXT DRO >C28-C36	165		10.0	mg/kg	1	9122306	MS	23-Dec-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.7 %	41-142		9122306	MS	23-Dec-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			116 %	37.6-147		9122306	MS	23-Dec-19	8015B	
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Analytical Results For:

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

Project: HEIGHT CC 6-7 # 34H
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
30-Dec-19 08:33

SP 4 @ 2'**H904260-21 (Soil)**

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

Chloride	912		16.0	mg/kg	4	9122302	AC	23-Dec-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9122621	MS	27-Dec-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9122621	MS	27-Dec-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9122621	MS	27-Dec-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9122621	MS	27-Dec-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9122621	MS	27-Dec-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		73.3-129	9122621	MS	27-Dec-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9122620	MS	27-Dec-19	8015B	
DRO >C10-C28*	97.9		10.0	mg/kg	1	9122620	MS	27-Dec-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9122620	MS	27-Dec-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.5 %		41-142	9122620	MS	27-Dec-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			105 %		37.6-147	9122620	MS	27-Dec-19	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: HEIGHT CC 6-7 # 34H
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
30-Dec-19 08:33

SP 4 @ 3'**H904260-22 (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	9122302	AC	23-Dec-19	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9122621	MS	27-Dec-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9122621	MS	27-Dec-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9122621	MS	27-Dec-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9122621	MS	27-Dec-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9122621	MS	27-Dec-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	73.3-129		9122621	MS	27-Dec-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9122620	MS	27-Dec-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9122620	MS	27-Dec-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9122620	MS	27-Dec-19	8015B	

Surrogate: 1-Chlorooctane			95.9 %	41-142		9122620	MS	27-Dec-19	8015B	
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Surrogate: 1-Chlorooctadecane			104 %	37.6-147		9122620	MS	27-Dec-19	8015B	
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Analytical Results For:

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: HEIGHT CC 6-7 # 34H Project Number: NONE GIVEN Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 30-Dec-19 08:33
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SP 4 @ 4'

H904260-23 (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	9122302	AC	23-Dec-19	4500-CI-B	
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Analytical Results For:

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: HEIGHT CC 6-7 # 34H Project Number: NONE GIVEN Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 30-Dec-19 08:33
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9122302 - 1:4 DI Water										
Blank (9122302-BLK1) Prepared & Analyzed: 23-Dec-19										
Chloride	ND	16.0	mg/kg							
LCS (9122302-BS1) Prepared & Analyzed: 23-Dec-19										
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (9122302-BSD1) Prepared & Analyzed: 23-Dec-19										
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
Batch 9122312 - 1:4 DI Water										
Blank (9122312-BLK1) Prepared & Analyzed: 23-Dec-19										
Chloride	ND	16.0	mg/kg							
LCS (9122312-BS1) Prepared & Analyzed: 23-Dec-19										
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (9122312-BSD1) Prepared & Analyzed: 23-Dec-19										
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

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Analytical Results For:

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

Project: HEIGHT CC 6-7 # 34H
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
30-Dec-19 08:33

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 9122310 - Volatiles**Blank (9122310-BLK1)**

Prepared & Analyzed: 23-Dec-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		97.2	73.3-129			

LCS (9122310-BS1)

Prepared & Analyzed: 23-Dec-19

Benzene	1.64	0.050	mg/kg	2.00		82.2	72.2-131			
Toluene	1.65	0.050	mg/kg	2.00		82.4	71.7-126			
Ethylbenzene	1.65	0.050	mg/kg	2.00		82.6	68.9-126			
Total Xylenes	5.00	0.150	mg/kg	6.00		83.3	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0485		mg/kg	0.0500		97.0	73.3-129			

LCS Dup (9122310-BSD1)

Prepared & Analyzed: 23-Dec-19

Benzene	1.94	0.050	mg/kg	2.00		97.1	72.2-131	16.6	14.6	QR-02
Toluene	1.96	0.050	mg/kg	2.00		98.0	71.7-126	17.3	17.4	
Ethylbenzene	1.88	0.050	mg/kg	2.00		94.2	68.9-126	13.1	18.9	
Total Xylenes	5.94	0.150	mg/kg	6.00		99.0	71.4-125	17.1	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0496		mg/kg	0.0500		99.3	73.3-129			

Batch 9122621 - Volatiles**Blank (9122621-BLK1)**

Prepared & Analyzed: 26-Dec-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0536		mg/kg	0.0500		107	73.3-129			

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Analytical Results For:

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

Project: HEIGHT CC 6-7 # 34H
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
30-Dec-19 08:33

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 9122621 - Volatiles**LCS (9122621-BS1)**

Prepared & Analyzed: 26-Dec-19

Benzene	1.96	0.050	mg/kg	2.00		98.2	72.2-131			
Toluene	1.87	0.050	mg/kg	2.00		93.7	71.7-126			
Ethylbenzene	1.84	0.050	mg/kg	2.00		91.8	68.9-126			
Total Xylenes	5.77	0.150	mg/kg	6.00		96.1	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	73.3-129			

