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DELINEATION/REMEDATION WORKPLAN

OXY – HEIGHT CC 6-7 FED COM 31H (Leak Date: 6/20/19)

2RP-5525

This delineation workplan and remediation proposal addresses the releases associated with 2RP-5525.

The following information includes:

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

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

OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP1 – SP3 (LIGHT BLUE shade on diagram) will require zero remediation. The leak area near SP4 (PURPLE shade on diagram) will be excavated to a depth of 1.5 feet. The leak area near SP5 (GREEN shade on diagram) will be excavated to a depth of 3.5 feet. The leak area near SP6, SP7, SP8, and SP11 (YELLOW shade on diagram) will be excavated to a depth of 4 feet. The leak area near SP9 and SP10 (PURPLE shade on diagram) will be excavated to a depth of 2.5 feet.

Bottom and sidewall confirmation samples will be collected every 100 feet. The estimated amount of soil to be excavated is 8,571 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

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Incident ID	
District RP	2RP-5525
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-5525
Facility ID	
Application ID	

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

Printed Name: Wade DittrichTitle: Environmental CoordinatorSignature: Date: 2-10-2020email: wade_dittrich@oxy.comTelephone: (575) 390-2828**OCD Only**

Received by: _____

Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	
District RP	2RP-5525
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

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

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

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

Printed Name: Wade DittrichTitle: Environmental CoordinatorSignature: Wade DittrichDate: 2-10-2020email: wade_dittrich@oxy.comTelephone: (575) 390-2828**OCD Only**

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____

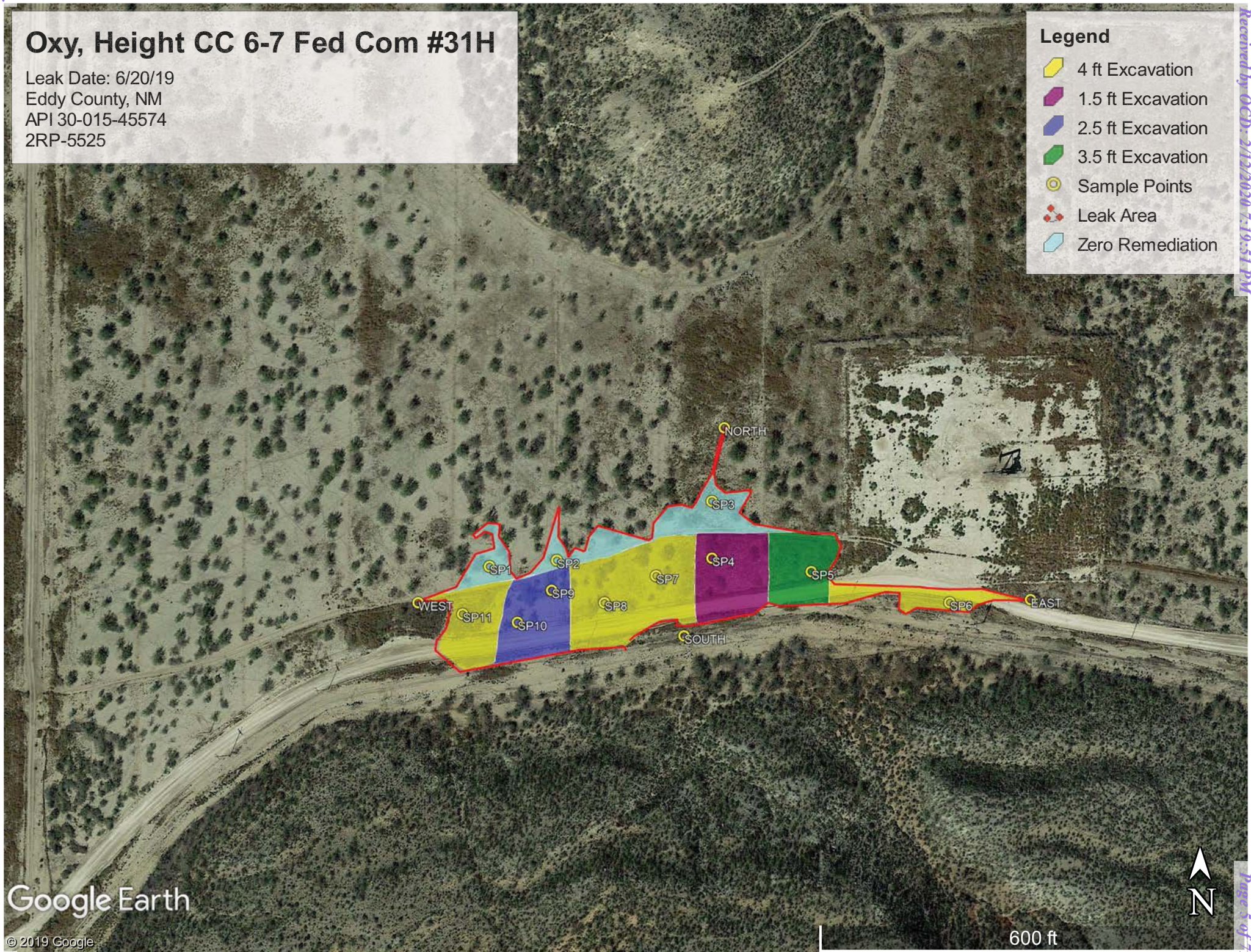
Date: _____

Oxy, Height CC 6-7 Fed Com #31H

Leak Date: 6/20/19
Eddy County, NM
API 30-015-45574
2RP-5525

Legend

- 4 ft Excavation
- 1.5 ft Excavation
- 2.5 ft Excavation
- 3.5 ft Excavation
- Sample Points
- Leak Area
- Zero Remediation



Google Earth

© 2019 Google

600 ft



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Oxy, Height CC 6-7 Fed Com 31H

Sample points

SP1, N 32.24603 W-104.01111

SP2, N 32.24605 W-104.01079

SP3, N 32.24629 W-104.01007

SP4, N 32.24606 W-104.01007

SP5, N 32.24601 W-104.00961

SP6, N 32.24589 W-104.00897

SP7, N 32.24599 W-104.01033

SP8, N 32.24589 W-104.01057

SP9, N 32.24594 W-104.01082

SP10, N 32.24581 W-104.01098

SP11, N 32.24584 W-104.01123

NORTH, N 32.24657 W-104.01002

SOUTH, N 32.24576 W-104.01020

EAST, N 32.24590 W-104.00860

WEST, N 32.24589 W-104.01144

Oxy, Height CC 6-7 Fed Com 31H
U/L K, Section 5, T24S, R29E
Groundwater: 50'-75'





USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

New Mexico

GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321355104012001

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

USGS 321355104012001 24S.29E.07.14444

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

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

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

Explanation

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

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Title: Groundwater for New Mexico: Water Levels

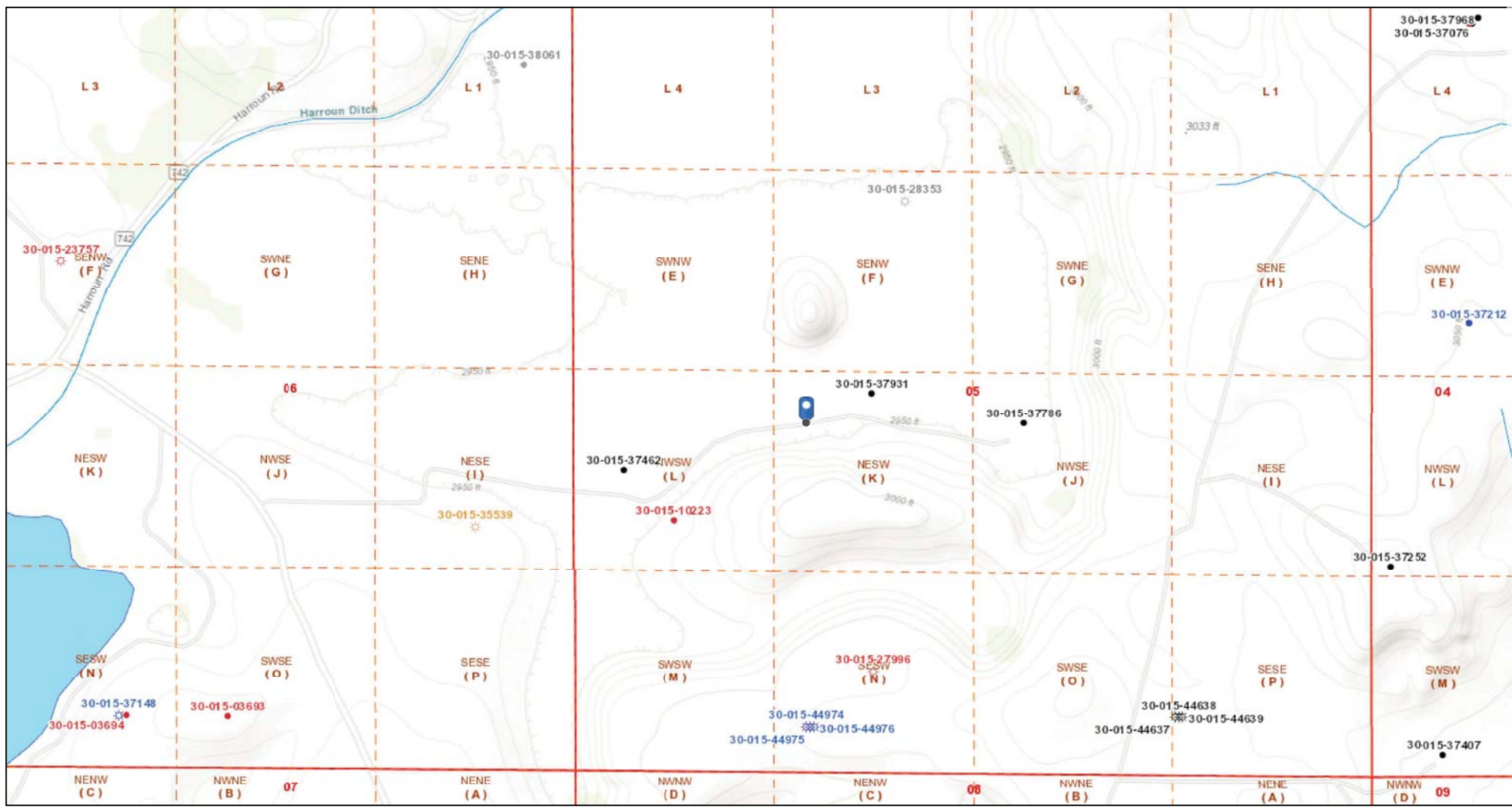
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>

