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DELINEATION/REMEDATION WORKPLAN

OXY – FEDERAL 27-1 CTB (Leak Date: 7/8/20)

Incident Reference #: NRM2020928148

This delineation workplan and remediation proposal addresses the releases associated with Incident Reference #: NRM2020928148.

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 – SP6 (yellow shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP7 and SP8 (purple shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP9 (pink shade on diagram) will be excavated to a depth of 2 feet.

OXY will collect sidewall and confirmation samples every 300 square feet. The estimated amount of soil to be excavated is 354 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	NRM2020928148
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?	370 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

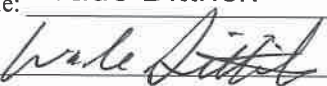
Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	NRM2020928148
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	NRM2020928148
District RP	
Facility ID	
Application ID	

Remediation Plan

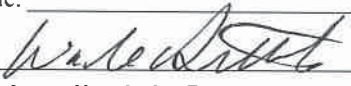
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

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

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

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

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

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

OCD Only

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

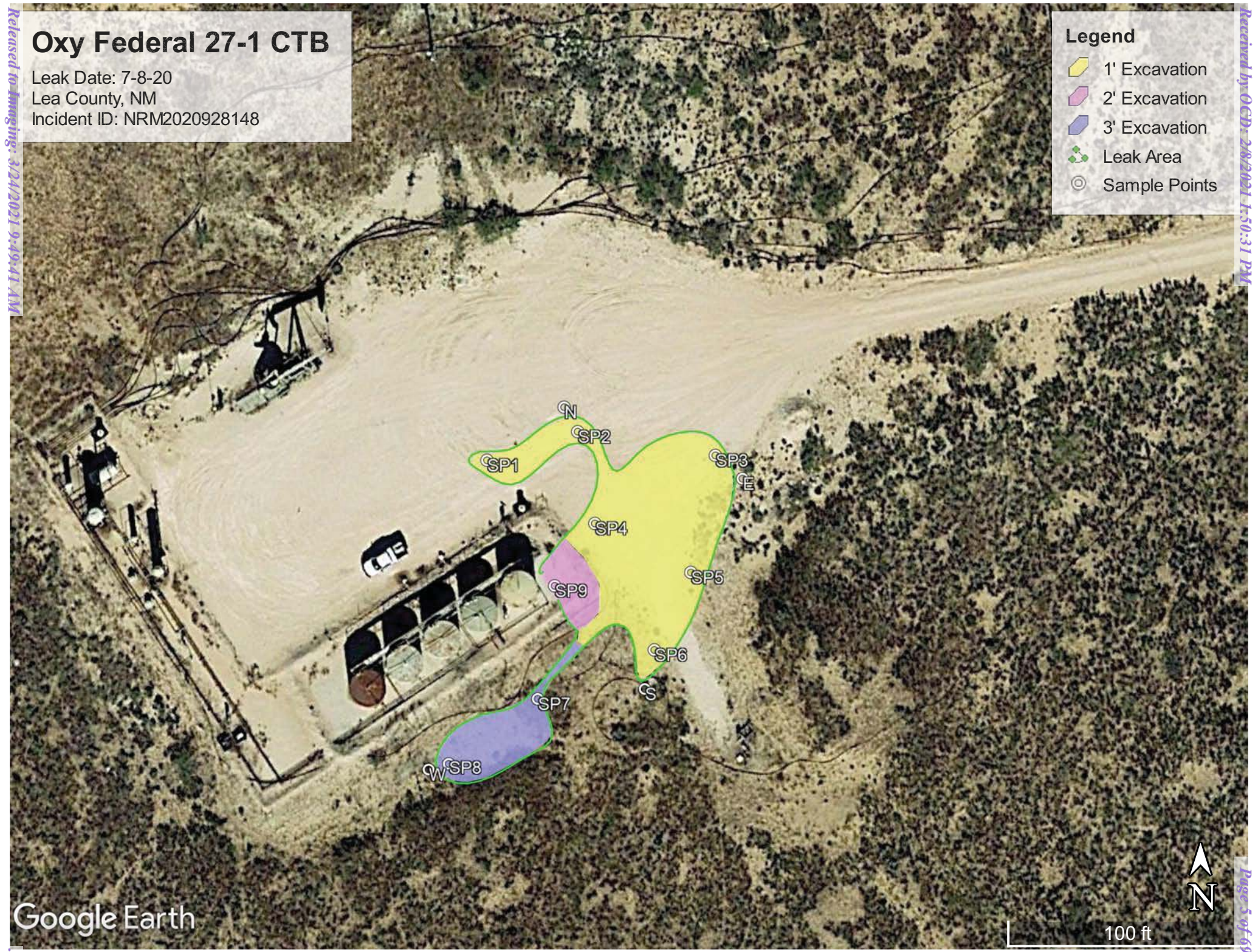
☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  Date: 03/24/2021

Oxy Federal 27-1 CTB

Leak Date: 7-8-20
Lea County, NM
Incident ID: NRM2020928148

- Legend**
- 1' Excavation
 - 2' Excavation
 - 3' Excavation
 - Leak Area
 - Sample Points



Oxy, Federal 27-1 CTB (7-8-20)

Sample points

SP1, N 32.35619 W 103.66342

SP2, N 32.35623 W 103.66330

SP3, N 32.35620 W 103.66311

SP4, N 32.35612 W 103.66327

SP5, N 32.35607 W 103.66314

SP6, N 32.35598 W 103.66319

SP7, N 32.35592 W 103.66335

SP8, N 32.35585 W 103.66347

SP9, N 32.35605 W 103.66333

NORTH, N 32.35626 W 103.66331

EAST, N 32.35617 W 103.66307

WEST, N 32.35584 W 103.66350

SOUTH, N 32.35593 W 103.66320



USGS Home
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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

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- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 322314103383601

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

USGS 322314103383601 22S.32E.14.32422

Lea County, New Mexico
Latitude 32°23'14", Longitude 103°38'36" NAD27
Land-surface elevation 3,740 feet above NAVD88
The depth of the well is 380 feet below land surface.
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	? Source of measurement
1972-09-13		D	370.40			2		U		

Explanation

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

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Title: Groundwater for New Mexico: Water Levels

