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DELINEATION/REMEDIATION WORKPLAN

OXY – Federal 12-1H Central Oil Tank (Leak Date: 4/16/20)

Incident ID: NRM2015552273

This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NRM2015552273.

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 – SP9 (PURPLE shade on diagram) will be excavated to a depth of 1 foot.

Bottom confirmation samples will be collected every 75 feet. The estimated amount of soil to be excavated is 253 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

State of New Mexico
Oil Conservation Division

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Incident ID	NRM2015552273
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?	251 (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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NRM2015552273
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 Dittrich Title: Environmental Coordinator

Signature:  Date: 7-17-20

email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NRM2015552273
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: _____

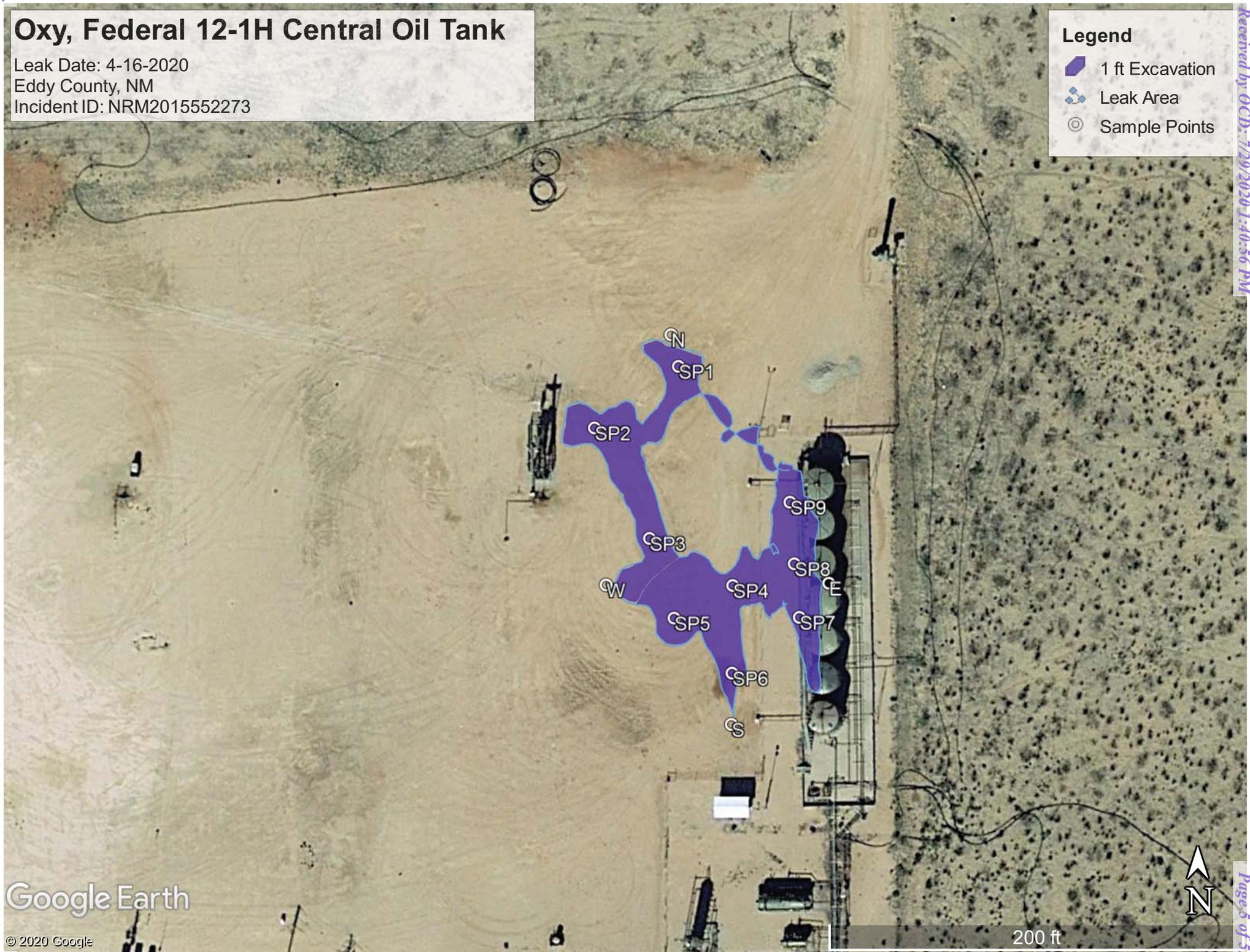
- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