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

Page Last Modified: 2019-09-25 12:31:42 EDT

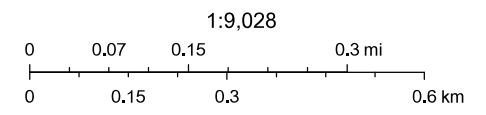
0.53 0.5 nadww02

Oxy, Height CC 6-7 Fed Com #31H, 3,000 ft to h2o



2/10/2020 12:18:25 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,

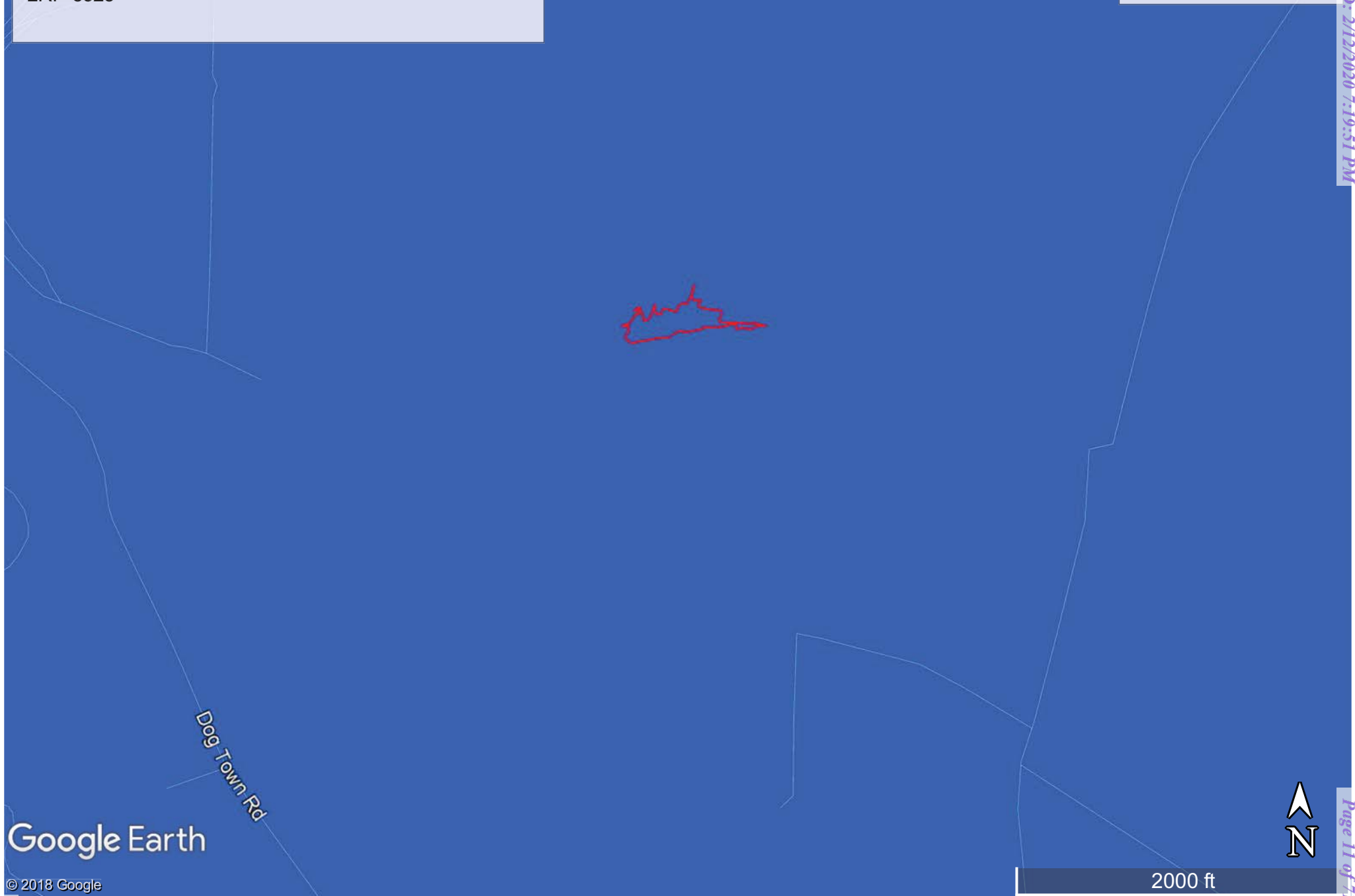
Oxy, Height CC 6-7 Fed Com 31H

Leak date: 6/20/19
Eddy County, NM
2RP-5525

BLM CAVE KARST MAP

Legend

-  Leak area
-  Medium potential



Google Earth

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National Flood Hazard Layer FIRMette



32°15'0.42"N



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

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

32°14'29.99"N

Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/25/2019 at 1:24:05 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.

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		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	11/4/19	11/4/19	11/4/19	11/4/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32	32	32	32
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'
Analyte	Method	Date	11/4/19	11/4/19	11/4/19
			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		32	16	32
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	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	11/4/19	11/4/19	11/4/19
			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	16	32
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	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	11/4/19	11/4/19	11/4/19
			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		32	16	64
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

Laboratory Analytical Results Summary
Height CC 6-7 Fed Com 31H (6/20/19)

		Sample ID	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	11/5/19	11/5/19	11/5/19	11/5/19
			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		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		32000	1490	32	128
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	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'	SP5 @ 5'
Analyte	Method	Date	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		29600	7600	864	640	32	48
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a

		Sample ID	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'	SP6 @ 5'	SP6 @ 6'	SP6 @ 7'	SP6 @ 8'
Analyte	Method	Date	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		44000	3520	3480	2960	2240	1150	48	32	32
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a

		Sample ID	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'	SP7 @ 5'	SP7 @ 6'	SP7 @ 7'	SP7 @ 8'
Analyte	Method	Date	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/5/19	11/6/19	11/6/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		32000	10400	8130	4480	2680	1940	1820	1070	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Laboratory Analytical Results Summary
Height CC 6-7 Fed Com 31H (6/20/19)

		Sample ID	SP8 @ SURFACE	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'	SP8 @ 4'	SP8 @ 5'	SP8 @ 6'	SP8 @ 7'
Analyte	Method	Date	11/5/19	11/5/19	11/5/19	11/6/19	11/6/19	11/11/19	11/11/19	11/11/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		95200	4320	2440	3040	2880	3040	2100	1650
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		89.4	<10.0	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		28.3	<10.0	n/a	n/a	n/a	n/a	n/a	n/a

		Sample ID	SP9 @ SURFACE	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'	SP9 @ 4'
Analyte	Method	Date	11/11/19	11/11/19	11/11/19	11/11/19	11/12/19
			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	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		9330	1660	1200	448	432
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a

		Sample ID	SP10 @ SURFACE	SP10 @ 1'	SP10 @ 2'	SP10 @ 3'
Analyte	Method	Date	11/12/19	11/12/19	11/12/19	11/12/19
			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		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		13200	1650	560	352
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	SP11 @ SURFACE	SP11 @ 1'	SP11 @ 2'	SP11 @ 3'
Analyte	Method	Date	11/12/19	11/12/19	11/12/19	11/12/19
			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		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		8660	1710	1500	624
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



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

November 13, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: HEIGHT CC 6-7 FED COM 31H

Enclosed are the results of analyses for samples received by the laboratory on 11/11/19 12:17.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/11/2019	Sampling Date:	11/04/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: NORTH @ SURFACE (H903814-01)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2019	ND	1.83	91.6	2.00	5.00	
Toluene*	<0.050	0.050	11/11/2019	ND	1.84	92.0	2.00	4.31	
Ethylbenzene*	<0.050	0.050	11/11/2019	ND	1.88	93.9	2.00	4.36	
Total Xylenes*	<0.150	0.150	11/11/2019	ND	5.61	93.5	6.00	4.28	
Total BTEX	<0.300	0.300	11/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/12/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2019	ND	203	101	200	0.541	
DRO >C10-C28*	<10.0	10.0	11/11/2019	ND	209	105	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	11/11/2019	ND					

Surrogate: 1-Chlorooctane 97.6 % 41-142

Surrogate: 1-Chlorooctadecane 98.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/11/2019	Sampling Date:	11/04/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: EAST @ SURFACE (H903814-02)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2019	ND	1.83	91.6	2.00	5.00	
Toluene*	<0.050	0.050	11/11/2019	ND	1.84	92.0	2.00	4.31	
Ethylbenzene*	<0.050	0.050	11/11/2019	ND	1.88	93.9	2.00	4.36	
Total Xylenes*	<0.150	0.150	11/11/2019	ND	5.61	93.5	6.00	4.28	
Total BTX	<0.300	0.300	11/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/12/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2019	ND	203	101	200	0.541	
DRO >C10-C28*	<10.0	10.0	11/11/2019	ND	209	105	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	11/11/2019	ND					

Surrogate: 1-Chlorooctane 97.0 % 41-142

Surrogate: 1-Chlorooctadecane 97.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/11/2019	Sampling Date:	11/04/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: WEST @ SURFACE (H903814-03)