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

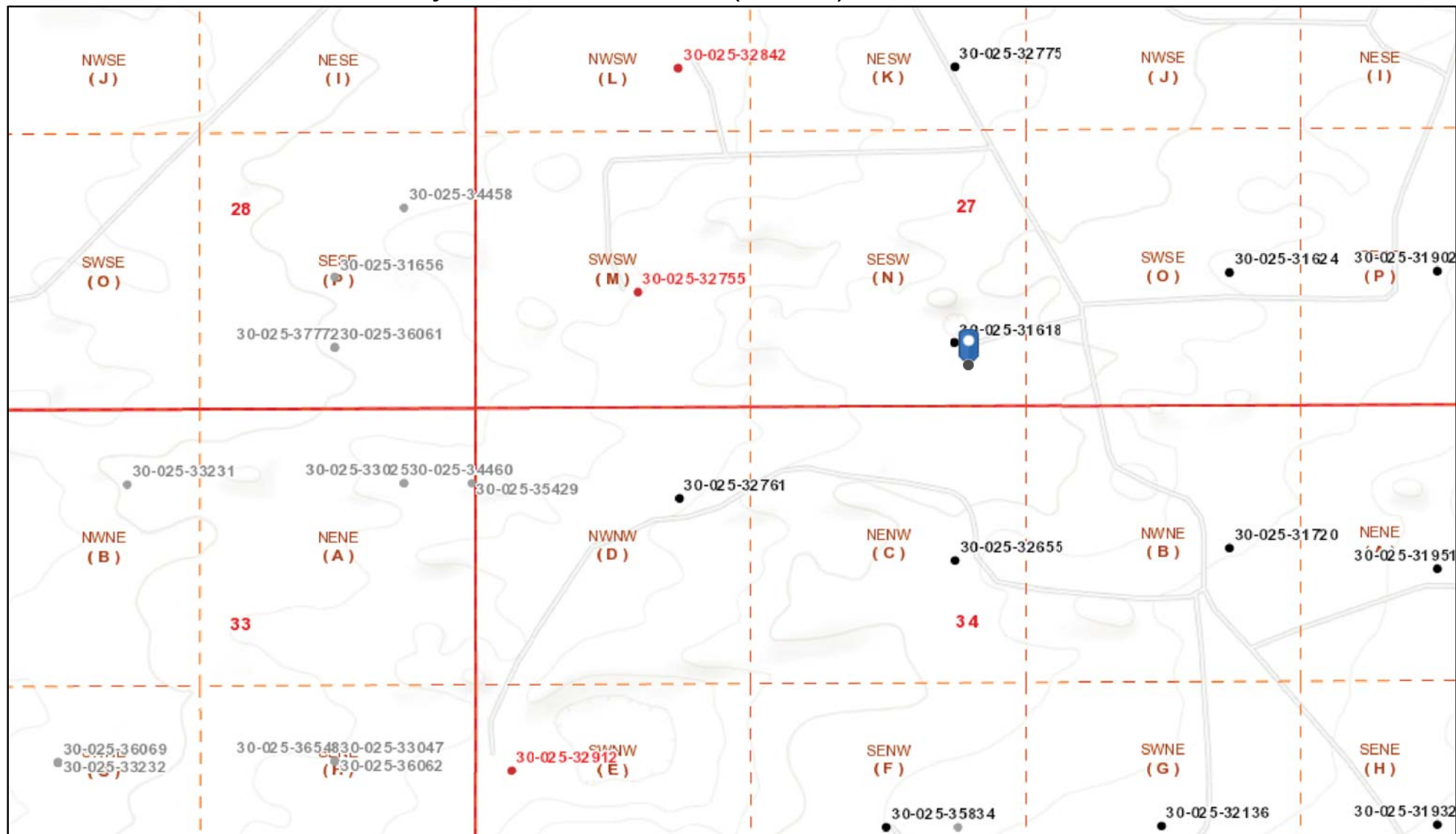


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2020-08-03 16:34:57 EDT

0.28 0.26 nadww01

Oxy Federal 27-1 CTB (7-8-20) +3,000 to h2o



8/3/2020, 1:38:34 PM

Wells - Large Scale

? undefined

● Miscellaneous

✱ CO2, Active

✱ CO2, Cancelled

✱ CO2, New

✱ CO2, Plugged

✱ CO2, Temporarily Abandoned

✱ Gas, Active

✱ Gas, Cancelled

✱ Gas, New

✱ Gas, Plugged

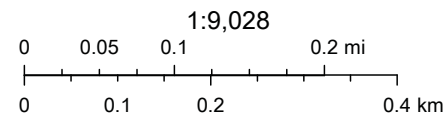
✱ Gas, Temporarily Abandoned

✱ Injection, Active

✱ Injection, Cancelled

✱ Injection, New

✱ Injection, Plugged



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


New Mexico Oil Conservation Division


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

Oxy Federal 27-1 CTB
Leak Date: 7-8-2020
Lea County, NM
API: 30-025-31618
Incident ID: 2020928148

BLM CAVE KARST MAP

Legend

 Leak Area

 Low Potential



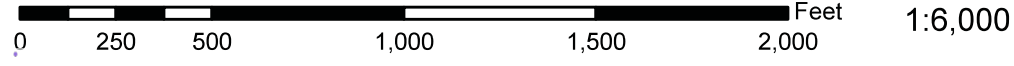
Released to: *Findings*: 3/24/2021 9:49:41 AM

Received by: *OCD*: 2/8/2021 1:50:31 PM

National Flood Hazard Layer FIRMette



103°40'7"W 32°21'37"N



103°39'30"W 32°21'6"N

Legend

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

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

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/3/2020 at 3:32 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.

