

## Closure & Deferral Report

### NRM2008458177

#### Site Description

Site Name:	MESA VERDE 18 CTB
Company:	OXY
Legal Description:	U/L: P, SECTION 18, T24S, R32E
County:	LEA COUNTY , NM
GPS Coordinates:	N32.2117 W-103.70865

#### Release Data

Date of Release:	2/19/2020
Type of Release:	PRODUCED WATER
Source of Release:	DUMP VALVE ON DISCHARGE LINE CAME OFF THE WATER TRANSFER
Volume of Release:	18 BBLS PRODUCED WATER
Volume Recovered:	15 BBLS PRODUCED WATER

#### Remediation Specifications

Remediation Parameters	<p>OXY excavated the spill area as depicted on the following site diagram. The entire leak area was excavated to a depth of 6 inches.</p> <p>Oxy requests after the initial surface removal that the leak area be deferred until the end of life of the facility due to the amount of production equipment in the leak area. Pictures of the leak and equipment are included in this report.</p>	
Remediation Activities:	2/24/20, 3/15/21 & 3/24/21	

Plan Sent to OCD:	7/28/2020	FROM CLIFF TO BLM NM AND WADE
OCD Approval of Plan:	10/22/2020	FROM @STATE.NM.US TO WADE AND CLIFF
Plan Sent to BLM:	3/19/2020	FROM CLIFF TO SPILL@BLM AND WADE
BLM Approval of Plan:	1/18/2021	FROM JAMOS@BLM.GOV TO WADE AND CLIFF

#### Supporting Documentation

C 141 PAGE 6	SIGNED PAGE 6 C141	
SITE DIAGRAM	GOOGLE EARTH MAP WITH CONFIRMATION SAMPLES	
PICTURES	CLOSURE PICTURES	
LAB SUMMARY	DEFERRALSAMPLES	
LAB ANALYSIS	DEFERRAL SAMPLES	
GW-USGS INFO	1/15/2020	

#### Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

4/5/2021

Form C-141

State of New Mexico  
Oil Conservation Division

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Incident ID	nRM2008458177
District RP	
Facility ID	
Application ID	

## Remediation Plan

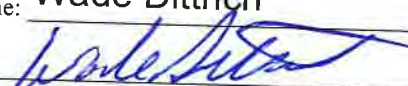
**Remediation Plan Checklist:** Each of the following items must be included in the plan.

- ☐ 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: 4-5-22  
email: wade\_dittrich@oxy.com Telephone: (575) 390-2828

### OCD Only

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

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

Signature:  Date: 05/18/2022

Form C-141

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State of New Mexico  
Oil Conservation Division

Incident ID	NRM2008458177
District RP	
Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental CoordinatorSignature:  Date: 4-5-22email: wade\_dittrich@oxy.com Telephone: (575) 390-2828**OCD Only**

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

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

**From:** [Nobui, Jennifer, EMNRD](#)  
**To:** [Dittrich, John W](#)  
**Cc:** [Billings, Bradford, EMNRD](#); [Cliff Brunson](#)  
**Subject:** RE: [EXTERNAL] Mesa Verde CTB  
**Date:** Wednesday, May 18, 2022 1:45:32 PM

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This will work, please add the figure with the battery in the background with the boring locations into the report and resubmit. Let me know when you do upload so I can go into the system and approve your deferral request.

Thanks,  
Jennifer Nobui

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**From:** Dittrich, John W <Wade\_Dittrich@oxy.com>  
**Sent:** Wednesday, May 18, 2022 12:37 PM  
**To:** Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>  
**Subject:** [EXTERNAL] Mesa Verde CTB

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Here are 2 more.

Wade Dittrich  
Environmental Specialist  
Oxy Permian-Resources and EOR-New Mexico  
575-390-2828 cell  
575-397-8214 office  
[Wade\\_Dittrich@Oxy.com](mailto:Wade_Dittrich@Oxy.com)

**From:** [Dittrich, John W](#)  
**To:** [Cliff Brunson](#); [kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)  
**Cc:** [jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com); [kathys@bbcinternational.com](mailto:kathys@bbcinternational.com)  
**Subject:** FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 96402  
**Date:** Tuesday, May 17, 2022 10:24:25 AM

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**From:** OCDOnline@state.nm.us <OCDOnline@state.nm.us>  
**Sent:** Tuesday, May 17, 2022 10:19 AM  
**To:** Dittrich, John W <Wade\_Dittrich@oxy.com>  
**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 96402