Oxy, Federal 12-1H Central Oil Tank

Leak Date: 4-16-2020
Eddy County, NM
Incident ID: NRM2015552273

- Legend**
- 1 ft Excavation
 - Leak Area
 - Sample Points



Google Earth

© 2020 Google

200 ft



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Oxy, Federal 12-1H Central Oil Tank **4-16-20**

Sample Points:

SP1, N 32.33014, W -103.82976

SP2, N 32.33006, W -103.82989

SP3, N 32.32991, W -103.82981

SP4, N 32.32985, W -103.82968

SP5, N 32.32981, W -103.82977

SP6, N 32.32974, W -103.82968

SP7, N 32.32981, W- 103.82957

SP8, N 32.32988, W -103.82958

SP9, N 32.32996, W -103.82959

N, N 32.33018, W -103.82977

E, N 32.32985, W -103.82953

W, N 32.32985, W -103.82987

S, N 32.32967, W -103.82968



USGS Home
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National Water Information System: Web Interface

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Data Category: Geographic Area:

Click to hide News Bulletins

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Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 321937103503701

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

USGS 321937103503701 23S.30E.02.44414 A

Eddy County, New Mexico
 Latitude 32°19'40.0", Longitude 103°50'38.7" NAD83
 Land-surface elevation 3,268.00 feet above NGVD29
 The depth of the well is 317 feet below land surface.
 This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1959-04-20		D	260.48				2		U	
1959-05-01		D	260.75				2		U	
1972-09-20		D	257.73				2		U	
1975-12-09		D	257.68				2		U	
1976-01-15		D	257.63				2		U	
1976-12-02		D	257.10				2		U	
1977-01-19		D	256.90				2		U	
1988-03-17		D	252.14				2		U	
1992-11-16		D	251.02				2		S	
2013-01-16	15:00 MST	m						O	S	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy		Not determined
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot

Section	Code	Description
Status		The reported water-level measurement represents a static level
Status	O	Obstruction was encountered in the well (no water level was recorded).
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	R	Reported by person other than the owner, driller, or another government agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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[Automated retrievals](#)

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[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?>