Retrieved to Imaging: 3/21/2021 9:49:41 AM

Received by OCD: 2/8/2021 1:50:31 PM

Laboratory Analytical Results Summary
Oxy, Federal 27-1 CTB (7-8-20)

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	8/18/20	8/18/20	8/18/20	8/18/20
			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		160	16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		21.1	<10.0	10.9	<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	8/18/20	8/18/20	8/18/20
			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		0.072	<0.050	n/a
Total Xylenes	BTEX 8021B		0.213	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		192	96.0	128
GRO	TPH 8015M		<50.0	<10.0	n/a
DRO	TPH 8015M		10600	57.8	n/a
EXT DRO	TPH 8015M		3510	28.5	n/a

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	8/18/20	8/18/20	8/18/20
			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		0.060	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.179	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		208	32.0	<16.0
GRO	TPH 8015M		<50.0	<10.0	<10.0
DRO	TPH 8015M		9390	286	98.7
EXT DRO	TPH 8015M		3140	86.1	26.1

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	8/18/20	8/18/20	8/18/20
			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		0.083	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.536	<0.150	<0.150
Total BTEX	BTEX 8021B		0.619	<0.300	<0.300
Chloride	SM4500Cl-B		496	80.0	80.0
GRO	TPH 8015M		71.6	<10.0	<10.0
DRO	TPH 8015M		25000	94.8	27.6
EXT DRO	TPH 8015M		7130	42.6	<10.0

Laboratory Analytical Results Summary
Oxy, Federal 27-1 CTB (7-8-20)

		Sample ID	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	8/18/20	8/18/20	8/18/20	8/18/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.333	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		2.32	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		2.65	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		24000	32.0	32.0	<16.0
GRO	TPH 8015M		107	<10.0	<10.0	n/a
DRO	TPH 8015M		9220	336	40.9	n/a
EXT DRO	TPH 8015M		2170	95.5	14.6	n/a

		Sample ID	SP5 @ Surface	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	8/18/20	8/18/20	8/18/20
			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		0.067	<0.050	n/a
Total Xylenes	BTEX 8021B		0.296	<0.150	n/a
Total BTEX	BTEX 8021B		0.363	<0.300	n/a
Chloride	SM4500Cl-B		800	16.0	16.0
GRO	TPH 8015M		<50.0	<10.0	n/a
DRO	TPH 8015M		13200	<10.0	n/a
EXT DRO	TPH 8015M		3390	<10.0	n/a

		Sample ID	SP6 @ Surface	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'
Analyte	Method	Date	8/19/20	8/19/20	8/19/20	8/19/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		0.245	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		11600	256	80.0	16.0
GRO	TPH 8015M		<50.0	<10.0	<10.0	n/a
DRO	TPH 8015M		12500	423	31.1	n/a
EXT DRO	TPH 8015M		3290	174	19	n/a

		Sample ID	SP7 @ Surface	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'
Analyte	Method	Date	8/19/20	8/19/20	8/19/20	8/19/20	8/19/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.189	0.059	0.256	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		2.81	1.02	3.72	<0.150	n/a
Total BTEX	BTEX 8021B		3.00	1.08	3.97	<0.300	n/a
Chloride	SM4500Cl-B		2920	1040	544	16.0	16.0
GRO	TPH 8015M		218	77.1	291	<10.0	n/a
DRO	TPH 8015M		14600	2130	3400	<10.0	n/a
EXT DRO	TPH 8015M		3900	794	958	<10.0	n/a

Laboratory Analytical Results Summary
Oxy, Federal 27-1 CTB (7-8-20)

		Sample ID	SP8 @ Surface	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'	SP8 @ 4'
Analyte	Method	Date	8/19/20	8/19/20	8/19/20	8/19/20	8/19/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		0.060	<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		1.99	<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		2.05	<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		3280	1070	656	16.0	16.0
GRO	TPH 8015M		133	<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		8490	71.7	<10.0	n/a	n/a
EXT DRO	TPH 8015M		2010	19.1	<10.0	n/a	n/a

		Sample ID	SP9 @ Surface	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'
Analyte	Method	Date	8/19/20	8/19/20	8/19/20	8/20/20
			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		0.066	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.365	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		0.431	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		7120	368	272	128
GRO	TPH 8015M		50.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		17500	1670	138	255
EXT DRO	TPH 8015M		4250	519	35.9	49.9



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

September 02, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: FEDERAL 27 - 1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 08/26/20 14:45.

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

www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NORTH @ SURFACE	H002257-01	Soil	18-Aug-20 09:25	26-Aug-20 14:45
EAST @ SURFACE	H002257-02	Soil	18-Aug-20 09:37	26-Aug-20 14:45
WEST @ SURFACE	H002257-03	Soil	18-Aug-20 09:48	26-Aug-20 14:45
SOUTH @ SURFACE	H002257-04	Soil	18-Aug-20 10:04	26-Aug-20 14:45
SP 1 @ SURFACE	H002257-05	Soil	18-Aug-20 10:34	26-Aug-20 14:45
SP 1 @ 1'	H002257-06	Soil	18-Aug-20 10:48	26-Aug-20 14:45
SP 1 @ 2'	H002257-07	Soil	18-Aug-20 11:07	26-Aug-20 14:45
SP 2 @ SURFACE	H002257-08	Soil	18-Aug-20 11:25	26-Aug-20 14:45
SP 2 @ 1'	H002257-09	Soil	18-Aug-20 11:44	26-Aug-20 14:45
SP 2 @ 2'	H002257-10	Soil	18-Aug-20 12:03	26-Aug-20 14:45
SP 3 @ SURFACE	H002257-11	Soil	18-Aug-20 12:48	26-Aug-20 14:45
SP 3 @ 1'	H002257-12	Soil	18-Aug-20 13:08	26-Aug-20 14:45
SP 3 @ 2'	H002257-13	Soil	18-Aug-20 13:21	26-Aug-20 14:45
SP 4 @ SURFACE	H002257-14	Soil	18-Aug-20 13:38	26-Aug-20 14:45
SP 4 @ 1'	H002257-15	Soil	18-Aug-20 13:53	26-Aug-20 14:45
SP 4 @ 2'	H002257-16	Soil	18-Aug-20 14:17	26-Aug-20 14:45
SP 4 @ 3'	H002257-17	Soil	18-Aug-20 14:32	26-Aug-20 14:45
SP 5 @ SURFACE	H002257-18	Soil	18-Aug-20 14:46	26-Aug-20 14:45
SP 5 @ 1'	H002257-19	Soil	18-Aug-20 15:04	26-Aug-20 14:45
SP 5 @ 2'	H002257-20	Soil	18-Aug-20 15:15	26-Aug-20 14:45
SP 6 @ SURFACE	H002257-21	Soil	19-Aug-20 09:00	26-Aug-20 14:45
SP 6 @ 1'	H002257-22	Soil	19-Aug-20 09:12	26-Aug-20 14:45
SP 6 @ 2'	H002257-23	Soil	19-Aug-20 09:25	26-Aug-20 14:45
SP 6 @ 3'	H002257-24	Soil	19-Aug-20 09:38	26-Aug-20 14:45
SP 7 @ SURFACE	H002257-25	Soil	19-Aug-20 09:50	26-Aug-20 14:45
SP 7 @ 1'	H002257-26	Soil	19-Aug-20 10:03	26-Aug-20 14:45
SP 7 @ 2'	H002257-27	Soil	19-Aug-20 10:27	26-Aug-20 14:45

