



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

DELINEATION/REMEDATION WORKPLAN

OXY – Cypress 28 Federal 4H (Leak Date: 8/29/19)

Incident ID: NRM2005141013

This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NRM2005141013.

The following information includes:

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

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

OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP1 and SP2 (GREEN shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP3, SP4, SP6 and SP8 (BLUE shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP5 and SP7 (YELLOW shade on diagram) will be excavated to a depth of 7.5 feet. The leak area near SP9 and SP10 (PURPLE shade on diagram) will be excavated to a depth of 4 feet.

Bottom confirmation samples will be collected every 75 feet. The estimated amount of soil to be excavated is 1078 cubic yards. Remediation activities will commence within 90 days of all approvals.

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

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

Form C-141

Page 3

State of New Mexico
Oil Conservation Division

Incident ID	NRM2005141013
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?	35 (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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	NRM2005141013
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: 7-12-20email: wade_dittrich@oxy.comTelephone: (575) 390-2828**OCD Only**

Received by: _____

Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 5

Incident ID	NRM2005141013
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: 7-17-20
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

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

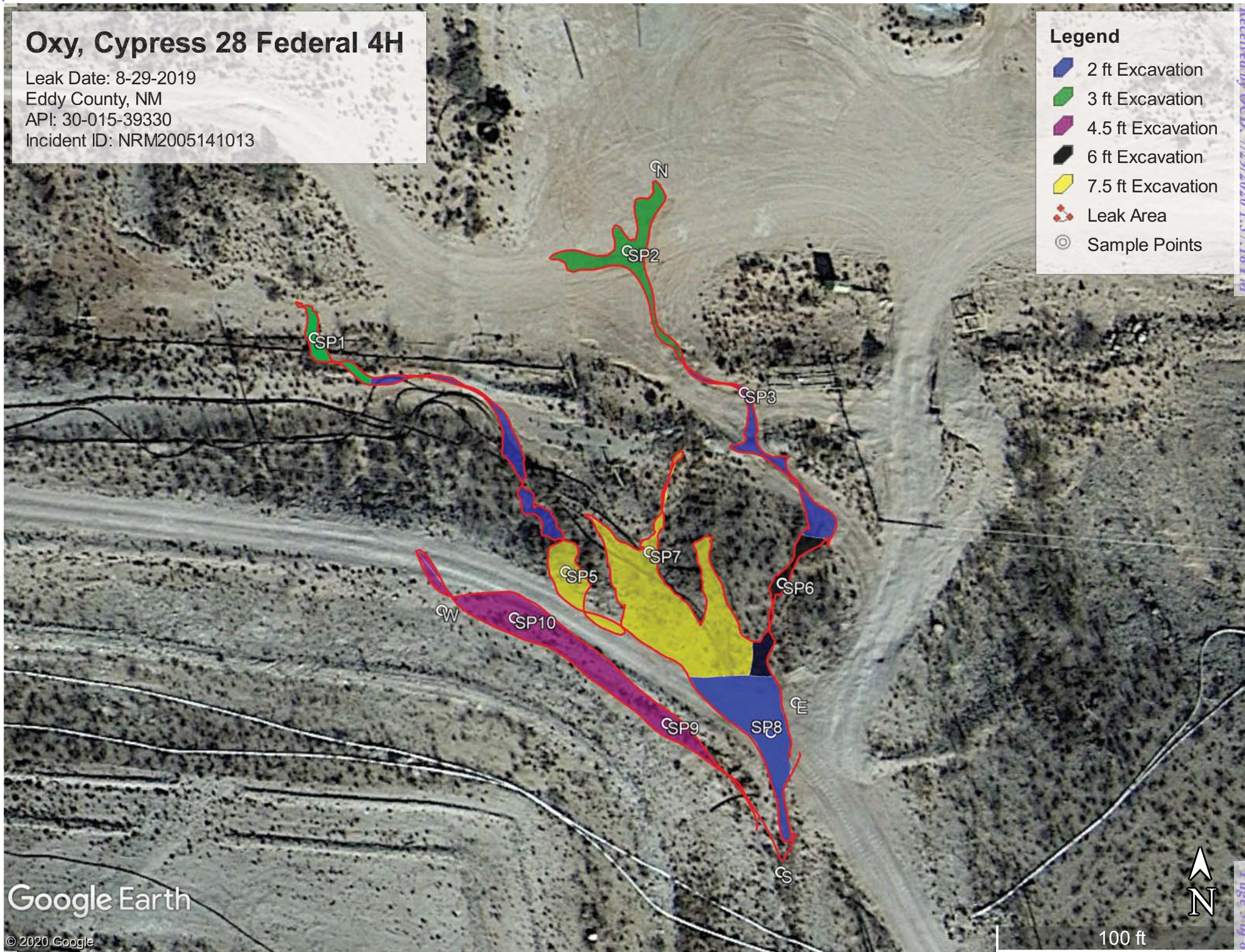
Signature: _____ Date: _____

Oxy, Cypress 28 Federal 4H

Leak Date: 8-29-2019
Eddy County, NM
API: 30-015-39330
Incident ID: NRM2005141013

Legend

- 2 ft Excavation
- 3 ft Excavation
- 4.5 ft Excavation
- 6 ft Excavation
- 7.5 ft Excavation
- Leak Area
- Sample Points