**WARNING - This message is from an EXTERNAL SENDER - be CAUTIOUS, particularly with links and attachments.**

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To whom it may concern (c/o Wade Dittrich for OXY USA INC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nRM2008458177, for the following reasons:

- **Deferral Request Denied. OCD requests a site plan that corresponds to current conditions at the site (battery) to establish visually where impacts are located within battery equipment. In addition, the depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old. An accurate depth to groundwater measurement is needed to justify deferral request. Please resubmit revised Remediation Plan/Deferral Request to OCD by June 17, 2022.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 96402.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,  
Jennifer Nobui  
Environmental Specialist-Advanced  
505-476-3441  
[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**From:** [Dittrich, John W](#)  
**To:** [Cliff Brunson](#); "[Ken Swinney](#)"; [jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com); [renee@bbcinternational.com](mailto:renee@bbcinternational.com)  
**Subject:** FW: NRM2008458177 MESA VERDE 18 CTB @ P-18-24S-32E ON OE  
**Date:** Thursday, October 22, 2020 2:36:01 PM  
**Attachments:** [image003.png](#)  
(C-141 Remediation Plan) [NRM2008458177.pdf](#)

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**From:** Eads, Cristina, EMNRD <[Cristina.Eads@state.nm.us](mailto:Cristina.Eads@state.nm.us)>  
**Sent:** Thursday, October 22, 2020 11:59 AM  
**To:** Dittrich, John W <[Wade\\_Dittrich@oxy.com](mailto:Wade_Dittrich@oxy.com)>  
**Cc:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>; CFO\_Spill, BLM\_NM <[blm\\_nm\\_cfo\\_spill@blm.gov](mailto:blm_nm_cfo_spill@blm.gov)>  
**Subject:** [EXTERNAL] NRM2008458177 MESA VERDE 18 CTB @ P-18-24S-32E ON OE

**WARNING - This message is from an EXTERNAL SENDER - be CAUTIOUS, particularly with links and attachments.**

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**NRM2008458177 MESA VERDE 18 CTB @ P-18-24S-32E ON OE**

Wade,

The OCD has approved the Site Characterization and Remediation Plan for incident# NRM2008458177 with the following conditions:

- OXY will collect 5-point composite samples representing an area of no greater than 200 square feet after the surface scrape. These findings will be presented with the C-141 deferral request.

The signed C-141 can be found in the online image data base under the incident #. Please let me know if you have any questions.

Thanks,

**Cristina Eads**

*Environmental Bureau*

*EMNRD – Oil Conservation Division*

5200 Oakland Avenue NE, Suite 100

Albuquerque, New Mexico 87113

505.670-5601

email: [Cristina.Eads@state.nm.us](mailto:Cristina.Eads@state.nm.us)



**OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and**

**From:** [Cliff Brunson](#)  
**To:** ["Ken Swinney"](#); ["Jennifer Gilkey"](#); [Renee Jimenez](#)  
**Subject:** FW: Delineation/Remediation Workplan, Approval (1/17/21)  
**Date:** Monday, January 18, 2021 11:27:09 AM

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## BLM approvals

Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
Mailing Address:  
P. O. Box 805  
Hobbs, NM 88241-0805 USA  
Shipping Address:  
1324 W. Marland St.  
Hobbs, NM 88240 USA  
Phone: (575) 397-6388  
Fax: (575) 397-0397  
E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)



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**From:** Amos, James A <jamos@blm.gov>  
**Sent:** Sunday, January 17, 2021 1:47 PM  
**To:** Cliff P. Brunson <cbrunson@bbcinternational.com>; 'Dittrich, John W' <Wade\_Dittrich@oxy.com>  
**Subject:** Delineation/Remediation Workplan, Approval (1/17/21)

Cliff and Wade,

Consider this BLM's approval for the following workplans/deferral:

Mesa Verde Wolfcamp 4H (3/30/20), NRM2012539093  
Mesa Verde 18 CTB (1/10/20), NVV2003.550444  
Mesa Verde 18 CTB (2/19/20), RM2008458177, (deferred)  
Goodnight 27-1 CTB (5/16/20), NRM2015546715