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 7 @ 3'	H002257-28	Soil	19-Aug-20 10:48	26-Aug-20 14:45
SP 7 @ 4'	H002257-29	Soil	19-Aug-20 11:10	26-Aug-20 14:45
SP 8 @ SURFACE	H002257-30	Soil	19-Aug-20 11:21	26-Aug-20 14:45
SP 8 @ 1'	H002257-31	Soil	19-Aug-20 11:37	26-Aug-20 14:45
SP 8 @ 2'	H002257-32	Soil	19-Aug-20 11:49	26-Aug-20 14:45
SP 8 @ 3'	H002257-33	Soil	19-Aug-20 12:44	26-Aug-20 14:45
SP 8 @ 4'	H002257-34	Soil	19-Aug-20 12:56	26-Aug-20 14:45
SP 9 @ SURFACE	H002257-35	Soil	19-Aug-20 13:12	26-Aug-20 14:45
SP 9 @ 1'	H002257-36	Soil	19-Aug-20 13:24	26-Aug-20 14:45
SP 9 @ 2'	H002257-37	Soil	19-Aug-20 13:42	26-Aug-20 14:45
SP 9 @ 3'	H002257-38	Soil	19-Aug-20 13:57	26-Aug-20 14:45

09/02/20 - Client added BTEX and TPH to samples -10, -13, -37 and -38 on 08/28/20. This is the revised report and will replace the one sent on 08/28/20.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

NORTH @ SURFACE
H002257-01 (Soil)

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

Chloride	160		16.0	mg/kg	4	0082713	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082705	ms	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.3-129 0082705 ms 27-Aug-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	
DRO >C10-C28*	21.1		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane 98.8 % 44.3-144 0082612 MS 27-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 101 % 42.2-156 0082612 MS 27-Aug-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

EAST @ SURFACE**H002257-02 (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	0082713	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082705	ms	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	73.3-129		0082705	ms	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane			106 %	44.3-144		0082612	MS	27-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane			110 %	42.2-156		0082612	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

WEST @ SURFACE**H002257-03 (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	0082713	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082705	ms	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	73.3-129		0082705	ms	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	
DRO >C10-C28*	10.9		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane			109 %	44.3-144		0082612	MS	27-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane			112 %	42.2-156		0082612	MS	27-Aug-20	8015B	
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SOUTH @ SURFACE**H002257-04 (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	0082713	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082705	ms	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	73.3-129		0082705	ms	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane			105 %	44.3-144		0082612	MS	27-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane			106 %	42.2-156		0082612	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 1 @ SURFACE**H002257-05 (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	0082713	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Ethylbenzene*	0.072		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total Xylenes*	0.213		0.150	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082705	ms	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 125 % 73.3-129 0082705 ms 27-Aug-20 8021B

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

GRO C6-C10*	<50.0		50.0	mg/kg	5	0082612	MS	27-Aug-20	8015B	
DRO >C10-C28*	10600		50.0	mg/kg	5	0082612	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	3510		50.0	mg/kg	5	0082612	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane 103 % 44.3-144 0082612 MS 27-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 617 % 42.2-156 0082612 MS 27-Aug-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 1 @ 1'
H002257-06 (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	0082713	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082705	ms	27-Aug-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	73.3-129		0082705	ms	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	
DRO >C10-C28*	57.8		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	28.5		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			94.9 %	44.3-144		0082612	MS	27-Aug-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			99.8 %	42.2-156		0082612	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
02-Sep-20 14:53**SP 1 @ 2'**
H002257-07 (Soil)

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

Chloride	128		16.0	mg/kg	4	0082713	GM	27-Aug-20	4500-CI-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: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 2 @ SURFACE**H002257-08 (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	0082713	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Ethylbenzene*	0.060		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total Xylenes*	0.179		0.150	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082705	ms	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.3-129 0082705 ms 27-Aug-20 8021B

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

GRO C6-C10*	<50.0		50.0	mg/kg	5	0082612	MS	27-Aug-20	8015B	
DRO >C10-C28*	9390		50.0	mg/kg	5	0082612	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	3140		50.0	mg/kg	5	0082612	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane 109 % 44.3-144 0082612 MS 27-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 546 % 42.2-156 0082612 MS 27-Aug-20 8015B

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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 2 @ 1'
H002257-09 (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	0082713	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082705	ms	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		111 %		73.3-129		0082705	ms	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	
DRO >C10-C28*	286		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	86.1		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane		105 %		44.3-144		0082612	MS	27-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane		118 %		42.2-156		0082612	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 2 @ 2'
H002257-10 (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	0082713	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082809	MS	28-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082809	MS	28-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082809	MS	28-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0082809	MS	28-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082809	MS	28-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3-129		0082809	MS	28-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0082810	MS	31-Aug-20	8015B	
DRO >C10-C28*	98.7		10.0	mg/kg	1	0082810	MS	31-Aug-20	8015B	
EXT DRO >C28-C36	26.1		10.0	mg/kg	1	0082810	MS	31-Aug-20	8015B	

Surrogate: 1-Chlorooctane			123 %	44.3-144		0082810	MS	31-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane			133 %	42.2-156		0082810	MS	31-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 3 @ SURFACE**H002257-11 (Soil)**

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

Chloride	496		16.0	mg/kg	4	0082713	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Ethylbenzene*	0.083		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total Xylenes*	0.536		0.150	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total BTEX	0.619		0.300	mg/kg	50	0082705	ms	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		146 %		73.3-129		0082705	ms	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	71.6		50.0	mg/kg	5	0082612	MS	27-Aug-20	8015B	
DRO >C10-C28*	25000		50.0	mg/kg	5	0082612	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	7130		50.0	mg/kg	5	0082612	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane		136 %		44.3-144		0082612	MS	27-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane		1300 %		42.2-156		0082612	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 3 @ 1'
H002257-12 (Soil)

