



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 33 FED COM 8H (Leak Date: 4/20/21)

**Incident ID: NAPP2113043641**

This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NAPP2113043641.

The following information includes:

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

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

***OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP1 and SP3 (PURPLE shade on diagram) will be excavated to a depth of 5 feet. The leak area near SP2 (GREEN shade on diagram) will be excavated to a depth of 6 feet.***

***OXY will collect bottom and sidewall confirmation samples every 200 square feet. The estimated amount of soil to be excavated is 551 cubic yards. The remediation will be completed within 90 days of approval.***

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate 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

Page 3

Incident ID	nAPP2113043641
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?	50 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

Form C-141

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2113043641
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: 6-24-21email: 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	nAPP2113043641
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 CoordinatorSignature:  Date: 6-24-21email: wade\_dittrich@oxy.com Telephone: (575) 390-2828**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

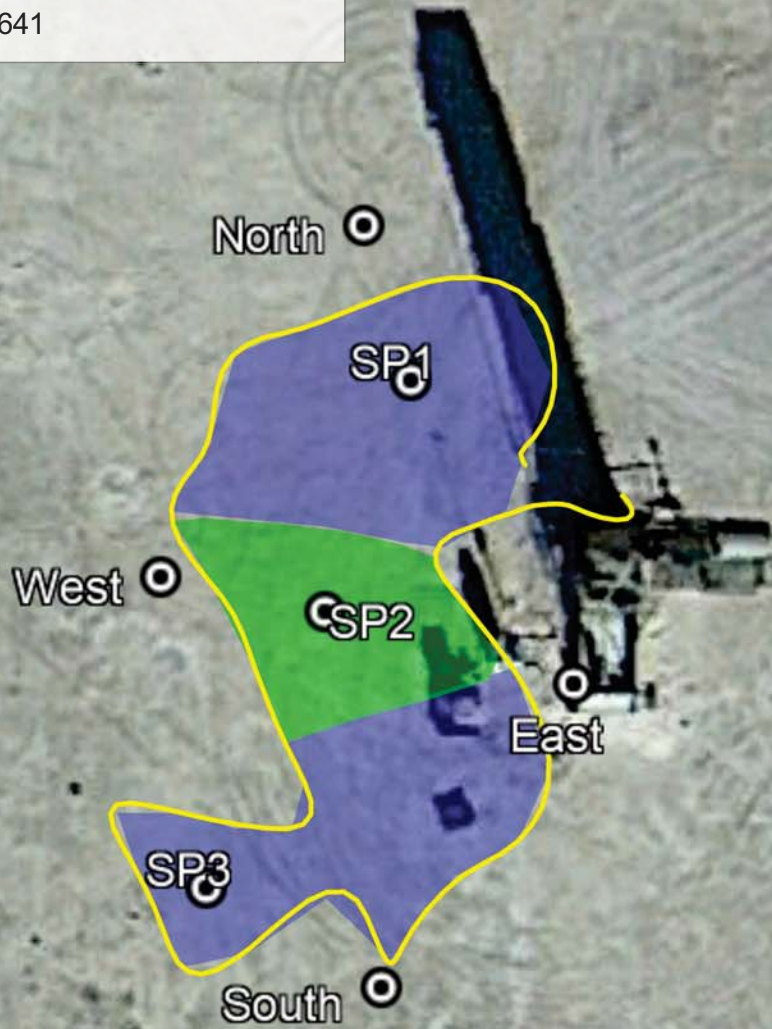
Signature: \_\_\_\_\_ Date: \_\_\_\_\_



# Oxy Cypress 33 Fed Com 8H

Leak Date: 4-20-21  
County: Eddy, NM  
Incident ID: nAPP2113043641

- Legend**
- 5' Excavation
  - 6' Excavation
  - Leak Area
  - Sample Points



SAMPLE POINT NOTES FOR CYPRESS 33 FED 8H(4/20/21)

SP NORTH	N 32.268267°	W 103.995980°
SP SOUTH	N 32.268005°	W 103.995973°
SP EAST	N 32.268109°	W 103.995895°
SP WEST	N 32.268146°	W 103.996063°
SP 1	N 32.268213°	W 103.995961°
SP 2	N 32.268134°	W 103.995996°
SP 3	N 32.268039°	W 103.996044°



1987-10-14		D	72019	50.54			1	Z			A
1992-11-16		D	62610		2978.27	NGVD29	1	S			A
1992-11-16		D	62611		2979.86	NAVD88	1	S			A
1992-11-16		D	72019	54.14			1	S			A
2003-01-29		D	62610		2982.15	NGVD29	1	S	USGS	S	A
2003-01-29		D	62611		2983.74	NAVD88	1	S	USGS	S	A
2003-01-29		D	72019	50.26			1	S	USGS	S	A