Google Earth

© 2020 Google

100 ft



Oxy, Cypress 28 Federal 4H

Sample points

SP1, N 32.27192 W 103.98481

SP2, N 32.27202 W 103.98441

SP3, N 32.27186 W 103.98426

SP4, N 32.27185 W 103.98459

SP5, N 32.27166 W 103.98449

SP6, N 32.27165 W 103.98421

SP7, N 32.27169 W 103.98438

SP8, N 32.27149 W 103.98422

SP9, N 32.27150 W 103.98436

SP10, N 32.27161 W 103.98456

NORTH, N 32.27211 W 103.98437

EAST, N 32.27152 W 103.98419

WEST, N 32.27162 W 103.98465

SOUTH, N 32.27134 W 103.98421



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321615104014601

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

USGS 321615104014601 23S.29E.30.331322

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

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

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

Explanation

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

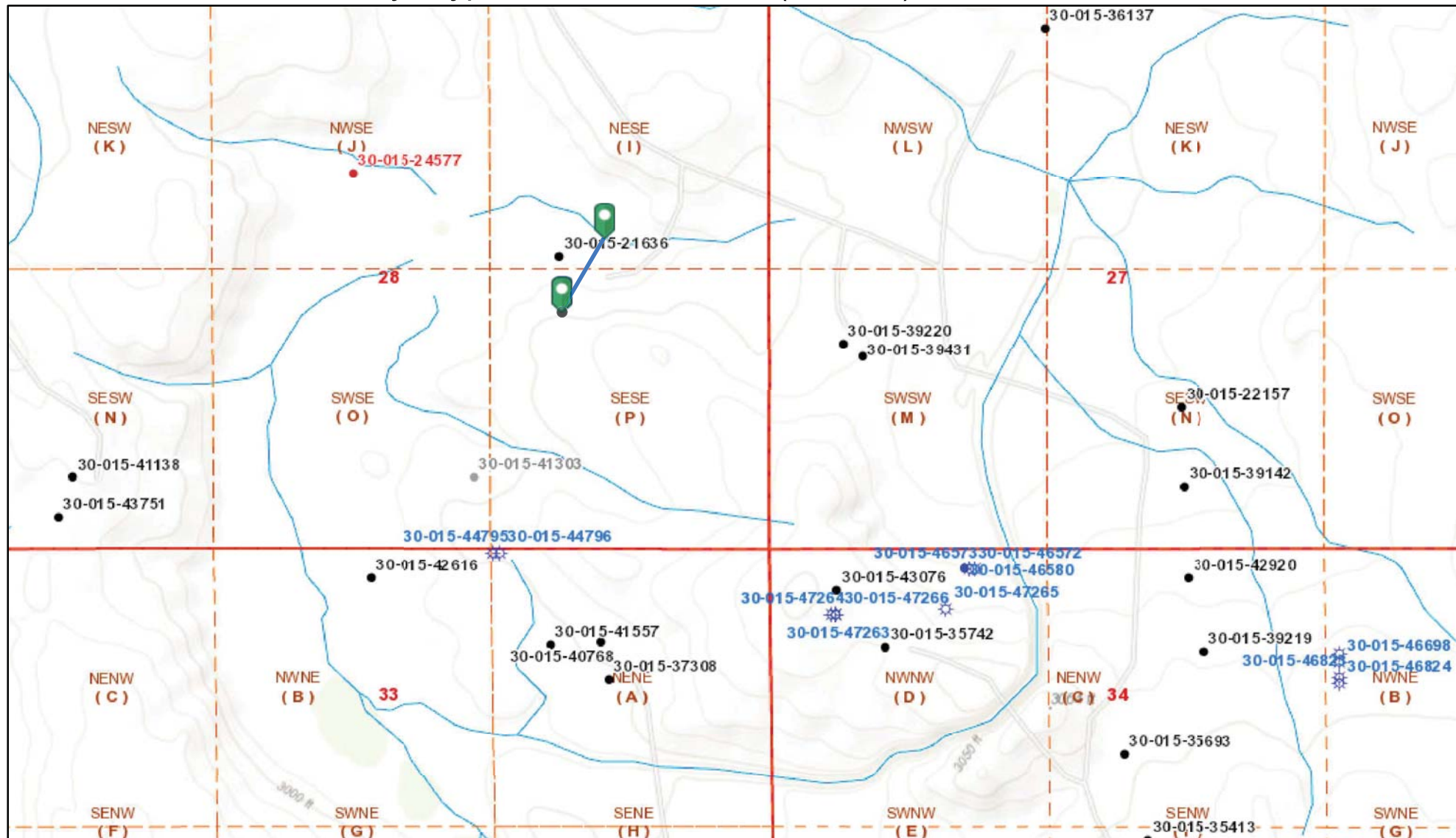
[Questions about sites/data?](#)
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[Subscribe for system changes](#)[News](#)[Accessibility](#)[Plug-Ins](#)[FOIA](#)[Privacy](#)[Policies and Notices](#)[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)**Title: Groundwater for New Mexico: Water Levels****URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2019-12-12 17:37:20 EST

0.22 0.19 nadww01

Oxy, Cypress 28 Federal 4H (8-29-19) 400 ft to h2o



7/21/2020 3:32:11 PM

Wells - Large Scale

☀ CO2. Cancelled

Gas. Active

Gas. Temporarily Abandoned Injection. Plugged


? undefined

 CO2, New

Gas, Cancelled


 **Injection, Active**

 Miscellaneous


 CO2, Plugged

 Gas, New

 Injection, Cancelled

 CO2, Active

☀️ CO2, Temporarily Abandoned

 **Gas, Plugged**

 Injection, New

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

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


New Mexico Oil Conservation Division


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

Oxy, Cypress 28 Federal 4H

Leak Date: 8-29-2019
Eddy County, NM
API: 30-015-39330
Incident ID: NRM2005141013

Legend

 Leak Area

 Medium Potential

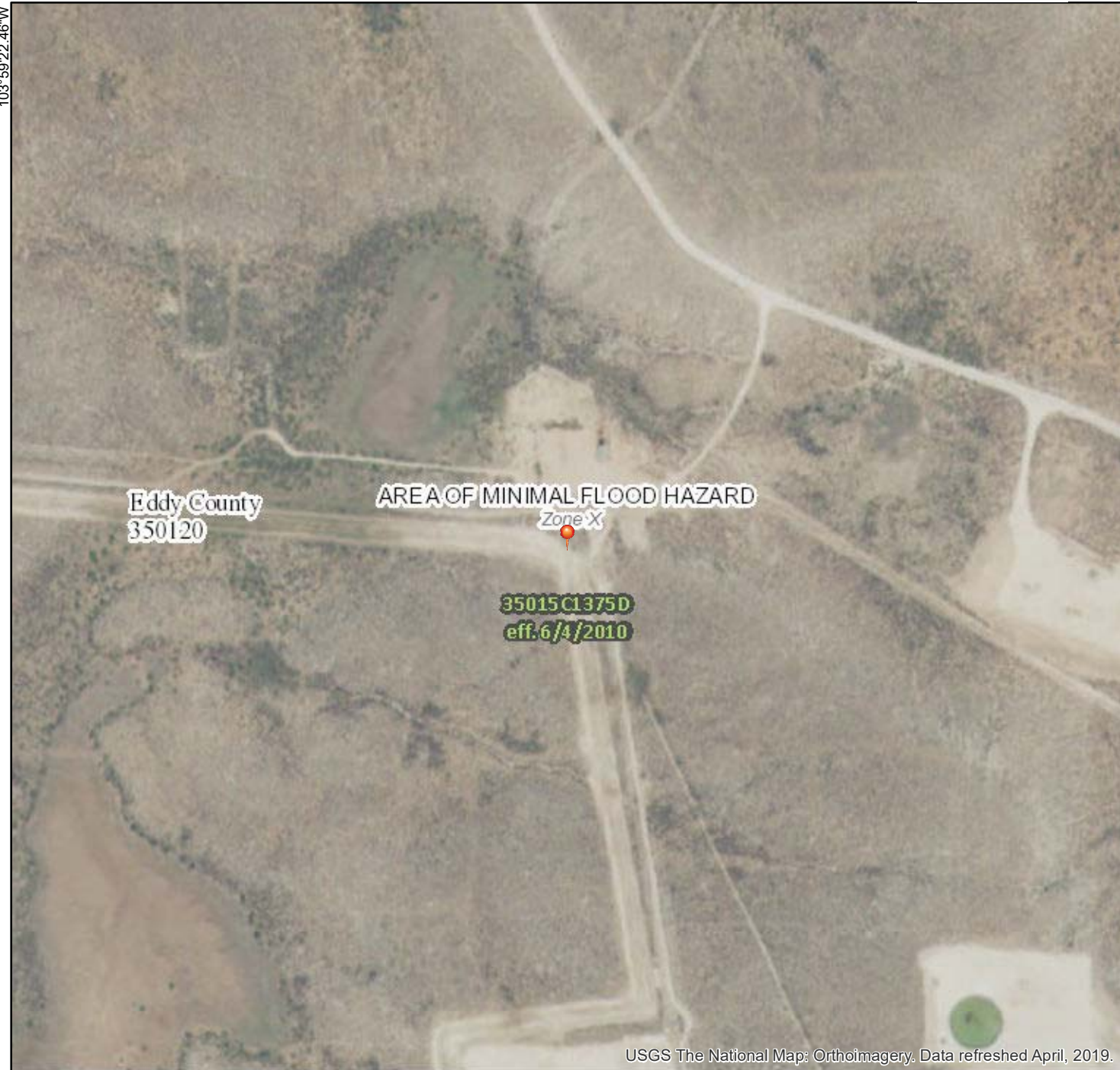
Received by OCD: 7/29/2020 1:37:18 PM



National Flood Hazard Layer FIRMette



32°16'33.22"N



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

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

32°16'2.80"N

Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/12/2019 at 5:54:14 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.

