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DELINEATION/REMEDATION WORKPLAN

OXY – FEDERAL 23-2 (Leak Date: 8/24/20)

Incident Reference #: NRM2024823071

This delineation workplan and remediation proposal addresses the releases associated with Incident Reference #: NRM2024823071.

The following information includes:

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

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

OXY will excavate the spill area as depicted on the following site diagram.

The leak area near SP1, SP2, and SP4 – SP6 (blue shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP3 (green shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP7 – SP9 (white shade on diagram) will require zero remediation.

OXY will collect sidewall and confirmation samples every 300 square feet. The estimated amount of soil to be excavated is 330 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

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State of New Mexico
Oil Conservation Division

Incident ID	NRM2024823071
District RP	
Facility ID	
Application ID	

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

What is the shallowest depth to groundwater beneath the area affected by the release?	124 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NRM2024823071
District RP	
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: 9-9-2020email: wade_dittrich@oxy.comTelephone: (575) 390-2828**OCD Only**

Received by: _____

Date: _____

Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	NRM2024823071
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Application ID	

Remediation Plan


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

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

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

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

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

Printed Name: Wade Dittrich Title: Environmental Coordinator
Signature:  Date: 9-9-2020
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: Chad Hensley Date: 03/24/2021

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

Signature:  Date: 03/24/2021

Released to Imaging: 3/24/2021 9:31:45 AM

Received by OCD: 2/8/2021 1:47:33 PM

Oxy Federal 23-2

Leak Date: 8-24-2020
Eddy County, NM
Incident ID: NRM2024823071

Legend

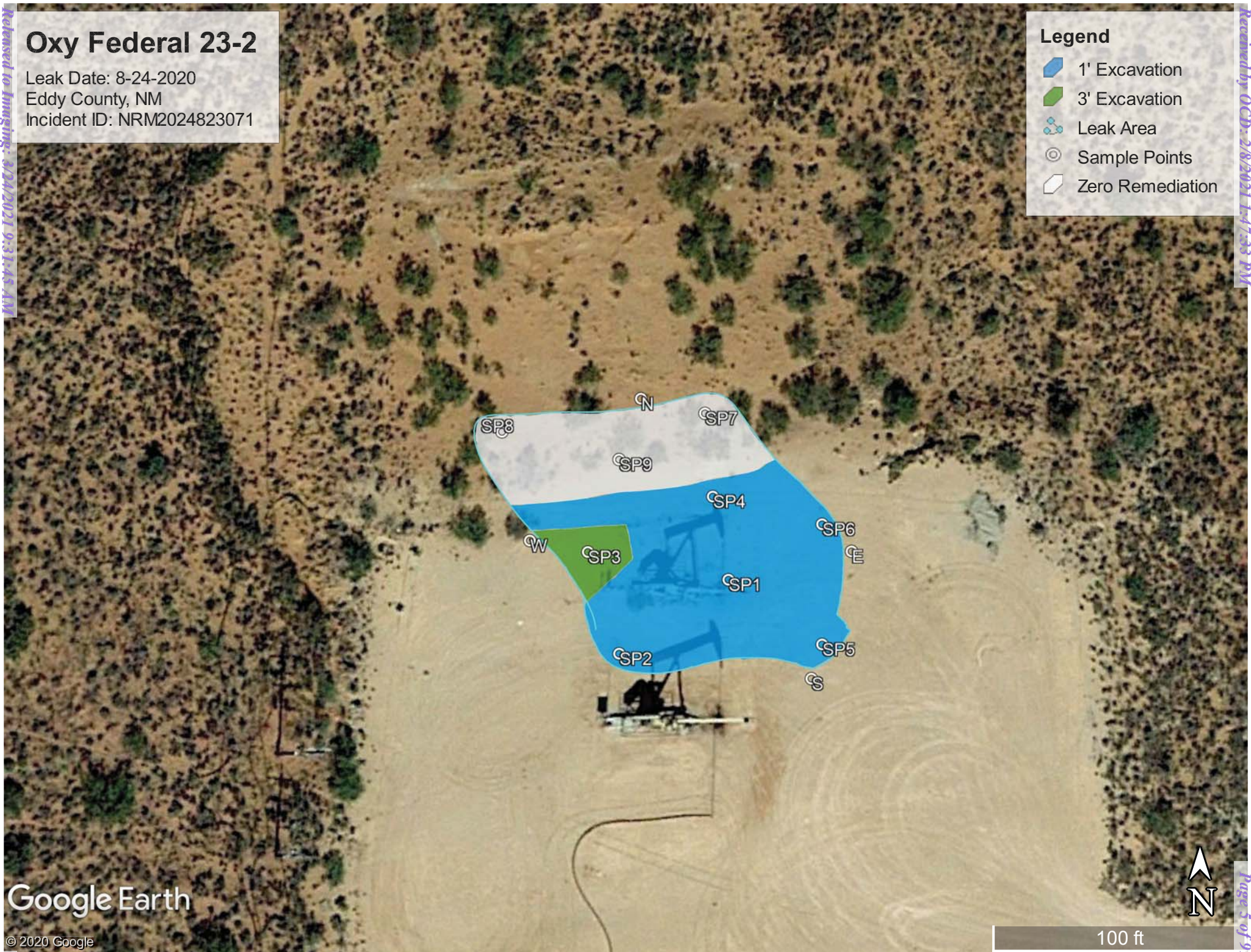
1' Excavation

3' Excavation

Leak Area

Sample Points

Zero Remediation



Google Earth

© 2020 Google

100 ft



Oxy, Federal 23-2 (8-24-20)

Sample points

SP1, N 32.37460 W 103.74222

SP2, N 32.37452 W 103.74236

SP3, N 32.37463 W 103.74240

SP4, N 32.37469 W 103.74224

SP5, N 32.37453 W 103.74210

SP6, N 32.37466 W 103.74210

SP7, N 32.37478 W 103.74225

SP8, N 32.37476 W 103.74251

SP9, N 32.37473 W 103.74236

NORTH, N 32.37479 W 103.74233

EAST, N 32.37463 W 103.74206

WEST, N 32.37464 W 103.74247

SOUTH, N 32.37449 W 103.74211



USGS Home
Contact USGS
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National Water Information System: Web Interface

USGS Water Resources

Data Category:Groundwater

Geographic Area:New Mexico

GO

Click to hideNews Bulletins

- 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 =

- 322333103461401

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

USGS 322333103461401 22S.31E.15.13214

Eddy County, New Mexico
Latitude 32°23'40", Longitude 103°46'16" NAD27
Land-surface elevation 3,455 feet above NAVD88
This well is completed in the Santa Rosa Sandstone (231SNRS) 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
<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>
1959-02-19		D	158.15			2	P		U
1972-09-12		D	143.57			2			U
1987-10-20		D	124.94			2			U
1992-12-08		D	124.25			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
Status	P	Site was being pumped.
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined

Section	Code	Description
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

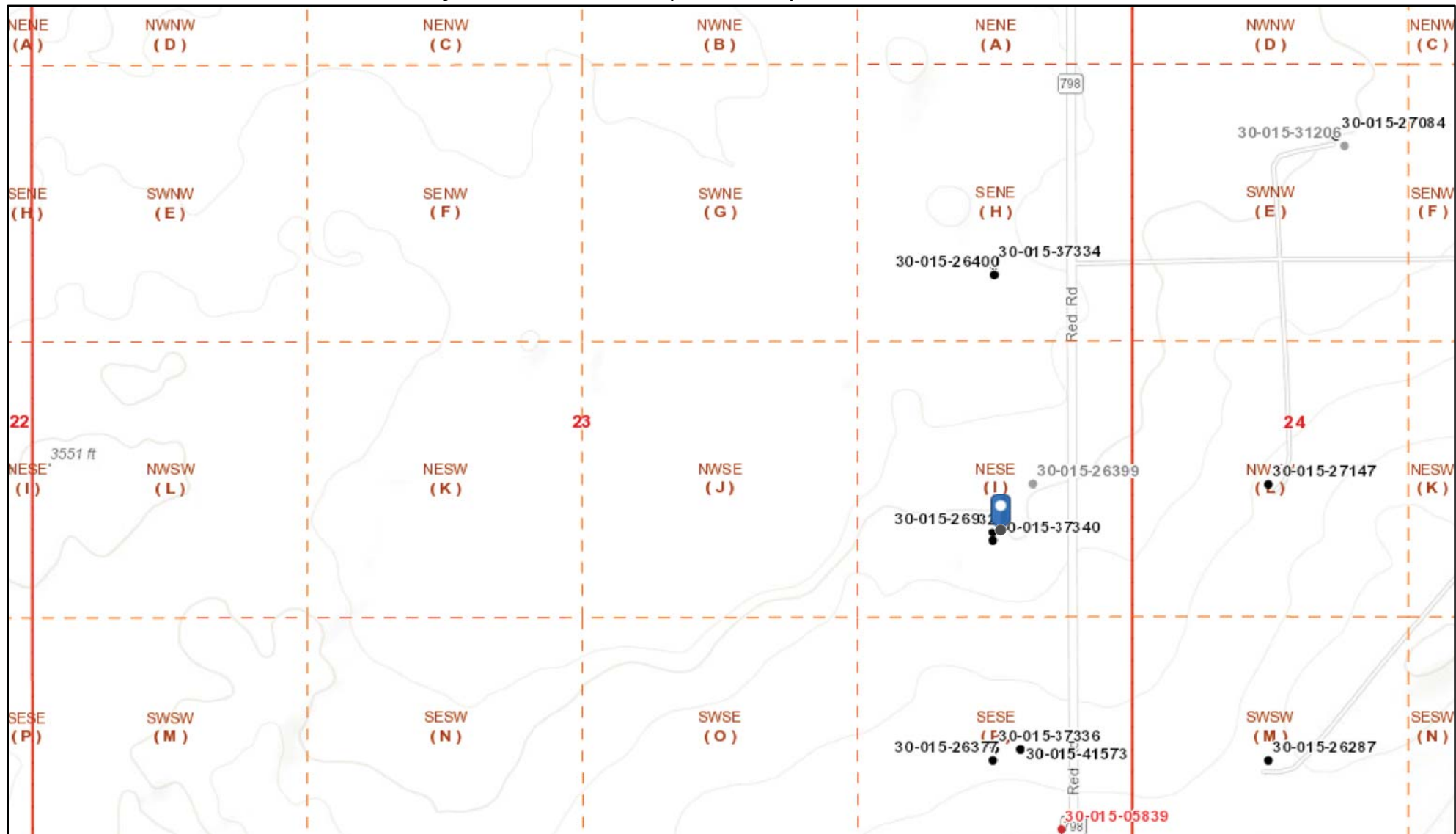
[Questions about sites/data?](#)
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Title: Groundwater for New Mexico: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2020-08-31 15:45:47 EDT
0.26 0.24 nadww01

Oxy Federal 23-2 (8-24-20) + 3,000 ft to h2o



8/31/2020, 1:39:02 PM

Wells - Large Scale

☀ CO2. Cancelled

☀ Gas. Active

 Gas, Temporarily Abandoned
  Injection, Plugged

? undefined

 CO2 News

☀️ **Gas Cancelled**

 **Injection Active**

- Miscellaneous

 CO2 Blugged


Gas New

 Injection Cancelled

☀ CO2, Active

☀️ CO2 Temporarily Abandoned

☞ Geo Blugged

 **Injection** New

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

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

New Mexico Oil Conservation Division



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

Oxy, Federal 23-2

Leak Date: 8-24-2020
Eddy County, NM
Incident ID: NRM2024823071

BLM CAVE KARST MAP

Legend

-  Leak Area
-  Low Potential

 Leak Area

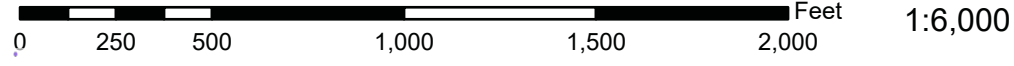
Red Rd



National Flood Hazard Layer FIRMette



103°44'50"W 32°22'44"N



103°44'13"W 32°22'13"N

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		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 <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone X</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
	MAP PANELS	
		No Digital Data Available
		Unmapped

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **8/31/2020 at 3:51 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Released to Imaging: 3/21/2021 9:31:45 AM

Received by OCD: 2/8/2021 1:47:33 PM

Laboratory Analytical Results Summary
Oxy, Federal 23-2 (8-24-20)

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	10/5/20	10/5/20	10/5/20	10/5/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP1 @ Surface	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	10/5/20	10/5/20	10/5/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		18400	288	304
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		1510	12.3	n/a
EXT DRO	TPH 8015M		621	<10.0	n/a

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	10/5/20	10/5/20	10/5/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		45600	416	144
GRO	TPH 8015M		<50.0	<10.0	<10.0
DRO	TPH 8015M		7970	180	<10.0
EXT DRO	TPH 8015M		1700	33.7	<10.0

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	10/5/20	10/5/20	10/5/20	10/5/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		39200	800	992	176
GRO	TPH 8015M		<50.0	<10.0	n/a	n/a
DRO	TPH 8015M		1770	20.4	n/a	n/a
EXT DRO	TPH 8015M		404	<10.0	n/a	n/a

Laboratory Analytical Results Summary
Oxy, Federal 23-2 (8-24-20)

		Sample ID	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	10/5/20	10/5/20	10/5/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		720	192	48.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		19.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP5 @ Surface	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	10/5/20	10/5/20	10/5/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		24000	416	272
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		546	<10.0	n/a
EXT DRO	TPH 8015M		289	<10.0	n/a

		Sample ID	SP6 @ Surface	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	10/6/20	10/6/20	10/6/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		832	144	208
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		286	<10.0	n/a
EXT DRO	TPH 8015M		87.5	<10.0	n/a

		Sample ID	SP7 @ Surface	SP7 @ 1'	SP7 @ 2'
Analyte	Method	Date	10/6/20	10/6/20	10/6/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		64.0	64.0	96.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

Laboratory Analytical Results Summary
Oxy, Federal 23-2 (8-24-20)

		Sample ID	SP8 @ Surface	SP8 @ 1'	SP8 @ 2'
Analyte	Method	Date	10/6/20	10/6/20	10/6/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		32.0	32.0	16.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP9 @ Surface	SP9 @ 1'	SP9 @ 2'
Analyte	Method	Date	10/6/20	10/6/20	10/6/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		48.0	240	272
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a



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

October 14, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: FED 23 - 2

Enclosed are the results of analyses for samples received by the laboratory on 10/07/20 17:00.