If any questions, please get back to me. Thanks

James A. Amos  
Bureau of Land Management

## Mesa Verde 18 CTB

LEAK DATE 2-19-20  
ID#nRM2008458177  
LEA COUNTY, NM

### Legend


-  BOTTOM CONFIRMATION SAMPLE POINTS
-  LEAK AREA
-  SIDEWALL CONFIRMATION SAMPLE POINTS

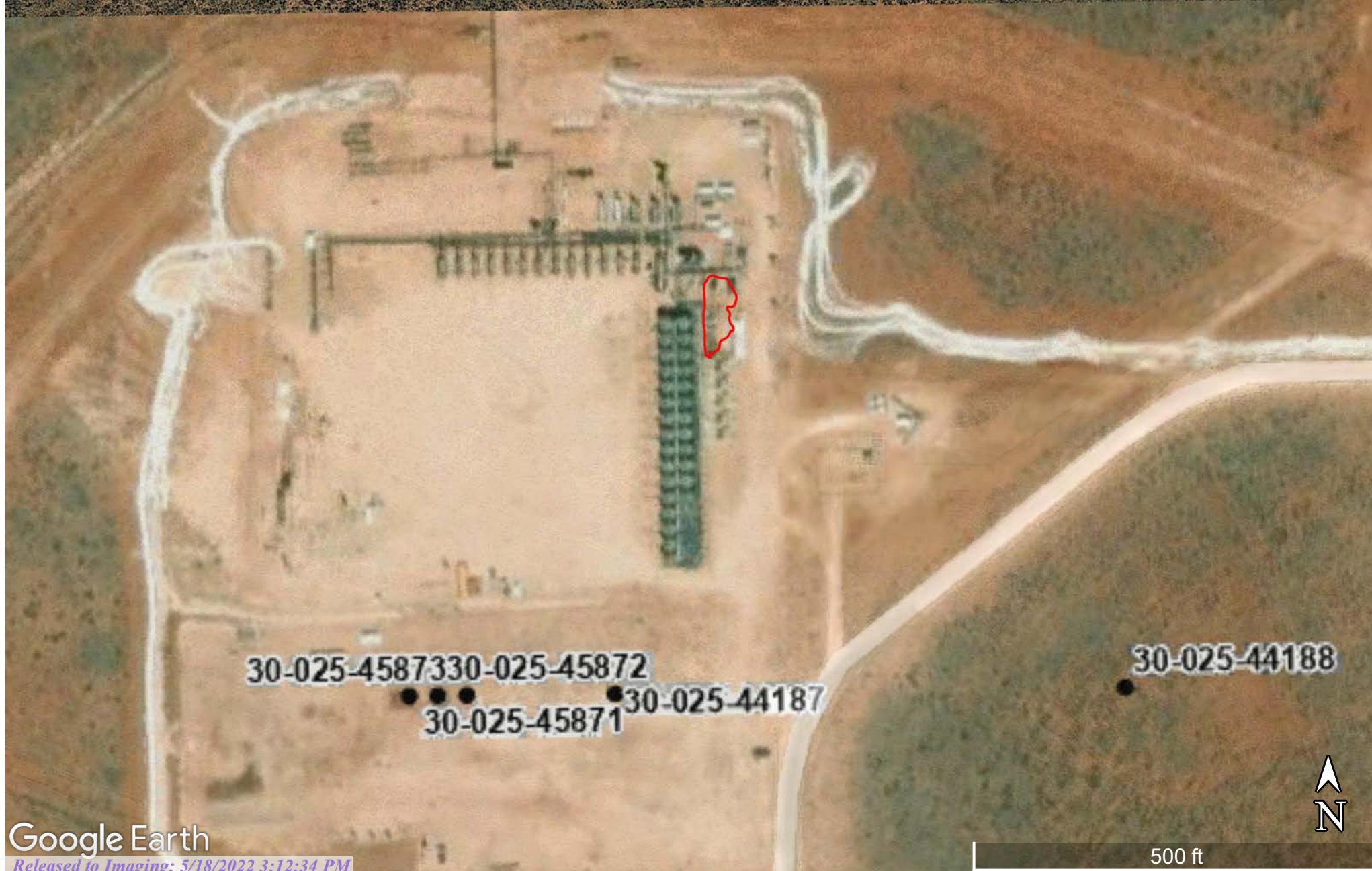


## Mesa Verde 18 CTB

LEAK DATE 2-19-20  
ID#nRM2008458177  
LEA COUNTY, NM

### Legend

 Leak Area



Google Earth

Released to Imaging: 5/18/2022 3:12:34 PM

500 ft

## MESA VERDE 18 CTB 2/19/20

SW1	N32.212692	W-103.708356
SW2	N32.212568	W-103.708299
SW3	N32.212434	W-103.708367
SW4	N32.212558	W-103.708406
BS1@ 6"	N32.212457	W-103.708361
BS2@ 6"	N32.212481	W-103.708383
BS3@ 6"	N32.212514	W-103.708387
BS4@ 6"	N32.212493	W-103.708333
BS5@ 6"	N32.212531	W-103.708328
BS6@ 6"	N32.212549	W-103.708388
BS7@ 6"	N32.212586	W-103.708384
BS8@ 6"	N32.212568	W-103.708332
BS9@ 6"	N32.212603	W-103.708317
BS10@ 6"	N32.212616	W-103.708381
BS11@ 6"	N32.212647	W-103.708383
BS12@ 6"	N32.212630	W-103.708308
BS13@ 6"	N32.212659	W-103.708319
BS14@ 6"	N32.212678	W-103.708380

		Sample ID	BS 1 @ 6"	BS 2 @ 6"	BS 3 @ 6"	BS 4 @ 6"	BS 5 @ 6"	BS 6 @ 6"	BS 7 @ 6"	BS 8 @ 6"	BS 9 @ 6"	BS 10 @ 6"
Analyte	Method	Date	3/29/22	3/29/22	3/29/22	3/29/22	3/29/22	3/29/22	3/29/22	3/29/22	3/29/22	3/29/22
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		368	336	320	336	560	320	480	320	400	688
GRO	TPH 8015M		10.3	10.9	18.9	16.1	12.1	24.2	14.5	12.8	17.0	23.7
DRO	TPH 8015M		4180	4190	4390	4830	4000	6010	3490	2760	3540	6100
EXT DRO	TPH 8015M		986	981	1010	1110	942	1330	771	662	816	1250

		Sample ID	BS 11 @ 6"	BS 12 @ 6"	BS 13 @ 6"	BS 14 @ 6"
Analyte	Method	Date	3/29/22	3/29/22	3/29/22	3/29/22
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		592	400	400	368
GRO	TPH 8015M		19.0	25.2	13.4	18.2
DRO	TPH 8015M		5040	4580	3820	5360
EXT DRO	TPH 8015M		1090	989	842	1140

		Sample ID	SW 1	SW 2	SW 3	SW 4
Analyte	Method	Date	3/29/22	3/29/22	3/29/22	3/29/22
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		400	432	624	464
GRO	TPH 8015M		18.6	25.0	13.1	19.8
DRO	TPH 8015M		4850	6850	5350	3930
EXT DRO	TPH 8015M		1120	1520	1200	907



MESA VERDE 18 CTB  
2/19/20