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	12/30/19	12/30/19	12/30/19	12/30/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Total BTEX	BTEX 8021B		<0.151	<0.151	<0.151	<0.151
Chloride	SM4500Cl-B		112	112	128	112
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP1 @ Surface	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	12/30/19	12/30/19	12/30/19	12/30/19	12/30/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.693	1.15	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		1.92	8.38	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		9.73	45.7	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		12.3	55.3	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		176	80.0	32.0	64.0	112
GRO	TPH 8015M		256	1080	<10.0	<10.0	n/a
DRO	TPH 8015M		13200	6850	158	19.0	n/a
EXT DRO	TPH 8015M		2880	923	79.2	11.0	n/a

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	12/30/19	12/30/19	12/30/19	12/30/19	12/30/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		1.35	<0.819	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		2.58	5.31	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		11.6	30.0	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		15.5	36.1	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		208	80.0	32.0	48.0	112
GRO	TPH 8015M		424	827	<10.0	<10.0	n/a
DRO	TPH 8015M		23500	5980	129	46.5	n/a
EXT DRO	TPH 8015M		5010	834	58.6	14.9	n/a

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	12/30/19	12/30/19	12/30/19	12/30/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.618	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		1.39	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		6.23	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		8.24	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		192	240	272	256
GRO	TPH 8015M		519	<10.0	<10.0	n/a
DRO	TPH 8015M		38100	98.2	77.2	n/a
EXT DRO	TPH 8015M		8500	52.3	23.0	n/a

		Sample ID	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	12/30/19	12/30/19	12/30/19	12/30/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		1.26	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		2.93	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		14.3	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		18.5	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		224	240	240	224
GRO	TPH 8015M		369	<10.0	<10.0	<10.0
DRO	TPH 8015M		20000	152	17.8	34.8
EXT DRO	TPH 8015M		4590	70.3	14.7	13.8

		Sample ID	SP5 @ Surface	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'	SP5 @ 5'	SP5 @ 6'	SP5 @ 7'	SP5 @ 8'
Analyte	Method	Date	12/30/19	12/30/19	12/30/19	12/30/19	12/30/19	12/30/19	12/31/19	12/31/19	1/15/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<1.00	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.821	3.76	0.551	0.059	<0.050	<0.050	0.821	<0.050	<0.050
Ethylbenzene	BTEX 8021B		1.24	10.6	3.09	1.33	0.195	<0.050	1.24	<0.050	<0.050
Total Xylenes	BTEX 8021B		4.00	32.5	13.2	1.41	0.265	<0.150	4.00	<0.150	<0.150
Total BTEX	BTEX 8021B		6.06	46.9	16.8	2.80	0.460	<0.300	6.06	<0.300	<0.300
Chloride	SM4500Cl-B		624	416	2800	2800	1410	224	624	448	<16.0
GRO	TPH 8015M		173	1030	514	130	18.6	<10.0	173	<10.0	<10.0
DRO	TPH 8015M		26300	6700	3950	2760	833	41.9	26300	303	<10.0
EXT DRO	TPH 8015M		7050	945	577	456	179	20.2	7050	68.0	<10.0

		Sample ID	SP6 @ Surface	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'	SP6 @ 5'	SP6 @ 6'	SP6 @ 7'
Analyte	Method	Date	12/31/19	12/31/19	12/31/19	12/31/19	12/31/19	12/31/19	12/31/19	12/31/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<1.00	<0.050	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.880	2.58	3.26	0.166	0.102	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		1.48	8.79	11.1	1.17	0.805	0.809	<0.050	n/a
Total Xylenes	BTEX 8021B		4.85	28.5	39.9	4.39	2.58	0.971	<0.150	n/a
Total BTEX	BTEX 8021B		7.21	39.9	54.3	5.72	3.49	1.78	<0.300	n/a
Chloride	SM4500Cl-B		1090	432	1150	3440	2560	1390	176	208
GRO	TPH 8015M		133	1100	1460	214	172	33.2	<10.0	n/a
DRO	TPH 8015M		16000	7440	8760	2400	2260	1250	16.7	n/a
EXT DRO	TPH 8015M		4320	1110	1230	379	372	243	<10.0	n/a

		Sample ID	SP7 @ Surface	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'	SP7 @ 5'	SP7 @ 6'	SP7 @ 7'	SP7 @ 8'
Analyte	Method	Date	12/31/19	12/31/19	12/31/19	12/31/19	12/31/19	12/31/19	1/2/20	1/2/20	1/15/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.150	0.052	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		1.15	0.705	0.259	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		7.04	4.56	1.76	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		8.34	5.32	2.02	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		8880	3880	2340	368	128	144	336	384	<16.0
GRO	TPH 8015M		343	207	91.2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		25000	3920	2250	1470	455	137	113	149	<10.0
EXT DRO	TPH 8015M		5370	667	403	302	101	29.5	22.0	28.4	<10.0

		Sample ID	SP8 @ Surface	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'	SP8 @ 4'	SP8 @ 5'
Analyte	Method	Date	1/2/20	1/2/20	1/2/20	1/2/20	1/2/20	1/2/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.067	n/a	<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.098	n/a	<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		0.327	n/a	<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		0.492	n/a	<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		24400	4080	176	208	224	32.0
GRO	TPH 8015M		<50.0	n/a	<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		16200	n/a	35.1	24	31.5	n/a
EXT DRO	TPH 8015M		3450	n/a	<10.0	<10.0	<10.0	n/a

		Sample ID	SP9 @ Surface	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'	SP9 @ 4'	SP9 @ 5'	SP9 @ 6'
Analyte	Method	Date	1/2/20	1/2/20	1/2/20	1/2/20	1/2/20	1/2/20	1/2/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		896	384	384	288	240	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		10600	497	265	871	355	<10.0	n/a
EXT DRO	TPH 8015M		1820	74.5	35.8	146	52.2	<10.0	n/a

		Sample ID	SP10 @ Surface	SP10 @ 1'	SP10 @ 2'	SP10 @ 3'	SP10 @ 4'	SP10 @ 5'	SP10 @ 6'
Analyte	Method	Date	1/2/20	1/2/20	1/2/20	1/2/20	1/2/20	1/2/20	1/2/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		0.183	<0.150	<0.150	<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		864	448	304	272	128	<16.0	<16.0
GRO	TPH 8015M		<50.0	<10.0	<10.0	<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		9180	287	667	639	284	<10.0	n/a
EXT DRO	TPH 8015M		1760	43.0	116	115	43.8	<10.0	n/a



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

January 10, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: OXY CYPRESS 28 FEDERAL #4H

Enclosed are the results of analyses for samples received by the laboratory on 01/03/20 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: NORTH @ SURFACE (H000023-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.57	78.6	2.00	8.25	
Toluene*	<0.050	0.050	01/08/2020	ND	1.60	80.0	2.00	8.96	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.68	83.9	2.00	8.62	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	4.91	81.8	6.00	8.46	
Total BTEX	<0.300	0.300	01/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/09/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					

Surrogate: 1-Chlorooctane 95.3 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: EAST @ SURFACE (H000023-02)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/08/2020	ND	1.57	78.6	2.00	8.25		
Toluene*	<0.050	0.050	01/08/2020	ND	1.60	80.0	2.00	8.96		
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.68	83.9	2.00	8.62		
Total Xylenes*	<0.150	0.150	01/08/2020	ND	4.91	81.8	6.00	8.46		
Total BTX	<0.300	0.300	01/08/2020	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/09/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					

Surrogate: 1-Chlorooctane 91.6 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: WEST @ SURFACE (H000023-03)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/08/2020	ND	1.57	78.6	2.00	8.25		
Toluene*	<0.050	0.050	01/08/2020	ND	1.60	80.0	2.00	8.96		
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.68	83.9	2.00	8.62		
Total Xylenes*	<0.150	0.150	01/08/2020	ND	4.91	81.8	6.00	8.46		
Total BTX	<0.300	0.300	01/08/2020	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/09/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					

Surrogate: 1-Chlorooctane 85.1 % 41-142

Surrogate: 1-Chlorooctadecane 96.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SOUTH @ SURFACE (H000023-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.56	77.9	2.00	7.65	
Toluene*	<0.050	0.050	01/08/2020	ND	1.57	78.6	2.00	8.16	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.64	82.0	2.00	8.68	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	4.78	79.7	6.00	8.84	
Total BTX	<0.300	0.300	01/08/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/09/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 1 @ SURFACE (H000023-05)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.56	77.9	2.00	7.65	
Toluene*	0.693	0.050	01/08/2020	ND	1.57	78.6	2.00	8.16	
Ethylbenzene*	1.92	0.050	01/08/2020	ND	1.64	82.0	2.00	8.68	
Total Xylenes*	9.73	0.150	01/08/2020	ND	4.78	79.7	6.00	8.84	
Total BTEX	12.3	0.300	01/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 184 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/09/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	256	100	01/09/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	13200	100	01/09/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	2880	100	01/09/2020	ND					