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

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

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

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

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

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

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N @ SURFACE	H002673-01	Soil	05-Oct-20 08:45	07-Oct-20 17:00
E @ SURFACE	H002673-02	Soil	05-Oct-20 08:57	07-Oct-20 17:00
W @ SURFACE	H002673-03	Soil	05-Oct-20 09:12	07-Oct-20 17:00
S @ SURFACE	H002673-04	Soil	05-Oct-20 09:29	07-Oct-20 17:00
SP 1 @ SURFACE	H002673-05	Soil	05-Oct-20 09:42	07-Oct-20 17:00
SP 1 @ 1'	H002673-06	Soil	05-Oct-20 09:55	07-Oct-20 17:00
SP 1 @ 2'	H002673-07	Soil	05-Oct-20 10:16	07-Oct-20 17:00
SP 2 @ SURFACE	H002673-08	Soil	05-Oct-20 10:37	07-Oct-20 17:00
SP 2 @ 1'	H002673-09	Soil	05-Oct-20 10:53	07-Oct-20 17:00
SP 2 @ 2'	H002673-10	Soil	05-Oct-20 11:05	07-Oct-20 17:00
SP 3 @ SURFACE	H002673-11	Soil	05-Oct-20 11:15	07-Oct-20 17:00
SP 3 @ 1'	H002673-12	Soil	05-Oct-20 11:26	07-Oct-20 17:00
SP 3 @ 2'	H002673-13	Soil	05-Oct-20 11:40	07-Oct-20 17:00
SP 3 @ 3'	H002673-14	Soil	05-Oct-20 11:52	07-Oct-20 17:00
SP 4 @ SURFACE	H002673-15	Soil	05-Oct-20 12:07	07-Oct-20 17:00
SP 4 @ 1'	H002673-16	Soil	05-Oct-20 12:18	07-Oct-20 17:00
SP 4 @ 2'	H002673-17	Soil	05-Oct-20 12:33	07-Oct-20 17:00
SP 5 @ SURFACE	H002673-18	Soil	05-Oct-20 13:07	07-Oct-20 17:00
SP 5 @ 1'	H002673-19	Soil	05-Oct-20 13:19	07-Oct-20 17:00
SP 5 @ 2'	H002673-20	Soil	05-Oct-20 13:33	07-Oct-20 17:00
SP 6 @ SURFACE	H002673-21	Soil	06-Oct-20 08:40	07-Oct-20 17:00
SP 6 @ 1'	H002673-22	Soil	06-Oct-20 08:52	07-Oct-20 17:00
SP 6 @ 2'	H002673-23	Soil	06-Oct-20 09:06	07-Oct-20 17:00
SP 7 @ SURFACE	H002673-24	Soil	06-Oct-20 09:20	07-Oct-20 17:00
SP 7 @ 1'	H002673-25	Soil	06-Oct-20 09:32	07-Oct-20 17:00
SP 7 @ 2'	H002673-26	Soil	06-Oct-20 09:45	07-Oct-20 17:00
SP 8 @ SURFACE	H002673-27	Soil	06-Oct-20 09:54	07-Oct-20 17:00

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 8 @ 1'	H002673-28	Soil	06-Oct-20 10:22	07-Oct-20 17:00
SP 8 @ 2'	H002673-29	Soil	06-Oct-20 10:37	07-Oct-20 17:00
SP 9 @ SURFACE	H002673-30	Soil	06-Oct-20 10:50	07-Oct-20 17:00
SP 9 @ 1'	H002673-31	Soil	06-Oct-20 11:04	07-Oct-20 17:00
SP 9 @ 2'	H002673-32	Soil	06-Oct-20 11:15	07-Oct-20 17:00

10/14/20 - Client added BTEX and TPH to sample -10. This is the revised report and will replace the one sent on 10/12/20.

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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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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

N @ SURFACE
H002673-01 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	0100911	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100809	MS	09-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.3-129 0100809 MS 09-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100814	MS	08-Oct-20	8015B	QR-03
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0100814	MS	08-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0100814	MS	08-Oct-20	8015B	

Surrogate: 1-Chlorooctane 118 % 44.3-144 0100814 MS 08-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 130 % 42.2-156 0100814 MS 08-Oct-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

E @ SURFACE**H002673-02 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	0100911	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100809	MS	09-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129 0100809 MS 09-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100814	MS	08-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0100814	MS	08-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0100814	MS	08-Oct-20	8015B	

Surrogate: 1-Chlorooctane 113 % 44.3-144 0100814 MS 08-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 123 % 42.2-156 0100814 MS 08-Oct-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

W @ SURFACE**H002673-03 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	0100911	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100809	MS	09-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.0 %	73.3-129		0100809	MS	09-Oct-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100814	MS	08-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0100814	MS	08-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0100814	MS	08-Oct-20	8015B	

Surrogate: 1-Chlorooctane			103 %	44.3-144		0100814	MS	08-Oct-20	8015B	
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Surrogate: 1-Chlorooctadecane			111 %	42.2-156		0100814	MS	08-Oct-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

S @ SURFACE**H002673-04 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	0100911	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100809	MS	09-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.3-129 0100809 MS 09-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100814	MS	08-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0100814	MS	08-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0100814	MS	08-Oct-20	8015B	

Surrogate: 1-Chlorooctane 114 % 44.3-144 0100814 MS 08-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 126 % 42.2-156 0100814 MS 08-Oct-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 1 @ SURFACE**H002673-05 (Soil)**

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

Chloride	18400		16.0	mg/kg	4	0100911	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100809	MS	09-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100809	MS	09-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129 0100809 MS 09-Oct-20 8021B

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

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	
DRO >C10-C28*	1510		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	
EXT DRO >C28-C36	621		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	

Surrogate: 1-Chlorooctane 116 % 44.3-144 0100814 MS 09-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 183 % 42.2-156 0100814 MS 09-Oct-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 1 @ 1'
H002673-06 (Soil)

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

Chloride	288		16.0	mg/kg	4	0100911	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100810	MS	08-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129 0100810 MS 08-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	
DRO >C10-C28*	12.3		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	

Surrogate: 1-Chlorooctane 121 % 44.3-144 0100814 MS 09-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 136 % 42.2-156 0100814 MS 09-Oct-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
14-Oct-20 10:03**SP 1 @ 2'**
H002673-07 (Soil)

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

Chloride	304		16.0	mg/kg	4	0100911	AC	09-Oct-20	4500-Cl-B	
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 2 @ SURFACE**H002673-08 (Soil)**

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

Chloride	45600		16.0	mg/kg	4	0100911	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100810	MS	08-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129 0100810 MS 08-Oct-20 8021B

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

GRO C6-C10*	<50.0		50.0	mg/kg	5	0100814	MS	09-Oct-20	8015B	
DRO >C10-C28*	7970		50.0	mg/kg	5	0100814	MS	09-Oct-20	8015B	
EXT DRO >C28-C36	1700		50.0	mg/kg	5	0100814	MS	09-Oct-20	8015B	

Surrogate: 1-Chlorooctane 110 % 44.3-144 0100814 MS 09-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 388 % 42.2-156 0100814 MS 09-Oct-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 2 @ 1'
H002673-09 (Soil)

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

Chloride	416		16.0	mg/kg	4	0100911	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100810	MS	08-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129 0100810 MS 08-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	
DRO >C10-C28*	180		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	
EXT DRO >C28-C36	33.7		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	

Surrogate: 1-Chlorooctane 114 % 44.3-144 0100814 MS 09-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 131 % 42.2-156 0100814 MS 09-Oct-20 8015B

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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 2 @ 2'
H002673-10 (Soil)

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

Chloride	144		16.0	mg/kg	4	0100911	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0101215	MS	13-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0101215	MS	13-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0101215	MS	13-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0101215	MS	13-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0101215	MS	13-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129 0101215 MS 13-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0101301	MS	13-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0101301	MS	13-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0101301	MS	13-Oct-20	8015B	

Surrogate: 1-Chlorooctane 90.1 % 44.3-144 0101301 MS 13-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 97.1 % 42.2-156 0101301 MS 13-Oct-20 8015B

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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 3 @ SURFACE**H002673-11 (Soil)**

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

Chloride	39200		16.0	mg/kg	4	0100911	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100810	MS	08-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129 0100810 MS 08-Oct-20 8021B

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

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	
DRO >C10-C28*	1770		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	
EXT DRO >C28-C36	404		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	

Surrogate: 1-Chlorooctane 105 % 44.3-144 0100814 MS 09-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 176 % 42.2-156 0100814 MS 09-Oct-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 3 @ 1'
H002673-12 (Soil)

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

Chloride	800		16.0	mg/kg	4	0100911	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100810	MS	08-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129 0100810 MS 08-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	
DRO >C10-C28*	20.4		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	