MESA VERDE 18 CTB

2/19/20





MESA VERDE 18 CTB  
2/19/20





MESA VERDE 18 CTB  
2/19/20





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

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April 04, 2022

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MESA VERDE 18 CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/30/22 12:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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:	03/30/2022	Sampling Date:	03/29/2022
Reported:	04/04/2022	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 2-19-20 )	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SW - 1 (H221278-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2022	ND	2.08	104	2.00	0.838	
Toluene*	<0.050	0.050	04/01/2022	ND	2.09	105	2.00	1.00	
Ethylbenzene*	<0.050	0.050	04/01/2022	ND	2.13	107	2.00	0.378	
Total Xylenes*	<0.150	0.150	04/01/2022	ND	6.38	106	6.00	0.189	
Total BTX	<0.300	0.300	04/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/04/2022	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*	18.6	10.0	04/01/2022	ND	252	126	200	14.3		
DRO >C10-C28*	4850	10.0	04/01/2022	ND	224	112	200	2.29		
EXT DRO >C28-C36	1120	10.0	04/01/2022	ND						

Surrogate: 1-Chlorooctane 90.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 156 % 59.5-142

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:	03/30/2022	Sampling Date:	03/29/2022
Reported:	04/04/2022	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 2-19-20 )	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SW - 2 (H221278-02)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/01/2022	ND	2.08	104	2.00	0.838		
Toluene*	<0.050	0.050	04/01/2022	ND	2.09	105	2.00	1.00		
Ethylbenzene*	<0.050	0.050	04/01/2022	ND	2.13	107	2.00	0.378		
Total Xylenes*	<0.150	0.150	04/01/2022	ND	6.38	106	6.00	0.189	GC-NC	
Total BTEX	<0.300	0.300	04/01/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	04/04/2022	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*	25.0	10.0	04/01/2022	ND	252	126	200	14.3	
DRO >C10-C28*	6850	10.0	04/01/2022	ND	224	112	200	2.29	
EXT DRO >C28-C36	1520	10.0	04/01/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 234 % 59.5-142