Surrogate: 1-Chlorooctane 144 % 41-142

Surrogate: 1-Chlorooctadecane 553 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 1 @ 1' (H000023-06)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/10/2020	ND	1.56	77.9	2.00	7.65	
Toluene*	1.15	0.500	01/10/2020	ND	1.57	78.6	2.00	8.16	
Ethylbenzene*	8.38	0.500	01/10/2020	ND	1.64	82.0	2.00	8.68	
Total Xylenes*	45.7	1.50	01/10/2020	ND	4.78	79.7	6.00	8.84	
Total BTX	55.3	3.00	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 155 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/09/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1080	10.0	01/08/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	6850	10.0	01/08/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	923	10.0	01/08/2020	ND					

Surrogate: 1-Chlorooctane 171 % 41-142

Surrogate: 1-Chlorooctadecane 268 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 1 @ 2' (H000023-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.56	77.9	2.00	7.65	
Toluene*	<0.050	0.050	01/09/2020	ND	1.57	78.6	2.00	8.16	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	1.64	82.0	2.00	8.68	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	4.78	79.7	6.00	8.84	
Total BTEX	<0.300	0.300	01/09/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/09/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	158	10.0	01/08/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	79.2	10.0	01/08/2020	ND					

Surrogate: 1-Chlorooctane 97.2 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 1 @ 3' (H000023-08)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/08/2020	ND	1.56	77.9	2.00	7.65		
Toluene*	<0.050	0.050	01/08/2020	ND	1.57	78.6	2.00	8.16		
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.64	82.0	2.00	8.68		
Total Xylenes*	<0.150	0.150	01/08/2020	ND	4.78	79.7	6.00	8.84		
Total BTX	<0.300	0.300	01/08/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/09/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	19.0	10.0	01/08/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	11.0	10.0	01/08/2020	ND					

Surrogate: 1-Chlorooctane 96.4 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 1 @ 4' (H000023-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/09/2020	ND	416	104	400	0.00		

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 2 @ SURFACE (H000023-10)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.56	77.9	2.00	7.65	
Toluene*	1.35	0.050	01/08/2020	ND	1.57	78.6	2.00	8.16	
Ethylbenzene*	2.58	0.050	01/08/2020	ND	1.64	82.0	2.00	8.68	
Total Xylenes*	11.6	0.150	01/08/2020	ND	4.78	79.7	6.00	8.84	
Total BTX	15.5	0.300	01/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 195 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/09/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	424	100	01/09/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	23500	100	01/09/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	5010	100	01/09/2020	ND					

Surrogate: 1-Chlorooctane 167 % 41-142

Surrogate: 1-Chlorooctadecane 903 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 2 @ 1' (H000023-11)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.56	77.9	2.00	7.65	
Toluene*	0.819	0.050	01/08/2020	ND	1.57	78.6	2.00	8.16	
Ethylbenzene*	5.31	0.050	01/08/2020	ND	1.64	82.0	2.00	8.68	
Total Xylenes*	30.0	0.150	01/08/2020	ND	4.78	79.7	6.00	8.84	
Total BTX	36.1	0.300	01/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 412 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/09/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	827	10.0	01/08/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	5980	10.0	01/08/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	834	10.0	01/08/2020	ND					

Surrogate: 1-Chlorooctane 166 % 41-142

Surrogate: 1-Chlorooctadecane 260 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 2 @ 2' (H000023-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.56	77.9	2.00	7.65	
Toluene*	<0.050	0.050	01/08/2020	ND	1.57	78.6	2.00	8.16	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.64	82.0	2.00	8.68	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	4.78	79.7	6.00	8.84	
Total BTEX	<0.300	0.300	01/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/09/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	129	10.0	01/08/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	58.6	10.0	01/08/2020	ND					

Surrogate: 1-Chlorooctane 91.8 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 2 @ 3' (H000023-13)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.56	77.9	2.00	7.65	
Toluene*	<0.050	0.050	01/08/2020	ND	1.57	78.6	2.00	8.16	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.64	82.0	2.00	8.68	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	4.78	79.7	6.00	8.84	
Total BTX	<0.300	0.300	01/08/2020	ND					

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

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/09/2020	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	46.5	10.0	01/08/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	14.9	10.0	01/08/2020	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 2 @ 4' (H000023-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/09/2020	ND	416	104	400	3.92		

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 3 @ SURFACE (H000023-15)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.56	77.9	2.00	7.65	
Toluene*	0.618	0.050	01/08/2020	ND	1.57	78.6	2.00	8.16	
Ethylbenzene*	1.39	0.050	01/08/2020	ND	1.64	82.0	2.00	8.68	
Total Xylenes*	6.23	0.150	01/08/2020	ND	4.78	79.7	6.00	8.84	
Total BTX	8.24	0.300	01/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 161 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/09/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	519	100	01/09/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	38100	100	01/09/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	8500	100	01/09/2020	ND					

Surrogate: 1-Chlorooctane 289 % 41-142

Surrogate: 1-Chlorooctadecane 1540 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 3 @ 1' (H000023-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.56	77.9	2.00	7.65	
Toluene*	<0.050	0.050	01/08/2020	ND	1.57	78.6	2.00	8.16	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.64	82.0	2.00	8.68	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	4.78	79.7	6.00	8.84	
Total BTEX	<0.300	0.300	01/08/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/09/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	98.2	10.0	01/09/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	52.3	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 3 @ 2' (H000023-17)

BTEx 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.56	77.9	2.00	7.65	
Toluene*	<0.050	0.050	01/08/2020	ND	1.57	78.6	2.00	8.16	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.64	82.0	2.00	8.68	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	4.78	79.7	6.00	8.84	
Total BTEX	<0.300	0.300	01/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/09/2020	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	77.2	10.0	01/09/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	23.0	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 126 % 37.6-147

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

Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 3 @ 3' (H000023-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/09/2020	ND	416	104	400	3.92	

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 4 @ SURFACE (H000023-19)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.56	77.9	2.00	7.65	
Toluene*	1.26	0.050	01/08/2020	ND	1.57	78.6	2.00	8.16	
Ethylbenzene*	2.93	0.050	01/08/2020	ND	1.64	82.0	2.00	8.68	
Total Xylenes*	14.3	0.150	01/08/2020	ND	4.78	79.7	6.00	8.84	
Total BTEX	18.5	0.300	01/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 170 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/09/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	369	100	01/09/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	20000	100	01/09/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	4590	100	01/09/2020	ND					

Surrogate: 1-Chlorooctane 206 % 41-142

Surrogate: 1-Chlorooctadecane 816 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 4 @ 1' (H000023-20)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.56	77.9	2.00	7.65	
Toluene*	<0.050	0.050	01/08/2020	ND	1.57	78.6	2.00	8.16	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.64	82.0	2.00	8.68	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	4.78	79.7	6.00	8.84	
Total BTX	<0.300	0.300	01/08/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/09/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	152	10.0	01/09/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	70.3	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 122 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 4 @ 2' (H000023-21)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.56	77.9	2.00	7.65	
Toluene*	<0.050	0.050	01/08/2020	ND	1.57	78.6	2.00	8.16	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.64	82.0	2.00	8.68	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	4.78	79.7	6.00	8.84	
Total BTEX	<0.300	0.300	01/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/09/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	17.8	10.0	01/09/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	14.7	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 96.9 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 4 @ 3' (H000023-22)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2020	ND	1.56	77.9	2.00	7.65	
Toluene*	<0.050	0.050	01/08/2020	ND	1.57	78.6	2.00	8.16	
Ethylbenzene*	<0.050	0.050	01/08/2020	ND	1.64	82.0	2.00	8.68	
Total Xylenes*	<0.150	0.150	01/08/2020	ND	4.78	79.7	6.00	8.84	
Total BTEX	<0.300	0.300	01/08/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/09/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	34.8	10.0	01/09/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	13.8	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 98.5 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 5 @ SURFACE (H000023-23)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.56	77.9	2.00	7.65	
Toluene*	0.821	0.050	01/09/2020	ND	1.57	78.6	2.00	8.16	
Ethylbenzene*	1.24	0.050	01/09/2020	ND	1.64	82.0	2.00	8.68	
Total Xylenes*	4.00	0.150	01/09/2020	ND	4.78	79.7	6.00	8.84	
Total BTEX	6.06	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 146 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	01/09/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	173	100	01/09/2020	ND	186	93.2	200	1.59	
DRO >C10-C28*	26300	100	01/09/2020	ND	222	111	200	1.51	
EXT DRO >C28-C36	7050	100	01/09/2020	ND					