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

Chloride	80.0		16.0	mg/kg	4	0082713	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082705	ms	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		110 %	73.3-129			0082705	ms	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	
DRO >C10-C28*	94.8		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	42.6		10.0	mg/kg	1	0082612	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane		105 %	44.3-144			0082612	MS	27-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane		112 %	42.2-156			0082612	MS	27-Aug-20	8015B	
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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 3 @ 2'
H002257-13 (Soil)

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

Chloride	80.0		16.0	mg/kg	4	0082713	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082809	MS	28-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082809	MS	28-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082809	MS	28-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0082809	MS	28-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082809	MS	28-Aug-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	73.3-129		0082809	MS	28-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0082810	MS	31-Aug-20	8015B	
DRO >C10-C28*	27.6		10.0	mg/kg	1	0082810	MS	31-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0082810	MS	31-Aug-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			132 %	44.3-144		0082810	MS	31-Aug-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			139 %	42.2-156		0082810	MS	31-Aug-20	8015B	
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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 4 @ SURFACE**H002257-14 (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	0082713	GM	27-Aug-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Ethylbenzene*	0.333		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total Xylenes*	2.32		0.150	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total BTEX	2.65		0.300	mg/kg	50	0082705	ms	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		236 %		73.3-129		0082705	ms	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	107		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	
DRO >C10-C28*	9220		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	2170		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane		121 %		44.3-144		0082701	MS	27-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane		376 %		42.2-156		0082701	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 4 @ 1'
H002257-15 (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	0082713	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082705	ms	27-Aug-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			114 %	73.3-129		0082705	ms	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	
DRO >C10-C28*	336		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	95.5		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			104 %	44.3-144		0082701	MS	27-Aug-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			123 %	42.2-156		0082701	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 4 @ 2'
H002257-16 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	0082718	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082705	ms	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		111 %		73.3-129		0082705	ms	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	
DRO >C10-C28*	40.9		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	14.6		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane		103 %		44.3-144		0082701	MS	27-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane		119 %		42.2-156		0082701	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 4 @ 3'
H002257-17 (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	0082718	GM	27-Aug-20	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 5 @ SURFACE**H002257-18 (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	0082718	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Ethylbenzene*	0.067		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total Xylenes*	0.296		0.150	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total BTEX	0.363		0.300	mg/kg	50	0082705	ms	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		126 %		73.3-129		0082705	ms	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	<50.0		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	
DRO >C10-C28*	13200		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	3390		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane		108 %		44.3-144		0082701	MS	27-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane		698 %		42.2-156		0082701	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 5 @ 1'
H002257-19 (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	0082718	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082705	ms	27-Aug-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	73.3-129		0082705	ms	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			105 %	44.3-144		0082701	MS	27-Aug-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			113 %	42.2-156		0082701	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
02-Sep-20 14:53**SP 5 @ 2'**
H002257-20 (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	0082718	GM	27-Aug-20	4500-CI-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: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 6 @ SURFACE**H002257-21 (Soil)**

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

Chloride	11600		16.0	mg/kg	4	0082718	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total Xylenes*	0.245		0.150	mg/kg	50	0082705	ms	27-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082705	ms	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			134 %		73.3-129	0082705	ms	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	<50.0		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	
DRO >C10-C28*	12500		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	3290		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane			108 %		44.3-144	0082701	MS	27-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane			547 %		42.2-156	0082701	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 6 @ 1'
H002257-22 (Soil)

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

Chloride	256		16.0	mg/kg	4	0082718	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082706	MS	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129 0082706 MS 27-Aug-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	
DRO >C10-C28*	423		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	174		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane 101 % 44.3-144 0082701 MS 27-Aug-20 8015B

Surrogate: 1-Chlorooctadecane 121 % 42.2-156 0082701 MS 27-Aug-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 6 @ 2'
H002257-23 (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	80.0		16.0	mg/kg	4	0082718	GM	27-Aug-20	4500-Cl-B	

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082706	MS	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.3-129		0082706	MS	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	
DRO >C10-C28*	31.1		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	QM-07, QR-03
EXT DRO >C28-C36	19.0		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane			103 %	44.3-144		0082701	MS	27-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane			114 %	42.2-156		0082701	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 6 @ 3'
H002257-24 (Soil)

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	16.0		16.0	mg/kg	4	0082718	GM	27-Aug-20	4500-CI-B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 7 @ SURFACE**H002257-25 (Soil)**

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

Chloride	2920		16.0	mg/kg	4	0082718	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Toluene*	0.189		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total Xylenes*	2.81		0.150	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total BTEX	3.00		0.300	mg/kg	50	0082706	MS	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		220 %		73.3-129		0082706	MS	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	218		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	
DRO >C10-C28*	14600		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	3900		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane		152 %		44.3-144		0082701	MS	27-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane		732 %		42.2-156		0082701	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 7 @ 1'
H002257-26 (Soil)

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

Chloride	1040		16.0	mg/kg	4	0082718	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Toluene*	0.059		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total Xylenes*	1.02		0.150	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total BTEX	1.08		0.300	mg/kg	50	0082706	MS	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		173 %		73.3-129		0082706	MS	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	77.1		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	
DRO >C10-C28*	2130		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	794		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane		113 %		44.3-144		0082701	MS	27-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane		188 %		42.2-156		0082701	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 7 @ 2'
H002257-27 (Soil)

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

Chloride	544		16.0	mg/kg	4	0082718	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Toluene*	0.256		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total Xylenes*	3.72		0.150	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total BTEX	3.97		0.300	mg/kg	50	0082706	MS	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		179 %		73.3-129		0082706	MS	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	291		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	
DRO >C10-C28*	3400		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	958		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane		115 %		44.3-144		0082701	MS	27-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane		192 %		42.2-156		0082701	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 7 @ 3'
H002257-28 (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	0082718	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082706	MS	27-Aug-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	73.3-129		0082706	MS	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			70.1 %	44.3-144		0082701	MS	27-Aug-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			79.0 %	42.2-156		0082701	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 7 @ 4'
H002257-29 (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	0082718	GM	27-Aug-20	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 8 @ SURFACE**H002257-30 (Soil)**

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

Chloride	3280		16.0	mg/kg	4	0082718	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Toluene*	0.060		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total Xylenes*	1.99		0.150	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total BTEX	2.05		0.300	mg/kg	50	0082706	MS	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		216 %		73.3-129		0082706	MS	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	133		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	
DRO >C10-C28*	8490		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	2010		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane		169 %		44.3-144		0082701	MS	27-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane		452 %		42.2-156		0082701	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 8 @ 1'
H002257-31 (Soil)