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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:	03/30/2022	Sampling Date:	03/29/2022
Reported:	04/04/2022	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 2-19-20 )	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SW - 3 (H221278-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/01/2022	ND	2.08	104	2.00	0.838		
Toluene*	<0.050	0.050	04/01/2022	ND	2.09	105	2.00	1.00		
Ethylbenzene*	<0.050	0.050	04/01/2022	ND	2.13	107	2.00	0.378		
Total Xylenes*	<0.150	0.150	04/01/2022	ND	6.38	106	6.00	0.189	GC-NC	
Total BTEX	<0.300	0.300	04/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	04/04/2022	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*	13.1	10.0	04/01/2022	ND	252	126	200	14.3	
DRO >C10-C28*	5350	10.0	04/01/2022	ND	224	112	200	2.29	
EXT DRO >C28-C36	1200	10.0	04/01/2022	ND					

Surrogate: 1-Chlorooctane 88.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 170 % 59.5-142

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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:	03/30/2022	Sampling Date:	03/29/2022
Reported:	04/04/2022	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 2-19-20 )	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SW - 4 (H221278-04)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/01/2022	ND	2.08	104	2.00	0.838		
Toluene*	<0.050	0.050	04/01/2022	ND	2.09	105	2.00	1.00		
Ethylbenzene*	<0.050	0.050	04/01/2022	ND	2.13	107	2.00	0.378		
Total Xylenes*	<0.150	0.150	04/01/2022	ND	6.38	106	6.00	0.189	GC-NC	
Total BTX	<0.300	0.300	04/01/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	04/04/2022	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*	19.8	10.0	04/01/2022	ND	252	126	200	14.3	
DRO >C10-C28*	3930	10.0	04/01/2022	ND	224	112	200	2.29	
EXT DRO >C28-C36	907	10.0	04/01/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 148 % 59.5-142

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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:	03/30/2022	Sampling Date:	03/29/2022
Reported:	04/04/2022	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 2-19-20 )	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: BS - 1 (H221278-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2022	ND	2.10	105	2.00	2.04		
Toluene*	<0.050	0.050	04/02/2022	ND	2.12	106	2.00	4.16		
Ethylbenzene*	<0.050	0.050	04/02/2022	ND	2.09	104	2.00	1.74		
Total Xylenes*	<0.150	0.150	04/02/2022	ND	6.15	102	6.00	1.19	GC-NC	
Total BTEX	<0.300	0.300	04/02/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	04/04/2022	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*	10.3	10.0	04/01/2022	ND	252	126	200	14.3	
DRO >C10-C28*	4180	10.0	04/01/2022	ND	224	112	200	2.29	
EXT DRO >C28-C36	986	10.0	04/01/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 143 % 59.5-142

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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:	03/30/2022	Sampling Date:	03/29/2022
Reported:	04/04/2022	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 2-19-20 )	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: BS - 2 (H221278-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2022	ND	2.10	105	2.00	2.04		
Toluene*	<0.050	0.050	04/02/2022	ND	2.12	106	2.00	4.16		
Ethylbenzene*	<0.050	0.050	04/02/2022	ND	2.09	104	2.00	1.74		
Total Xylenes*	<0.150	0.150	04/02/2022	ND	6.15	102	6.00	1.19	GC-NC	
Total BTEX	<0.300	0.300	04/02/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/04/2022	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*	10.9	10.0	04/01/2022	ND	252	126	200	14.3	
DRO >C10-C28*	4190	10.0	04/01/2022	ND	224	112	200	2.29	
EXT DRO >C28-C36	981	10.0	04/01/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 147 % 59.5-142

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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:	03/30/2022	Sampling Date:	03/29/2022
Reported:	04/04/2022	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 2-19-20 )	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: BS - 3 (H221278-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2022	ND	2.10	105	2.00	2.04		
Toluene*	<0.050	0.050	04/02/2022	ND	2.12	106	2.00	4.16		
Ethylbenzene*	<0.050	0.050	04/02/2022	ND	2.09	104	2.00	1.74		
Total Xylenes*	<0.150	0.150	04/02/2022	ND	6.15	102	6.00	1.19	GC-NC	
Total BTEX	<0.300	0.300	04/02/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	04/04/2022	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*	18.9	10.0	04/01/2022	ND	252	126	200	14.3	
DRO >C10-C28*	4390	10.0	04/01/2022	ND	224	112	200	2.29	
EXT DRO >C28-C36	1010	10.0	04/01/2022	ND					