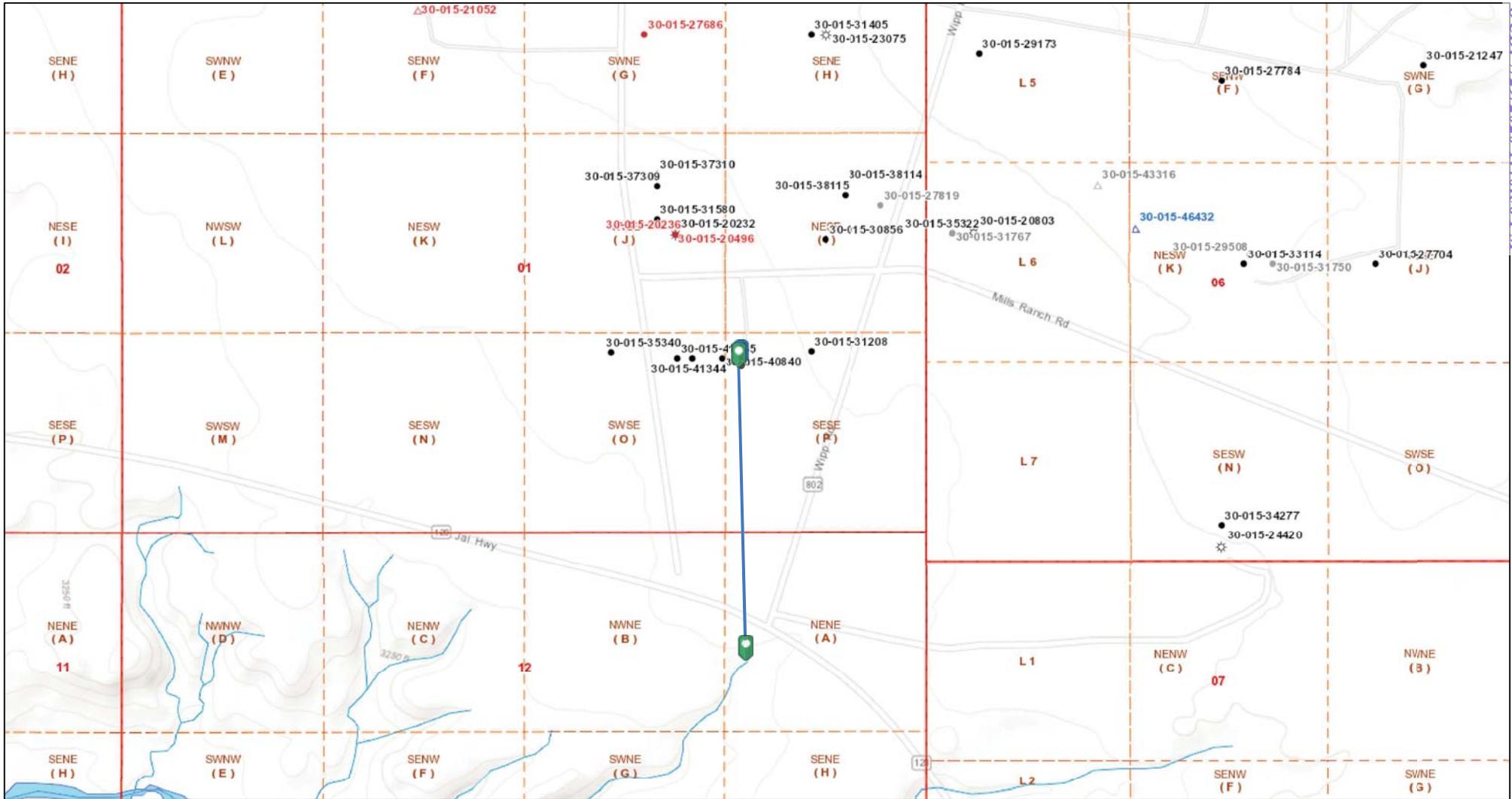


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2020-05-26 13:15:33 EDT

0.26 0.23 nadww02

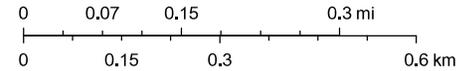
Oxy Federal 12-1H Battery (4-16-20) 1,940 ft to h2o



5/28/2020 10:15:41 AM

1:9,028

- | | | | | |
|---------------------|----------------------------|----------------------------------|-----------------------------------|---|
| Wells - Large Scale | CO2, Temporarily Abandoned | Injection, Active | Oil, Cancelled | Salt Water Injection, New |
| ? undefined | Gas, Active | Injection, Cancelled | Oil, New | Salt Water Injection, Plugged |
| ● Miscellaneous | Gas, Cancelled | Injection, New | Oil, Plugged | Salt Water Injection, Temporarily Abandoned |
| ★ CO2, Active | Gas, New | Injection, Plugged | Oil, Temporarily Abandoned | Water, Active |
| ★ CO2, Cancelled | Gas, Plugged | Injection, Temporarily Abandoned | Salt Water Injection, Active | Water, Cancelled |
| ★ CO2, New | Gas, Temporarily Abandoned | ● Oil, Active | △ Salt Water Injection, Cancelled | Water, New |
| ★ CO2, Plugged | | | | |