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

Chloride	1070		16.0	mg/kg	4	0082718	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Toluene*	<0.050	0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	0082706	MS	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %	73.3-129	0082706	MS	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0	10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	
DRO >C10-C28*	71.7	10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	19.1	10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane	138 %	44.3-144	0082701	MS	27-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane	157 %	42.2-156	0082701	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 8 @ 2'
H002257-32 (Soil)

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

Chloride	656		16.0	mg/kg	4	0082718	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082706	MS	27-Aug-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	73.3-129		0082706	MS	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			135 %	44.3-144		0082701	MS	27-Aug-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			150 %	42.2-156		0082701	MS	27-Aug-20	8015B	
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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, 88241Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
02-Sep-20 14:53**SP 8 @ 3'**
H002257-33 (Soil)

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

Chloride	16.0		16.0	mg/kg	4	0082718	GM	27-Aug-20	4500-CI-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: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 8 @ 4'
H002257-34 (Soil)

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	16.0		16.0	mg/kg	4	0082718	GM	27-Aug-20	4500-Cl-B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 9 @ SURFACE**H002257-35 (Soil)**

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

Chloride	7120		16.0	mg/kg	4	0082718	GM	27-Aug-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Ethylbenzene*	0.066		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total Xylenes*	0.365		0.150	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total BTEX	0.431		0.300	mg/kg	50	0082706	MS	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	136 %		73.3-129			0082706	MS	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	50.0		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	
DRO >C10-C28*	17500		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	4250		50.0	mg/kg	5	0082701	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane	165 %		44.3-144			0082701	MS	27-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane	853 %		42.2-156			0082701	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 9 @ 1'
H002257-36 (Soil)

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

Chloride	368		16.0	mg/kg	4	0082719	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0082706	MS	27-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082706	MS	27-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %	73.3-129		0082706	MS	27-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	
DRO >C10-C28*	1670		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	
EXT DRO >C28-C36	519		10.0	mg/kg	1	0082701	MS	27-Aug-20	8015B	

Surrogate: 1-Chlorooctane			126 %	44.3-144		0082701	MS	27-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane			181 %	42.2-156		0082701	MS	27-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 9 @ 2'
H002257-37 (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	0082719	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	0082809	MS	28-Aug-20	8021B	
Toluene*	<0.050	0.050	mg/kg	50	0082809	MS	28-Aug-20	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	0082809	MS	28-Aug-20	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	0082809	MS	28-Aug-20	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	0082809	MS	28-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	101 %	73.3-129	0082809	MS	28-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	0082810	MS	31-Aug-20	8015B	
DRO >C10-C28*	138	10.0	mg/kg	1	0082810	MS	31-Aug-20	8015B	
EXT DRO >C28-C36	35.9	10.0	mg/kg	1	0082810	MS	31-Aug-20	8015B	

Surrogate: 1-Chlorooctane	129 %	44.3-144	0082810	MS	31-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane	140 %	42.2-156	0082810	MS	31-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

SP 9 @ 3'
H002257-38 (Soil)

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

Chloride	128		16.0	mg/kg	4	0082719	GM	27-Aug-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0082809	MS	28-Aug-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0082809	MS	28-Aug-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0082809	MS	28-Aug-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0082809	MS	28-Aug-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0082809	MS	28-Aug-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3-129		0082809	MS	28-Aug-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0082810	MS	31-Aug-20	8015B	
DRO >C10-C28*	255		10.0	mg/kg	1	0082810	MS	31-Aug-20	8015B	
EXT DRO >C28-C36	49.9		10.0	mg/kg	1	0082810	MS	31-Aug-20	8015B	

Surrogate: 1-Chlorooctane			133 %	44.3-144		0082810	MS	31-Aug-20	8015B	
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Surrogate: 1-Chlorooctadecane			147 %	42.2-156		0082810	MS	31-Aug-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0082713 - 1:4 DI Water**Blank (0082713-BLK1)**

Prepared & Analyzed: 27-Aug-20

Chloride	ND	16.0	mg/kg							
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LCS (0082713-BS1)

Prepared & Analyzed: 27-Aug-20

Chloride	416	16.0	mg/kg	400		104	80-120			
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LCS Dup (0082713-BSD1)

Prepared & Analyzed: 27-Aug-20

Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
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Batch 0082718 - 1:4 DI Water**Blank (0082718-BLK1)**

Prepared & Analyzed: 27-Aug-20

Chloride	ND	16.0	mg/kg							
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LCS (0082718-BS1)

Prepared & Analyzed: 27-Aug-20

Chloride	400	16.0	mg/kg	400		100	80-120			
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LCS Dup (0082718-BSD1)

Prepared & Analyzed: 27-Aug-20

Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
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Batch 0082719 - 1:4 DI Water**Blank (0082719-BLK1)**

Prepared & Analyzed: 27-Aug-20

Chloride	ND	16.0	mg/kg							
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LCS (0082719-BS1)

Prepared & Analyzed: 27-Aug-20

Chloride	400	16.0	mg/kg	400		100	80-120			
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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: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0082719 - 1:4 DI Water**LCS Dup (0082719-BSD1)**

Prepared & Analyzed: 27-Aug-20

Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	
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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

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 0082705 - Volatiles**Blank (0082705-BLK1)**

Prepared & Analyzed: 27-Aug-20

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0552		mg/kg	0.0500		110	73.3-129			

LCS (0082705-BS1)

Prepared & Analyzed: 27-Aug-20

Benzene	1.95	0.050	mg/kg	2.00		97.7	72.2-131			
Toluene	1.98	0.050	mg/kg	2.00		98.8	71.7-126			
Ethylbenzene	1.96	0.050	mg/kg	2.00		98.1	68.9-126			
Total Xylenes	6.00	0.150	mg/kg	6.00		100	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0513		mg/kg	0.0500		103	73.3-129			

LCS Dup (0082705-BSD1)