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2019	ND	1.83	91.6	2.00	5.00		
Toluene*	<0.050	0.050	11/11/2019	ND	1.84	92.0	2.00	4.31		
Ethylbenzene*	<0.050	0.050	11/11/2019	ND	1.88	93.9	2.00	4.36		
Total Xylenes*	<0.150	0.150	11/11/2019	ND	5.61	93.5	6.00	4.28		
Total BTX	<0.300	0.300	11/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/12/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2019	ND	203	101	200	0.541	
DRO >C10-C28*	<10.0	10.0	11/11/2019	ND	209	105	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	11/11/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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Received:	11/11/2019	Sampling Date:	11/04/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SOUTH @ SURFACE (H903814-04)

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2019	ND	1.83	91.6	2.00	5.00		
Toluene*	<0.050	0.050	11/11/2019	ND	1.84	92.0	2.00	4.31		
Ethylbenzene*	<0.050	0.050	11/11/2019	ND	1.88	93.9	2.00	4.36		
Total Xylenes*	<0.150	0.150	11/11/2019	ND	5.61	93.5	6.00	4.28		
Total BTX	<0.300	0.300	11/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/12/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2019	ND	203	101	200	0.541	
DRO >C10-C28*	<10.0	10.0	11/11/2019	ND	209	105	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	11/11/2019	ND					

Surrogate: 1-Chlorooctane 98.8 % 41-142

Surrogate: 1-Chlorooctadecane 99.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 Cliff Brunson
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 Fax To: (575) 397-0397

Received:	11/11/2019	Sampling Date:	11/04/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 1 @ SURFACE (H903814-05)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2019	ND	1.83	91.6	2.00	5.00		
Toluene*	<0.050	0.050	11/11/2019	ND	1.84	92.0	2.00	4.31		
Ethylbenzene*	<0.050	0.050	11/11/2019	ND	1.88	93.9	2.00	4.36		
Total Xylenes*	<0.150	0.150	11/11/2019	ND	5.61	93.5	6.00	4.28		
Total BTEX	<0.300	0.300	11/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/12/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2019	ND	203	101	200	0.541	
DRO >C10-C28*	<10.0	10.0	11/11/2019	ND	209	105	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	11/11/2019	ND					

Surrogate: 1-Chlorooctane 92.7 % 41-142

Surrogate: 1-Chlorooctadecane 94.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 Cliff Brunson
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 Fax To: (575) 397-0397

Received:	11/11/2019	Sampling Date:	11/04/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 1 @ 1' (H903814-06)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2019	ND	1.79	89.7	2.00	1.84		
Toluene*	<0.050	0.050	11/12/2019	ND	1.80	89.9	2.00	1.65		
Ethylbenzene*	<0.050	0.050	11/12/2019	ND	1.82	90.9	2.00	1.61		
Total Xylenes*	<0.150	0.150	11/12/2019	ND	5.44	90.7	6.00	1.64		
Total BTX	<0.300	0.300	11/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/12/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2019	ND	196	97.9	200	0.299	
DRO >C10-C28*	<10.0	10.0	11/12/2019	ND	193	96.7	200	0.298	
EXT DRO >C28-C36	<10.0	10.0	11/12/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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Received:	11/11/2019	Sampling Date:	11/04/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 1 @ 2' (H903814-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/12/2019	ND	416	104	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/11/2019	Sampling Date:	11/04/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 2 @ SURFACE (H903814-08)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2019	ND	1.79	89.7	2.00	1.84		
Toluene*	<0.050	0.050	11/12/2019	ND	1.80	89.9	2.00	1.65		
Ethylbenzene*	<0.050	0.050	11/12/2019	ND	1.82	90.9	2.00	1.61		
Total Xylenes*	<0.150	0.150	11/12/2019	ND	5.44	90.7	6.00	1.64		
Total BTX	<0.300	0.300	11/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/12/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2019	ND	196	97.9	200	0.299	
DRO >C10-C28*	<10.0	10.0	11/12/2019	ND	193	96.7	200	0.298	
EXT DRO >C28-C36	<10.0	10.0	11/12/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Analytical Results For:

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

Received:	11/11/2019	Sampling Date:	11/04/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 2 @ 1' (H903814-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2019	ND	1.79	89.7	2.00	1.84		
Toluene*	<0.050	0.050	11/12/2019	ND	1.80	89.9	2.00	1.65		
Ethylbenzene*	<0.050	0.050	11/12/2019	ND	1.82	90.9	2.00	1.61		
Total Xylenes*	<0.150	0.150	11/12/2019	ND	5.44	90.7	6.00	1.64		
Total BTEX	<0.300	0.300	11/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/12/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2019	ND	196	97.9	200	0.299	
DRO >C10-C28*	<10.0	10.0	11/12/2019	ND	193	96.7	200	0.298	
EXT DRO >C28-C36	<10.0	10.0	11/12/2019	ND					

Surrogate: 1-Chlorooctane 96.3 % 41-142

Surrogate: 1-Chlorooctadecane 96.6 % 37.6-147

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Analytical Results For:

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

Received:	11/11/2019	Sampling Date:	11/04/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 2 @ 2' (H903814-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/12/2019	ND	416	104	400	3.77		

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Received:	11/11/2019	Sampling Date:	11/04/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 3 @ SURFACE (H903814-11)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2019	ND	1.79	89.7	2.00	1.84		
Toluene*	<0.050	0.050	11/12/2019	ND	1.80	89.9	2.00	1.65		
Ethylbenzene*	<0.050	0.050	11/12/2019	ND	1.82	90.9	2.00	1.61		
Total Xylenes*	<0.150	0.150	11/12/2019	ND	5.44	90.7	6.00	1.64		
Total BTX	<0.300	0.300	11/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/12/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2019	ND	196	97.9	200	0.299	
DRO >C10-C28*	<10.0	10.0	11/12/2019	ND	193	96.7	200	0.298	
EXT DRO >C28-C36	<10.0	10.0	11/12/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	11/11/2019	Sampling Date:	11/04/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 3 @ 1' (H903814-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2019	ND	1.79	89.7	2.00	1.84		
Toluene*	<0.050	0.050	11/12/2019	ND	1.80	89.9	2.00	1.65		
Ethylbenzene*	<0.050	0.050	11/12/2019	ND	1.82	90.9	2.00	1.61		
Total Xylenes*	<0.150	0.150	11/12/2019	ND	5.44	90.7	6.00	1.64		
Total BTEX	<0.300	0.300	11/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/12/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2019	ND	196	97.9	200	0.299	
DRO >C10-C28*	<10.0	10.0	11/12/2019	ND	193	96.7	200	0.298	
EXT DRO >C28-C36	<10.0	10.0	11/12/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Analytical Results For:

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

Received:	11/11/2019	Sampling Date:	11/04/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 3 @ 2' (H903814-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/12/2019	ND	416	104	400	3.77	

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Analytical Results For:

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

Received:	11/11/2019	Sampling Date:	11/05/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 4 @ SURFACE (H903814-14)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2019	ND	1.79	89.7	2.00	1.84		
Toluene*	<0.050	0.050	11/12/2019	ND	1.80	89.9	2.00	1.65		
Ethylbenzene*	<0.050	0.050	11/12/2019	ND	1.82	90.9	2.00	1.61		
Total Xylenes*	<0.150	0.150	11/12/2019	ND	5.44	90.7	6.00	1.64		
Total BTX	<0.300	0.300	11/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32000	16.0	11/12/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2019	ND	196	97.9	200	0.299	
DRO >C10-C28*	<10.0	10.0	11/12/2019	ND	193	96.7	200	0.298	
EXT DRO >C28-C36	<10.0	10.0	11/12/2019	ND					

Surrogate: 1-Chlorooctane 92.3 % 41-142

Surrogate: 1-Chlorooctadecane 93.9 % 37.6-147

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Analytical Results For:

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

Received:	11/11/2019	Sampling Date:	11/05/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 4 @ 1' (H903814-15)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2019	ND	1.79	89.7	2.00	1.84		
Toluene*	<0.050	0.050	11/12/2019	ND	1.80	89.9	2.00	1.65		
Ethylbenzene*	<0.050	0.050	11/12/2019	ND	1.82	90.9	2.00	1.61		
Total Xylenes*	<0.150	0.150	11/12/2019	ND	5.44	90.7	6.00	1.64		
Total BTX	<0.300	0.300	11/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	11/12/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2019	ND	196	97.9	200	0.299	
DRO >C10-C28*	<10.0	10.0	11/12/2019	ND	193	96.7	200	0.298	
EXT DRO >C28-C36	<10.0	10.0	11/12/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Analytical Results For:

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 Cliff Brunson
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 Fax To: (575) 397-0397

Received:	11/11/2019	Sampling Date:	11/05/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 4 @ 2' (H903814-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/12/2019	ND	416	104	400	3.77		

Sample ID: SP 4 @ 3' (H903814-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/12/2019	ND	416	104	400	3.77	

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Received:	11/11/2019	Sampling Date:	11/05/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 5 @ SURFACE (H903814-18)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2019	ND	1.79	89.7	2.00	1.84		
Toluene*	<0.050	0.050	11/12/2019	ND	1.80	89.9	2.00	1.65		
Ethylbenzene*	<0.050	0.050	11/12/2019	ND	1.82	90.9	2.00	1.61		
Total Xylenes*	<0.150	0.150	11/12/2019	ND	5.44	90.7	6.00	1.64		
Total BTX	<0.300	0.300	11/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	29600	16.0	11/12/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2019	ND	196	97.9	200	0.299	
DRO >C10-C28*	<10.0	10.0	11/12/2019	ND	193	96.7	200	0.298	
EXT DRO >C28-C36	<10.0	10.0	11/12/2019	ND					

Surrogate: 1-Chlorooctane 99.2 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/11/2019	Sampling Date:	11/05/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 5 @ 1' (H903814-19)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2019	ND	1.79	89.7	2.00	1.84		
Toluene*	<0.050	0.050	11/12/2019	ND	1.80	89.9	2.00	1.65		
Ethylbenzene*	<0.050	0.050	11/12/2019	ND	1.82	90.9	2.00	1.61		
Total Xylenes*	<0.150	0.150	11/12/2019	ND	5.44	90.7	6.00	1.64		
Total BTX	<0.300	0.300	11/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7600	16.0	11/12/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2019	ND	196	97.9	200	0.299	
DRO >C10-C28*	<10.0	10.0	11/12/2019	ND	193	96.7	200	0.298	
EXT DRO >C28-C36	<10.0	10.0	11/12/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/11/2019	Sampling Date:	11/05/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 5 @ 2' (H903814-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	11/12/2019	ND	416	104	400	3.77		

Sample ID: SP 5 @ 3' (H903814-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	11/12/2019	ND	416	104	400	3.77		

Sample ID: SP 5 @ 4' (H903814-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/12/2019	ND	416	104	400	3.77	

Sample ID: SP 5 @ 5' (H903814-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/12/2019	ND	416	104	400	3.77	

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Analytical Results For:

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

Received:	11/11/2019	Sampling Date:	11/05/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 6 @ SURFACE (H903814-24)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2019	ND	1.79	89.7	2.00	1.84		
Toluene*	<0.050	0.050	11/12/2019	ND	1.80	89.9	2.00	1.65		
Ethylbenzene*	<0.050	0.050	11/12/2019	ND	1.82	90.9	2.00	1.61		
Total Xylenes*	<0.150	0.150	11/12/2019	ND	5.44	90.7	6.00	1.64		
Total BTX	<0.300	0.300	11/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	44000	16.0	11/12/2019	ND	416	104	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2019	ND	196	97.9	200	0.299	
DRO >C10-C28*	<10.0	10.0	11/12/2019	ND	193	96.7	200	0.298	
EXT DRO >C28-C36	<10.0	10.0	11/12/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Analytical Results For:

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

Received:	11/11/2019	Sampling Date:	11/05/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 6 @ 1' (H903814-25)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2019	ND	1.79	89.7	2.00	1.84		
Toluene*	<0.050	0.050	11/12/2019	ND	1.80	89.9	2.00	1.65		
Ethylbenzene*	<0.050	0.050	11/12/2019	ND	1.82	90.9	2.00	1.61		
Total Xylenes*	<0.150	0.150	11/12/2019	ND	5.44	90.7	6.00	1.64		
Total BTX	<0.300	0.300	11/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	11/12/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2019	ND	196	97.9	200	0.299	
DRO >C10-C28*	<10.0	10.0	11/12/2019	ND	193	96.7	200	0.298	
EXT DRO >C28-C36	<10.0	10.0	11/12/2019	ND					

Surrogate: 1-Chlorooctane 98.6 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/11/2019	Sampling Date:	11/05/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 6 @ 2' (H903814-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3480	16.0	11/12/2019	ND	416	104	400	3.77		

Sample ID: SP 6 @ 3' (H903814-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2960	16.0	11/12/2019	ND	416	104	400	3.77		