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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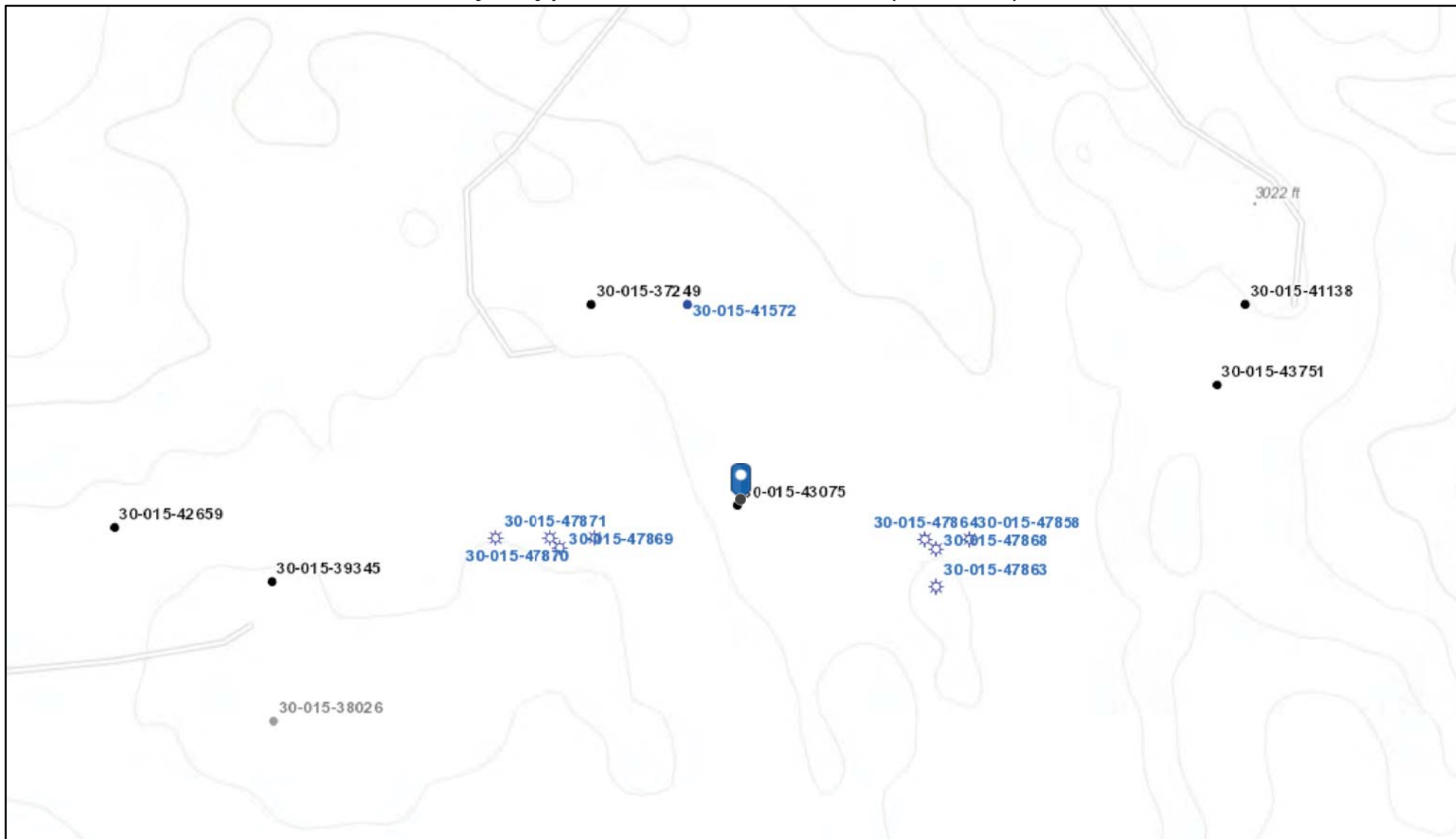
Accessibility      FOIA      Privacy      Policies and Notices  
[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)  
**Title: Groundwater for New Mexico: Water Levels**  
**URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels>**



Page Contact Information: [New Mexico Water Data Maintainer](#)  
Page Last Modified: 2021-04-27 10:51:06 EDT  
0.37   0.34 nadww01



## Oxy, Cypress 33 FED Com 8H(4-20-21)



4/27/2021, 8:40:48 AM

Wells - Large Scale

? undefined

● Miscellaneous

✱ CO2, Active

✱ CO2, Cancelled

✱ CO2, New

✱ CO2, Plugged

✱ CO2, Temporarily Abandoned

✱ Gas, Active

✱ Gas, Cancelled

✱ Gas, New

✱ Gas, Plugged

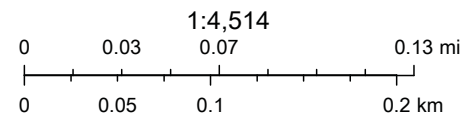
✱ Gas, Temporarily Abandoned

✱ Injection, Active

✱ Injection, Cancelled

✱ Injection, New

✱ Injection, Plugged



Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., OCD, Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA

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 33 Fed Com 8H

Leak Date: 4/20/21

## BLM CAVE KARST MAP

Legend

 LEAK AREA

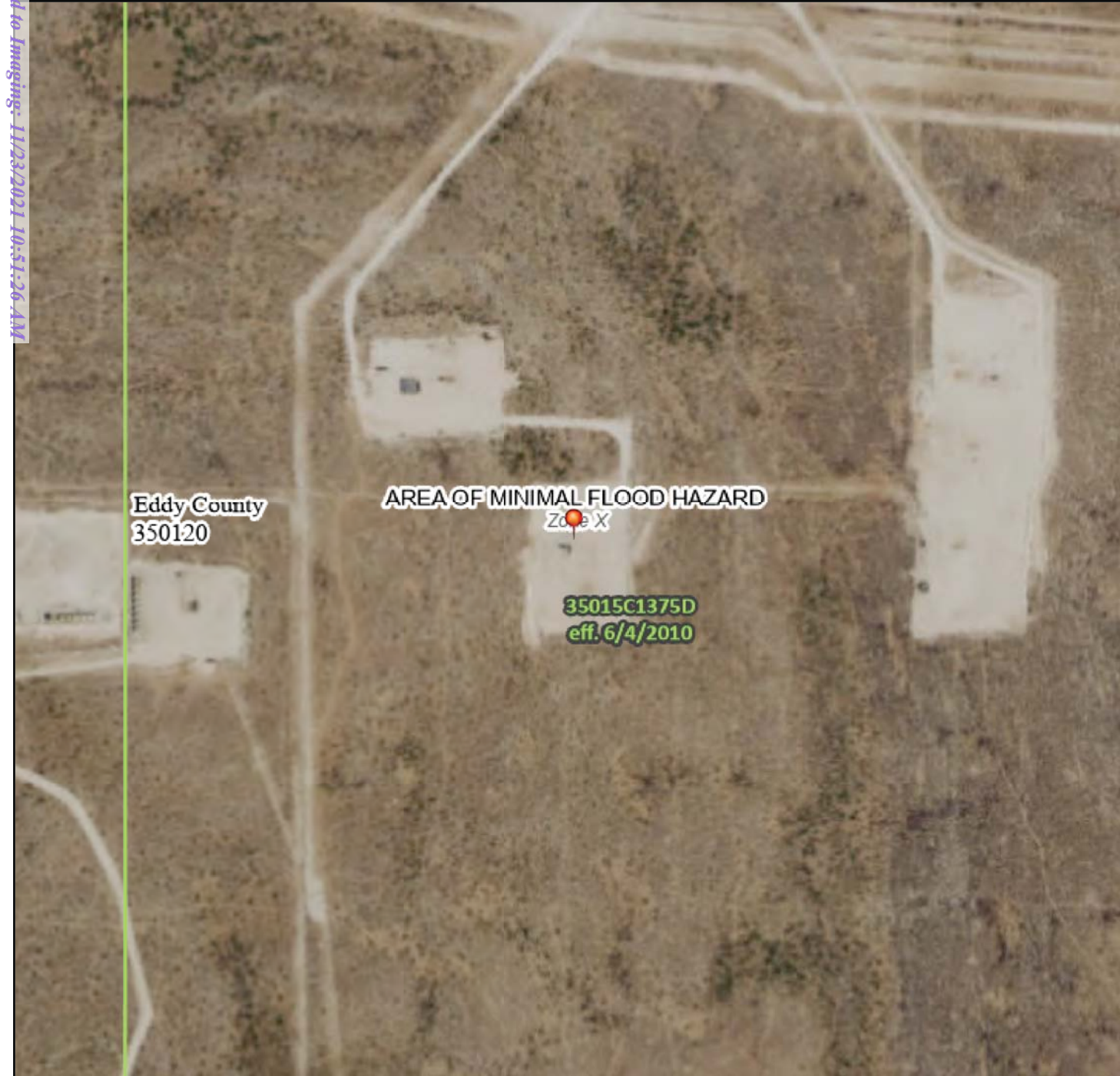
 Medium



# National Flood Hazard Layer FIRMette



04°0'4"W 32°16'21"N



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

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

## 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		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
MAP PANELS		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 4/27/2021 at 11:07 AM 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.

Received by OCD: 8/23/2021 6:20:34 PM

Page 11 of 48

Laboratory Analytical Results Summary  
Oxy, CYPRESS 33 FED COM 8H

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface	SP N @ SURFACE	SP E @ SURFACE	SP W @ SURFACE	SP S @ SURFACE
Analyte	Method	Date	4/27/21	4/27/21	4/27/21	4/27/21	6/8/21	6/8/21	6/8/21	6/8/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.07	<0.050	0.092	0.072	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.079	0.087	0.123	0.076	0.241	0.103	0.148	0.107
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	0.15	<0.050	0.064	0.055
Total Xylenes	BTEX 8021B		0.258	<0.150	0.423	<0.150	1.1	0.334	0.52	0.453
Total BTEX	BTEX 8021B		0.407	<0.300	0.637	<0.300	1.49	0.437	0.0732	0.614
Chloride	SM4500Cl-B		96.0	64.0	128.0	48.0	32.0	80.0	176.0	80.0
GRO	TPH 8015M		11.4	<10.0	10.9	<10.0	18.8	<10.0	<10.0	<10.0
DRO	TPH 8015M		30.7	13.9	20.5	12.7	25.8	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		12.6	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	SP1 @ Surface	SP1 @ 1'	SP 1 @ 2'	SP 1 @ 3'	SP 1 @ 4'	SP 1 @ 5'
Analyte	Method	Date	4/27/21	4/27/21	6/8/21	6/8/21	6/8/21	6/8/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	0.066	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.953	0.088	1.66	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		1.11	0.117	1.32	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		8.41	1.11	12	<0.150	0.318	<0.150
Total BTEX	BTEX 8021B		10.5	1.32	15	<0.300	0.318	<0.300
Chloride	SM4500Cl-B		62400	18400	1800.0	960.0	2.0	48.0
GRO	TPH 8015M		240	28.7	190	<10.0	13.5	<10.0
DRO	TPH 8015M		14900	1500	3130	304	605	<10.0
EXT DRO	TPH 8015M		4040	331	851	120	150	<10.0

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP 2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'	SP2 @ 6'
Analyte	Method	Date	4/27/21	4/27/21	6/8/21	6/8/21	6/8/21	6/8/21	6/9/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	0.355	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.105	<0.050	<0.050	10.8	0.167	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.084	<0.050	<0.050	9.19	0.255	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.734	<0.050	<0.150	68.4	2.86	<0.150	<0.150
Total BTEX	BTEX 8021B		0.923	<0.300	<0.300	88.8	3.28	<0.300	<0.300
Chloride	SM4500Cl-B		91200	7200	3920.0	1310.0	736.0	160.0	32.0
GRO	TPH 8015M		57.3	<10.0	<10.0	1390	93.2	<10.0	<10.0
DRO	TPH 8015M		18200	269	35	1660	3620	506	<10.0
EXT DRO	TPH 8015M		4350	72.4	10.5	3080	853	148	<10.0

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP 3 @ 2'	SP 3 @ 3'	SP 3 @ 4'	SP 3 @ 5'
Analyte	Method	Date	4/27/21	4/27/21	6/8/21	6/8/21	6/8/21	6/8/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.083	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		2.59	0.32	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		3.01	0.853	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		24.1	7.85	0.231	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		29.8	9.03	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		576	48.0	208.0	208.0	112.0	64.0
GRO	TPH 8015M		1110	349	12.3	<10.0	<10.0	<10.0
DRO	TPH 8015M		51000	6210	704	41.4	271	<10.0
EXT DRO	TPH 8015M		9470	1100	170	12.2	69.8	<10.0



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

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June 15, 2021

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 33 FED COM 8H

Enclosed are the results of analyses for samples received by the laboratory on 06/10/21 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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:	06/10/2021	Sampling Date:	06/08/2021
Reported:	06/15/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP N @ SURFACE (H211498-01)**