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

Oxy Federal 12-1H Battery

Leak Date: 4-16-20
Eddy County, NM
Incident ID: NRM2015552273

BLM CAVE KARST MAP

Mills Ranch Rd

Legend

-  High Potential
-  Leak Area

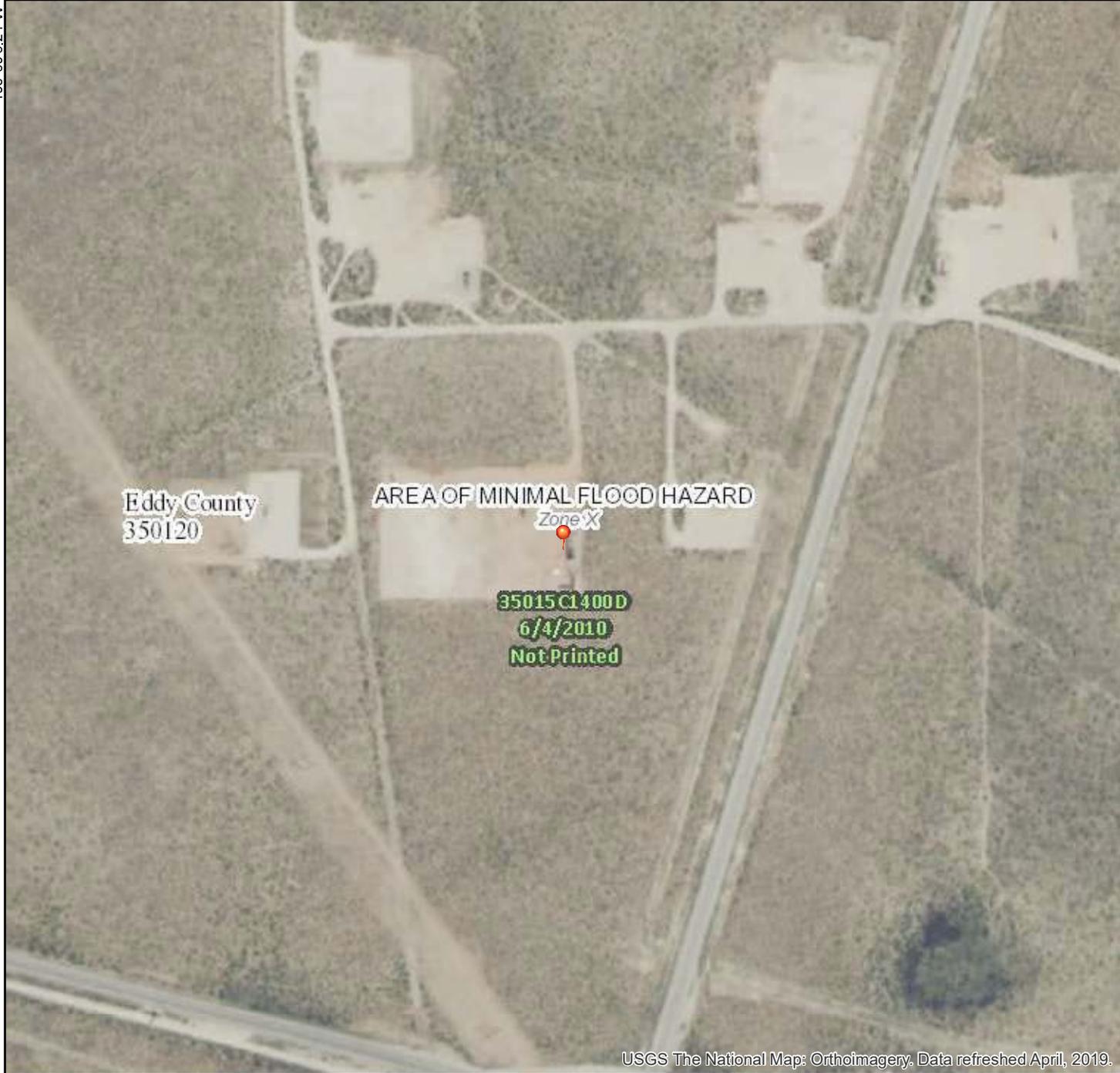
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National Flood Hazard Layer FIRMette



32°20'2.59"N



Legend

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

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



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

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 5/26/2020 at 1:38:45 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.