Surrogate: 1-Chlorooctane 156 % 41-142

Surrogate: 1-Chlorooctadecane 1160 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 5 @ 1' (H000023-24)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/09/2020	ND	1.56	77.9	2.00	7.65	
Toluene*	3.76	0.500	01/09/2020	ND	1.57	78.6	2.00	8.16	
Ethylbenzene*	10.6	0.500	01/09/2020	ND	1.64	82.0	2.00	8.68	
Total Xylenes*	32.5	1.50	01/09/2020	ND	4.78	79.7	6.00	8.84	
Total BTEX	46.9	3.00	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 152 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/09/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1030	10.0	01/09/2020	ND	193	96.5	200	0.347	QM-07
DRO >C10-C28*	6700	10.0	01/09/2020	ND	222	111	200	1.45	QM-07
EXT DRO >C28-C36	945	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 158 % 41-142

Surrogate: 1-Chlorooctadecane 264 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 5 @ 2' (H000023-25)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/09/2020	ND	1.56	77.9	2.00	7.65	
Toluene*	2.75	0.500	01/09/2020	ND	1.57	78.6	2.00	8.16	
Ethylbenzene*	9.38	0.500	01/09/2020	ND	1.64	82.0	2.00	8.68	
Total Xylenes*	33.0	1.50	01/09/2020	ND	4.78	79.7	6.00	8.84	
Total BTEx	45.1	3.00	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 150 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/09/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1330	10.0	01/09/2020	ND	193	96.5	200	0.347	
DRO >C10-C28*	7850	10.0	01/09/2020	ND	222	111	200	1.45	
EXT DRO >C28-C36	1140	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 181 % 41-142

Surrogate: 1-Chlorooctadecane 300 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 5 @ 3' (H000023-26)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	01/09/2020	ND	1.56	77.9	2.00	7.65	
Toluene*	0.551	0.500	01/09/2020	ND	1.57	78.6	2.00	8.16	
Ethylbenzene*	3.09	1.00	01/09/2020	ND	1.64	82.0	2.00	8.68	
Total Xylenes*	13.2	3.00	01/09/2020	ND	4.78	79.7	6.00	8.84	
Total BTX	16.8	6.00	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	01/09/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	514	10.0	01/09/2020	ND	193	96.5	200	0.347	
DRO >C10-C28*	3950	10.0	01/09/2020	ND	222	111	200	1.45	
EXT DRO >C28-C36	577	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 215 % 41-142

Surrogate: 1-Chlorooctadecane 210 % 37.6-147

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

Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 5 @ 4' (H000023-27)

BTEx 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.94	96.8	2.00	9.21	
Toluene*	0.059	0.050	01/09/2020	ND	1.93	96.3	2.00	9.98	
Ethylbenzene*	1.33	0.050	01/09/2020	ND	1.96	97.8	2.00	10.0	QM-07
Total Xylenes*	1.41	0.150	01/09/2020	ND	5.70	94.9	6.00	10.2	
Total BTEX	2.80	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 193 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	01/09/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	130	10.0	01/09/2020	ND	193	96.5	200	0.347	
DRO >C10-C28*	2760	10.0	01/09/2020	ND	222	111	200	1.45	
EXT DRO >C28-C36	456	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 147 % 41-142

Surrogate: 1-Chlorooctadecane 184 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/30/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 5 @ 5' (H000023-28)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.94	96.8	2.00	9.21	
Toluene*	<0.050	0.050	01/09/2020	ND	1.93	96.3	2.00	9.98	
Ethylbenzene*	0.195	0.050	01/09/2020	ND	1.96	97.8	2.00	10.0	
Total Xylenes*	0.265	0.150	01/09/2020	ND	5.70	94.9	6.00	10.2	
Total BTX	0.460	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	01/09/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	18.6	10.0	01/09/2020	ND	193	96.5	200	0.347	
DRO >C10-C28*	833	10.0	01/09/2020	ND	222	111	200	1.45	
EXT DRO >C28-C36	179	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 97.0 % 41-142

Surrogate: 1-Chlorooctadecane 122 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/31/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 5 @ 6' (H000023-29)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.94	96.8	2.00	9.21	
Toluene*	<0.050	0.050	01/09/2020	ND	1.93	96.3	2.00	9.98	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	1.96	97.8	2.00	10.0	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	5.70	94.9	6.00	10.2	
Total BTX	<0.300	0.300	01/09/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/09/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	193	96.5	200	0.347	
DRO >C10-C28*	41.9	10.0	01/09/2020	ND	222	111	200	1.45	
EXT DRO >C28-C36	20.2	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/31/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 5 @ 7' (H000023-30)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.94	96.8	2.00	9.21	
Toluene*	<0.050	0.050	01/09/2020	ND	1.93	96.3	2.00	9.98	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	1.96	97.8	2.00	10.0	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	5.70	94.9	6.00	10.2	
Total BTX	<0.300	0.300	01/09/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/09/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	193	96.5	200	0.347	
DRO >C10-C28*	303	10.0	01/09/2020	ND	222	111	200	1.45	
EXT DRO >C28-C36	68.0	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 98.1 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/31/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 6 @ SURFACE (H000023-31)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.94	96.8	2.00	9.21	
Toluene*	0.880	0.050	01/09/2020	ND	1.93	96.3	2.00	9.98	
Ethylbenzene*	1.48	0.050	01/09/2020	ND	1.96	97.8	2.00	10.0	
Total Xylenes*	4.85	0.150	01/09/2020	ND	5.70	94.9	6.00	10.2	
Total BTEX	7.21	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 159 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	01/09/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	133	50.0	01/10/2020	ND	193	96.5	200	0.347	
DRO >C10-C28*	16000	50.0	01/10/2020	ND	222	111	200	1.45	
EXT DRO >C28-C36	4320	50.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 686 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/31/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 6 @ 1' (H000023-32)

BTX 8021B			mg/kg					Analyzed By: MS		S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.500	0.500	01/10/2020	ND	1.94	96.8	2.00	9.21			
Toluene*	2.58	0.500	01/10/2020	ND	1.93	96.3	2.00	9.98			
Ethylbenzene*	8.79	0.500	01/10/2020	ND	1.96	97.8	2.00	10.0			
Total Xylenes*	28.5	1.50	01/10/2020	ND	5.70	94.9	6.00	10.2			
Total BTX	39.9	3.00	01/10/2020	ND							

Surrogate: 4-Bromofluorobenzene (PID) 149 % 73.3-129

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	432	16.0	01/09/2020	ND	400	100	400	3.92			

TPH 8015M			mg/kg					Analyzed By: MS		S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	1100	10.0	01/09/2020	ND	193	96.5	200	0.347			
DRO >C10-C28*	7440	10.0	01/09/2020	ND	222	111	200	1.45			
EXT DRO >C28-C36	1110	10.0	01/09/2020	ND							