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	06/11/2021	ND	2.01	101	2.00	2.26	
<b>Toluene*</b>	<b>0.241</b>	0.050	06/11/2021	ND	2.08	104	2.00	3.93	
<b>Ethylbenzene*</b>	<b>0.150</b>	0.050	06/11/2021	ND	2.01	101	2.00	4.29	
<b>Total Xylenes*</b>	<b>1.10</b>	0.150	06/11/2021	ND	6.06	101	6.00	4.25	
<b>Total BTX</b>	<b>1.49</b>	0.300	06/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	06/11/2021	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
<b>GRO C6-C10*</b>	<b>18.8</b>	10.0	06/11/2021	ND	190	94.9	200	5.86	
<b>DRO &gt;C10-C28*</b>	<b>25.8</b>	10.0	06/11/2021	ND	191	95.3	200	8.68	
EXT DRO >C28-C36	<10.0	10.0	06/11/2021	ND					

Surrogate: 1-Chlorooctane 92.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.1 % 38.9-142

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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:	06/10/2021	Sampling Date:	06/08/2021
Reported:	06/15/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP E @ SURFACE (H211498-02)**

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	06/11/2021	ND	2.01	101	2.00	2.26		
Toluene*	0.103	0.050	06/11/2021	ND	2.08	104	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/11/2021	ND	2.01	101	2.00	4.29		
Total Xylenes*	0.334	0.150	06/11/2021	ND	6.06	101	6.00	4.25		
Total BTX	0.437	0.300	06/11/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	06/11/2021	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	06/11/2021	ND	190	94.9	200	5.86	
DRO >C10-C28*	<10.0	10.0	06/11/2021	ND	191	95.3	200	8.68	
EXT DRO >C28-C36	<10.0	10.0	06/11/2021	ND					

Surrogate: 1-Chlorooctane 86.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.4 % 38.9-142

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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:	06/10/2021	Sampling Date:	06/08/2021
Reported:	06/15/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP W @ SURFACE (H211498-03)**

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	06/11/2021	ND	2.01	101	2.00	2.26	
Toluene*	0.148	0.050	06/11/2021	ND	2.08	104	2.00	3.93	
Ethylbenzene*	0.064	0.050	06/11/2021	ND	2.01	101	2.00	4.29	
Total Xylenes*	0.520	0.150	06/11/2021	ND	6.06	101	6.00	4.25	
Total BTX	0.732	0.300	06/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	06/11/2021	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	06/12/2021	ND	209	104	200	0.845	
DRO >C10-C28*	<10.0	10.0	06/12/2021	ND	226	113	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	06/12/2021	ND					

Surrogate: 1-Chlorooctane 82.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.5 % 38.9-142

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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:	06/10/2021	Sampling Date:	06/08/2021
Reported:	06/15/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP S @ SURFACE (H211498-04)**

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	06/11/2021	ND	2.01	101	2.00	2.26	
Toluene*	0.107	0.050	06/11/2021	ND	2.08	104	2.00	3.93	
Ethylbenzene*	0.055	0.050	06/11/2021	ND	2.01	101	2.00	4.29	
Total Xylenes*	0.453	0.150	06/11/2021	ND	6.06	101	6.00	4.25	
Total BTX	0.614	0.300	06/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	06/11/2021	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	06/12/2021	ND	209	104	200	0.845	
DRO >C10-C28*	<10.0	10.0	06/12/2021	ND	226	113	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	06/12/2021	ND					

Surrogate: 1-Chlorooctane 71.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.6 % 38.9-142

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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:	06/10/2021	Sampling Date:	06/08/2021
Reported:	06/15/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 1 @ 2' (H211498-05)**

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.066</b>	0.050	06/11/2021	ND	2.01	101	2.00	2.26	
<b>Toluene*</b>	<b>1.66</b>	0.050	06/11/2021	ND	2.08	104	2.00	3.93	
<b>Ethylbenzene*</b>	<b>1.32</b>	0.050	06/11/2021	ND	2.01	101	2.00	4.29	
<b>Total Xylenes*</b>	<b>12.0</b>	0.150	06/11/2021	ND	6.06	101	6.00	4.25	
<b>Total BTEX</b>	<b>15.1</b>	0.300	06/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 191 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1800</b>	16.0	06/11/2021	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
<b>GRO C6-C10*</b>	<b>190</b>	10.0	06/12/2021	ND	209	104	200	0.845	
<b>DRO &gt;C10-C28*</b>	<b>3130</b>	10.0	06/12/2021	ND	226	113	200	2.37	
<b>EXT DRO &gt;C28-C36</b>	<b>851</b>	10.0	06/12/2021	ND					

Surrogate: 1-Chlorooctane 120 % 44.3-133

Surrogate: 1-Chlorooctadecane 188 % 38.9-142

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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:	06/10/2021	Sampling Date:	06/08/2021
Reported:	06/15/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 1 @ 3' (H211498-06)**

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	06/11/2021	ND	2.01	101	2.00	2.26	
Toluene*	<0.050	0.050	06/11/2021	ND	2.08	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	06/11/2021	ND	2.01	101	2.00	4.29	
Total Xylenes*	<0.150	0.150	06/11/2021	ND	6.06	101	6.00	4.25	
Total BTEX	<0.300	0.300	06/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	06/11/2021	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	06/12/2021	ND	209	104	200	0.845	
DRO >C10-C28*	304	10.0	06/12/2021	ND	226	113	200	2.37	
EXT DRO >C28-C36	121	10.0	06/12/2021	ND					

Surrogate: 1-Chlorooctane 95.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 38.9-142

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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:	06/10/2021	Sampling Date:	06/08/2021
Reported:	06/15/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 1 @ 4' (H211498-07)**

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	06/11/2021	ND	2.01	101	2.00	2.26		
Toluene*	<0.050	0.050	06/11/2021	ND	2.08	104	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/11/2021	ND	2.01	101	2.00	4.29		
Total Xylenes*	0.318	0.150	06/11/2021	ND	6.06	101	6.00	4.25		
Total BTX	0.318	0.300	06/11/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