Surrogate: 1-Chlorooctane 97.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 158 % 59.5-142

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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: 03/30/2022  
 Reported: 04/04/2022  
 Project Name: MESA VERDE 18 CTB  
 Project Number: ( 2-19-20 )  
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 03/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BS - 4 (H221278-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2022	ND	2.10	105	2.00	2.04		
Toluene*	<0.050	0.050	04/02/2022	ND	2.12	106	2.00	4.16		
Ethylbenzene*	<0.050	0.050	04/02/2022	ND	2.09	104	2.00	1.74		
Total Xylenes*	<0.150	0.150	04/02/2022	ND	6.15	102	6.00	1.19	GC-NC	
Total BTEX	<0.300	0.300	04/02/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/04/2022	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*	16.1	10.0	04/01/2022	ND	252	126	200	14.3	
DRO >C10-C28*	4830	10.0	04/01/2022	ND	224	112	200	2.29	
EXT DRO >C28-C36	1110	10.0	04/01/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 157 % 59.5-142

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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:	03/30/2022	Sampling Date:	03/29/2022
Reported:	04/04/2022	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 2-19-20 )	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: BS - 5 (H221278-09)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2022	ND	2.10	105	2.00	2.04	
Toluene*	<0.050	0.050	04/02/2022	ND	2.12	106	2.00	4.16	
Ethylbenzene*	<0.050	0.050	04/02/2022	ND	2.09	104	2.00	1.74	
Total Xylenes*	<0.150	0.150	04/02/2022	ND	6.15	102	6.00	1.19	GC-NC
Total BTEX	<0.300	0.300	04/02/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	04/04/2022	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*	12.1	10.0	04/01/2022	ND	252	126	200	14.3	
DRO >C10-C28*	4000	10.0	04/01/2022	ND	224	112	200	2.29	
EXT DRO >C28-C36	942	10.0	04/01/2022	ND					

Surrogate: 1-Chlorooctane 86.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 141 % 59.5-142

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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: 03/30/2022  
 Reported: 04/04/2022  
 Project Name: MESA VERDE 18 CTB  
 Project Number: ( 2-19-20 )  
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 03/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BS - 6 (H221278-10)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2022	ND	2.10	105	2.00	2.04		
Toluene*	<0.050	0.050	04/02/2022	ND	2.12	106	2.00	4.16		
Ethylbenzene*	<0.050	0.050	04/02/2022	ND	2.09	104	2.00	1.74		
Total Xylenes*	<0.150	0.150	04/02/2022	ND	6.15	102	6.00	1.19	GC-NC	
Total BTX	<0.300	0.300	04/02/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	04/04/2022	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*	24.2	10.0	04/01/2022	ND	252	126	200	14.3	
DRO >C10-C28*	6010	10.0	04/01/2022	ND	224	112	200	2.29	
EXT DRO >C28-C36	1330	10.0	04/01/2022	ND					

Surrogate: 1-Chlorooctane 81.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 189 % 59.5-142

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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: 03/30/2022  
 Reported: 04/04/2022  
 Project Name: MESA VERDE 18 CTB  
 Project Number: ( 2-19-20 )  
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 03/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BS - 7 (H221278-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2022	ND	2.10	105	2.00	2.04		
Toluene*	<0.050	0.050	04/02/2022	ND	2.12	106	2.00	4.16		
Ethylbenzene*	<0.050	0.050	04/02/2022	ND	2.09	104	2.00	1.74		
Total Xylenes*	<0.150	0.150	04/02/2022	ND	6.15	102	6.00	1.19	GC-NC	
Total BTEx	<0.300	0.300	04/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	04/04/2022	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*	14.5	10.0	04/01/2022	ND	189	94.4	200	3.29	
DRO >C10-C28*	3490	10.0	04/01/2022	ND	217	108	200	3.05	QM-07, QR-03
EXT DRO >C28-C36	771	10.0	04/01/2022	ND					

Surrogate: 1-Chlorooctane 80.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 203 % 59.5-142

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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:	03/30/2022	Sampling Date:	03/29/2022
Reported:	04/04/2022	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 2-19-20 )	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: BS - 8 (H221278-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2022	ND	2.10	105	2.00	2.04		
Toluene*	<0.050	0.050	04/02/2022	ND	2.12	106	2.00	4.16		
Ethylbenzene*	<0.050	0.050	04/02/2022	ND	2.09	104	2.00	1.74		
Total Xylenes*	<0.150	0.150	04/02/2022	ND	6.15	102	6.00	1.19	GC-NC	
Total BTEX	<0.300	0.300	04/02/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	04/04/2022	ND	432	108	400	3.77	QM-07	