Sample ID: SP 6 @ 4' (H903814-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	11/12/2019	ND	416	104	400	3.77	

Sample ID: SP 6 @ 5' (H903814-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	11/12/2019	ND	416	104	400	3.77		

Sample ID: SP 6 @ 6' (H903814-30)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/12/2019	ND	416	104	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/11/2019	Sampling Date:	11/05/2019
Reported:	11/13/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Jodi Henson
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 6 @ 7' (H903814-31)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/12/2019	ND	416	104	400	3.77		

Sample ID: SP 6 @ 8' (H903814-32)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/12/2019	ND	416	104	400	3.77		

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Notes and Definitions

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

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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 4

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Relinquished By: <i>V. Amelas</i>		Date: <i>11/5/19</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: <i>5:30pm</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date: <i>11/11/19</i>	Received By: <i>Jodi Benson</i>	REMARKS:	
		Time: <i>12:17</i>			
Delivered By: (Circle One) <i>1.4</i>		Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other: <i>3.5% / 3.9% #97</i>		Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		(Initials) <i>GB</i>	

Received by *OCD*: 2/12/2020 7:19:51 PM

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2084

Company Name: BBC International, Inc.				BILL TO		ANALYSIS REQUEST																													
Project Manager: Cliff Brunson				P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>CI</div> <div>BTX</div> <div>TPHXT</div> </div>																													
Address: P.O. Box 805				Company: Oxy																															
City: Hobbs		State: NM		Zip: 88241														Attn: W. Strick																	
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																															
Project #:		Project Owner: Oxy		City:																															
Project Name: Height CC 6-7 Fed Com 31H (6/20/19)				State:														Zip:																	
Project Location: Eddy County, NM				Phone #:																															
Sampler Name: Jeff Ornelas				Fax #:																															
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME																					
H903814																																			
11	SP3 @ SURFACE					✓					✓		11/4/19	12:12 PM	✓	✓	✓																		
12	SP3 @ 1'												11/4/19	1:11 PM	✓	✓	✓																		
13	SP3 @ 2'												11/4/19	1:40 PM	✓																				
14	SP4 @ SURFACE												11/5/19	8:45 AM	✓	✓	✓																		
15	SP4 @ 1'												11/5/19	9:09 AM	✓	✓	✓																		
16	SP4 @ 2'												11/5/19	9:30 AM	✓																				
17	SP4 @ 3'												11/5/19	9:47 AM	✓																				
18	SP5 @ SURFACE												11/5/19	9:51 AM	✓	✓	✓																		
19	SP5 @ 1'												11/5/19	10:01 AM	✓	✓	✓																		
20	SP5 @ 2'												11/5/19	10:19 AM	✓																				

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Relinquished By: Jeff Ornelas	Date: 11/15/19	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 5:30pm		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 11/11/19	Received By: Jodi Benson	REMARKS:	
	Time: 12:17			
Delivered By: (Circle One) +1.4	#97	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: 35°C / 39°C		Cool Intact		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3084

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																										
Project Manager: Cliff Brunson				P.O. #:																														
Address: P.O. Box 805				Company: <i>Oxy</i>																														
City: Hobbs State: NM Zip: 88241				Attn: <i>W. Dittich</i>																														
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																														
Project #: Project Owner: Oxy				City:																														
Project Name: Height CC 6-7 Fed Com 31H (6/20/19)				State: Zip:																														
Project Location: Eddy County, NM				Phone #:																														
Sampler Name: Jeff Ornelas				Fax #:																														
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME																				
<i>H903814</i>																																		
<i>21</i>	SP5 @ 3'	<i>G</i>	<i>1</i>			<i>✓</i>				<i>✓</i>			11/5/19	10:39 AM	<i>✓</i>																			
<i>22</i>	SP5 @ 4'												11/5/19	10:58 AM	<i>✓</i>																			
<i>23</i>	SP5 @ 5'												11/5/19	11:19 AM	<i>✓</i>																			
<i>24</i>	SP6 @ SURFACE												11/5/19	11:30 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>																	
<i>25</i>	SP6 @ 1'												11/5/19	11:44 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>																	
<i>26</i>	SP6 @ 2'												11/5/19	11:59 AM	<i>✓</i>																			
<i>27</i>	SP6 @ 3'												11/5/19	12:50 PM	<i>✓</i>																			
<i>28</i>	SP6 @ 4'												11/5/19	1:15 PM	<i>✓</i>																			
<i>29</i>	SP6 @ 5'												11/5/19	1:43 PM	<i>✓</i>																			
<i>30</i>	SP6 @ 6'												11/5/19	2:09 PM	<i>✓</i>																			

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Relinquished By:	Date: <i>11/5/19</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Jeff Ornelas</i>	Time: <i>5:30pm</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: <i>11/11/19</i>	Received By:	REMARKS:	
	Time: <i>12:17</i>	<i>Jodi Benson</i>		
Delivered By: (Circle One) <i>+4</i>	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: <i>3.5% / 3.9% #97</i>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) <i>JS</i>		

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

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4 of 4

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																							
Project Manager: Cliff Brunson				P.O. #:																											
Address: P.O. Box 805				Company: <i>Oxy</i>																											
City: Hobbs		State: NM		Zip: 88241		Attn: <i>W. D. H. H. H.</i>																									
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																											
Project #:		Project Owner: Oxy		City:																											
Project Name: Height CC 6-7 Fed Com 31H (6/20/19)				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)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																			
				GROUNDWATER				WASTEWATER																							
				SOIL				OIL																							
				SLUDGE				OTHER :																							
				ACID/BASE:				ICE / COOL																							
				OTHER :																											
				DATE		TIME																									
<i>H903814</i>				<i>31</i>		SP6 @ 7'		<i>G</i>								11/5/19		2:33 PM		✓											
<i>32</i>				<i>32</i>		SP6 @ 8'		<i>G</i>								11/5/19		3:01 PM		✓											

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Relinquished By: <i>Jeff Ornelas</i>	Date: <i>11/5/19</i> Time: <i>5:30pm</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: <i>11/11/19</i> Time: <i>12:17</i>	Received By: <i>Jodi Benson</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) <i>+4</i>			REMARKS:	
Sampler - UPS - Bus - Other: <i>3.52 / 3.92 #97</i>				
Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			CHECKED BY: <i>[Signature]</i> (Initials)	

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



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

November 20, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: HEIGHT CC 6-7 FED COM 31H