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	06/11/2021	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*	13.5	10.0	06/12/2021	ND	209	104	200	0.845	
DRO >C10-C28*	605	10.0	06/12/2021	ND	226	113	200	2.37	
EXT DRO >C28-C36	150	10.0	06/12/2021	ND					

Surrogate: 1-Chlorooctane 82.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.0 % 38.9-142

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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:	06/10/2021	Sampling Date:	06/08/2021
Reported:	06/15/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 1 @ 5' (H211498-08)**

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	06/11/2021	ND	2.01	101	2.00	2.26	
Toluene*	<0.050	0.050	06/11/2021	ND	2.08	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	06/11/2021	ND	2.01	101	2.00	4.29	
Total Xylenes*	<0.150	0.150	06/11/2021	ND	6.06	101	6.00	4.25	
Total BTX	<0.300	0.300	06/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	06/11/2021	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	06/12/2021	ND	209	104	200	0.845	
DRO >C10-C28*	<10.0	10.0	06/12/2021	ND	226	113	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	06/12/2021	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.8 % 38.9-142

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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:	06/10/2021	Sampling Date:	06/08/2021
Reported:	06/15/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 2 @ 2' (H211498-09)**

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	06/11/2021	ND	2.01	101	2.00	2.26		
Toluene*	<0.050	0.050	06/11/2021	ND	2.08	104	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/11/2021	ND	2.01	101	2.00	4.29		
Total Xylenes*	<0.150	0.150	06/11/2021	ND	6.06	101	6.00	4.25		
Total BTEx	<0.300	0.300	06/11/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3920	16.0	06/11/2021	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	06/12/2021	ND	209	104	200	0.845	
DRO >C10-C28*	35.0	10.0	06/12/2021	ND	226	113	200	2.37	
EXT DRO >C28-C36	10.5	10.0	06/12/2021	ND					

Surrogate: 1-Chlorooctane 93.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.3 % 38.9-142

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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:	06/10/2021	Sampling Date:	06/08/2021
Reported:	06/15/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 2 @ 3' (H211498-10)**

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.355</b>	0.200	06/14/2021	ND	2.01	101	2.00	2.26	
<b>Toluene*</b>	<b>10.8</b>	0.200	06/14/2021	ND	2.08	104	2.00	3.93	
<b>Ethylbenzene*</b>	<b>9.19</b>	0.200	06/14/2021	ND	2.01	101	2.00	4.29	
<b>Total Xylenes*</b>	<b>68.4</b>	0.600	06/14/2021	ND	6.06	101	6.00	4.25	
<b>Total BTEx</b>	<b>88.8</b>	1.20	06/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 229 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1310</b>	16.0	06/11/2021	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
<b>GRO C6-C10*</b>	<b>1390</b>	100	06/14/2021	ND	209	104	200	0.845	
<b>DRO &gt;C10-C28*</b>	<b>16600</b>	100	06/14/2021	ND	226	113	200	2.37	
<b>EXT DRO &gt;C28-C36</b>	<b>3080</b>	100	06/14/2021	ND					

Surrogate: 1-Chlorooctane 374 % 44.3-133

Surrogate: 1-Chlorooctadecane 478 % 38.9-142

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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:	06/10/2021	Sampling Date:	06/08/2021
Reported:	06/15/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 2 @ 4' (H211498-11)**

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	06/11/2021	ND	2.01	101	2.00	2.26	
Toluene*	<b>0.167</b>	0.050	06/11/2021	ND	2.08	104	2.00	3.93	
Ethylbenzene*	<b>0.255</b>	0.050	06/11/2021	ND	2.01	101	2.00	4.29	
Total Xylenes*	<b>2.86</b>	0.150	06/11/2021	ND	6.06	101	6.00	4.25	
Total BTEX	<b>3.28</b>	0.300	06/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 164 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>736</b>	16.0	06/11/2021	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*	<b>93.2</b>	10.0	06/12/2021	ND	209	104	200	0.845	
DRO >C10-C28*	<b>3620</b>	10.0	06/12/2021	ND	226	113	200	2.37	
EXT DRO >C28-C36	<b>853</b>	10.0	06/12/2021	ND					

Surrogate: 1-Chlorooctane 119 % 44.3-133

Surrogate: 1-Chlorooctadecane 183 % 38.9-142

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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:	06/10/2021	Sampling Date:	06/08/2021
Reported:	06/15/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 2 @ 5' (H211498-12)**

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	06/11/2021	ND	2.01	101	2.00	2.26	
Toluene*	<0.050	0.050	06/11/2021	ND	2.08	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	06/11/2021	ND	2.01	101	2.00	4.29	
Total Xylenes*	<0.150	0.150	06/11/2021	ND	6.06	101	6.00	4.25	
Total BTX	<0.300	0.300	06/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/11/2021	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	06/12/2021	ND	209	104	200	0.845	
DRO >C10-C28*	506	10.0	06/12/2021	ND	226	113	200	2.37	
EXT DRO >C28-C36	148	10.0	06/12/2021	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.8 % 38.9-142

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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:	06/10/2021	Sampling Date:	06/08/2021
Reported:	06/15/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 2 @ 6' (H211498-13)**

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	06/11/2021	ND	2.01	101	2.00	2.26	
Toluene*	<0.050	0.050	06/11/2021	ND	2.08	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	06/11/2021	ND	2.01	101	2.00	4.29	
Total Xylenes*	<0.150	0.150	06/11/2021	ND	6.06	101	6.00	4.25	
Total BTX	<0.300	0.300	06/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	06/11/2021	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	06/12/2021	ND	209	104	200	0.845	
DRO >C10-C28*	<10.0	10.0	06/12/2021	ND	226	113	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	06/12/2021	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.9 % 38.9-142

