

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/REMEDIATION WORKPLAN

# OXY - Mesa Verde Wolfcamp 4H (Leak Date: 3/30/20)

Incident ID: NRM2012539093

This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NRM2012539093.

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, SP3-SP5 (GREEN shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP2 (PURPLE shade on diagram will be excavated to a depth of 2.5 feet.

Bottom confirmation samples will be collected every 75 feet. The estimated amount of soil to be excavated is 338 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.

(ft bgs)

Form C-141 Page 3

## State of New Mexico Oil Conservation Division

What is the shallowest depth to groundwater beneath the area affected by the release?

Incident ID	NRM2012539093
District RP	111111111111111111111111111111111111111
Facility ID	
Application ID	

33

## Site Assessment/Characterization

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

Did this release impact groundwater or surface water?	☐ Yes ■ No					
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ■ 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)?	☐ Yes ■ No					
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ■ 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?	☐ Yes ■ No					
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ■ No					
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ■ No					
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ■ No					
Are the lateral extents of the release overlying a subsurface mine?						
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ■ No					
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ■ No					
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ■ No					
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and verticontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil					
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 well  Field data	s.					
Data table of soil contaminant concentration data  Depth to water determination						
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs						
Photographs including date and GIS information						
Topographic/Aerial maps  Laboratory data including chain of custody						
Ethorita characteristics and the second seco						

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 Page 4

## State of New Mexico Oil Conservation Division

Incident ID	NRM2012539093
District RP	
Facility ID	
Application ID	

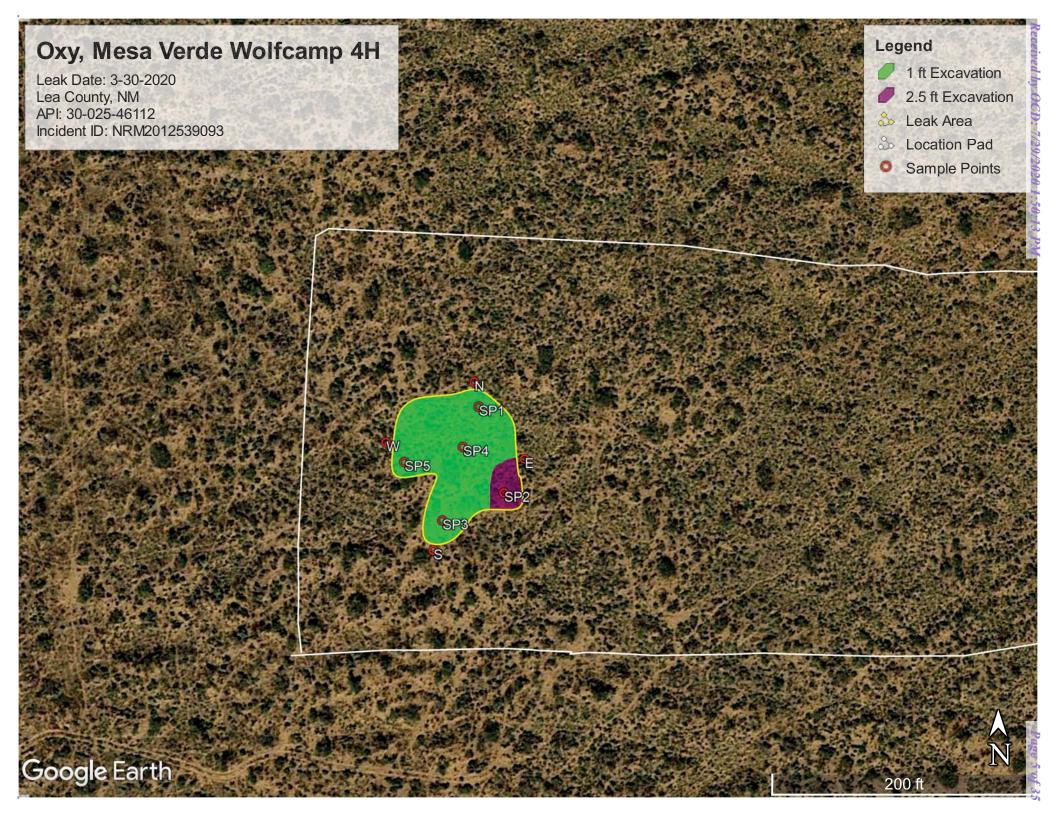
regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Wade Dittrich	Title: Environmental Coordinator
Signature: Washer Little	Date: 7-17-ZD
email: wade_dittrich@oxy.com	Telephone: (575) 390-2828
OCD Only	
Received by: Cristina Eads	Date: 07/29/2020