Surrogate: 1-Chlorooctane 123 % 44.3-144 0100814 MS 09-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 137 % 42.2-156 0100814 MS 09-Oct-20 8015B

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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 3 @ 2'
H002673-13 (Soil)

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	992		16.0	mg/kg	4	0100911	AC	09-Oct-20	4500-Cl-B	

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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 3 @ 3'
H002673-14 (Soil)

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

Chloride	176		16.0	mg/kg	4	0100911	AC	09-Oct-20	4500-Cl-B	
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 4 @ SURFACE**H002673-15 (Soil)**

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

Chloride	720		16.0	mg/kg	4	0100911	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100810	MS	08-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129 0100810 MS 08-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	
DRO >C10-C28*	19.0		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	

Surrogate: 1-Chlorooctane 119 % 44.3-144 0100814 MS 09-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 130 % 42.2-156 0100814 MS 09-Oct-20 8015B

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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 4 @ 1'
H002673-16 (Soil)

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

Chloride	192		16.0	mg/kg	4	0100911	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100810	MS	08-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129 0100810 MS 08-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0100814	MS	09-Oct-20	8015B	

Surrogate: 1-Chlorooctane 113 % 44.3-144 0100814 MS 09-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 122 % 42.2-156 0100814 MS 09-Oct-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 4 @ 2'
H002673-17 (Soil)

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

Chloride	48.0		16.0	mg/kg	4	0100911	AC	09-Oct-20	4500-Cl-B	
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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 5 @ SURFACE**H002673-18 (Soil)**

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

Chloride	24000		16.0	mg/kg	4	0100913	AC	09-Oct-20	4500-Cl-B	QM-07
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100810	MS	08-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129 0100810 MS 08-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	QR-03
DRO >C10-C28*	546		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	
EXT DRO >C28-C36	289		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	

Surrogate: 1-Chlorooctane 110 % 44.3-144 0100904 MS 09-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 156 % 42.2-156 0100904 MS 09-Oct-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 5 @ 1'
H002673-19 (Soil)

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

Chloride	416		16.0	mg/kg	4	0100913	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100810	MS	08-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.3-129 0100810 MS 08-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	

Surrogate: 1-Chlorooctane 122 % 44.3-144 0100904 MS 09-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 139 % 42.2-156 0100904 MS 09-Oct-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
14-Oct-20 10:03**SP 5 @ 2'**
H002673-20 (Soil)

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

Chloride	272		16.0	mg/kg	4	0100913	AC	09-Oct-20	4500-Cl-B	
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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 6 @ SURFACE**H002673-21 (Soil)**

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

Chloride	832		16.0	mg/kg	4	0100913	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100810	MS	08-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129 0100810 MS 08-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	
DRO >C10-C28*	286		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	
EXT DRO >C28-C36	87.5		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	

Surrogate: 1-Chlorooctane 97.0 % 44.3-144 0100904 MS 09-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 125 % 42.2-156 0100904 MS 09-Oct-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 6 @ 1'
H002673-22 (Soil)

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

Chloride	144		16.0	mg/kg	4	0100913	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Toluene*	<0.050	0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	0100810	MS	08-Oct-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>		98.6 %		73.3-129	0100810	MS	08-Oct-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>		118 %		44.3-144	0100904	MS	09-Oct-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>		131 %		42.2-156	0100904	MS	09-Oct-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
14-Oct-20 10:03**SP 6 @ 2'**
H002673-23 (Soil)

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

Chloride	208		16.0	mg/kg	4	0100913	AC	09-Oct-20	4500-Cl-B	
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 7 @ SURFACE**H002673-24 (Soil)**

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

Chloride	64.0		16.0	mg/kg	4	0100913	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100810	MS	08-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.3-129 0100810 MS 08-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	

Surrogate: 1-Chlorooctane 121 % 44.3-144 0100904 MS 09-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 137 % 42.2-156 0100904 MS 09-Oct-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 7 @ 1'
H002673-25 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	0100913	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100810	MS	08-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100810	MS	08-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129 0100810 MS 08-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	

Surrogate: 1-Chlorooctane 119 % 44.3-144 0100904 MS 09-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 136 % 42.2-156 0100904 MS 09-Oct-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
14-Oct-20 10:03**SP 7 @ 2'**
H002673-26 (Soil)

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

Chloride	96.0		16.0	mg/kg	4	0100913	AC	09-Oct-20	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 8 @ SURFACE**H002673-27 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	0100913	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100819	ms	08-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100819	ms	08-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100819	ms	08-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100819	ms	08-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100819	ms	08-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 73.3-129 0100819 ms 08-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	

Surrogate: 1-Chlorooctane 112 % 44.3-144 0100904 MS 09-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 126 % 42.2-156 0100904 MS 09-Oct-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 8 @ 1'
H002673-28 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	0100913	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100819	ms	08-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100819	ms	08-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100819	ms	08-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100819	ms	08-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100819	ms	08-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129 0100819 ms 08-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	

Surrogate: 1-Chlorooctane 114 % 44.3-144 0100904 MS 09-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 131 % 42.2-156 0100904 MS 09-Oct-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 8 @ 2'
H002673-29 (Soil)

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

Chloride	16.0		16.0	mg/kg	4	0100913	AC	09-Oct-20	4500-Cl-B	
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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 9 @ SURFACE**H002673-30 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	0100913	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100819	ms	08-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100819	ms	08-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100819	ms	08-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100819	ms	08-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100819	ms	08-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 73.3-129 0100819 ms 08-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	

Surrogate: 1-Chlorooctane 118 % 44.3-144 0100904 MS 09-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 131 % 42.2-156 0100904 MS 09-Oct-20 8015B

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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 9 @ 1'
H002673-31 (Soil)

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

Chloride	240		16.0	mg/kg	4	0100913	AC	09-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0100819	ms	08-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0100819	ms	08-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0100819	ms	08-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0100819	ms	08-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0100819	ms	08-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 73.3-129 0100819 ms 08-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0100904	MS	09-Oct-20	8015B	

Surrogate: 1-Chlorooctane 116 % 44.3-144 0100904 MS 09-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 131 % 42.2-156 0100904 MS 09-Oct-20 8015B

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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

SP 9 @ 2'
H002673-32 (Soil)

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

Chloride	272		16.0	mg/kg	4	0100913	AC	09-Oct-20	4500-Cl-B	
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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0100911 - 1:4 DI Water**Blank (0100911-BLK1)**

Prepared & Analyzed: 09-Oct-20

Chloride	ND	16.0	mg/kg						
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LCS (0100911-BS1)

Prepared & Analyzed: 09-Oct-20

Chloride	400	16.0	mg/kg	400	100	80-120			
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LCS Dup (0100911-BSD1)

Prepared & Analyzed: 09-Oct-20

Chloride	400	16.0	mg/kg	400	100	80-120	0.00	20	
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Batch 0100913 - 1:4 DI Water**Blank (0100913-BLK1)**

Prepared & Analyzed: 09-Oct-20

Chloride	ND	16.0	mg/kg						
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LCS (0100913-BS1)

Prepared & Analyzed: 09-Oct-20

Chloride	368	16.0	mg/kg	400	92.0	80-120			
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LCS Dup (0100913-BSD1)

Prepared & Analyzed: 09-Oct-20

Chloride	400	16.0	mg/kg	400	100	80-120	8.33	20	
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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0100809 - Volatiles**Blank (0100809-BLK1)**

Prepared: 08-Oct-20 Analyzed: 09-Oct-20

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		96.7	73.3-129			

LCS (0100809-BS1)

Prepared: 08-Oct-20 Analyzed: 09-Oct-20

Benzene	2.04	0.050	mg/kg	2.00		102	72.2-131			
Toluene	2.02	0.050	mg/kg	2.00		101	71.7-126			
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.4	68.9-126			
Total Xylenes	5.66	0.150	mg/kg	6.00		94.3	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0498		mg/kg	0.0500		99.6	73.3-129			