Enclosed are the results of analyses for samples received by the laboratory on 11/15/19 16:52.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/15/2019	Sampling Date:	11/05/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Celey D. Keene
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 7 @ SURFACE (H903898-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.80	90.2	2.00	0.0904	
Toluene*	<0.050	0.050	11/19/2019	ND	1.81	90.3	2.00	0.912	
Ethylbenzene*	<0.050	0.050	11/19/2019	ND	1.82	90.9	2.00	0.137	
Total Xylenes*	<0.150	0.150	11/19/2019	ND	5.47	91.2	6.00	0.272	
Total BTEX	<0.300	0.300	11/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32000	16.0	11/20/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	190	95.1	200	0.292	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	193	96.4	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/15/2019	Sampling Date:	11/05/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Celey D. Keene
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 7 @ 1' (H903898-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.80	90.2	2.00	0.0904	
Toluene*	<0.050	0.050	11/19/2019	ND	1.81	90.3	2.00	0.912	
Ethylbenzene*	<0.050	0.050	11/19/2019	ND	1.82	90.9	2.00	0.137	
Total Xylenes*	<0.150	0.150	11/19/2019	ND	5.47	91.2	6.00	0.272	
Total BTX	<0.300	0.300	11/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	11/20/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	190	95.1	200	0.292	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	193	96.4	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/15/2019	Sampling Date:	11/05/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Celey D. Keene
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 7 @ 2' (H903898-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8130	16.0	11/20/2019	ND	416	104	400	3.77		

Sample ID: SP 7 @ 3' (H903898-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4480	16.0	11/20/2019	ND	416	104	400	3.77		

Sample ID: SP 7 @ 4' (H903898-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	11/20/2019	ND	416	104	400	3.77		

Sample ID: SP 7 @ 5' (H903898-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1940	16.0	11/20/2019	ND	416	104	400	3.77		

Sample ID: SP 7 @ 6' (H903898-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1820	16.0	11/20/2019	ND	416	104	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/15/2019	Sampling Date:	11/06/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Celey D. Keene
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 7 @ 7' (H903898-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	11/20/2019	ND	416	104	400	3.77		

Sample ID: SP 7 @ 8' (H903898-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/20/2019	ND	416	104	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/15/2019	Sampling Date:	11/05/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Celey D. Keene
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 8 @ SURFACE (H903898-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.80	90.2	2.00	0.0904	
Toluene*	<0.050	0.050	11/19/2019	ND	1.81	90.3	2.00	0.912	
Ethylbenzene*	<0.050	0.050	11/19/2019	ND	1.82	90.9	2.00	0.137	
Total Xylenes*	<0.150	0.150	11/19/2019	ND	5.47	91.2	6.00	0.272	
Total BTX	<0.300	0.300	11/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	95200	16.0	11/20/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	190	95.1	200	0.292	
DRO >C10-C28*	89.4	10.0	11/19/2019	ND	193	96.4	200	1.89	
EXT DRO >C28-C36	28.3	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 128 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/15/2019	Sampling Date:	11/05/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Celey D. Keene
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 8 @ 1' (H903898-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2019	ND	1.80	90.2	2.00	0.0904	
Toluene*	<0.050	0.050	11/19/2019	ND	1.81	90.3	2.00	0.912	
Ethylbenzene*	<0.050	0.050	11/19/2019	ND	1.82	90.9	2.00	0.137	
Total Xylenes*	<0.150	0.150	11/19/2019	ND	5.47	91.2	6.00	0.272	
Total BTX	<0.300	0.300	11/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	11/20/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	190	95.1	200	0.292	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	193	96.4	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 111 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/15/2019	Sampling Date:	11/05/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Celey D. Keene
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 8 @ 2' (H903898-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	11/20/2019	ND	416	104	400	3.77		

Sample ID: SP 8 @ 3' (H903898-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	11/20/2019	ND	416	104	400	3.77		

Sample ID: SP 8 @ 4' (H903898-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2880	16.0	11/20/2019	ND	416	104	400	3.77		

Sample ID: SP 8 @ 5' (H903898-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	11/20/2019	ND	416	104	400	3.77		

Sample ID: SP 8 @ 6' (H903898-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2100	16.0	11/20/2019	ND	416	104	400	3.77		

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Analytical Results For:

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

Received:	11/15/2019	Sampling Date:	11/11/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Celey D. Keene
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 8 @ 7' (H903898-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1650	16.0	11/20/2019	ND	416	104	400	3.77		

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

Received:	11/15/2019	Sampling Date:	11/11/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Celey D. Keene
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 9 @ SURFACE (H903898-18)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2019	ND	1.80	90.1	2.00	2.37		
Toluene*	<0.050	0.050	11/20/2019	ND	1.78	89.1	2.00	2.44		
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1.82	90.8	2.00	2.24		
Total Xylenes*	<0.150	0.150	11/20/2019	ND	5.46	91.0	6.00	2.79		
Total BTX	<0.300	0.300	11/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9330	16.0	11/20/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	190	95.1	200	0.292	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	193	96.4	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Analytical Results For:

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

Received:	11/15/2019	Sampling Date:	11/11/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Celey D. Keene
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 9 @ 1' (H903898-19)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2019	ND	1.80	90.1	2.00	2.37		
Toluene*	<0.050	0.050	11/20/2019	ND	1.78	89.1	2.00	2.44		
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1.82	90.8	2.00	2.24		
Total Xylenes*	<0.150	0.150	11/20/2019	ND	5.46	91.0	6.00	2.79		
Total BTX	<0.300	0.300	11/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1660	16.0	11/20/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	190	95.1	200	0.292	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	193	96.4	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 123 % 37.6-147

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Analytical Results For:

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

Received:	11/15/2019	Sampling Date:	11/11/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Celey D. Keene
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 9 @ 2' (H903898-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	11/20/2019	ND	416	104	400	3.77		

Sample ID: SP 9 @ 3' (H903898-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	11/20/2019	ND	416	104	400	3.77		

Sample ID: SP 9 @ 4' (H903898-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	11/20/2019	ND	416	104	400	0.00	

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Received:	11/15/2019	Sampling Date:	11/12/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Celey D. Keene
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 10 @ SURFACE (H903898-23)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2019	ND	1.80	90.1	2.00	2.37		
Toluene*	<0.050	0.050	11/20/2019	ND	1.78	89.1	2.00	2.44		
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1.82	90.8	2.00	2.24		
Total Xylenes*	<0.150	0.150	11/20/2019	ND	5.46	91.0	6.00	2.79		
Total BTX	<0.300	0.300	11/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13200	16.0	11/20/2019	ND	416	104	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	190	95.1	200	0.292	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	193	96.4	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

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Analytical Results For:

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

Received:	11/15/2019	Sampling Date:	11/12/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Celey D. Keene
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 10 @ 1' (H903898-24)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2019	ND	1.80	90.1	2.00	2.37		
Toluene*	<0.050	0.050	11/20/2019	ND	1.78	89.1	2.00	2.44		
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1.82	90.8	2.00	2.24		
Total Xylenes*	<0.150	0.150	11/20/2019	ND	5.46	91.0	6.00	2.79		
Total BTX	<0.300	0.300	11/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1650	16.0	11/20/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	190	95.1	200	0.292	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	193	96.4	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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Analytical Results For:

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

Received:	11/15/2019	Sampling Date:	11/12/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Celey D. Keene
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 10 @ 2' (H903898-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	11/20/2019	ND	416	104	400	0.00		

Sample ID: SP 10 @ 3' (H903898-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	11/20/2019	ND	416	104	400	0.00	

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Received:	11/15/2019	Sampling Date:	11/12/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Celey D. Keene
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 11 @ SURFACE (H903898-27)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2019	ND	1.80	90.1	2.00	2.37		
Toluene*	<0.050	0.050	11/20/2019	ND	1.78	89.1	2.00	2.44		
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1.82	90.8	2.00	2.24		
Total Xylenes*	<0.150	0.150	11/20/2019	ND	5.46	91.0	6.00	2.79		
Total BTX	<0.300	0.300	11/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8660	16.0	11/20/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	190	95.1	200	0.292	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	193	96.4	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 98.7 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	11/15/2019	Sampling Date:	11/12/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Celey D. Keene
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 11 @ 1' (H903898-28)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2019	ND	1.80	90.1	2.00	2.37	
Toluene*	<0.050	0.050	11/20/2019	ND	1.78	89.1	2.00	2.44	
Ethylbenzene*	<0.050	0.050	11/20/2019	ND	1.82	90.8	2.00	2.24	
Total Xylenes*	<0.150	0.150	11/20/2019	ND	5.46	91.0	6.00	2.79	
Total BTX	<0.300	0.300	11/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	11/20/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/19/2019	ND	190	95.1	200	0.292	
DRO >C10-C28*	<10.0	10.0	11/19/2019	ND	193	96.4	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	11/19/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

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 Fax To: (575) 397-0397

Received:	11/15/2019	Sampling Date:	11/12/2019
Reported:	11/20/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-20-19	Sample Received By:	Celey D. Keene
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 11 @ 2' (H903898-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1500	16.0	11/20/2019	ND	416	104	400	0.00		

Sample ID: SP 11 @ 3' (H903898-30)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	11/20/2019	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager



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Received by OCD: 2/12/2020 7:19:51 PM

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

[illegible]

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Relinquished By: <i>Simon Kendon</i> Date: <i>11/21/9</i> Time: <i>5:00p</i>		Received By: <i>[Signature]</i> Date: <i>11/21/9</i> Time: <i>5:00p</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Add'l Fax #: REMARKS: 	
Relinquished By: <i>[Signature]</i> Date: <i>11/25/9</i> Time: <i>6:52</i>		Received By: <i>Celine Keene</i> Date: <i>11/25/9</i> Time: <i>6:52</i>			
Delivered By: (Circle One) <i>0.0</i> Sampler - UPS - Bus - Other: <i>corrected 0.4%</i>		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials) <i>cpk # 9</i>	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST												
Project Manager: Cliff Brunson				P.O. #:																
Address: P.O. Box 805				Company: <i>Oxy</i>																
City: Hobbs		State: NM Zip: 88241		Attn: <i>Bittich</i>																
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																
Project #:		Project Owner: Oxy		City:																
Project Name: Height CC 6-7 Fed Com 31H (6/20/19)				State: Zip:																
Project Location: Eddy County, NM				Phone #:																
Sampler Name: Simon Rendon				Fax #:																
FOR LAB USE ONLY																				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING		<i>U</i> <i>BTEX</i> <i>TPH/EXT</i>									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:							ICE / COOL	OTHER :	DATE	TIME
<i>H103898</i>																				
<i>21</i>	SP9 @ 3'	<i>G</i>	<i>1</i>			<i>✓</i>											<i>✓</i>		11/11/19	2:20 PM
<i>22</i>	SP9 @ 4'																		11/12/19	9:35 AM
<i>23</i>	SP10 @ SURFACE																		11/12/19	10:00 AM
<i>24</i>	SP10 @ 1'																		11/12/19	10:25 AM
<i>25</i>	SP10 @ 2'																		11/12/19	10:50 AM
<i>26</i>	SP10 @ 3'																		11/12/19	11:15 AM
<i>27</i>	SP11 @ SURFACE																		11/12/19	11:45 AM
<i>28</i>	SP11 @ 1'																		11/12/19	12:40 PM
<i>29</i>	SP11 @ 2'																		11/12/19	1:05 PM
<i>30</i>	SP11 @ 3'												11/12/19	1:35 PM						

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Relinquished By:	Date: <i>11/12/19</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Simon Rendon</i>	Time: <i>5:00 PM</i>	<i>[Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: <i>11/15/19</i>	Received By:	REMARKS:	
<i>[Signature]</i>	Time: <i>10:52</i>	<i>[Signature]</i>		
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact	(Initials)		
<i>corrected 0.4°C</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>Cph #97</i>		
	<input type="checkbox"/> No <input type="checkbox"/> No			

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December 27, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: HEIGHT CC 6-7 #31H

Enclosed are the results of analyses for samples received by the laboratory on 12/20/19 16:25.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/20/2019	Sampling Date:	12/18/2019
Reported:	12/27/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 #31H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY CO, NM		

Sample ID: SP 8 @ 8' (H904271-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	12/26/2019	ND	416	104	400	0.00	

Sample ID: SP 8 @ 9' (H904271-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/26/2019	ND	416	104	400	0.00	

Sample ID: SP 8 @ 10' (H904271-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/26/2019	ND	416	104	400	0.00	

Sample ID: SP 11 @ 4' (H904271-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/26/2019	ND	416	104	400	0.00	

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Analytical Results For:

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

Received: 12/20/2019
 Reported: 12/27/2019
 Project Name: HEIGHT CC 6-7 #31H
 Project Number: NONE GIVEN
 Project Location: OXY-EDDY CO, NM

Sampling Date: 12/18/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 11 @ 5' (H904271-05)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/26/2019	ND	416	104	400	0.00	

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Notes and Definitions

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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Relinquished By:		Date: 12/18/19	Time: 5:00 pm	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Date: 12-20-19	Time: 10:25	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		-0.8°C #97		Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected -0.4°C		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
				REMARKS:		

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