Form C-141 Page 5 State of New Mexico
Oil Conservation Division

Incident ID	NRM2012539093
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)
<u>Deferral Requests Only</u> : 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:
email: wade_dittrich@oxy.com Telephone: (575) 390-2828
OCD Only
Received by: Cristina Eads Date: 07/29/2020
☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved
Signature: Justu Date: 09/29/2020



### Mesa Verde Wolfcamp 4H (3-30-20)

#### Sample Points:

SP1 N 32.21087 W 103.68539

SP2 N 32.21069 W 103.68532

SP3 N 32.21063 W 103.68548

SP4 N 32.21078 W 103.68543

SP5 N 32.21075 W 103.68557

NORTH, N 32.21092 W 103.68540

EAST, N 32.21076 W 103.68527

WEST, N 32.21079 W 103.68561

SOUTH, N 32.21057 W 103.68550



USGS Home Contact USGS Search USGS

**National Water Information System: Web Interface** 

**USGS Water Resources** 

Data Category:		Geographic Area:		
Groundwater	~	New Mexico	~	GO

#### Click to hideNews Bulletins

- **Notice** The USGS Water Resources Mission Area's priority is to maintain the safety and well-being of our communities, including providing critical situational awareness in times of flooding in all 50 U.S. states and additional territories. Our hydrologic monitoring stations continue to send data in near real-time to NWISWeb, and we are continuing critical water monitoring activities to protect life and property on a case-by-case basis. The health and safety of the public and our employees are our highest priorities, and we continue to follow guidance from the White House, the CDC, and state and local authorities.
- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

#### Search Results -- 1 sites found

**Agency code** = usgs **site\_no list** = • 321312103395601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 321312103395601 24S.32E.10.344333

Lea County, New Mexico Latitude 32°13'30.4", Longitude 103°39'52.7" NAD83 Land-surface elevation 3,589.00 feet above NGVD29 The depth of the well is 60 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

#### Output formats

Table of data					
Tab-separated dat	: <u>a</u>				
Graph of data					
Reselect period					

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1950-04-13		D	33.64			2		U		
1955-06-03		D	31.90			2	R	U		
1976-01-22		D	31.80			2		U		
1981-03-20		D	19.93			2		U		
1986-03-18		D	37.16			2		U		
1991-05-29		D	39.64			2		U		
1996-03-14		D	38.20			2		S		
2001-02-27		D	36.58			2		S		
2006-02-07	09:30 MST	m	19.40			2		S	USGS	
2010-12-16	15:30 MST	m	33.96			2		S	USGS	