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



32°19'32.19"N

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Laboratory Analytical Results Summary
 Oxy, Federal 12-1H Battery (4-16-20)

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	5/27/20	5/27/20	5/27/20	5/27/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32.0	112	16.0	96.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP1 @ Surface	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	5/27/20	5/27/20	5/27/20	5/27/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		71200	880	544	32.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		12.2	<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	5/27/20	5/27/20	5/28/20	5/27/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		64800	1390	576	32.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	5/27/20	5/27/20	5/27/20	5/27/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		0.256	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		123000	928	512	32.0
GRO	TPH 8015M		13.0	<10.0	n/a	n/a
DRO	TPH 8015M		10.2	<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a

Laboratory Analytical Results Summary
 Oxy, Federal 12-1H Battery (4-16-20)

		Sample ID	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	5/27/20	5/27/20	5/27/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		98600	528	240
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		69.2	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP5 @ Surface	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'
Analyte	Method	Date	5/27/20	5/27/20	5/27/20	5/27/20	5/27/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		62600	2160	1280	464	16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		331	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		81.9	<10.0	n/a	n/a	n/a

		Sample ID	SP6 @ Surface	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	5/28/20	5/28/20	5/28/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		77300	272	48.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP7 @ Surface	SP7 @ 1'	SP7 @ 2'
Analyte	Method	Date	5/28/20	5/28/20	5/28/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		66600	848	64.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		29.2	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

Laboratory Analytical Results Summary
 Oxy, Federal 12-1H Battery (4-16-20)

		Sample ID	SP8 @ Surface	SP8 @ 1'	SP8 @ 2'
Analyte	Method	Date	5/28/20	5/28/20	5/28/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		62600	304	272
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP9 @ Surface	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'
Analyte	Method	Date	5/28/20	5/28/20	5/28/20	5/28/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		48000	1390	496	64.0
GRO	TPH 8015M		<50.0	<10.0	n/a	n/a
DRO	TPH 8015M		8010	<10.0	n/a	n/a
EXT DRO	TPH 8015M		2840	<10.0	n/a	n/a



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

June 02, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: FEDERAL 12 - 1H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/29/20 15:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: N @ SURFACE (H001462-01)

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTEX	<0.300	0.300	06/01/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/02/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91		
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31		
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND						

Surrogate: 1-Chlorooctane 90.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.3 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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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:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: E @ SURFACE (H001462-02)

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	06/01/2020	ND	1.89	94.4	2.00	1.21	
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64	
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73	
Total BTEX	<0.300	0.300	06/01/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/02/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 92.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: W @ SURFACE (H001462-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2020	ND	1.89	94.4	2.00	1.21	
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64	
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73	
Total BTEX	<0.300	0.300	06/01/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/02/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 88.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: S @ SURFACE (H001462-04)

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	06/01/2020	ND	1.89	94.4	2.00	1.21	
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64	
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73	
Total BTEX	<0.300	0.300	06/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/02/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 1 @ SURFACE (H001462-05)

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTEX	<0.300	0.300	06/01/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	71200	16.0	06/02/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91		
DRO >C10-C28*	12.2	10.0	06/01/2020	ND	187	93.4	200	6.31		
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND						

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 1 @ 1' (H001462-06)

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	06/01/2020	ND	1.89	94.4	2.00	1.21	
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64	
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73	
Total BTEX	<0.300	0.300	06/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	06/02/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 95.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 1 @ 2' (H001462-07)

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTEX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	544	16.0	06/02/2020	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	06/01/2020	ND	192	95.8	200	4.91		
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31		
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND						

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 1 @ 3' (H001462-08)