Surrogate: 1-Chlorooctane 312 % 41-142

Surrogate: 1-Chlorooctadecane 295 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/31/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 6 @ 2' (H000023-33)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	01/09/2020	ND	1.94	96.8	2.00	9.21	
Toluene*	3.26	1.00	01/09/2020	ND	1.93	96.3	2.00	9.98	
Ethylbenzene*	11.1	1.00	01/09/2020	ND	1.96	97.8	2.00	10.0	
Total Xylenes*	39.9	3.00	01/09/2020	ND	5.70	94.9	6.00	10.2	
Total BTX	54.3	6.00	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	01/09/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1460	10.0	01/09/2020	ND	193	96.5	200	0.347	
DRO >C10-C28*	8760	10.0	01/09/2020	ND	222	111	200	1.45	
EXT DRO >C28-C36	1230	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 369 % 41-142

Surrogate: 1-Chlorooctadecane 329 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/31/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 6 @ 3' (H000023-34)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.94	96.8	2.00	9.21	
Toluene*	0.166	0.050	01/09/2020	ND	1.93	96.3	2.00	9.98	
Ethylbenzene*	1.17	0.050	01/09/2020	ND	1.96	97.8	2.00	10.0	
Total Xylenes*	4.39	0.150	01/09/2020	ND	5.70	94.9	6.00	10.2	
Total BTEX	5.72	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 199 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	01/09/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	214	10.0	01/09/2020	ND	193	96.5	200	0.347	
DRO >C10-C28*	2400	10.0	01/09/2020	ND	222	111	200	1.45	
EXT DRO >C28-C36	379	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 139 % 41-142

Surrogate: 1-Chlorooctadecane 168 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/31/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 6 @ 4' (H000023-35)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.94	96.8	2.00	9.21	
Toluene*	0.102	0.050	01/09/2020	ND	1.93	96.3	2.00	9.98	
Ethylbenzene*	0.805	0.050	01/09/2020	ND	1.96	97.8	2.00	10.0	
Total Xylenes*	2.58	0.150	01/09/2020	ND	5.70	94.9	6.00	10.2	
Total BTEx	3.49	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 184 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	01/09/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	172	10.0	01/09/2020	ND	193	96.5	200	0.347	
DRO >C10-C28*	2260	10.0	01/09/2020	ND	222	111	200	1.45	
EXT DRO >C28-C36	372	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 124 % 41-142

Surrogate: 1-Chlorooctadecane 159 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/31/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 6 @ 5' (H000023-36)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.94	96.8	2.00	9.21	
Toluene*	<0.050	0.050	01/09/2020	ND	1.93	96.3	2.00	9.98	
Ethylbenzene*	0.809	0.050	01/09/2020	ND	1.96	97.8	2.00	10.0	
Total Xylenes*	0.971	0.150	01/09/2020	ND	5.70	94.9	6.00	10.2	
Total BTX	1.78	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 141 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	01/09/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	33.2	10.0	01/09/2020	ND	193	96.5	200	0.347	
DRO >C10-C28*	1250	10.0	01/09/2020	ND	222	111	200	1.45	
EXT DRO >C28-C36	243	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 139 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/31/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 6 @ 6' (H000023-37)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.94	96.8	2.00	9.21	
Toluene*	<0.050	0.050	01/09/2020	ND	1.93	96.3	2.00	9.98	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	1.96	97.8	2.00	10.0	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	5.70	94.9	6.00	10.2	
Total BTX	<0.300	0.300	01/09/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/09/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	193	96.5	200	0.347	
DRO >C10-C28*	16.7	10.0	01/09/2020	ND	222	111	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 94.6 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/31/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 6 @ 7' (H000023-38)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/09/2020	ND	400	100	400	3.92		

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/31/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 7 @ SURFACE (H000023-39)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.94	96.8	2.00	9.21	
Toluene*	0.150	0.050	01/09/2020	ND	1.93	96.3	2.00	9.98	
Ethylbenzene*	1.15	0.050	01/09/2020	ND	1.96	97.8	2.00	10.0	
Total Xylenes*	7.04	0.150	01/09/2020	ND	5.70	94.9	6.00	10.2	
Total BTEx	8.34	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 186 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8880	16.0	01/09/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	343	100	01/09/2020	ND	193	96.5	200	0.347	
DRO >C10-C28*	25000	100	01/09/2020	ND	222	111	200	1.45	
EXT DRO >C28-C36	5370	100	01/09/2020	ND					

Surrogate: 1-Chlorooctane 149 % 41-142

Surrogate: 1-Chlorooctadecane 915 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/31/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 7 @ 1' (H000023-40)

BTEx 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.94	96.8	2.00	9.21	
Toluene*	0.052	0.050	01/09/2020	ND	1.93	96.3	2.00	9.98	
Ethylbenzene*	0.705	0.050	01/09/2020	ND	1.96	97.8	2.00	10.0	
Total Xylenes*	4.56	0.150	01/09/2020	ND	5.70	94.9	6.00	10.2	
Total BTEX	5.32	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 208 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3880	16.0	01/09/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	207	10.0	01/09/2020	ND	193	96.5	200	0.347	
DRO >C10-C28*	3920	10.0	01/09/2020	ND	222	111	200	1.45	
EXT DRO >C28-C36	667	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 143 % 41-142

Surrogate: 1-Chlorooctadecane 214 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/31/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 7 @ 2' (H000023-41)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.94	96.8	2.00	9.21	
Toluene*	<0.050	0.050	01/09/2020	ND	1.93	96.3	2.00	9.98	
Ethylbenzene*	0.259	0.050	01/09/2020	ND	1.96	97.8	2.00	10.0	
Total Xylenes*	1.76	0.150	01/09/2020	ND	5.70	94.9	6.00	10.2	
Total BTX	2.02	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 160 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2340	16.0	01/09/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	91.2	10.0	01/09/2020	ND	193	96.5	200	0.347	
DRO >C10-C28*	2250	10.0	01/09/2020	ND	222	111	200	1.45	
EXT DRO >C28-C36	403	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 156 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/31/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 7 @ 3' (H000023-42)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.94	96.8	2.00	9.21	
Toluene*	<0.050	0.050	01/09/2020	ND	1.93	96.3	2.00	9.98	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	1.96	97.8	2.00	10.0	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	5.70	94.9	6.00	10.2	
Total BTX	<0.300	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/09/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	193	96.5	200	0.347	
DRO >C10-C28*	1470	10.0	01/09/2020	ND	222	111	200	1.45	
EXT DRO >C28-C36	302	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 97.0 % 41-142

Surrogate: 1-Chlorooctadecane 140 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/31/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 7 @ 4' (H000023-43)

BTEx 8021B			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2020	ND	1.94	96.8	2.00	9.21		
Toluene*	<0.050	0.050	01/09/2020	ND	1.93	96.3	2.00	9.98		
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	1.96	97.8	2.00	10.0		
Total Xylenes*	<0.150	0.150	01/09/2020	ND	5.70	94.9	6.00	10.2		
Total BTEX	<0.300	0.300	01/09/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/09/2020	ND	400	100	400	3.92		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	193	96.5	200	0.347		
DRO >C10-C28*	455	10.0	01/09/2020	ND	222	111	200	1.45		
EXT DRO >C28-C36	101	10.0	01/09/2020	ND						

Surrogate: 1-Chlorooctane 90.9 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	12/31/2019
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 7 @ 5' (H000023-44)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	1.94	96.8	2.00	9.21	
Toluene*	<0.050	0.050	01/09/2020	ND	1.93	96.3	2.00	9.98	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	1.96	97.8	2.00	10.0	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	5.70	94.9	6.00	10.2	
Total BTX	<0.300	0.300	01/09/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/09/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	193	96.5	200	0.347	
DRO >C10-C28*	137	10.0	01/09/2020	ND	222	111	200	1.45	
EXT DRO >C28-C36	29.5	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 7 @ 6' (H000023-45)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	2.23	112	2.00	2.95	
Toluene*	<0.050	0.050	01/09/2020	ND	2.22	111	2.00	2.26	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	2.20	110	2.00	1.78	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	6.56	109	6.00	1.67	
Total BTX	<0.300	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/09/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	238	119	200	7.96	
DRO >C10-C28*	113	10.0	01/09/2020	ND	250	125	200	8.69	
EXT DRO >C28-C36	22.0	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 98.3 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 7 @ 7' (H000023-46)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	2.23	112	2.00	2.95	
Toluene*	<0.050	0.050	01/09/2020	ND	2.22	111	2.00	2.26	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	2.20	110	2.00	1.78	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	6.56	109	6.00	1.67	
Total BTX	<0.300	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/09/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	238	119	200	7.96	
DRO >C10-C28*	149	10.0	01/09/2020	ND	250	125	200	8.69	
EXT DRO >C28-C36	28.4	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 8 @ SURFACE (H000023-47)