Explanation						
Section	Code	Description				

### Oxy, Mesa Verde WC 4H (3-24-20) + 3,000ft to h2o







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 Mesa Verde Wolfcamp 4H**

Leak Date: 3-30-20 Lea County, NM API: 30-025-46112

Incident ID: NRM2012539093

#### Legend



🚴 Leak Area



So Location Pad

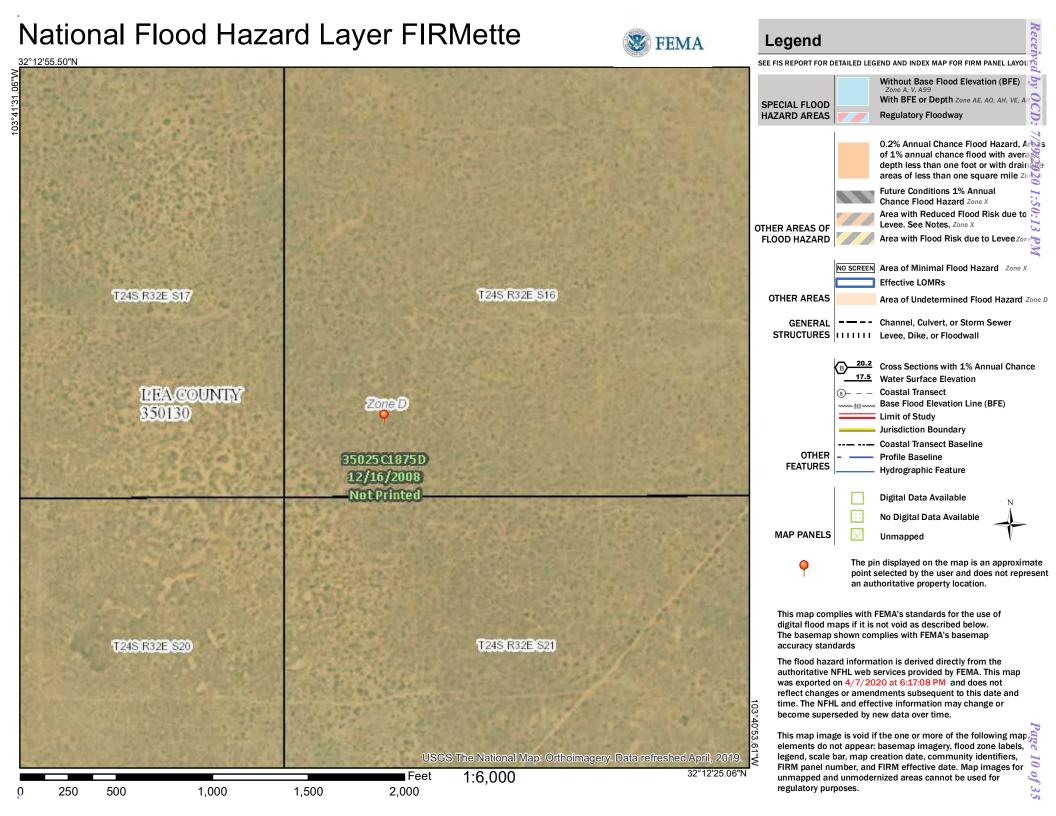


Low Potential



128





## Laboratory Analytical Results Summary Oxy, Mesa Verde Wolfcamp #4H (3-30-20)

			North @	East @	West @	South @
		Sample ID	Surface	Surface	Surface	Surface
Analyte	Method	Date	6/17/20	6/17/20	6/17/20	6/17/20
			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
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		240	304	256	192
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP1 @ Surface	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	6/17/20	6/17/20	6/17/20
			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
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	< 0.300	n/a
Chloride	SM4500CI-B		105000	384	144
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		326	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

			SP2 @		
		Sample ID	Surface	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	6/17/20	6/17/20	6/17/20
			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	SM4500CI-B		89300	288	608
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		1030	<10.0	n/a
EXT DRO	TPH 8015M		67.9	<10.0	n/a

			SP3 @		
		Sample ID	Surface	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	6/17/20	6/17/20	6/17/20
			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	SM4500CI-B		127000	288	224
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		221	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

## Laboratory Analytical Results Summary Oxy, Mesa Verde Wolfcamp #4H (3-30-20)

			SP4 @		
		Sample ID	Surface	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	6/17/20	6/17/20	6/17/20
			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	SM4500CI-B		28000	240	112
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		890	<10.0	n/a
EXT DRO	TPH 8015M		56.9	<10.0	n/a

			SP5 @		
		Sample ID	Surface	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	6/17/20	6/17/20	6/17/20
			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
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500CI-B		25600	32.0	672
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		964	<10.0	n/a
EXT DRO	TPH 8015M		78.2	<10.0	n/a



June 24, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MESA VERDE WOLFCAMP #4H

Enclosed are the results of analyses for samples received by the laboratory on 06/19/20 11:15.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celeg D. Keens

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,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

06/19/2020

Sampling Date:

06/17/2020

Reported:

06/24/2020

Sampling Type:

Soil

Project Name:

MESA VERDE WOLFCAMP #4H

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

(3-30-20)

Project Location:

OXY - LEA COUNTY, NM

Sample ID: NORTH @ SURFACE (H001632-01)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2020	ND	1.97	98.4	2.00	4.98	
Toluene*	<0.050	0.050	06/22/2020	ND	1.99	99.5	2.00	5.56	
Ethylbenzene*	<0.050	0.050	06/22/2020	ND	2.05	102	2.00	6.67	
Total Xylenes*	<0.150	0.150	06/22/2020	ND	5.96	99.3	6.00	6.81	
Total BTEX	<0.300	0.300	06/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/22/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2020	ND	216	108	200	7.38	
DRO >C10-C28*	<10.0	10.0	06/20/2020	ND	220	110	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	06/20/2020	ND					
Surrogate: 1-Chlorooctane	117 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	125 9	% 42.2-15	6						

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.

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

BTEX 8021B

DRO >C10-C28\*

EXT DRO >C28-C36

06/19/2020

Sampling Date:

06/17/2020

Reported:

06/24/2020

Sampling Type:

Soil

Project Name:

MESA VERDE WOLFCAMP #4H

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

(3-30-20)

mg/kg

Project Location:

OXY - LEA COUNTY, NM

Sample ID: EAST @ SURFACE (H001632-02)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2020	ND	1.97	98.4	2.00	4.98	
Toluene*	<0.050	0.050	06/22/2020	ND	1.99	99.5	2.00	5.56	
Ethylbenzene*	<0.050	0.050	06/22/2020	ND	2.05	102	2.00	6.67	
Total Xylenes*	<0.150	0.150	06/22/2020	ND	5.96	99.3	6.00	6.81	
Total BTEX	<0.300	0.300	06/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/22/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

ND

220

110

200

6.73

06/20/2020

06/20/2020

Analyzed By: MS

Surrogate: 1-Chlorooctane 101 % 44.3-144
Surrogate: 1-Chlorooctadecane 110 % 42.2-156

<10.0

<10.0

10.0

10.0

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 whistoever 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.