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	06/02/2020	ND	400	100	400	3.92	

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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:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 2 @ SURFACE (H001462-09)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTEX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64800	16.0	06/02/2020	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	06/01/2020	ND	192	95.8	200	4.91		
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31		
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND						

Surrogate: 1-Chlorooctane 90.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 2 @ 1' (H001462-10)

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTEX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	1390	16.0	06/02/2020	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	06/01/2020	ND	192	95.8	200	4.91		
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31		
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND						

Surrogate: 1-Chlorooctane 91.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.5 % 42.2-156

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Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 2 @ 2' (H001462-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	06/02/2020	ND	400	100	400	3.92	

Sample ID: SP 2 @ 3' (H001462-12)

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	06/02/2020	ND	400	100	400	3.92	

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Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 3 @ SURFACE (H001462-13)

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	06/01/2020	ND	1.89	94.4	2.00	1.21	
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64	
Total Xylenes*	0.256	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73	
Total BTEX	<0.300	0.300	06/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	123000	16.0	06/02/2020	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*	13.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	10.2	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 98.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 3 @ 1' (H001462-14)

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTEX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	928	16.0	06/02/2020	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	06/01/2020	ND	192	95.8	200	4.91		
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31		
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND						

Surrogate: 1-Chlorooctane 96.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 3 @ 2' (H001462-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	06/02/2020	ND	400	100	400	3.92	

Sample ID: SP 3 @ 3' (H001462-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/02/2020	ND	400	100	400	3.92	

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Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 4 @ SURFACE (H001462-17)

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTEX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	98600	16.0	06/02/2020	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	06/01/2020	ND	192	95.8	200	4.91		
DRO >C10-C28*	69.2	10.0	06/01/2020	ND	187	93.4	200	6.31		
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND						

Surrogate: 1-Chlorooctane 91.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.8 % 42.2-156

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Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 4 @ 1' (H001462-18)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTEX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 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	528	16.0	06/02/2020	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	06/01/2020	ND	192	95.8	200	4.91		
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31		
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND						

Surrogate: 1-Chlorooctane 92.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 42.2-156

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Analytical Results For:

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

Received: 05/29/2020
 Reported: 06/02/2020
 Project Name: FEDERAL 12 - 1H BATTERY
 Project Number: (4 -16 - 20)
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/27/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kelly Jacobson

Sample ID: SP 4 @ 2' (H001462-19)

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	06/02/2020	ND	400	100	400	3.92	

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Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 5 @ SURFACE (H001462-20)

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTEX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	62600	16.0	06/02/2020	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	06/01/2020	ND	192	95.8	200	4.91		
DRO >C10-C28*	331	10.0	06/01/2020	ND	187	93.4	200	6.31		
EXT DRO >C28-C36	81.9	10.0	06/01/2020	ND						

Surrogate: 1-Chlorooctane 92.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

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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:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 5 @ 1' (H001462-21)

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTEX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	06/02/2020	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	06/01/2020	ND	192	95.8	200	4.91		
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31		
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND						

Surrogate: 1-Chlorooctane 90.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.4 % 42.2-156

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* = Accredited Analyte

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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:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 5 @ 2' (H001462-22)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	06/02/2020	ND	400	100	400	3.92	

Sample ID: SP 5 @ 3' (H001462-23)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/02/2020	ND	400	100	400	3.92	

Sample ID: SP 5 @ 4' (H001462-24)

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	06/02/2020	ND	400	100	400	3.92	

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Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/28/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 6 @ SURFACE (H001462-25)

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTEX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	77300	16.0	06/02/2020	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	06/01/2020	ND	192	95.8	200	4.91		
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31		
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND						

Surrogate: 1-Chlorooctane 96.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 42.2-156

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Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/28/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 6 @ 1' (H001462-26)

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTEX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	272	16.0	06/02/2020	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	06/01/2020	ND	192	95.8	200	4.91		
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31		
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND						

Surrogate: 1-Chlorooctane 94.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.3 % 42.2-156

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Analytical Results For:

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 Cliff Brunson
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 Fax To: (575) 397-0397

Received:	05/29/2020	Sampling Date:	05/28/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 6 @ 2' (H001462-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/02/2020	ND	416	104	400	10.9	

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Fax To: (575) 397-0397

Received:	05/29/2020	Sampling Date:	05/28/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 7 @ SURFACE (H001462-28)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2020	ND	1.89	94.4	2.00	1.21	
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64	
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73	
Total BTEX	<0.300	0.300	06/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	66600	16.0	06/02/2020	ND	416	104	400	10.9	

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	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	29.2	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 95.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/28/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 7 @ 1' (H001462-29)

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTEX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	06/02/2020	ND	416	104	400	10.9		

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	06/01/2020	ND	192	95.8	200	4.91		
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31		
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND						

Surrogate: 1-Chlorooctane 99.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/28/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 7 @ 2' (H001462-30)

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	06/02/2020	ND	416	104	400	10.9	

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Fax To: (575) 397-0397

Received:	05/29/2020	Sampling Date:	05/28/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 8 @ SURFACE (H001462-31)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTEX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	62600	16.0	06/02/2020	ND	416	104	400	10.9		

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	06/01/2020	ND	192	95.8	200	4.91		
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31		
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND						

Surrogate: 1-Chlorooctane 94.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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

Received:	05/29/2020	Sampling Date:	05/28/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 8 @ 1' (H001462-32)

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	06/01/2020	ND	1.99	99.6	2.00	3.01		
Toluene*	<0.050	0.050	06/01/2020	ND	1.92	96.0	2.00	3.07		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.95	97.5	2.00	2.76		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.50	91.7	6.00	2.96		
Total BTEX	<0.300	0.300	06/01/2020	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	06/02/2020	ND	416	104	400	10.9		

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	06/01/2020	ND	189	94.4	200	5.82		
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	188	93.8	200	5.36		
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND						

Surrogate: 1-Chlorooctane 95.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/28/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 8 @ 2' (H001462-33)

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	06/02/2020	ND	416	104	400	10.9	

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Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/28/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 9 @ SURFACE (H001462-34)

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	06/02/2020	ND	1.99	99.6	2.00	3.01		
Toluene*	<0.050	0.050	06/02/2020	ND	1.92	96.0	2.00	3.07		
Ethylbenzene*	<0.050	0.050	06/02/2020	ND	1.95	97.5	2.00	2.76		
Total Xylenes*	<0.150	0.150	06/02/2020	ND	5.50	91.7	6.00	2.96		
Total BTEX	<0.300	0.300	06/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48000	16.0	06/02/2020	ND	416	104	400	10.9		

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	06/01/2020	ND	189	94.4	200	5.82			
DRO >C10-C28*	8010	50.0	06/01/2020	ND	188	93.8	200	5.36			
EXT DRO >C28-C36	2840	50.0	06/01/2020	ND							

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 468 % 42.2-156

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Analytical Results For:

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

Received:	05/29/2020	Sampling Date:	05/28/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 9 @ 1' (H001462-35)

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	06/01/2020	ND	1.99	99.6	2.00	3.01		
Toluene*	<0.050	0.050	06/01/2020	ND	1.92	96.0	2.00	3.07		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.95	97.5	2.00	2.76		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.50	91.7	6.00	2.96		
Total BTEX	<0.300	0.300	06/01/2020	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	1390	16.0	06/02/2020	ND	416	104	400	10.9		

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	06/01/2020	ND	189	94.4	200	5.82		
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	188	93.8	200	5.36		
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND						

Surrogate: 1-Chlorooctane 98.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 42.2-156

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

Received:	05/29/2020	Sampling Date:	05/28/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	(4 -16 - 20)	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 9 @ 2' (H001462-36)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	06/02/2020	ND	416	104	400	10.9	

Sample ID: SP 9 @ 3' (H001462-37)

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	06/02/2020	ND	416	104	400	10.9	

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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.
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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