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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:	06/10/2021	Sampling Date:	06/08/2021
Reported:	06/15/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 3 @ 2' (H211498-14)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2021	ND	2.01	101	2.00	2.26		
Toluene*	<0.050	0.050	06/11/2021	ND	2.08	104	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/11/2021	ND	2.01	101	2.00	4.29		
Total Xylenes*	0.231	0.150	06/11/2021	ND	6.06	101	6.00	4.25		
Total BTX	<0.300	0.300	06/11/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

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	06/11/2021	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*	12.3	10.0	06/12/2021	ND	209	104	200	0.845	
DRO >C10-C28*	704	10.0	06/12/2021	ND	226	113	200	2.37	
EXT DRO >C28-C36	170	10.0	06/12/2021	ND					

Surrogate: 1-Chlorooctane 89.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.8 % 38.9-142

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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: 06/10/2021  
 Reported: 06/15/2021  
 Project Name: CYPRESS 33 FED COM 8H  
 Project Number: ( 4/20/21 )  
 Project Location: OXY

Sampling Date: 06/08/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 3' (H211498-15)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2021	ND	2.01	101	2.00	2.26	
Toluene*	<0.050	0.050	06/11/2021	ND	2.08	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	06/11/2021	ND	2.01	101	2.00	4.29	
Total Xylenes*	<0.150	0.150	06/11/2021	ND	6.06	101	6.00	4.25	
Total BTX	<0.300	0.300	06/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

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	06/11/2021	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	06/12/2021	ND	209	104	200	0.845	
DRO >C10-C28*	41.4	10.0	06/12/2021	ND	226	113	200	2.37	
EXT DRO >C28-C36	12.2	10.0	06/12/2021	ND					

Surrogate: 1-Chlorooctane 88.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.5 % 38.9-142

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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:	06/10/2021	Sampling Date:	06/08/2021
Reported:	06/15/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 3 @ 4' (H211498-16)**

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	06/11/2021	ND	2.01	101	2.00	2.26	
Toluene*	<0.050	0.050	06/11/2021	ND	2.08	104	2.00	3.93	
Ethylbenzene*	<0.050	0.050	06/11/2021	ND	2.01	101	2.00	4.29	
Total Xylenes*	<0.150	0.150	06/11/2021	ND	6.06	101	6.00	4.25	
Total BTX	<0.300	0.300	06/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	06/11/2021	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	06/12/2021	ND	209	104	200	0.845	
DRO >C10-C28*	271	10.0	06/12/2021	ND	226	113	200	2.37	
EXT DRO >C28-C36	69.8	10.0	06/12/2021	ND					

Surrogate: 1-Chlorooctane 90.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 104 % 38.9-142

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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:	06/10/2021	Sampling Date:	06/08/2021
Reported:	06/15/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 3 @ 5' (H211498-17)**

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	06/11/2021	ND	2.02	101	2.00	1.57	
Toluene*	<0.050	0.050	06/11/2021	ND	2.08	104	2.00	1.84	
Ethylbenzene*	<0.050	0.050	06/11/2021	ND	2.02	101	2.00	2.04	
Total Xylenes*	<0.150	0.150	06/11/2021	ND	6.10	102	6.00	1.56	
Total BTX	<0.300	0.300	06/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/11/2021	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	06/12/2021	ND	209	104	200	0.845	
DRO >C10-C28*	<10.0	10.0	06/12/2021	ND	226	113	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	06/12/2021	ND					

Surrogate: 1-Chlorooctane 88.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



---

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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.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

## ANALYSIS REQUEST

Phone #:


**Sample I.D.**

[illegible]

**Sampler - UFS**

3.6c #113

(Initials)

100

\* Name changed 6/14/21  
40.

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





# **CARDINAL LABORATORIES**

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### **BILL TO**

### **ANALYSIS REQUEST**

<b>Company Name:</b> BBC International, Inc. <b>Project Manager:</b> Cliff Brunson <b>Address:</b> P.O. Box 805 <b>City:</b> Hobbs <b>Phone #:</b> 575-397-6388 <b>Project #:</b> <b>Project Name:</b> CYPRESS 33 FED COM 1H (4-20-21) <b>Project Location:</b>		<b>P.O. #:</b> <b>Company:</b> OXY <b>Attn:</b> WADE <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>	
<b>Sample Name:</b> SIMON RENDON <small>FOR LAB USE ONLY</small>		<b>MATRIX</b> GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	
<b>Lab I.D.</b> SP2 @ 4' SP2 @ 5' SP2 @ 6' SP3 @ 2' SP3 @ 3' SP3 @ 4' SP3 @ 5'		<b>DATE</b> 6-8-21 6-8-21 6-8-21 6-8-21 6-8-21 6-8-21 6-8-21	
<b>Sample I.D.</b> SP2 @ 4' SP2 @ 5' SP2 @ 6' SP3 @ 2' SP3 @ 3' SP3 @ 4' SP3 @ 5'		<b>TIME</b> 12:45 1:06 1:24 1:42 1:57 2:16 2:34	
<b>Requisitioned By:</b> Jimmy Ford <b>Date:</b> 6/21 <b>Time:</b> 8:00 AM <b>Received By:</b> [Signature] <b>Date:</b> 6/21 <b>Time:</b> 4:45 PM <b>Sample Condition:</b> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <b>Delivered By:</b> (Circle One) UPS - Bus - Other: - 3.6 @ #113 <b>Sampler - UPS - Bus - Other:</b>		<b>CL</b> <b>BTEX</b> <b>TPH EXT</b>	
<b>REMARKS:</b> * Name changed 6/14/21		<b>ANALYSIS REQUEST</b>	