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*	12.8	10.0	04/01/2022	ND	189	94.4	200	3.29		
DRO >C10-C28*	2760	10.0	04/01/2022	ND	217	108	200	3.05		
EXT DRO >C28-C36	662	10.0	04/01/2022	ND						

Surrogate: 1-Chlorooctane 79.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 193 % 59.5-142

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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:	03/30/2022	Sampling Date:	03/29/2022
Reported:	04/04/2022	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 2-19-20 )	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: BS - 9 (H221278-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2022	ND	2.10	105	2.00	2.04		
Toluene*	<0.050	0.050	04/02/2022	ND	2.12	106	2.00	4.16		
Ethylbenzene*	<0.050	0.050	04/02/2022	ND	2.09	104	2.00	1.74		
Total Xylenes*	<0.150	0.150	04/02/2022	ND	6.15	102	6.00	1.19	GC-NC	
Total BTEx	<0.300	0.300	04/02/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	04/04/2022	ND	432	108	400	3.77		

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*	17.0	10.0	04/01/2022	ND	189	94.4	200	3.29	
DRO >C10-C28*	3540	10.0	04/01/2022	ND	217	108	200	3.05	
EXT DRO >C28-C36	816	10.0	04/01/2022	ND					

Surrogate: 1-Chlorooctane 85.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 214 % 59.5-142

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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: 03/30/2022  
 Reported: 04/04/2022  
 Project Name: MESA VERDE 18 CTB  
 Project Number: ( 2-19-20 )  
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 03/29/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BS - 10 (H221278-14)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2022	ND	2.10	105	2.00	2.04		
Toluene*	<0.050	0.050	04/02/2022	ND	2.12	106	2.00	4.16		
Ethylbenzene*	<0.050	0.050	04/02/2022	ND	2.09	104	2.00	1.74		
Total Xylenes*	<0.150	0.150	04/02/2022	ND	6.15	102	6.00	1.19	GC-NC	
Total BTX	<0.300	0.300	04/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	04/04/2022	ND	432	108	400	3.77		

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*	23.7	10.0	04/01/2022	ND	189	94.4	200	3.29	
DRO >C10-C28*	6100	10.0	04/01/2022	ND	217	108	200	3.05	
EXT DRO >C28-C36	1250	10.0	04/01/2022	ND					

Surrogate: 1-Chlorooctane 96.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 332 % 59.5-142

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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:	03/30/2022	Sampling Date:	03/29/2022
Reported:	04/04/2022	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 2-19-20 )	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: BS - 11 (H221278-15)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2022	ND	2.10	105	2.00	2.04		
Toluene*	<0.050	0.050	04/02/2022	ND	2.12	106	2.00	4.16		
Ethylbenzene*	<0.050	0.050	04/02/2022	ND	2.09	104	2.00	1.74		
Total Xylenes*	<0.150	0.150	04/02/2022	ND	6.15	102	6.00	1.19	GC-NC	
Total BTX	<0.300	0.300	04/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	04/04/2022	ND	432	108	400	3.77		

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*	19.0	10.0	04/01/2022	ND	189	94.4	200	3.29		
DRO >C10-C28*	5040	10.0	04/01/2022	ND	217	108	200	3.05		
EXT DRO >C28-C36	1090	10.0	04/01/2022	ND						

Surrogate: 1-Chlorooctane 94.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 272 % 59.5-142

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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:	03/30/2022	Sampling Date:	03/29/2022
Reported:	04/04/2022	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 2-19-20 )	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: BS - 12 (H221278-16)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2022	ND	2.10	105	2.00	2.04		
Toluene*	<0.050	0.050	04/02/2022	ND	2.12	106	2.00	4.16		
Ethylbenzene*	<0.050	0.050	04/02/2022	ND	2.09	104	2.00	1.74		
Total Xylenes*	<0.150	0.150	04/02/2022	ND	6.15	102	6.00	1.19	GC-NC	
Total BTX	<0.300	0.300	04/02/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	04/04/2022	ND	432	108	400	3.77		

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*	25.2	10.0	04/01/2022	ND	189	94.4	200	3.29	
DRO >C10-C28*	4580	10.0	04/01/2022	ND	217	108	200	3.05	
EXT DRO >C28-C36	989	10.0	04/01/2022	ND					