Prepared & Analyzed: 27-Aug-20

Benzene	2.14	0.050	mg/kg	2.00		107	72.2-131	9.31	14.6	
Toluene	2.15	0.050	mg/kg	2.00		107	71.7-126	8.31	17.4	
Ethylbenzene	2.15	0.050	mg/kg	2.00		107	68.9-126	9.11	18.9	
Total Xylenes	6.56	0.150	mg/kg	6.00		109	71.4-125	8.90	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0509		mg/kg	0.0500		102	73.3-129			

Batch 0082706 - Volatiles**Blank (0082706-BLK1)**

Prepared & Analyzed: 27-Aug-20

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		99.8	73.3-129			

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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: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

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 0082706 - Volatiles**LCS (0082706-BS1)**

Prepared & Analyzed: 27-Aug-20

Benzene	1.99	0.050	mg/kg	2.00		99.3	72.2-131			
Toluene	2.02	0.050	mg/kg	2.00		101	71.7-126			
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	68.9-126			
Total Xylenes	5.78	0.150	mg/kg	6.00		96.3	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0519		mg/kg	0.0500		104	73.3-129			

LCS Dup (0082706-BS1)

Prepared & Analyzed: 27-Aug-20

Benzene	2.06	0.050	mg/kg	2.00		103	72.2-131	3.40	14.6	
Toluene	2.09	0.050	mg/kg	2.00		104	71.7-126	3.49	17.4	
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	68.9-126	3.62	18.9	
Total Xylenes	5.99	0.150	mg/kg	6.00		99.9	71.4-125	3.61	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0518		mg/kg	0.0500		104	73.3-129			

Batch 0082809 - Volatiles**Blank (0082809-BLK1)**

Prepared & Analyzed: 28-Aug-20

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0507		mg/kg	0.0500		101	73.3-129			

LCS (0082809-BS1)

Prepared & Analyzed: 28-Aug-20

Benzene	2.06	0.050	mg/kg	2.00		103	72.2-131			
Toluene	2.09	0.050	mg/kg	2.00		104	71.7-126			
Ethylbenzene	2.07	0.050	mg/kg	2.00		104	68.9-126			
Total Xylenes	5.97	0.150	mg/kg	6.00		99.5	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0519		mg/kg	0.0500		104	73.3-129			

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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: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

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 0082809 - Volatiles**LCS Dup (0082809-BSD1)**

Prepared & Analyzed: 28-Aug-20

Benzene	2.04	0.050	mg/kg	2.00		102	72.2-131	0.998	14.6	
Toluene	2.07	0.050	mg/kg	2.00		104	71.7-126	0.754	17.4	
Ethylbenzene	2.05	0.050	mg/kg	2.00		103	68.9-126	0.827	18.9	
Total Xylenes	5.92	0.150	mg/kg	6.00		98.6	71.4-125	0.956	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0514		mg/kg	0.0500		103	73.3-129			

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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0082612 - General Prep - Organics**Blank (0082612-BLK1)**

Prepared: 26-Aug-20 Analyzed: 27-Aug-20

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	52.5		mg/kg	50.0		105	44.3-144		
Surrogate: 1-Chlorooctadecane	54.4		mg/kg	50.0		109	42.2-156		

LCS (0082612-BS1)

Prepared: 26-Aug-20 Analyzed: 27-Aug-20

GRO C6-C10	206	10.0	mg/kg	200		103	78.8-127		
DRO >C10-C28	218	10.0	mg/kg	200		109	80-132		
Total TPH C6-C28	424	10.0	mg/kg	400		106	81.3-128		
Surrogate: 1-Chlorooctane	53.5		mg/kg	50.0		107	44.3-144		
Surrogate: 1-Chlorooctadecane	55.8		mg/kg	50.0		112	42.2-156		

LCS Dup (0082612-BS1)

Prepared: 26-Aug-20 Analyzed: 27-Aug-20

GRO C6-C10	202	10.0	mg/kg	200		101	78.8-127	1.79	15.1
DRO >C10-C28	214	10.0	mg/kg	200		107	80-132	1.72	17.1
Total TPH C6-C28	416	10.0	mg/kg	400		104	81.3-128	1.75	15
Surrogate: 1-Chlorooctane	53.0		mg/kg	50.0		106	44.3-144		
Surrogate: 1-Chlorooctadecane	55.4		mg/kg	50.0		111	42.2-156		

Batch 0082701 - General Prep - Organics**Blank (0082701-BLK1)**

Prepared & Analyzed: 27-Aug-20

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	50.4		mg/kg	50.0		101	44.3-144		
Surrogate: 1-Chlorooctadecane	53.4		mg/kg	50.0		107	42.2-156		

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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: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

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 0082701 - General Prep - Organics**LCS (0082701-BS1)**

Prepared & Analyzed: 27-Aug-20

GRO C6-C10	200	10.0	mg/kg	200		100	78.8-127			
DRO >C10-C28	211	10.0	mg/kg	200		105	80-132			
Total TPH C6-C28	411	10.0	mg/kg	400		103	81.3-128			
Surrogate: 1-Chlorooctane	52.8		mg/kg	50.0		106	44.3-144			
Surrogate: 1-Chlorooctadecane	56.4		mg/kg	50.0		113	42.2-156			

LCS Dup (0082701-BS1)

Prepared & Analyzed: 27-Aug-20

GRO C6-C10	192	10.0	mg/kg	200		96.0	78.8-127	4.28	15.1	
DRO >C10-C28	208	10.0	mg/kg	200		104	80-132	1.08	17.1	
Total TPH C6-C28	401	10.0	mg/kg	400		100	81.3-128	2.63	15	
Surrogate: 1-Chlorooctane	51.4		mg/kg	50.0		103	44.3-144			
Surrogate: 1-Chlorooctadecane	56.9		mg/kg	50.0		114	42.2-156			

Batch 0082810 - General Prep - Organics**Blank (0082810-BLK1)**

Prepared: 28-Aug-20 Analyzed: 31-Aug-20

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	53.6		mg/kg	50.0		107	44.3-144			
Surrogate: 1-Chlorooctadecane	55.1		mg/kg	50.0		110	42.2-156			

LCS (0082810-BS1)

Prepared: 28-Aug-20 Analyzed: 31-Aug-20

GRO C6-C10	211	10.0	mg/kg	200		106	78.8-127			
DRO >C10-C28	215	10.0	mg/kg	200		108	80-132			
Total TPH C6-C28	426	10.0	mg/kg	400		107	81.3-128			
Surrogate: 1-Chlorooctane	54.9		mg/kg	50.0		110	44.3-144			
Surrogate: 1-Chlorooctadecane	56.9		mg/kg	50.0		114	42.2-156			