LCS Dup (9122621-BSD1)

Prepared & Analyzed: 26-Dec-19

Benzene	1.92	0.050	mg/kg	2.00		95.9	72.2-131	2.43	14.6	
Toluene	1.86	0.050	mg/kg	2.00		92.8	71.7-126	0.933	17.4	
Ethylbenzene	1.84	0.050	mg/kg	2.00		91.9	68.9-126	0.107	18.9	
Total Xylenes	5.85	0.150	mg/kg	6.00		97.4	71.4-125	1.34	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0549		mg/kg	0.0500		110	73.3-129			

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Analytical Results For:

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

Project: HEIGHT CC 6-7 # 34H
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
30-Dec-19 08:33

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 9122305 - General Prep - Organics**Blank (9122305-BLK1)**

Prepared & Analyzed: 23-Dec-19

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	62.1		mg/kg	50.0		124	41-142			
Surrogate: 1-Chlorooctadecane	66.3		mg/kg	50.0		133	37.6-147			

LCS (9122305-BS1)

Prepared & Analyzed: 23-Dec-19

GRO C6-C10	218	10.0	mg/kg	200		109	76.5-133			
DRO >C10-C28	220	10.0	mg/kg	200		110	72.9-138			
Total TPH C6-C28	438	10.0	mg/kg	400		109	78-132			
Surrogate: 1-Chlorooctane	69.8		mg/kg	50.0		140	41-142			
Surrogate: 1-Chlorooctadecane	71.8		mg/kg	50.0		144	37.6-147			

LCS Dup (9122305-BSD1)

Prepared & Analyzed: 23-Dec-19

GRO C6-C10	201	10.0	mg/kg	200		100	76.5-133	8.26	20.6	
DRO >C10-C28	205	10.0	mg/kg	200		103	72.9-138	6.72	20.6	
Total TPH C6-C28	406	10.0	mg/kg	400		102	78-132	7.48	18	
Surrogate: 1-Chlorooctane	66.8		mg/kg	50.0		134	41-142			
Surrogate: 1-Chlorooctadecane	67.7		mg/kg	50.0		135	37.6-147			

Batch 9122306 - General Prep - Organics**Blank (9122306-BLK1)**

Prepared & Analyzed: 23-Dec-19

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.2		mg/kg	50.0		100	41-142			
Surrogate: 1-Chlorooctadecane	54.0		mg/kg	50.0		108	37.6-147			

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Analytical Results For:

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

Project: HEIGHT CC 6-7 # 34H
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
30-Dec-19 08:33

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 9122306 - General Prep - Organics**LCS (9122306-BS1)**

Prepared & Analyzed: 23-Dec-19

GRO C6-C10	199	10.0	mg/kg	200		99.6	76.5-133			
DRO >C10-C28	198	10.0	mg/kg	200		99.1	72.9-138			
Total TPH C6-C28	397	10.0	mg/kg	400		99.3	78-132			
Surrogate: 1-Chlorooctane	53.4		mg/kg	50.0		107	41-142			
Surrogate: 1-Chlorooctadecane	53.6		mg/kg	50.0		107	37.6-147			

LCS Dup (9122306-BSD1)

Prepared & Analyzed: 23-Dec-19

GRO C6-C10	196	10.0	mg/kg	200		98.2	76.5-133	1.36	20.6	
DRO >C10-C28	197	10.0	mg/kg	200		98.5	72.9-138	0.587	20.6	
Total TPH C6-C28	393	10.0	mg/kg	400		98.4	78-132	0.976	18	
Surrogate: 1-Chlorooctane	53.1		mg/kg	50.0		106	41-142			
Surrogate: 1-Chlorooctadecane	53.6		mg/kg	50.0		107	37.6-147			

Batch 9122620 - General Prep - Organics**Blank (9122620-BLK1)**

Prepared & Analyzed: 26-Dec-19

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	52.5		mg/kg	50.0		105	41-142			
Surrogate: 1-Chlorooctadecane	56.8		mg/kg	50.0		114	37.6-147			

LCS (9122620-BS1)

Prepared & Analyzed: 26-Dec-19

GRO C6-C10	201	10.0	mg/kg	200		100	76.5-133			
DRO >C10-C28	210	10.0	mg/kg	200		105	72.9-138			
Total TPH C6-C28	411	10.0	mg/kg	400		103	78-132			
Surrogate: 1-Chlorooctane	57.8		mg/kg	50.0		116	41-142			
Surrogate: 1-Chlorooctadecane	62.2		mg/kg	50.0		124	37.6-147			

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Analytical Results For:

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: HEIGHT CC 6-7 # 34H Project Number: NONE GIVEN Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 30-Dec-19 08:33
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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 9122620 - General Prep - Organics

LCS Dup (9122620-BSD1)

Prepared & Analyzed: 26-Dec-19

GRO C6-C10	194	10.0	mg/kg	200		97.2	76.5-133	3.26	20.6	
DRO >C10-C28	195	10.0	mg/kg	200		97.3	72.9-138	7.68	20.6	
Total TPH C6-C28	389	10.0	mg/kg	400		97.2	78-132	5.50	18	
Surrogate: 1-Chlorooctane	56.5		mg/kg	50.0		113	41-142			
Surrogate: 1-Chlorooctadecane	60.4		mg/kg	50.0		121	37.6-147			

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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

183



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241 Phone #: 575-397-6388 Fax #: 575-397-0397 Project #: Project Owner: Oxy Project Name: Height CC 6-7 # 34H Project Location: Eddy County, NM Sampler Name: Jeff Ornelas		BILL TO P.O. #: Company: Oxy Wade Attn: Wade Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST									
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Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.			SAMPLING		CI	BTEX	TPH EXT	
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE				TIME
H904260																
1	North @ Surface															
2	East @ Surface															
3	West @ Surface															
4	South @ Surface															
5	SP1 @ Surface															
6	SP1 @ 1'															
7	SP1 @ 2'															
8	SP1 @ 3'															
9	SP1 @ 4'															
10	SP2 @ Surface															

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: 12/13/19 Time: 5:00 pm	Received By: Date: 12-20-19 Time: 12:15	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:
Delivered By: (Circle One) 3.6c Sampler - UPS - Bus - Other: Corrected 4.0c	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) J.O.

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

2073



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST											
Project Manager: Cliff Brunson		P.O. #:													
Address: P.O. Box 805		Company: <i>Oxy Wade</i>													
City: Hobbs State: NM Zip: 88241		Attn:													
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:													
Project #: Project Owner: Oxy		City:													
Project Name: Height CC 6-7 # <i>34 H</i>		State: Zip:													
Project Location: Eddy County, NM		Phone #:													
Sampler Name: Jeff Ornelas		Fax #:													

FOR LAB USE ONLY		G/RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	C1	BTEX	TPH EXT
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:					
<i>H904260</i>																
<i>11</i>	SP2 @ 1'	<i>5</i>										12-13-19	11:22 AM	✓	✓	✓
<i>12</i>	SP2 @ 2'											12-13-19	11:35 AM	✓		
<i>13</i>	SP2 @ 3'											12-13-19	11:51 AM	✓		
<i>14</i>	SP3 @ Surface											12-13-19	11:50 AM	✓	✓	✓
<i>15</i>	SP3 @ 1'											12-13-19	12:50 PM	✓	✓	✓
<i>16</i>	SP3 @ 2'											12-13-19	1:09 PM	✓		
<i>17</i>	SP3 @ 3'											12-13-19	1:22 PM	✓		
<i>18</i>	SP3 @ 4'											12-13-19	1:33 PM	✓		
<i>19</i>	SP4 @ Surface											12-13-19	1:35 PM	✓	✓	✓
<i>20</i>	SP4 @ 1'											12-13-19	1:40 PM	✓	✓	✓

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Relinquished By:	Date: <i>12/13/19</i> Time: <i>5:00 pm</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Date: <i>12-20-19</i> Time: <i>12:15</i>	Received By: <i>[Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) <i>3.6c</i>	Sample Condition	CHECKED BY (Initials)	REMARKS:
Sampler - UPS - Bus - Other: <i>Corrected 4.0c</i>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>JO</i>	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST									
Project Manager: Cliff Brunson		P.O. #:		<div style="display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 2em; font-weight: bold;">C1</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 1.5em; font-weight: bold;">BTEX > added 12/27</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 1.5em; font-weight: bold;">TPH</div> </div>									
Address: P.O. Box 805		Company:											
City: Hobbs State: NM Zip: 88241		Attn:											
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:											
Project #: Project Owner: Oxy		City:											
Project Name: Height CC 6-7 # 344		State: Zip:											
Project Location: Eddy County, NM		Phone #:											
Sampler Name: Jeff Ornelas		Fax #:											
FOR LAB USE ONLY													
Lab I.D.	Sample I.D.	(GRAB OR C/COMP. # CONTAINERS)	MATRIX				PRESERV.		SAMPLING				
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME
H904260		5											
21	SP4 @ 2'	5								12-13-19	1:47 PM	✓	
22	SP4 @ 3'	1		✓						12-13-19	1:57 PM	✓	
23	SP4 @ 4'	1		✓						12-13-19	2:20 PM	✓	

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Delivered By: (Circle One) 3.6c	Sample Condition	CHECKED BY: (Initials)	REMARKS:	
Sampler - UPS - Bus - Other: Corrected 4.0c	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

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