Surrogate: 1-Chlorooctane 80.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 242 % 59.5-142

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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:	03/30/2022	Sampling Date:	03/29/2022
Reported:	04/04/2022	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 2-19-20 )	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: BS - 13 (H221278-17)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2022	ND	2.10	105	2.00	2.04	
Toluene*	<0.050	0.050	04/02/2022	ND	2.12	106	2.00	4.16	
Ethylbenzene*	<0.050	0.050	04/02/2022	ND	2.09	104	2.00	1.74	
Total Xylenes*	<0.150	0.150	04/02/2022	ND	6.15	102	6.00	1.19	GC-NC
Total BTEX	<0.300	0.300	04/02/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	04/04/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	13.4	10.0	04/01/2022	ND	189	94.4	200	3.29	
DRO >C10-C28*	3820	10.0	04/01/2022	ND	217	108	200	3.05	
EXT DRO >C28-C36	842	10.0	04/01/2022	ND					

Surrogate: 1-Chlorooctane 78.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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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:	03/30/2022	Sampling Date:	03/29/2022
Reported:	04/04/2022	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 2-19-20 )	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: BS - 14 (H221278-18)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2022	ND	2.10	105	2.00	2.04	
Toluene*	<0.050	0.050	04/02/2022	ND	2.12	106	2.00	4.16	
Ethylbenzene*	<0.050	0.050	04/02/2022	ND	2.09	104	2.00	1.74	
Total Xylenes*	<0.150	0.150	04/02/2022	ND	6.15	102	6.00	1.19	GC-NC
Total BTEX	<0.300	0.300	04/02/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	04/04/2022	ND	432	108	400	3.77	

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*	18.2	10.0	04/01/2022	ND	189	94.4	200	3.29	
DRO >C10-C28*	5360	10.0	04/01/2022	ND	217	108	200	3.05	
EXT DRO >C28-C36	1140	10.0	04/01/2022	ND					

Surrogate: 1-Chlorooctane 81.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 173 % 59.5-142

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### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



## ORDINAL LABORATORIES

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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



**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: NM Zip: 88241																																			
Project #:				Project Owner: Oxy																																			
Project Name: Mesa Verde 18 CTB (2-19-20)				State: Zip:																																			
Project Location: EDDY COUNTY, NM				Phone #:																																			
Fax #:																																							
Sampler Name: Roger Hernandez				PRESERV																																			
FOR LAB USE ONLY				SAMPLING																																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV				SAMPLING				CL				BTEX				TPH EXT											
H2A1278		BS-7		G		1										3/29/22				11:10 AM				✓				✓				✓							
11		BS-8														3/29/22				11:23 AM				✓				✓				✓							
12		BS-9														3/29/22				11:30 AM				✓				✓				✓							
13		BS-10														3/29/22				11:41 AM				✓				✓				✓							
14		BS-11														3/29/22				11:53 AM				✓				✓				✓							
15		BS-12														3/29/22				12:08 PM				✓				✓				✓							
16		BS-13														3/29/22				12:21 PM				✓				✓				✓							
17		BS-14														3/29/22				12:33 PM				✓				✓				✓							
18																																							

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Relinquished By: <i>Roger Hernandez</i>	Date: 3/29/22	Time: 3:00pm	Received By: <i>Allice Stener</i>	Date: 3/29/22	Time: 3:30pm	
Relinquished By:			Received By:			
Delivered By: <i>Allice Stener</i>	(Circle One) -496	GC-0.52	Sample Condition	Intact	Yes	Checked By: <i>Allice Stener</i>
Sampler - UPS - Bus - Other:	-5.42	#113	Yes	No	No	

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



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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

New Mexico

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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 321312103395601

Minimum number of levels = 1  
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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

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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			D33.64			2			U	
1955-06-03			D31.90			2	R		U	
1976-01-22			D31.80			2			U	
1981-03-20			D19.93			2			U	
1986-03-18			D37.16			2			U	
1991-05-29			D39.64			2			U	
1996-03-14			D38.20			2			S	
2001-02-27			D36.58			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
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level

Section	Code	Description
Status	R	Site had been pumped recently.
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

---

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**Title: Groundwater for New Mexico: Water Levels**

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



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

Page Last Modified: 2020-01-15 18:36:30 EST

0.25 0.22 nadww01

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

CONDITIONS  
  
Action 108399

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 108399
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Deferral Request Approved.	5/18/2022