Celeg D. Kreene



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

06/19/2020

Sampling Date:

06/17/2020

Reported:

06/24/2020

Sampling Type:

Soil

Project Name:

MESA VERDE WOLFCAMP #4H

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

(3-30-20)

Project Location:

OXY - LEA COUNTY, NM

#### Sample ID: WEST @ SURFACE (H001632-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2020	ND	1.97	98.4	2.00	4.98	
Toluene*	<0.050	0.050	06/22/2020	ND	1.99	99.5	2.00	5.56	
Ethylbenzene*	<0.050	0.050	06/22/2020	ND	2.05	102	2.00	6.67	
Total Xylenes*	<0.150	0.150	06/22/2020	ND	5.96	99.3	6.00	6.81	
Total BTEX	<0.300	0.300	06/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/22/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2020	ND	216	108	200	7.38	
DRO >C10-C28*	<10.0	10.0	06/20/2020	ND	220	110	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	06/20/2020	ND					
Surrogate: 1-Chlorooctane	108	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	117 9	% 42.2-15	6						

#### Cardinal Laboratories

\*=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:

BTEX 8021B

EXT DRO >C28-C36

06/19/2020

Sampling Date:

06/17/2020

Reported:

06/24/2020

Sampling Type:

Soil

Project Name:

MESA VERDE WOLFCAMP #4H

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

(3-30-20)

mg/kg

Project Location:

OXY - LEA COUNTY, NM

Sample ID: SOUTH @ SURFACE (H001632-04)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	06/22/2020	ND	1.97	98.4	2.00	4.98	
Toluene*	< 0.050	0.050	06/22/2020	ND	1.99	99.5	2.00	5.56	
Ethylbenzene*	<0.050	0.050	06/22/2020	ND	2.05	102	2.00	6.67	
Total Xylenes*	<0.150	0.150	06/22/2020	ND	5.96	99.3	6.00	6.81	
Total BTEX	<0.300	0.300	06/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Chloride, SM4500CI-B  Analyte	mg/ Result	Reporting Limit	<b>Analyze</b> Analyzed	d By: GM  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
·	_		-		BS 416	% Recovery	True Value QC	RPD 3.77	Qualifier
Analyte	Result	Reporting Limit	Analyzed 06/22/2020	Method Blank		•	•		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 06/22/2020	Method Blank		•	•		Qualifier Qualifier
Analyte  Chloride  TPH 8015M	Result 192 mg/	Reporting Limit 16.0	Analyzed 06/22/2020 Analyze	Method Blank ND d By: MS	416	104	400	3.77	

ND

06/20/2020

Analyzed By: MS

Surrogate: 1-Chlorooctane 114 %
Surrogate: 1-Chlorooctadecane 124 %

<10.0

10.0

44.3-144

42.2-156

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Celeg D. Kreene



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

06/19/2020

Sampling Date:

06/17/2020

Reported:

06/24/2020

Sampling Type:

Soil

Project Name:

MESA VERDE WOLFCAMP #4H

Sampling Condition:

Cool & Intact

Project Number: Project Location: (3-30-20)

OXY - LEA COUNTY, NM

Sample Received By: Tamara Oldaker

#### Sample ID: SP 1 @ SURFACE (H001632-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2020	ND	1.97	98.4	2.00	4.98	
Toluene*	<0.050	0.050	06/22/2020	ND	1.99	99.5	2.00	5.56	
Ethylbenzene*	<0.050	0.050	06/22/2020	ND	2.05	102	2.00	6.67	
Total Xylenes*	<0.150	0.150	06/22/2020	ND	5.96	99.3	6.00	6.81	
Total BTEX	<0.300	0.300	06/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	105000	16.0	06/22/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2020	ND	216	108	200	7.38	
DRO >C10-C28*	326	10.0	06/20/2020	ND	220	110	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	06/20/2020	ND					
Surrogate: 1-Chlorooctane	93.5 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	124 %	6 42.2-15	6						

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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:

BTEX 8021B

06/19/2020

Sampling Date:

06/17/2020

Reported:

06/24/2020

Sampling Type:

Soil

Project Name:

MESA VERDE WOLFCAMP #4H

Sampling Condition:

Cool & Intact

Project Number:

(3-30-20)

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

OXY - LEA COUNTY, NM

#### Sample ID: SP 1 @ 1' (H001632-06)

DIEX GOZID	ıııg,	Kg .	Allulyzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2020	ND	1.97	98.4	2.00	4.98	
Toluene*	<0.050	0.050	06/22/2020	ND	1.99	99.5	2.00	5.56	
Ethylbenzene*	<0.050	0.050	06/22/2020	ND	2.05	102	2.00	6.67	
Total Xylenes*	<0.150	0.150	06/22/2020	ND	5.96	99.3	6.00	6.81	
Total BTEX	<0.300	0.300	06/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	06/22/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2020	ND	216	108	200	7.38	
DRO >C10-C28*	<10.0	10.0	06/20/2020	ND	220	110	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	06/20/2020	ND					
Surrogate: 1-Chlorooctane	120 %	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	126 %	% 42.2-15	6						

Analyzed By: MS

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Qualifier



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:

06/19/2020

Sampling Date:

06/17/2020

Reported:

06/24/2020

Sampling Type:

Soil

Project Name:

MESA VERDE WOLFCAMP #4H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

(3-30-20)

OXY - LEA COUNTY, NM

Sample Received By:

Tamara Oldaker

Sample ID: SP 1 @ 2' (H001632-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: GM

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride 144 16.0 06/22/2020 ND 416 104 400 3.77

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Celeg D. Kreene



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

06/19/2020

Sampling Date:

06/17/2020

Reported:

06/24/2020

Sampling Type:

Soil

Project Name:

MESA VERDE WOLFCAMP #4H

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

(3-30-20)

Project Location:

OXY - LEA COUNTY, NM

#### Sample ID: SP 2 @ SURFACE (H001632-08)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2020	ND	1.97	98.4	2.00	4.98	
Toluene*	<0.050	0.050	06/22/2020	ND	1.99	99.5	2.00	5.56	
Ethylbenzene*	<0.050	0.050	06/22/2020	ND	2.05	102	2.00	6.67	
Total Xylenes*	<0.150	0.150	06/22/2020	ND	5.96	99.3	6.00	6.81	
Total BTEX	<0.300	0.300	06/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	89300	16.0	06/22/2020	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2020	ND	216	108	200	7.38	
DRO >C10-C28*	1030	10.0	06/20/2020	ND	220	110	200	6.73	
EXT DRO >C28-C36	67.9	10.0	06/20/2020	ND					
Surrogate: 1-Chlorooctane	107	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	205	% 42.2-15	6						

#### Cardinal Laboratories

\*=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:

BTEX 8021B

06/19/2020

Sampling Date:

06/17/2020

Reported:

06/24/2020

Sampling Type:

Soil

Project Name:

MESA VERDE WOLFCAMP #4H

Sampling Condition:

Cool & Intact

Project Number:

(3-30-20)

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

OXY - LEA COUNTY, NM

#### Sample ID: SP 2 @ 1' (H001632-09)

DIEX GOZID	ıııg,	Kg .	Allulyzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2020	ND	1.97	98.4	2.00	4.98	
Toluene*	<0.050	0.050	06/22/2020	ND	1.99	99.5	2.00	5.56	
Ethylbenzene*	<0.050	0.050	06/22/2020	ND	2.05	102	2.00	6.67	
Total Xylenes*	<0.150	0.150	06/22/2020	ND	5.96	99.3	6.00	6.81	
Total BTEX	<0.300	0.300	06/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/22/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2020	ND	216	108	200	7.38	
DRO >C10-C28*	<10.0	10.0	06/20/2020	ND	220	110	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	06/20/2020	ND					
Surrogate: 1-Chlorooctane	113 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	120 9	42.2-15	6						

Analyzed By: MS

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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:

06/19/2020

Sampling Date:

06/17/2020

Reported:

06/24/2020

Sampling Type:

Soil

Project Name:

MESA VERDE WOLFCAMP #4H

Sampling Condition:

Cool & Intact

Project Number:

( 3-30-20 )

Sample Received By:

Tamara Oldaker

Project Location:

OXY - LEA COUNTY, NM

#### Sample ID: SP 2 @ 2' (H001632-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	06/22/2020	ND	416	104	400	3.77	

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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:

06/19/2020

Sampling Date:

06/17/2020

Reported:

06/24/2020

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

MESA VERDE WOLFCAMP #4H (3-30-20)

Sample Received By:

Tamara Oldaker

Project Location:

OXY - LEA COUNTY, NM

#### Sample ID: SP 3 @ SURFACE (H001632-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2020	ND	2.21	111	2.00	1.62	GC-NC
Toluene*	<0.050	0.050	06/20/2020	ND	1.97	98.3	2.00	3.66	
Ethylbenzene*	<0.050	0.050	06/20/2020	ND	1.95	97.3	2.00	3.44	
Total Xylenes*	<0.150	0.150	06/20/2020	ND	5.61	93.5	6.00	3.83	
Total BTEX	<0.300	0.300	06/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	127000	16.0	06/22/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2020	ND	216	108	200	7.38	
DRO >C10-C28*	221	10.0	06/20/2020	ND	220	110	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	06/20/2020	ND					
Surrogate: 1-Chlorooctane	94.8 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	118 %	6 42.2-15	6						

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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:

RTFY 8021R

06/19/2020

Sampling Date:

06/17/2020

Reported:

06/24/2020

Sampling Type:

Soil

Project Name:

MESA VERDE WOLFCAMP #4H

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

(3-30-20)

ma/ka

Project Location:

OXY - LEA COUNTY, NM

Sample ID: SP 3 @ 1' (H001632-12)

B1EX 8021B	mg/	/ Kg	Analyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2020	ND	2.21	111	2.00	1.62	GC-NC
Toluene*	<0.050	0.050	06/20/2020	ND	1.97	98.3	2.00	3.66	
Ethylbenzene*	<0.050	0.050	06/20/2020	ND	1.95	97.3	2.00	3.44	
Total Xylenes*	<0.150	0.150	06/20/2020	ND	5.61	93.5	6.00	3.83	
Total BTEX	<0.300	0.300	06/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/22/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2020	ND	216	108	200	7.38	
DRO >C10-C28*	<10.0	10.0	06/20/2020	ND	220	110	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	06/20/2020	ND					
Surrogate: 1-Chlorooctane	120 :	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	127	% 42.2-15	6						

Analyzed By: MC

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Qualifier



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:

Chloride

06/19/2020

Sampling Date:

06/17/2020

Reported:

06/24/2020

Sampling Type:

416

104

Soil

400

Project Name:

MESA VERDE WOLFCAMP #4H

16.0

Sampling Condition:

Cool & Intact

Project Number: Project Location:

(3-30-20)

224

OXY - LEA COUNTY, NM

Sample Received By:

Tamara Oldaker

3.77

Sample ID: SP 3 @ 2' (H001632-13)

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD

06/22/2020

ND

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Kreene

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

06/19/2020

Sampling Date:

06/17/2020

Reported:

06/24/2020

Sampling Type:

Soil

Project Name:

MESA VERDE WOLFCAMP #4H

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

(3-30-20)

Project Location:

OXY - LEA COUNTY, NM

#### Sample ID: SP 4 @ SURFACE (H001632-14)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2020	ND	2.21	111	2.00	1.62	GC-NC
Toluene*	<0.050	0.050	06/20/2020	ND	1.97	98.3	2.00	3.66	
Ethylbenzene*	<0.050	0.050	06/20/2020	ND	1.95	97.3	2.00	3.44	
Total Xylenes*	<0.150	0.150	06/20/2020	ND	5.61	93.5	6.00	3.83	
Total BTEX	<0.300	0.300	06/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28000	16.0	06/22/2020	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2020	ND	216	108	200	7.38	
DRO >C10-C28*	890	10.0	06/20/2020	ND	220	110	200	6.73	
EXT DRO >C28-C36	56.9	10.0	06/20/2020	ND					
Surrogate: 1-Chlorooctane	86.1	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	141	% 42.2-15	6						

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Celegy Keene



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

06/19/2020

Sampling Date:

06/17/2020

Reported:

06/24/2020

Sampling Type:

Soil

Project Name:

MESA VERDE WOLFCAMP #4H

Sampling Condition:

Cool & Intact

Project Number:

(3-30-20)

Sample Received By:

Tamara Oldaker

Project Location:

OXY - LEA COUNTY, NM

#### Sample ID: SP 4 @ 1' (H001632-15)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2020	ND	2.21	111	2.00	1.62	GC-NC
Toluene*	<0.050	0.050	06/20/2020	ND	1.97	98.3	2.00	3.66	
Ethylbenzene*	<0.050	0.050	06/20/2020	ND	1.95	97.3	2.00	3.44	
Total Xylenes*	<0.150	0.150	06/20/2020	ND	5.61	93.5	6.00	3.83	
Total BTEX	<0.300	0.300	06/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/22/2020	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2020	ND	216	108	200	7.38	
DRO >C10-C28*	<10.0	10.0	06/20/2020	ND	220	110	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	06/20/2020	ND					
Surrogate: 1-Chlorooctane	113	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	124	% 42.2-15	6						