BTEx 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	2.23	112	2.00	2.95	
Toluene*	0.067	0.050	01/09/2020	ND	2.22	111	2.00	2.26	
Ethylbenzene*	0.098	0.050	01/09/2020	ND	2.20	110	2.00	1.78	
Total Xylenes*	0.327	0.150	01/09/2020	ND	6.56	109	6.00	1.67	
Total BTEX	0.492	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24400	16.0	01/09/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	01/10/2020	ND	238	119	200	7.96	
DRO >C10-C28*	16200	50.0	01/10/2020	ND	250	125	200	8.69	
EXT DRO >C28-C36	3450	50.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 91.3 % 41-142

Surrogate: 1-Chlorooctadecane 689 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 8 @ 1' (H000023-48)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4080	16.0	01/09/2020	ND	400	100	400	3.92		

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 8 @ 2' (H000023-49)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	2.23	112	2.00	2.95	
Toluene*	<0.050	0.050	01/09/2020	ND	2.22	111	2.00	2.26	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	2.20	110	2.00	1.78	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	6.56	109	6.00	1.67	
Total BTX	<0.300	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/09/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	238	119	200	7.96	
DRO >C10-C28*	35.1	10.0	01/09/2020	ND	250	125	200	8.69	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 82.6 % 41-142

Surrogate: 1-Chlorooctadecane 87.7 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 8 @ 3' (H000023-50)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	2.23	112	2.00	2.95	
Toluene*	<0.050	0.050	01/09/2020	ND	2.22	111	2.00	2.26	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	2.20	110	2.00	1.78	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	6.56	109	6.00	1.67	
Total BTX	<0.300	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/09/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	238	119	200	7.96	
DRO >C10-C28*	24.0	10.0	01/09/2020	ND	250	125	200	8.69	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 99.6 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 8 @ 4' (H000023-51)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	2.23	112	2.00	2.95	
Toluene*	<0.050	0.050	01/09/2020	ND	2.22	111	2.00	2.26	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	2.20	110	2.00	1.78	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	6.56	109	6.00	1.67	
Total BTEx	<0.300	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/09/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	238	119	200	7.96	
DRO >C10-C28*	31.5	10.0	01/09/2020	ND	250	125	200	8.69	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 96.7 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 8 @ 5' (H000023-52)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/09/2020	ND	400	100	400	0.00		

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 9 @ SURFACE (H000023-53)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2020	ND	2.23	112	2.00	2.95		
Toluene*	<0.050	0.050	01/09/2020	ND	2.22	111	2.00	2.26		
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	2.20	110	2.00	1.78		
Total Xylenes*	<0.150	0.150	01/09/2020	ND	6.56	109	6.00	1.67		
Total BTEX	<0.300	0.300	01/09/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	01/09/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2020	ND	238	119	200	7.96	
DRO >C10-C28*	10600	10.0	01/10/2020	ND	250	125	200	8.69	
EXT DRO >C28-C36	1820	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 98.3 % 41-142

Surrogate: 1-Chlorooctadecane 473 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 9 @ 1' (H000023-54)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	2.23	112	2.00	2.95	
Toluene*	<0.050	0.050	01/09/2020	ND	2.22	111	2.00	2.26	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	2.20	110	2.00	1.78	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	6.56	109	6.00	1.67	
Total BTEX	<0.300	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/09/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	238	119	200	7.96	
DRO >C10-C28*	497	10.0	01/09/2020	ND	250	125	200	8.69	
EXT DRO >C28-C36	74.5	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 96.2 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 9 @ 2' (H000023-55)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	2.23	112	2.00	2.95	
Toluene*	<0.050	0.050	01/09/2020	ND	2.22	111	2.00	2.26	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	2.20	110	2.00	1.78	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	6.56	109	6.00	1.67	
Total BTEX	<0.300	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/09/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	238	119	200	7.96	
DRO >C10-C28*	265	10.0	01/09/2020	ND	250	125	200	8.69	
EXT DRO >C28-C36	35.8	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 95.6 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 9 @ 3' (H000023-56)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	2.23	112	2.00	2.95	
Toluene*	<0.050	0.050	01/09/2020	ND	2.22	111	2.00	2.26	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	2.20	110	2.00	1.78	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	6.56	109	6.00	1.67	
Total BTX	<0.300	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/09/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	238	119	200	7.96	
DRO >C10-C28*	871	10.0	01/09/2020	ND	250	125	200	8.69	
EXT DRO >C28-C36	146	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 88.2 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 9 @ 4' (H000023-57)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	2.23	112	2.00	2.95	
Toluene*	<0.050	0.050	01/09/2020	ND	2.22	111	2.00	2.26	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	2.20	110	2.00	1.78	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	6.56	109	6.00	1.67	
Total BTX	<0.300	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/09/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	238	119	200	7.96	
DRO >C10-C28*	355	10.0	01/09/2020	ND	250	125	200	8.69	
EXT DRO >C28-C36	52.2	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 90.1 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 9 @ 5' (H000023-58)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2020	ND	2.23	112	2.00	2.95	
Toluene*	<0.050	0.050	01/09/2020	ND	2.22	111	2.00	2.26	
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	2.20	110	2.00	1.78	
Total Xylenes*	<0.150	0.150	01/09/2020	ND	6.56	109	6.00	1.67	
Total BTX	<0.300	0.300	01/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/09/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	238	119	200	7.96	
DRO >C10-C28*	<10.0	10.0	01/09/2020	ND	250	125	200	8.69	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 93.1 % 41-142

Surrogate: 1-Chlorooctadecane 97.9 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 9 @ 6' (H000023-59)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/09/2020	ND	400	100	400	0.00	

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 10 @ SURFACE (H000023-60)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2020	ND	2.23	112	2.00	2.95		
Toluene*	<0.050	0.050	01/09/2020	ND	2.22	111	2.00	2.26		
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	2.20	110	2.00	1.78		
Total Xylenes*	0.183	0.150	01/09/2020	ND	6.56	109	6.00	1.67		
Total BTEX	<0.300	0.300	01/09/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	01/09/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	01/10/2020	ND	238	119	200	7.96	
DRO >C10-C28*	9180	50.0	01/10/2020	ND	250	125	200	8.69	
EXT DRO >C28-C36	1760	50.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 79.4 % 41-142