LCS Dup (0100809-BSD1)

Prepared: 08-Oct-20 Analyzed: 09-Oct-20

Benzene	2.09	0.050	mg/kg	2.00		105	72.2-131	2.48	14.6	
Toluene	2.09	0.050	mg/kg	2.00		104	71.7-126	3.40	17.4	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	68.9-126	3.53	18.9	
Total Xylenes	5.85	0.150	mg/kg	6.00		97.5	71.4-125	3.36	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0496		mg/kg	0.0500		99.2	73.3-129			

Batch 0100810 - Volatiles**Blank (0100810-BLK1)**

Prepared & Analyzed: 08-Oct-20

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		98.2	73.3-129			

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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0100810 - Volatiles**LCS (0100810-BS1)**

Prepared & Analyzed: 08-Oct-20

Benzene	2.11	0.050	mg/kg	2.00		106	72.2-131			
Toluene	2.12	0.050	mg/kg	2.00		106	71.7-126			
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	68.9-126			
Total Xylenes	5.97	0.150	mg/kg	6.00		99.5	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0503		mg/kg	0.0500		101	73.3-129			

LCS Dup (0100810-BS1)

Prepared & Analyzed: 08-Oct-20

Benzene	2.02	0.050	mg/kg	2.00		101	72.2-131	4.45	14.6	
Toluene	2.04	0.050	mg/kg	2.00		102	71.7-126	4.24	17.4	
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.6	68.9-126	4.38	18.9	
Total Xylenes	5.72	0.150	mg/kg	6.00		95.3	71.4-125	4.24	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0502		mg/kg	0.0500		100	73.3-129			

Batch 0100819 - Volatiles**Blank (0100819-BLK1)**

Prepared & Analyzed: 08-Oct-20

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		95.7	73.3-129			

LCS (0100819-BS1)

Prepared & Analyzed: 08-Oct-20

Benzene	1.97	0.050	mg/kg	2.00		98.5	72.2-131			
Toluene	2.00	0.050	mg/kg	2.00		100	71.7-126			
Ethylbenzene	1.92	0.050	mg/kg	2.00		95.9	68.9-126			
Total Xylenes	5.58	0.150	mg/kg	6.00		93.0	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0460		mg/kg	0.0500		92.1	73.3-129			

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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0100819 - Volatiles**LCS Dup (0100819-BSD1)**

Prepared & Analyzed: 08-Oct-20

Benzene	1.95	0.050	mg/kg	2.00		97.7	72.2-131	0.824	14.6	
Toluene	1.96	0.050	mg/kg	2.00		97.9	71.7-126	2.09	17.4	
Ethylbenzene	1.88	0.050	mg/kg	2.00		94.1	68.9-126	1.83	18.9	
Total Xylenes	5.55	0.150	mg/kg	6.00		92.5	71.4-125	0.485	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0459		mg/kg	0.0500		91.9	73.3-129			

Batch 0101215 - Volatiles**Blank (0101215-BLK1)**

Prepared: 12-Oct-20 Analyzed: 13-Oct-20

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		99.0	73.3-129			

LCS (0101215-BS1)

Prepared: 12-Oct-20 Analyzed: 13-Oct-20

Benzene	2.12	0.050	mg/kg	2.00		106	72.2-131			
Toluene	2.12	0.050	mg/kg	2.00		106	71.7-126			
Ethylbenzene	2.07	0.050	mg/kg	2.00		103	68.9-126			
Total Xylenes	5.91	0.150	mg/kg	6.00		98.4	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0509		mg/kg	0.0500		102	73.3-129			

LCS Dup (0101215-BSD1)

Prepared: 12-Oct-20 Analyzed: 13-Oct-20

Benzene	2.17	0.050	mg/kg	2.00		108	72.2-131	2.25	14.6	
Toluene	2.17	0.050	mg/kg	2.00		108	71.7-126	2.32	17.4	
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	68.9-126	2.45	18.9	
Total Xylenes	6.05	0.150	mg/kg	6.00		101	71.4-125	2.43	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0512		mg/kg	0.0500		102	73.3-129			

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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0100814 - General Prep - Organics**Blank (0100814-BLK1)**

Prepared & Analyzed: 08-Oct-20

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	56.7		mg/kg	50.0		113	44.3-144			
Surrogate: 1-Chlorooctadecane	62.2		mg/kg	50.0		124	42.2-156			

LCS (0100814-BS1)

Prepared & Analyzed: 08-Oct-20

GRO C6-C10	203	10.0	mg/kg	200		101	78.8-127			
DRO >C10-C28	202	10.0	mg/kg	200		101	80-132			
Total TPH C6-C28	405	10.0	mg/kg	400		101	81.3-128			
Surrogate: 1-Chlorooctane	56.3		mg/kg	50.0		113	44.3-144			
Surrogate: 1-Chlorooctadecane	61.2		mg/kg	50.0		122	42.2-156			

LCS Dup (0100814-BS1)

Prepared & Analyzed: 08-Oct-20

GRO C6-C10	215	10.0	mg/kg	200		108	78.8-127	5.93	15.1	
DRO >C10-C28	226	10.0	mg/kg	200		113	80-132	11.0	17.1	
Total TPH C6-C28	441	10.0	mg/kg	400		110	81.3-128	8.51	15	
Surrogate: 1-Chlorooctane	62.2		mg/kg	50.0		124	44.3-144			
Surrogate: 1-Chlorooctadecane	69.7		mg/kg	50.0		139	42.2-156			

Batch 0100904 - General Prep - Organics**Blank (0100904-BLK1)**

Prepared & Analyzed: 09-Oct-20

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	57.8		mg/kg	50.0		116	44.3-144			
Surrogate: 1-Chlorooctadecane	66.0		mg/kg	50.0		132	42.2-156			

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 0100904 - General Prep - Organics**LCS (0100904-BS1)**

Prepared & Analyzed: 09-Oct-20

GRO C6-C10	204	10.0	mg/kg	200		102	78.8-127			
DRO >C10-C28	216	10.0	mg/kg	200		108	80-132			
Total TPH C6-C28	420	10.0	mg/kg	400		105	81.3-128			
Surrogate: 1-Chlorooctane	56.5		mg/kg	50.0		113	44.3-144			
Surrogate: 1-Chlorooctadecane	64.1		mg/kg	50.0		128	42.2-156			

LCS Dup (0100904-BS1)

Prepared & Analyzed: 09-Oct-20

GRO C6-C10	207	10.0	mg/kg	200		103	78.8-127	1.65	15.1	
DRO >C10-C28	224	10.0	mg/kg	200		112	80-132	3.51	17.1	
Total TPH C6-C28	431	10.0	mg/kg	400		108	81.3-128	2.61	15	
Surrogate: 1-Chlorooctane	59.9		mg/kg	50.0		120	44.3-144			
Surrogate: 1-Chlorooctadecane	68.7		mg/kg	50.0		137	42.2-156			

Batch 0101301 - General Prep - Organics**Blank (0101301-BLK1)**

Prepared & Analyzed: 13-Oct-20

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	48.0		mg/kg	50.0		95.9	44.3-144			
Surrogate: 1-Chlorooctadecane	52.9		mg/kg	50.0		106	42.2-156			

LCS (0101301-BS1)

Prepared & Analyzed: 13-Oct-20

GRO C6-C10	203	10.0	mg/kg	200		101	78.8-127			
DRO >C10-C28	208	10.0	mg/kg	200		104	80-132			
Total TPH C6-C28	411	10.0	mg/kg	400		103	81.3-128			
Surrogate: 1-Chlorooctane	48.0		mg/kg	50.0		96.0	44.3-144			
Surrogate: 1-Chlorooctadecane	52.8		mg/kg	50.0		106	42.2-156			

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Analytical Results For:

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

Project: FED 23 - 2
Project Number: (8-24-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
14-Oct-20 10:03

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 0101301 - General Prep - Organics**LCS Dup (0101301-BSD1)**

Prepared & Analyzed: 13-Oct-20

GRO C6-C10	213	10.0	mg/kg	200		107	78.8-127	4.92	15.1	
DRO >C10-C28	223	10.0	mg/kg	200		112	80-132	7.06	17.1	
Total TPH C6-C28	436	10.0	mg/kg	400		109	81.3-128	6.01	15	
Surrogate: 1-Chlorooctane	51.6		mg/kg	50.0		103	44.3-144			
Surrogate: 1-Chlorooctadecane	57.9		mg/kg	50.0		116	42.2-156			

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(1084)

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

State: NM Zip: 88241

Phone #: 575-397-6388

Fax #: 575-397-0397

Project #:

Project Owner: Oxy

Project Name: Fed 23-2 (8-24-20)

Project Location: EDDY COUNTY, NM

Sampler Name: Simon Rendon

BILL TO

P.O. #:

Company: OXY

Attn: WADE

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H002673

1 N @ Surface
2 E @ Surface
3 W @ Surface
4 S @ Surface
5 SP1 @ Surface
6 SP1 @ 1'
7 SP1 @ 2'
8 SP2 @ Surface
9 SP2 @ 1'
10 SP2 @ 2'

(G)RAB OR (C)OMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER:
ACID/BASE:
ICE / COOL
OTHER:

MATRIX
PRESERV.
SAMPLING

DATE
TIME

CL
BTEX
TPH EXT

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Relinquished By:

Date: 10-7-20

Time: 7:00 AM

Received By:

Isaac Pena

Relinquished By:

Date: 10-7-20

Time: 8:00 AM

Received By:

Yvonne Muniz

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

#113-61

Sample Condition
Cool Intact
☒ Yes ☐ No
☐ No ☐ No

CHECKED BY:
(Initials)

ym

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(2084)

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

State: NM Zip: 88241

Phone #: 575-397-6388

Fax #: 575-397-0397

Project #:

Project Owner: Oxy

Project Name: Fed 23-2 (8-24-20)

Project Location: EDDY COUNTY, NM

Sampler Name: Simon Rendon

BILL TO

P.O. #:

Company: OXY

Attn: WADE

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H002673

11 SP3 @ Surface
12 SP3 @ 1'
13 SP3 @ 2'
14 SP3 @ 3'
15 SP4 @ Surface
16 SP4 @ 1'
17 SP4 @ 2'
18 SP5 @ Surface
19 SP5 @ 1'
20 SP5 @ 2'

(GIRAB OR (C)OMP.
CONTAINERS

GROUNDWATER
WASTEWATER

SOIL
OIL
SLUDGE
OTHER :

MATRIX

PRESERV.

ACID/BASE:
ICE / COOL
OTHER :

SAMPLING

DATE

TIME

CL

BTEX

TPH EXT

✓

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Relinquished By:

Date: 10-7-20
Time: 1:00 PM

Received By:

Yvonne Muniz

Relinquished By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

II13 - 6.1

Sample Condition
Cool Intact
☒ Yes ☒ Yes
☐ No ☐ No

CHECKED BY:
(Initials)

ym

Phone Result: ☐ Yes ☐ No

Add'l Phone #:

Fax Result: ☐ Yes ☐ No

Add'l Fax #:

REMARKS:

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(3084)

[illegible]

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CARDINAL LABORATORIES

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(4084)

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

State: NM Zip: 88241

Phone #: 575-397-6388

Fax #: 575-397-0397

Project #:

Project Owner: Oxy

Project Name: Fed 23-2 (8-24-20)

Project Location: EDDY COUNTY, NM

Sampler Name: Simon Rendon

BILL TO

P.O. #:

Company: OXY

Attn: WADE

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H001673

31

SP9 @ 1'

32

SP9 @ 2'

MATRIX

PRESERV.

SAMPLING

(GRAB OR C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

CL

BTEX

TPH EXT

10/6/20

11:04 AM

10/6/20

11:15 AM

✓

✓

✓

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Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Relinquished By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition
Cool Intact
☒ Yes ☒ Yes
☐ No ☐ No

CHECKED BY:
(Initials)

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

REMARKS:

Add'l Phone #:

Add'l Fax #:

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



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

October 12, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: FED 23 - 2

Enclosed are the results of analyses for samples received by the laboratory on 10/07/20 17:00.

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

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

Method EPA 552.2	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: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: N @ SURFACE (H002673-01)

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	10/09/2020	ND	2.04	102	2.00	2.48	
Toluene*	<0.050	0.050	10/09/2020	ND	2.02	101	2.00	3.40	
Ethylbenzene*	<0.050	0.050	10/09/2020	ND	1.97	98.4	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/09/2020	ND	5.66	94.3	6.00	3.36	
Total BTEX	<0.300	0.300	10/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	10/09/2020	ND	400	100	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	10/08/2020	ND	203	101	200	5.93	QR-03
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 118 % 44.3-144

Surrogate: 1-Chlorooctadecane 130 % 42.2-156

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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: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: E @ SURFACE (H002673-02)

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	10/09/2020	ND	2.04	102	2.00	2.48	
Toluene*	<0.050	0.050	10/09/2020	ND	2.02	101	2.00	3.40	
Ethylbenzene*	<0.050	0.050	10/09/2020	ND	1.97	98.4	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/09/2020	ND	5.66	94.3	6.00	3.36	
Total BTX	<0.300	0.300	10/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	<16.0	16.0	10/09/2020	ND	400	100	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	10/08/2020	ND	203	101	200	5.93	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 42.2-156

Cardinal Laboratories

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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: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: W @ SURFACE (H002673-03)

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	10/09/2020	ND	2.04	102	2.00	2.48		
Toluene*	<0.050	0.050	10/09/2020	ND	2.02	101	2.00	3.40		
Ethylbenzene*	<0.050	0.050	10/09/2020	ND	1.97	98.4	2.00	3.53		
Total Xylenes*	<0.150	0.150	10/09/2020	ND	5.66	94.3	6.00	3.36		
Total BTEx	<0.300	0.300	10/09/2020	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	<16.0	16.0	10/09/2020	ND	400	100	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	10/08/2020	ND	203	101	200	5.93	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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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: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: S @ SURFACE (H002673-04)

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	10/09/2020	ND	2.04	102	2.00	2.48	
Toluene*	<0.050	0.050	10/09/2020	ND	2.02	101	2.00	3.40	
Ethylbenzene*	<0.050	0.050	10/09/2020	ND	1.97	98.4	2.00	3.53	
Total Xylenes*	<0.150	0.150	10/09/2020	ND	5.66	94.3	6.00	3.36	
Total BTX	<0.300	0.300	10/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	10/09/2020	ND	400	100	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	10/08/2020	ND	203	101	200	5.93	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 42.2-156

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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: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 1 @ SURFACE (H002673-05)

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	10/09/2020	ND	2.04	102	2.00	2.48		
Toluene*	<0.050	0.050	10/09/2020	ND	2.02	101	2.00	3.40		
Ethylbenzene*	<0.050	0.050	10/09/2020	ND	1.97	98.4	2.00	3.53		
Total Xylenes*	<0.150	0.150	10/09/2020	ND	5.66	94.3	6.00	3.36		
Total BTX	<0.300	0.300	10/09/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	18400	16.0	10/09/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/09/2020	ND	203	101	200	5.93		
DRO >C10-C28*	1510	10.0	10/09/2020	ND	202	101	200	11.0		
EXT DRO >C28-C36	621	10.0	10/09/2020	ND						

Surrogate: 1-Chlorooctane 116 % 44.3-144

Surrogate: 1-Chlorooctadecane 183 % 42.2-156

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Analytical Results For:

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

Received: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 1 @ 1' (H002673-06)

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	10/08/2020	ND	2.11	106	2.00	4.45	
Toluene*	<0.050	0.050	10/08/2020	ND	2.12	106	2.00	4.24	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	2.08	104	2.00	4.38	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.97	99.5	6.00	4.24	
Total BTX	<0.300	0.300	10/08/2020	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	288	16.0	10/09/2020	ND	400	100	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	10/09/2020	ND	203	101	200	5.93	
DRO >C10-C28*	12.3	10.0	10/09/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 121 % 44.3-144

Surrogate: 1-Chlorooctadecane 136 % 42.2-156

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Analytical Results For:

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Received: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 1 @ 2' (H002673-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/09/2020	ND	400	100	400	0.00	

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Received: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 2 @ SURFACE (H002673-08)

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	10/08/2020	ND	2.11	106	2.00	4.45	
Toluene*	<0.050	0.050	10/08/2020	ND	2.12	106	2.00	4.24	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	2.08	104	2.00	4.38	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.97	99.5	6.00	4.24	
Total BTX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	45600	16.0	10/09/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/09/2020	ND	203	101	200	5.93	
DRO >C10-C28*	7970	50.0	10/09/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	1700	50.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 388 % 42.2-156

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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: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 2 @ 1' (H002673-09)

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	10/08/2020	ND	2.11	106	2.00	4.45	
Toluene*	<0.050	0.050	10/08/2020	ND	2.12	106	2.00	4.24	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	2.08	104	2.00	4.38	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.97	99.5	6.00	4.24	
Total BTEX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	416	16.0	10/09/2020	ND	400	100	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	10/09/2020	ND	203	101	200	5.93	
DRO >C10-C28*	180	10.0	10/09/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	33.7	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-144

Surrogate: 1-Chlorooctadecane 131 % 42.2-156

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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: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 2 @ 2' (H002673-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/09/2020	ND	400	100	400	0.00		

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Analytical Results For:

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 Fax To: (575) 397-0397

Received: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 3 @ SURFACE (H002673-11)

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	10/08/2020	ND	2.11	106	2.00	4.45	
Toluene*	<0.050	0.050	10/08/2020	ND	2.12	106	2.00	4.24	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	2.08	104	2.00	4.38	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.97	99.5	6.00	4.24	
Total BTEx	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	39200	16.0	10/09/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2020	ND	203	101	200	5.93	
DRO >C10-C28*	1770	10.0	10/09/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	404	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 176 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 397-0397

Received: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 3 @ 1' (H002673-12)

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	10/08/2020	ND	2.11	106	2.00	4.45	
Toluene*	<0.050	0.050	10/08/2020	ND	2.12	106	2.00	4.24	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	2.08	104	2.00	4.38	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.97	99.5	6.00	4.24	
Total BTEX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	800	16.0	10/09/2020	ND	400	100	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	10/09/2020	ND	203	101	200	5.93	
DRO >C10-C28*	20.4	10.0	10/09/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 123 % 44.3-144

Surrogate: 1-Chlorooctadecane 137 % 42.2-156

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Received: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 3 @ 2' (H002673-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	10/09/2020	ND	400	100	400	0.00	

Sample ID: SP 3 @ 3' (H002673-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/09/2020	ND	400	100	400	0.00	

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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: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 4 @ SURFACE (H002673-15)

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	10/08/2020	ND	2.11	106	2.00	4.45	
Toluene*	<0.050	0.050	10/08/2020	ND	2.12	106	2.00	4.24	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	2.08	104	2.00	4.38	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.97	99.5	6.00	4.24	
Total BTEX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	720	16.0	10/09/2020	ND	400	100	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	10/09/2020	ND	203	101	200	5.93	
DRO >C10-C28*	19.0	10.0	10/09/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 119 % 44.3-144

Surrogate: 1-Chlorooctadecane 130 % 42.2-156

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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: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 4 @ 1' (H002673-16)

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	10/08/2020	ND	2.11	106	2.00	4.45	
Toluene*	<0.050	0.050	10/08/2020	ND	2.12	106	2.00	4.24	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	2.08	104	2.00	4.38	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.97	99.5	6.00	4.24	
Total BTEX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	192	16.0	10/09/2020	ND	400	100	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	10/09/2020	ND	203	101	200	5.93	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 122 % 42.2-156

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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: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 4 @ 2' (H002673-17)

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	10/09/2020	ND	400	100	400	0.00		

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BBC International, Inc.
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Received: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 5 @ SURFACE (H002673-18)

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	10/08/2020	ND	2.11	106	2.00	4.45	
Toluene*	<0.050	0.050	10/08/2020	ND	2.12	106	2.00	4.24	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	2.08	104	2.00	4.38	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.97	99.5	6.00	4.24	
Total BTEX	<0.300	0.300	10/08/2020	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	24000	16.0	10/09/2020	ND	368	92.0	400	8.33	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	10/09/2020	ND	204	102	200	1.65	QR-03
DRO >C10-C28*	546	10.0	10/09/2020	ND	216	108	200	3.51	
EXT DRO >C28-C36	289	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 156 % 42.2-156

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Analytical Results For:

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Received: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 5 @ 1' (H002673-19)

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	10/08/2020	ND	2.11	106	2.00	4.45	
Toluene*	<0.050	0.050	10/08/2020	ND	2.12	106	2.00	4.24	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	2.08	104	2.00	4.38	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.97	99.5	6.00	4.24	
Total BTEX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	416	16.0	10/09/2020	ND	368	92.0	400	8.33	

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	10/09/2020	ND	204	102	200	1.65	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	216	108	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 122 % 44.3-144

Surrogate: 1-Chlorooctadecane 139 % 42.2-156

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Analytical Results For:

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

Received: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/05/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 5 @ 2' (H002673-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/09/2020	ND	368	92.0	400	8.33	

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Analytical Results For:

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 Fax To: (575) 397-0397

Received: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/06/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 6 @ SURFACE (H002673-21)

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	10/08/2020	ND	2.11	106	2.00	4.45	
Toluene*	<0.050	0.050	10/08/2020	ND	2.12	106	2.00	4.24	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	2.08	104	2.00	4.38	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.97	99.5	6.00	4.24	
Total BTEx	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	832	16.0	10/09/2020	ND	368	92.0	400	8.33	

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	10/09/2020	ND	204	102	200	1.65	
DRO >C10-C28*	286	10.0	10/09/2020	ND	216	108	200	3.51	
EXT DRO >C28-C36	87.5	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 97.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 125 % 42.2-156

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Analytical Results For:

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

Received: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/06/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 6 @ 1' (H002673-22)

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	10/08/2020	ND	2.11	106	2.00	4.45	
Toluene*	<0.050	0.050	10/08/2020	ND	2.12	106	2.00	4.24	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	2.08	104	2.00	4.38	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.97	99.5	6.00	4.24	
Total BTEx	<0.300	0.300	10/08/2020	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	144	16.0	10/09/2020	ND	368	92.0	400	8.33		

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	10/09/2020	ND	204	102	200	1.65	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	216	108	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 118 % 44.3-144

Surrogate: 1-Chlorooctadecane 131 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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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: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/06/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 6 @ 2' (H002673-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/09/2020	ND	368	92.0	400	8.33	

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 Fax To: (575) 397-0397

Received: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/06/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 7 @ SURFACE (H002673-24)

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	10/08/2020	ND	2.11	106	2.00	4.45	
Toluene*	<0.050	0.050	10/08/2020	ND	2.12	106	2.00	4.24	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	2.08	104	2.00	4.38	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.97	99.5	6.00	4.24	
Total BTEx	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	64.0	16.0	10/09/2020	ND	368	92.0	400	8.33	

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	10/09/2020	ND	204	102	200	1.65	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	216	108	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 121 % 44.3-144