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Celegy Keene



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

06/19/2020

Sampling Date:

06/17/2020

Reported:

06/24/2020

Sampling Type:

Soil

Project Name:

MESA VERDE WOLFCAMP #4H

Sampling Condition:

Cool & Intact

Project Number:

(3-30-20)

Sample Received By:

Tamara Oldaker

Project Location:

OXY - LEA COUNTY, NM

#### Sample ID: SP 4 @ 2' (H001632-16)

Chloride, SM4500Cl-B	mg/kg			d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/22/2020	ND	416	104	400	3.77	

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Celeg D. Keine



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

RTFY 8021R

06/19/2020

Sampling Date:

06/17/2020

Reported:

06/24/2020

Sampling Type:

Soil

Project Name:

MESA VERDE WOLFCAMP #4H

Sampling Condition:

Cool & Intact

Project Number:

(3-30-20)

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

OXY - LEA COUNTY, NM

#### Sample ID: SP 5 @ SURFACE (H001632-17)

BIEX 8021B	mg	/ kg	Analyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2020	ND	2.21	111	2.00	1.62	GC-NC
Toluene*	<0.050	0.050	06/20/2020	ND	1.97	98.3	2.00	3.66	
Ethylbenzene*	<0.050	0.050	06/20/2020	ND	1.95	97.3	2.00	3.44	
Total Xylenes*	<0.150	0.150	06/20/2020	ND	5.61	93.5	6.00	3.83	
Total BTEX	<0.300	0.300	06/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25600	16.0	06/22/2020	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2020	ND	216	108	200	7.38	
DRO >C10-C28*	964	10.0	06/20/2020	ND	220	110	200	6.73	
EXT DRO >C28-C36	78.2	10.0	06/20/2020	ND					
Surrogate: 1-Chlorooctane	109	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	169	% 42.2-15	6						

Applyzod By: MC

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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:

BTEX 8021B

06/19/2020

Sampling Date:

06/17/2020

Reported:

06/24/2020

Sampling Type:

Soil

Project Name:

MESA VERDE WOLFCAMP #4H

mg/kg

Sampling Condition:

Cool & Intact

Project Number:

(3-30-20)

Sample Received By:

Tamara Oldaker

Project Location:

OXY - LEA COUNTY, NM

#### Sample ID: SP 5 @ 1' (H001632-18)

DIEX GOZID	ıııg,	Kg .	Alluly20	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2020	ND	1.95	97.5	2.00	5.72	
Toluene*	<0.050	0.050	06/22/2020	ND	1.95	97.5	2.00	5.85	
Ethylbenzene*	<0.050	0.050	06/22/2020	ND	1.99	99.5	2.00	5.62	
Total Xylenes*	<0.150	0.150	06/22/2020	ND	5.80	96.6	6.00	5.46	
Total BTEX	<0.300	0.300	06/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/22/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2020	ND	216	108	200	7.38	
DRO >C10-C28*	<10.0	10.0	06/20/2020	ND	220	110	200	6.73	
EXT DRO >C28-C36	<10.0	10.0	06/20/2020	ND					
Surrogate: 1-Chlorooctane	119 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	128 9	% 42.2-15	6						

Analyzed By: MS

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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:

06/19/2020

Sampling Date:

06/17/2020

Reported:

06/24/2020

Sampling Type:

Soil

Project Name:

MESA VERDE WOLFCAMP #4H ( 3-30-20 )

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

OXY - LEA COUNTY, NM

#### Sample ID: SP 5 @ 2' (H001632-19)

Chloride, SM4500Cl-B	mg/kg			d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	06/22/2020	ND	416	104	400	3.77	

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Celeg D. Keine

S-06



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

#### **Notes and Definitions**

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

3-00	matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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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Celeg D. Kreene