Surrogate: 1-Chlorooctadecane 389 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 10 @ 1' (H000023-61)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2020	ND	2.23	112	2.00	2.95	
Toluene*	<0.050	0.050	01/10/2020	ND	2.22	111	2.00	2.26	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.20	110	2.00	1.78	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.56	109	6.00	1.67	
Total BTEx	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/09/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	238	119	200	7.96	
DRO >C10-C28*	287	10.0	01/09/2020	ND	250	125	200	8.69	
EXT DRO >C28-C36	43.0	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 98.7 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 10 @ 2' (H000023-62)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2020	ND	2.23	112	2.00	2.95	
Toluene*	<0.050	0.050	01/10/2020	ND	2.22	111	2.00	2.26	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.20	110	2.00	1.78	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.56	109	6.00	1.67	
Total BTX	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/09/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	238	119	200	7.96	
DRO >C10-C28*	667	10.0	01/09/2020	ND	250	125	200	8.69	
EXT DRO >C28-C36	116	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 92.5 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 10 @ 3' (H000023-63)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2020	ND	2.23	112	2.00	2.95	
Toluene*	<0.050	0.050	01/10/2020	ND	2.22	111	2.00	2.26	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.20	110	2.00	1.78	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.56	109	6.00	1.67	
Total BTX	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/09/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	238	119	200	7.96	
DRO >C10-C28*	639	10.0	01/09/2020	ND	250	125	200	8.69	
EXT DRO >C28-C36	115	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 83.3 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 10 @ 4' (H000023-64)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2020	ND	2.23	112	2.00	2.95	
Toluene*	<0.050	0.050	01/10/2020	ND	2.22	111	2.00	2.26	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.20	110	2.00	1.78	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.56	109	6.00	1.67	
Total BTX	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/09/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	238	119	200	7.96	
DRO >C10-C28*	284	10.0	01/09/2020	ND	250	125	200	8.69	
EXT DRO >C28-C36	43.8	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 95.7 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 10 @ 5' (H000023-65)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2020	ND	2.23	112	2.00	2.95	
Toluene*	<0.050	0.050	01/10/2020	ND	2.22	111	2.00	2.26	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.20	110	2.00	1.78	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.56	109	6.00	1.67	
Total BTX	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/09/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	238	119	200	7.96	
DRO >C10-C28*	<10.0	10.0	01/09/2020	ND	250	125	200	8.69	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 96.4 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Analytical Results For:

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

Received:	01/03/2020	Sampling Date:	01/02/2020
Reported:	01/10/2020	Sampling Type:	Soil
Project Name:	OXY CYPRESS 28 FEDERAL #4H	Sampling Condition:	Cool & Intact
Project Number:	08-29-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 10 @ 6' (H000023-66)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/09/2020	ND	400	100	400	0.00		

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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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

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101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO												ANALYSIS REQUEST													
Project Manager: Cliff Brunson				P.O. #:												<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">Company: OXY</div> <div style="margin-bottom: 10px;">Attn: WADE</div> <div style="margin-bottom: 10px;">Address:</div> <div style="margin-bottom: 10px;">City:</div> <div style="margin-bottom: 10px;">State: Zip:</div> <div style="margin-bottom: 10px;">Phone #:</div> <div style="margin-bottom: 10px;">Fax #:</div> </div>													
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: Oxy Cypress 28 Federal #4H 8-29-19																													
Project Location: Eddy County, NM																													
Sampler Name: Simon Rendon																													
FOR LAB USE ONLY																													
Lab I.D.		Sample I.D.		(GRAB OR (COMP. # CONTAINERS		MATRIX				PRESERV.				SAMPLING															
						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :				ACID/BASE: ICE / COOL OTHER :				DATE TIME															
H000023																													
1 North @ Surface														12-30-19 8:55 AM				✓ ✓ ✓											
2 East @ Surface														12-30-19 9:11 AM				✓ ✓ ✓											
3 West @ Surface														12-30-19 9:20 AM				✓ ✓ ✓											
4 South @ Surface														12-30-19 9:31 AM				✓ ✓ ✓											
5 SP1 @ Surface														12-30-19 9:49 AM				✓ ✓ ✓											
6 SP1 @ 1'														12-30-19 9:55 AM				✓ ✓ ✓											
7 SP1 @ 2'														12-30-19 10:11 AM				✓ ✓ ✓											
8 SP1 @ 3'														12-30-19 10:22 AM				✓ ✓ ✓											
9 SP1 @ 4'														12-30-19 10:33 AM				✓ ✓ ✓											
10 SP2 @ Surface														12-30-19 10:45 AM				✓ ✓ ✓											

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Relinquished By:		Date: 1-2-20		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 5:00 pm				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date: 1-3-20		Received By:		REMARKS:			
		Time: 1655							
Delivered By: (Circle One)									
Sampler - UPS - Bus - Other: #113		0.8°C		Sample Condition		CHECKED BY:			
				Cool Intact		(Initials)			
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		10.			

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO		ANALYSIS REQUEST																					
Project Manager: Cliff Brunson				P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>CL</div> <div>BTEX</div> <div>TPH EXT</div> </div>																					
Address: P.O. Box 805				Company: <i>Oxy</i>																							
City: Hobbs		State: NM		Zip: 88241														Attn: <i>Wade</i>									
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																							
Project #:		Project Owner: <i>Oxy</i>		City:																							
Project Name: Oxy Cypress 28 Federal #4H 8-29-19				State: Zip:																							
Project Location: Eddy County, NM				Phone #:																							
Sampler Name: Simon Rendon				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.			SAMPLING																	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
<i>H000023</i>																											
<i>11</i>	SP2 @ 1'												12-30-19	10:55 AM	✓	✓	✓										
<i>12</i>	SP2 @ 2'												12-30-19	11:11 AM	✓	✓	✓										
<i>13</i>	SP2 @ 3'												12-30-19	11:25 AM	✓	✓	✓										
<i>14</i>	SP2 @ 4'												12-30-19	11:41 AM	✓												
<i>15</i>	SP3 @ Surface												12-30-19	11:45 AM	✓	✓	✓										
<i>16</i>	SP3 @ 1'												12-30-19	11:50 AM	✓	✓	✓										
<i>17</i>	SP3 @ 2'												12-30-19	11:58 AM	✓	✓	✓										
<i>18</i>	SP3 @ 3'												12-30-19	12:12 PM	✓												
<i>19</i>	SP4 @ Surface												12-30-19	12:50 PM	✓	✓	✓										
<i>20</i>	SP4 @ 1'												12-30-19	1:11 PM	✓	✓	✓										

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Relinquished By:	Date: <i>1-2-20</i> Time: <i>6:00pm</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: <i>1-3-20</i> Time: <i>1655</i>	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)	REMARKS:	
Sampler - UPS - Bus - Other: <i>#113</i>	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	<i>TO</i>		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By:		Date: 1-2-90	Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: 5:00 pm			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date: 1-3-20	Received By:		REMARKS:	
[Signature]		Time: 1655	[Signature]			
Delivered By: (Circle One)			Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: #113 0.8c			Cool Intact	(Initials)		
			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
			<input type="checkbox"/> No <input type="checkbox"/> No	[Signature]		

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Relinquished By:		Date: 1-2-20	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: 5:00 pm		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date: 1-3-20	Received By:	REMARKS:	
		Time: 1655			
Delivered By: (Circle One)					
Sampler - UPS - Bus - Other: #113 D.8°C		Sample Condition	Cool Intact	CHECKED BY:	
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	(Initials)	T.O.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

7 of 7

Company Name: BBC International, Inc.				BILL TO												ANALYSIS REQUEST											
Project Manager: Cliff Brunson				P.O. #:																							
Address: P.O. Box 805				Company: <i>Oxy</i>																							
City: Hobbs State: NM Zip: 88241				Attn: <i>Wade</i>																							
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																							
Project #: Project Owner: Oxy				City:																							
Project Name: Oxy Cypress 28 Federal #4H 8-29-19				State: Zip:																							
Project Location: Eddy County, NM				Phone #:																							
Sampler Name: Simon Rendon				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.				SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
<i>H000023</i>																											
<i>61</i>	SP10 @ 1'	<i>5</i>	<i>1</i>										01-02-20	1:15 PM	✓	✓	✓										
<i>62</i>	SP10 @ 2'												01-02-20	1:25 PM	✓	✓	✓										
<i>63</i>	SP10 @ 3'												01-02-20	1:35 PM	✓	✓	✓										
<i>64</i>	SP10 @ 4'												01-02-20	1:45 PM	✓	✓	✓										
<i>65</i>	SP10 @ 5'												01-02-20	1:59 PM	✓	✓	✓										
<i>66</i>	SP10 @ 6'												01-02-20	2:22 PM	✓												

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

Relinquished By:	Date: <i>1-2-20</i> Time: <i>5:00 PM</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Date: <i>1-3-20</i> Time: <i>1:55</i>	Received By: <i>[Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)	REMARKS:
Sampler - UPS - Bus - Other: <i>#113</i> <i>0.8c</i>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	<i>T.O.</i>	

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