Surrogate: 1-Chlorooctadecane 137 % 42.2-156

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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: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/06/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 7 @ 1' (H002673-25)

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	10/08/2020	ND	2.11	106	2.00	4.45		
Toluene*	<0.050	0.050	10/08/2020	ND	2.12	106	2.00	4.24		
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	2.08	104	2.00	4.38		
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.97	99.5	6.00	4.24		
Total BTX	<0.300	0.300	10/08/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	64.0	16.0	10/09/2020	ND	368	92.0	400	8.33	

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	10/09/2020	ND	204	102	200	1.65	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	216	108	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 119 % 44.3-144

Surrogate: 1-Chlorooctadecane 136 % 42.2-156

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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: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/06/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 7 @ 2' (H002673-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/09/2020	ND	368	92.0	400	8.33	

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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: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/06/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 8 @ SURFACE (H002673-27)

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	10/08/2020	ND	1.97	98.5	2.00	0.824		
Toluene*	<0.050	0.050	10/08/2020	ND	2.00	100	2.00	2.09		
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.92	95.9	2.00	1.83		
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.58	93.0	6.00	0.485		
Total BTEx	<0.300	0.300	10/08/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	32.0	16.0	10/09/2020	ND	368	92.0	400	8.33		

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	10/09/2020	ND	204	102	200	1.65	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	216	108	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 42.2-156

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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: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/06/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 8 @ 1' (H002673-28)

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	10/08/2020	ND	1.97	98.5	2.00	0.824		
Toluene*	<0.050	0.050	10/08/2020	ND	2.00	100	2.00	2.09		
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.92	95.9	2.00	1.83		
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.58	93.0	6.00	0.485		
Total BTEx	<0.300	0.300	10/08/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	10/09/2020	ND	368	92.0	400	8.33		

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	10/09/2020	ND	204	102	200	1.65	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	216	108	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-144

Surrogate: 1-Chlorooctadecane 131 % 42.2-156

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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: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/06/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 8 @ 2' (H002673-29)

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	10/09/2020	ND	368	92.0	400	8.33	

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Analytical Results For:

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

Received: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/06/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 9 @ SURFACE (H002673-30)

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	10/08/2020	ND	1.97	98.5	2.00	0.824		
Toluene*	<0.050	0.050	10/08/2020	ND	2.00	100	2.00	2.09		
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.92	95.9	2.00	1.83		
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.58	93.0	6.00	0.485		
Total BTEx	<0.300	0.300	10/08/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	48.0	16.0	10/09/2020	ND	368	92.0	400	8.33		

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	10/09/2020	ND	204	102	200	1.65	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	216	108	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 118 % 44.3-144

Surrogate: 1-Chlorooctadecane 131 % 42.2-156

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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: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/06/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 9 @ 1' (H002673-31)

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	10/08/2020	ND	1.97	98.5	2.00	0.824	
Toluene*	<0.050	0.050	10/08/2020	ND	2.00	100	2.00	2.09	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.92	95.9	2.00	1.83	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.58	93.0	6.00	0.485	
Total BTEx	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	240	16.0	10/09/2020	ND	368	92.0	400	8.33	

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	10/09/2020	ND	204	102	200	1.65	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	216	108	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 116 % 44.3-144

Surrogate: 1-Chlorooctadecane 131 % 42.2-156

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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: 10/07/2020
 Reported: 10/12/2020
 Project Name: FED 23 - 2
 Project Number: (8-24-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 10/06/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Yvonne Muniz

Sample ID: SP 9 @ 2' (H002673-32)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/09/2020	ND	368	92.0	400	8.33	

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Notes and Definitions

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

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101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(1084)

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241 Phone #: 575-397-6388 Fax #: 575-397-0397 Project #: Project Owner: Oxy Project Name: Fed 23-2 (8-24-20) Project Location: EDDY COUNTY, NM Sampler Name: Simon Rendon				BILL TO P.O. #: Company: OXY Attn: WADE Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST															
FOR LAB USE ONLY				MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				PRESERV. ACID/BASE: ICE / COOL OTHER:		SAMPLING DATE TIME		CL BTEX TPH EXT											
Lab I.D. H002673		Sample I.D.		(GIRAB OR (C)OMP. # CONTAINERS		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE TIME		CL BTEX TPH EXT											
1		N @ Surface		G		I		I		10/5/20 8:45 AM		✓											
2		E @ Surface		G		I		I		10/5/20 8:57 AM		✓											
3		W @ Surface		G		I		I		10/5/20 9:12 AM		✓											
4		S @ Surface		G		I		I		10/5/20 9:29 AM		✓											
5		SP1 @ Surface		G		I		I		10/5/20 9:42 AM		✓											
6		SP1 @ 1'		G		I		I		10/5/20 9:55 AM		✓											
7		SP1 @ 2'		G		I		I		10/5/20 10:16 AM		✓											
8		SP2 @ Surface		G		I		I		10/5/20 10:37 AM		✓											
9		SP2 @ 1'		G		I		I		10/5/20 10:53 AM		✓											
10		SP2 @ 2'		G		I		I		10/5/20 11:05 AM		✓											

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Relinquished By: Simon Rendon Date: 10-7-20 Time: 7:00 AM		Received By: Israel Pena Date: 10-7-20 Time: 8:00 AM		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:	
Relinquished By: Israel Pena Date: 10-7-20 Time: 1:00 PM		Received By: Yvonne Muniz Date: 10-7-20 Time: 1:00 PM		Delivered By: (Circle One) Sampler - UPS - Bus - Other: #113-661	
Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) ym			

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(2084)

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(3084)

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241 Phone #: 575-397-6388 Fax #: 575-397-0397 Project #: Project Owner: Oxy Project Name: Fed 23-2 (8-24-20) Project Location: EDDY COUNTY, NM Sampler Name: Simon Rendon				BILL TO P.O. #: Company: OXY Attn: WADE Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST																											
FOR LAB USE ONLY Lab I.D. Sample I.D.				MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				PRESERV. ACID/BASE: ICE / COOL OTHER:				SAMPLING DATE TIME				CL BTEX TPH EXT																			
H007673 21 SP6 @ Surface 22 SP6 @ 1' 23 SP6 @ 2' 24 SP7 @ Surface 25 SP7 @ 1' 26 SP7 @ 2' 27 SP8 @ Surface 28 SP8 @ 1' 29 SP8 @ 2' 30 SP9 @ Surface				(G)RAB OR (C)OMP. # CONTAINERS G I I I I I I I I I				I I I I I I I I I				I I I I I I I I I				10/6/20 8:40 AM 10/6/20 8:52 AM 10/6/20 9:06 AM 10/6/20 9:20 AM 10/6/20 9:32 AM 10/6/20 9:45 AM 10/6/20 9:54 AM 10/6/20 10:22 AM 10/6/20 10:37 AM 10/6/20 10:50 AM				✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓				✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓				✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓				added 10/8/20 10:00			

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

Relinquished By: Simon Rendon Date: 10-7-20 Time: 2:00 PM	Received By: Israel Pantoja Date: 10-7-20 Time: 5:00 PM	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:
Relinquished By: Israel Pantoja Date: 10-7-20 Time: 5:00 PM	Received By: Uponne Muniz Date: 10-7-20 Time: 1:00 PM	Delivered By: (Circle One) Sampler - UPS - Bus - Other: #113 to 1
Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		
Delivered By: (Circle One) Sampler - UPS - Bus - Other: #113 to 1		CHECKED BY: (Initials) ym

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

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District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 17414

CONDITIONS OF APPROVAL

Operator:	OXY USA INC	P.O. Box 4294	Houston, TX772104294	OGRID:	16696	Action Number:	17414	Action Type:	C-141
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OCD Reviewer	Condition
chensley	Please collect more confirmation samples, representing no more than 200 square feet, unless OXY chooses to provide a sampling plan for approval prior to conduction additional sampling.
chensley	When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.