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

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April 30, 2021

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 33 FED COM 8H

Enclosed are the results of analyses for samples received by the laboratory on 04/28/21 11:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	04/28/2021	Sampling Date:	04/27/2021
Reported:	04/30/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP N @ SURFACE (H211092-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.070</b>	0.050	04/29/2021	ND	1.93	96.7	2.00	3.02	
<b>Toluene*</b>	<b>0.079</b>	0.050	04/29/2021	ND	1.93	96.3	2.00	4.02	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.91	95.6	2.00	3.89	
<b>Total Xylenes*</b>	<b>0.258</b>	0.150	04/29/2021	ND	5.69	94.9	6.00	3.40	
<b>Total BTX</b>	<b>0.407</b>	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	04/30/2021	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
<b>GRO C6-C10*</b>	<b>11.4</b>	10.0	04/29/2021	ND	215	108	200	1.32	
<b>DRO &gt;C10-C28*</b>	<b>30.7</b>	10.0	04/29/2021	ND	226	113	200	0.365	
<b>EXT DRO &gt;C28-C36</b>	<b>12.6</b>	10.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 79.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.7 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 04/28/2021  
 Reported: 04/30/2021  
 Project Name: CYPRESS 33 FED COM 8H  
 Project Number: ( 4/20/21 )  
 Project Location: OXY

Sampling Date: 04/27/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP E @ SURFACE (H211092-02)**

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	04/29/2021	ND	1.93	96.7	2.00	3.02		
Toluene*	0.087	0.050	04/29/2021	ND	1.93	96.3	2.00	4.02		
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.91	95.6	2.00	3.89		
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.69	94.9	6.00	3.40		
Total BTEX	<0.300	0.300	04/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

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	04/30/2021	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	04/29/2021	ND	215	108	200	1.32	
<b>DRO &gt;C10-C28*</b>	<b>13.9</b>	10.0	04/29/2021	ND	226	113	200	0.365	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 72.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 57.3 % 38.9-142

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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:	04/28/2021	Sampling Date:	04/27/2021
Reported:	04/30/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP W @ SURFACE (H211092-03)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.092	0.050	04/29/2021	ND	1.93	96.7	2.00	3.02	
Toluene*	0.123	0.050	04/29/2021	ND	1.93	96.3	2.00	4.02	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.91	95.6	2.00	3.89	
Total Xylenes*	0.423	0.150	04/29/2021	ND	5.69	94.9	6.00	3.40	
Total BTX	0.637	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 69.9-140

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	04/30/2021	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*	10.9	10.0	04/29/2021	ND	215	108	200	1.32	
DRO >C10-C28*	20.5	10.0	04/29/2021	ND	226	113	200	0.365	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 74.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 66.3 % 38.9-142

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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:	04/28/2021	Sampling Date:	04/27/2021
Reported:	04/30/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP S @ SURFACE (H211092-04)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.072	0.050	04/29/2021	ND	1.93	96.7	2.00	3.02	
Toluene*	0.076	0.050	04/29/2021	ND	1.93	96.3	2.00	4.02	
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.91	95.6	2.00	3.89	
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.69	94.9	6.00	3.40	
Total BTX	<0.300	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.9-140

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	04/30/2021	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	04/29/2021	ND	215	108	200	1.32	
<b>DRO &gt;C10-C28*</b>	<b>12.7</b>	10.0	04/29/2021	ND	226	113	200	0.365	
EXT DRO >C28-C36	<10.0	10.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 71.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 65.0 % 38.9-142

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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:	04/28/2021	Sampling Date:	04/27/2021
Reported:	04/30/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 1 @ SURFACE (H211092-05)**

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	04/29/2021	ND	1.93	96.7	2.00	3.02	
Toluene*	0.953	0.050	04/29/2021	ND	1.93	96.3	2.00	4.02	
Ethylbenzene*	1.11	0.050	04/29/2021	ND	1.91	95.6	2.00	3.89	
Total Xylenes*	8.41	0.150	04/29/2021	ND	5.69	94.9	6.00	3.40	
Total BTX	10.5	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 146 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	62400	16.0	04/30/2021	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*	240	50.0	04/29/2021	ND	215	108	200	1.32	
DRO >C10-C28*	14900	50.0	04/29/2021	ND	226	113	200	0.365	
EXT DRO >C28-C36	4040	50.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 144 % 44.3-133

Surrogate: 1-Chlorooctadecane 551 % 38.9-142

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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: 04/28/2021  
 Reported: 04/30/2021  
 Project Name: CYPRESS 33 FED COM 8H  
 Project Number: ( 4/20/21 )  
 Project Location: OXY

Sampling Date: 04/27/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 1' (H211092-06)**

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	04/29/2021	ND	1.93	96.7	2.00	3.02	
Toluene*	0.088	0.050	04/29/2021	ND	1.93	96.3	2.00	4.02	
Ethylbenzene*	0.117	0.050	04/29/2021	ND	1.91	95.6	2.00	3.89	
Total Xylenes*	1.11	0.150	04/29/2021	ND	5.69	94.9	6.00	3.40	
Total BTEx	1.32	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	04/30/2021	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*	28.7	10.0	04/29/2021	ND	222	111	200	3.11	
DRO >C10-C28*	1500	10.0	04/29/2021	ND	216	108	200	3.38	QR-03
EXT DRO >C28-C36	331	10.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 83.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 113 % 38.9-142

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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:	04/28/2021	Sampling Date:	04/27/2021
Reported:	04/30/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 2 @ SURFACE (H211092-07)**

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	04/29/2021	ND	1.93	96.7	2.00	3.02	
Toluene*	0.105	0.050	04/29/2021	ND	1.93	96.3	2.00	4.02	
Ethylbenzene*	0.084	0.050	04/29/2021	ND	1.91	95.6	2.00	3.89	
Total Xylenes*	0.734	0.150	04/29/2021	ND	5.69	94.9	6.00	3.40	
Total BTX	0.923	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	91200	16.0	04/30/2021	ND	416	104	400	0.00		
TPH 8015M	mg/kg		Analyzed By: MS						S-06	

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*	57.3	50.0	04/29/2021	ND	222	111	200	3.11	
DRO >C10-C28*	18200	50.0	04/29/2021	ND	216	108	200	3.38	
EXT DRO >C28-C36	4350	50.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 676 % 38.9-142

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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:	04/28/2021	Sampling Date:	04/27/2021
Reported:	04/30/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 2 @ 1' (H211092-08)**