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Analytical Results For:

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

Project: FEDERAL 27 - 1 CTB
Project Number: (7-8-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
02-Sep-20 14:53

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 0082810 - General Prep - Organics**LCS Dup (0082810-BSD1)**

Prepared: 28-Aug-20 Analyzed: 31-Aug-20

GRO C6-C10	203	10.0	mg/kg	200		102	78.8-127	3.82	15.1	
DRO >C10-C28	217	10.0	mg/kg	200		109	80-132	0.938	17.1	
Total TPH C6-C28	420	10.0	mg/kg	400		105	81.3-128	1.39	15	
Surrogate: 1-Chlorooctane	53.1		mg/kg	50.0		106	44.3-144			
Surrogate: 1-Chlorooctadecane	55.4		mg/kg	50.0		111	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

1044

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																		
Project Manager: Cliff Brunson				P.O. #:																						
Address: P.O. Box 805				Company: OXY																						
City: Hobbs State: NM Zip: 88241				Attn: WADE																						
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																						
Project #: Project Owner: Oxy				City:																						
Project Name: FEDERAL 27-1 CTB (7-8-20)				State: Zip:																						
Project Location: LEA COUNTY, NM				Phone #:																						
Sampler Name: Simon Rendon				Fax #:																						
FOR LAB USE ONLY																										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	CL	BTEX	TPH	EXT								
H002257																										
1	North @ Surface	9	1			1							8/18/20	9:25 AM	✓	✓	✓									
2	East @ Surface												8/18/20	9:37 AM	✓	✓	✓									
3	West @ Surface												8/18/20	9:48 AM	✓	✓	✓									
4	South @ Surface												8/18/20	10:04 AM	✓	✓	✓									
5	SP1 @ Surface												8/18/20	10:34 AM	✓	✓	✓									
6	SP1 @ 1'												8/18/20	10:48 AM	✓	✓	✓									
7	SP1 @ 2'												8/18/20	11:07 AM	✓	✓	✓									
8	SP2 @ Surface												8/18/20	11:25 AM	✓	✓	✓									
9	SP2 @ 1'												8/18/20	11:44 AM	✓	✓	✓									
10	SP2 @ 2'												8/18/20	12:03 PM	✓	✓	✓									

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Relinquished By:	Date: 8/26/20	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 14:45	Jodi Henson	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: -4.0c/#113	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	(Initials)		

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**• ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240


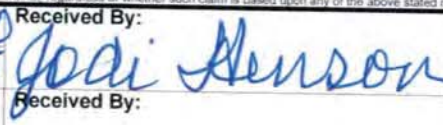
(505) 393-2326 FAX (505) 393-2476


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 4

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: FEDERAL 27-1 CTB (7-8-20) Project Location: LEA 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				PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.			(GRAB OR C/COMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	CL	BTEX	TPH	EXT							
H002257																											
11	SP3 @ Surface														8/16/20	12:48 PM	✓	✓	✓								
12	SP3 @ 1'														8/16/20	1:08 PM	✓	✓	✓								
13	SP3 @ 2'														8/16/20	1:21 PM	✓	✓	✓								
14	SP4 @ Surface														8/16/20	1:38 PM	✓	✓	✓								
15	SP4 @ 1'														8/16/20	1:53 PM	✓	✓	✓								
16	SP4 @ 2'														8/16/20	2:17 PM	✓	✓	✓								
17	SP4 @ 3'														8/16/20	2:32 PM	✓	✓	✓								
18	SP5 @ Surface														8/16/20	2:46 PM	✓	✓	✓								
19	SP5 @ 1'														8/16/20	3:04 PM	✓	✓	✓								
20	SP5 @ 2'														8/16/20	3:15 PM	✓	✓	✓								

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Relinquished By:	Date: 8/26/20	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 14:45		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other: -4.02 / #113	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 4

Company Name: BBC International, Inc.						BILL TO																		ANALYSIS REQUEST																	
Project Manager: Cliff Brunson						P.O. #:																																			
Address: P.O. Box 805						Company: OXY																																			
City: Hobbs State: NM Zip: 88241						Attn: WADE																																			
Phone #: 575-397-6388 Fax #: 575-397-0397						Address:																																			
Project #: Project Owner: Oxy						City:																																			
Project Name: FEDERAL 27-1 CTB (7-8-20)						State: Zip:																																			
Project Location: LEA COUNTY, NM						Phone #:																																			
Sampler Name: Simon Rendon						Fax #:																																			
FOR LAB USE ONLY						MATRIX						PRESERV.		SAMPLING																											
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CL	BTEX	TPH EXT																								
H002257																																									
21	SP6 @ Surface	G	1										8/19/20	9:00 AM	✓	✓	✓																								
22	SP6 @ 1'												8/19/20	9:12 AM	✓	✓	✓																								
23	SP6 @ 2'												8/19/20	9:25 AM	✓	✓	✓																								
24	SP6 @ 3'												8/19/20	9:38 AM	✓	✓																									
25	SP7 @ Surface												8/19/20	9:50 AM	✓	✓	✓																								
26	SP7 @ 1'												8/19/20	10:03 AM	✓	✓	✓																								
27	SP7 @ 2'												8/19/20	10:27 AM	✓	✓	✓																								
28	SP7 @ 3'												8/19/20	10:48 AM	✓	✓	✓																								
29	SP7 @ 4'												8/19/20	11:10 AM	✓	✓	✓																								
30	SP8 @ Surface												8/19/20	11:21 AM	✓	✓	✓																								
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Relinquished By: 										Date: 8/26/20 Time: 14:45										Received By: 										Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:											
Relinquished By:										Date:										Received By:										Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:											
Delivered By: (Circle One)										Time:										CHECKED BY: (Initials) 										REMARKS:											
Sampler - UPS - Bus - Other: 4.00 / #113										Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																															

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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 17418

CONDITIONS OF APPROVAL

Operator:				OGRID:		Action Number:	Action Type:
	OXY USA INC	P.O. Box 4294	Houston, TX772104294		16696	17418	C-141

OCD Reviewer	Condition
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.
chensley	Samples are representative of more than 200 square feet. Please collect more samples, representing no more than 200 square feet, unless OXY chooses to provide a sampling plan for approval prior to conduction additional sampling.