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

	BBC International, Inc.									THE S	BI	LL TO					 ANAL	YSIS	RE	QUES	ST		
	: Cliff Brunson								P.0	. #:													
Address: P.O.	Box 805								Cor	npar	ıy:	OXY											
city: Hobbs		State: NM ;	Zip	: 8	8241	1			Attr	n: y	NAD	E											
Phone #: 575-3	397-6388 F	ax #: 575-3	397	7-00	397				Add	iress	s:												
Project #:	P	roject Owner:	0	сy					City	<b>/</b> :													
Project Name:	Mesa Verde Wolfcamp	#4H (3-30-2	(0)						Sta	te:		Zip:											
Project Location	: Lea County, NM								Pho	ne #	1												
Sampler Name:	C25701 F25 7001								Fax	#:													
FOR LAB USE ONLY						MA	TRIX		$\neg$	PRES	ERV	SAMPL	ING					1					
Lab I.D. H001637	Sample I.D	).	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIME	CL	втех	трн ехт	72						
1	North @ Surface		6	1		l				1		6/17/20	9:05 AM	1	V	V							
2	East @ Surface		1	1		1				1		6/17/20	9:14 AM	1	/	V							
3	West @ Surface			Ш		Ш						6/17/20	9:35 AM	1	V	/							
Ч	South @ Surface	7.4										6/17/20	9:51 AM	1	V	V							
5	SP1 @ Surface											6/17/20	10:12 AM	1	V	V							
6	SP1 @ 1'											6/17/20	10:23 AM	1	V	/							
7	SP1 @ 2'											6/17/20	10:41 AM	1									
8	SP2 @ Surface											6/17/20	11:00 AM	1	~	V							
9	SP2 @ 1'											6/17/20	11:18 AM	1	V	1							
lo	SP2 @ 2'		1	V		1	1			,	V	6/17/20	11:38 AM	1									
PLEASE NOTE: Liability a	nd Damages. Cardinal's liability and client's	s exclusive remedy for an	y clai	m ans	ng wheth	er base	ed in co	ontract	or tort	, shall b	e limite	d to the amount p	aid by the client for	r the	(9)								

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affiliates or successors arising out of or related to the performa	ince of services hereunder by Cardinal, regard	ess of whether such claim is base	ed upon any of the above stated rea	asons or otherwise				
Relinguished By:	Date: / / Receive	ed By: _//		Phone Result:	☐ Yes	□ No	Add'l Phone #:	
1 1/2 1	6-19-20	////		Fax Result:	☐ Yes	□ No	Add'I Fax #:	
Xia all Maria	Time: 1: north	all tena		REMARKS:				
- CONNO ON SON II	Date:	1 5	1000	1				
Relinquished By:	Date: 29-7 Receive	ed sy:	///////					
Lunal Harra	7 200	110	6/1/1/1/1/100					
Brulltena	Time:	umara 1	KRACE SKI					
Defivered By: (Circle One)	1115	Sample Condition	CHECKED BY:	7.				
E. 1.	1110	Cool Intact	(Initials)					
Sampler - UPS - Bus - Other:	120 4112	Yes Yes						
	-1.Le #110	☐ No ☐ No	V -					

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

# Page 35 of 3

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476 Company Name: BBC International, Inc. BILL TO ANALYSIS REQUEST Project Manager: Cliff Brunson P.O. #: Address: P.O. Box 805 Company: OXY city: Hobbs State: NM zip: 88241 Attn: WADE Phone #: 575-397-6388 Fax #: 575-397-0397 Address: Project Owner: Oxy Project #: City: Project Name: Mesa Verde Wolfcamp #4H (3-30-20) State: Zip: Project Location: Lea County, NM Phone #: Sampler Name: Simon Rendon Fax #: FOR LAB USE ONLY MATRIX PRESERV. SAMPLING (G)RAB OR (C)OMP GROUNDWATER WASTEWATER SOIL OTHER: ACID/BASE: ICE / COOL Sample I.D. Lab I.D. EXT SLUDGE BTEX TPH HOO1632 DATE TIME SP3 @ Surface 6/17/20 11:54 AM SP3 @ 1' 6/17/20 12:42 PM SP3 @ 2' 6/17/20 12:57 PM SP4 @ Surface 6/17/20 1:12 PM SP4 @ 1' 6/17/20 1:29 PM SP4 @ 2' 6/17/20 1:41 PM SP5 @ Surface 6/17/20 1:55 PM SP5 @ 1' 6/17/20 2:12 PM SP5 @ 2' 6/17/20 2:26 PM

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Relinquished By:	Date; Rec	ceiyed By:		Phone Result:	☐ Yes	□ No	Add'l Phone #:
	Time: 4=4	bond Home.		Fax Result: REMARKS:	☐ Yes	□ No	Add'I Fax #:
To Allera a Company le	THOAM I	July Levus		KEWIAKKS.			
Relinquished By:	Date: 10 - Rec	ceived By:	Mil				
Land & David	6-19-00	1	1/1/1/2//	7			
ASTOCK TONK	Time:	Jamara 1	Whate Por				
Delivered By: (Circle One)	1115	Sample Condition	CHECKED BY:	W.			
E 270 W		Cool Intact	(Initials)				
Sampler - UPS - Bus - Other:	1.20 #1	Ø PYes PYes □ No □ No	AD.				
		_ NO _ NO					

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476