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	04/29/2021	ND	1.93	96.7	2.00	3.02		
Toluene*	<0.050	0.050	04/29/2021	ND	1.93	96.3	2.00	4.02		
Ethylbenzene*	<0.050	0.050	04/29/2021	ND	1.91	95.6	2.00	3.89		
Total Xylenes*	<0.150	0.150	04/29/2021	ND	5.69	94.9	6.00	3.40		
Total BTX	<0.300	0.300	04/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7200	16.0	04/30/2021	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	04/29/2021	ND	222	111	200	3.11	
DRO >C10-C28*	269	10.0	04/29/2021	ND	216	108	200	3.38	
EXT DRO >C28-C36	72.4	10.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.7 % 38.9-142

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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: 04/28/2021  
 Reported: 04/30/2021  
 Project Name: CYPRESS 33 FED COM 8H  
 Project Number: ( 4/20/21 )  
 Project Location: OXY

Sampling Date: 04/27/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ SURFACE (H211092-09)**

BTEx 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.083</b>	0.050	04/29/2021	ND	1.93	96.7	2.00	3.02	
<b>Toluene*</b>	<b>2.59</b>	0.050	04/29/2021	ND	1.93	96.3	2.00	4.02	
<b>Ethylbenzene*</b>	<b>3.01</b>	0.050	04/29/2021	ND	1.91	95.6	2.00	3.89	
<b>Total Xylenes*</b>	<b>24.1</b>	0.150	04/29/2021	ND	5.69	94.9	6.00	3.40	
<b>Total BTEx</b>	<b>29.8</b>	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 257 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>576</b>	16.0	04/30/2021	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
<b>GRO C6-C10*</b>	<b>1110</b>	50.0	04/29/2021	ND	222	111	200	3.11	
<b>DRO &gt;C10-C28*</b>	<b>51000</b>	50.0	04/29/2021	ND	216	108	200	3.38	
<b>EXT DRO &gt;C28-C36</b>	<b>9470</b>	50.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 489 % 44.3-133

Surrogate: 1-Chlorooctadecane 1520 % 38.9-142

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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:	04/28/2021	Sampling Date:	04/27/2021
Reported:	04/30/2021	Sampling Type:	Soil
Project Name:	CYPRESS 33 FED COM 8H	Sampling Condition:	Cool & Intact
Project Number:	( 4/20/21 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

**Sample ID: SP 3 @ 1' (H211092-10)**

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	04/29/2021	ND	1.93	96.7	2.00	3.02	
Toluene*	0.320	0.050	04/29/2021	ND	1.93	96.3	2.00	4.02	
Ethylbenzene*	0.853	0.050	04/29/2021	ND	1.91	95.6	2.00	3.89	
Total Xylenes*	7.85	0.150	04/29/2021	ND	5.69	94.9	6.00	3.40	
Total BTX	9.03	0.300	04/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 190 % 69.9-140

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	04/30/2021	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*	349	10.0	04/29/2021	ND	222	111	200	3.11	
DRO >C10-C28*	6210	10.0	04/29/2021	ND	216	108	200	3.38	
EXT DRO >C28-C36	1100	10.0	04/29/2021	ND					

Surrogate: 1-Chlorooctane 186 % 44.3-133

Surrogate: 1-Chlorooctadecane 230 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

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

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

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Celey D. Keene, Lab Director/Quality Manager



# ARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:		BILL TO												ANALYSIS REQUEST											
Project Manager: Cliff Brunson		Company: OXY																									
Address: P.O. Box 805		Attn: WADE																									
City: Hobbs		Address:																									
Phone #: 575-397-6388		City:																									
Fax #: 575-397-0397		State: Zip:																									
Project #:		Project Owner: Oxy																									
Project Name: CYPRESS 33 FED COM 8H (4/20/21)		State: Zip:																									
Project Location:		Phone #:																									
Fax #:																											
Sampler Name: Simon Rendon																											
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV	SAMPLING	CL	BTEX	TPH EXT															
1	SP N @ SURFACE	G	1	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	✓	✓	✓										
2	SP E @ SURFACE												4/27/21	9:35	✓	✓	✓										
3	SP W @ SURFACE												4/27/21	9:43	✓	✓	✓										
4	SP S @ SURFACE												4/27/21	9:55	✓	✓	✓										
5	SP 1 @ SURFACE												4/27/21	10:12	✓	✓	✓										
6	SP 1 @ SURFACE												4/27/21	10:25	✓	✓	✓										
7	SP 2 @ SURFACE												4/27/21	11:05	✓	✓	✓										
8	SP 2 @ SURFACE												4/27/21	11:28	✓	✓	✓										
9	SP 3 @ SURFACE												4/27/21	12:55	✓	✓	✓										
10	SP 3 @ SURFACE												4/27/21	1:24	✓	✓	✓										
	SP 3 @ 1'												4/27/21	1:54	✓	✓	✓										

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Relinquished By: <i>Simon Rendon</i>	Date: 4-28-21	Received By: <i>Deval Hester</i>	Time: 8:00 AM	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>Deval Hester</i>	Date: 4-28-21	Received By: <i>Deval Hester</i>	Time: 11:45 AM	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>UPS</i>	CHECKED BY: <i>Deval Hester</i> (Initials)				

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

Form C-141

State of New Mexico  
Oil Conservation Division

Page 5

Incident ID	nAPP2113043641
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: 6-24-21  
email: wade\_dittrich@oxy.com Telephone: (575) 390-2828

**OCD Only**Received by: Robert Hamlet Date: 11/23/2021☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature:  Date: 11/23/2021

**District I**

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

**District II**

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

**District III**

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

**District IV**

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

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

CONDITIONS

Action 44984

**CONDITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 44984
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	The Workplan/Remediation Plan is approved with the following conditions: Please make sure the floor confirmation samples are delineated/excavated to meet closure criteria standards for proven depth to water determination. Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Collect confirmation samples, representing no more than 200 ft2.	11/23/2021