

## Closure Report

### Incident ID:NRM2023462122

#### Site Description

Site Name:	Copperhead 18-1 SWD
Company:	Oxy, Permian
Legal Description:	U/L P, Section 18, T24S, R33E
County:	Lea County, NM
GPS Coordinates:	N 32.21828 W103.61021

#### Release Data

Date of Release:	8/10/2020	
Type of Release:	Crude Oil / Produced water	
Source of Release:	PSV POP OFF ON HEADER	
Volume of Release:	15 bbls	35 bbls
Volume Recovered:	7 bbls	13 bbls

#### Remediation Specifications

Remediation Parameters:	Risk based remediation: In the area of sample points SP1 through SP5, SP7 through SP11 excavate to a depth of 1'. In the area of SP2 and SP6 excavate to a depth of 2'. Collect botto and sidewall confirmation. Sample every 200 ft. Backfill with clean soil.
Remediation Activities:	4-1-21 THRU 5-18-21

Plan Sent to OCD:		
OCD Approval of Plan:		
Plan Sent to BLM:		
BLM Approval of Plan:		

#### Supporting Documentation

Initial C-141	signed and included	
C-141, page 6	signed and included	
Site Diagram	Google Earth map with excavation depths & confirmation sample points	
Pictures	Remediation photos	
Lab Summary/Analysis	Confirmation lab summary/analysis report for 9/16/20 & 9/17/21, 4/12/21	
Depth to Groundwater	USGS Info	

#### 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.

5/24/2021

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Incident ID	NRM2023462122
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	OXY USA INC.	OGRID	16696
Contact Name	WADE DITTRICH	Contact Telephone	(575) 390-2828
Contact email	WADE_DITTRICH@OXY.COM	Incident # (assigned by OCD)	
Contact mailing address	PO BOX 4294; HOUSTON, TX 77210		

### Location of Release Source

Latitude N 32.21867 Longitude W 103.60933  
*(NAD 83 in decimal degrees to 5 decimal places)*

Site Name	COPPERHEAD 18-1 SWD	Site Type	
Date Release Discovered	8-10-2020	API# (if applicable)	30-025-36489

Unit Letter	Section	Township	Range	County
P	18	24S	33E	LEA COUNTY, NM

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 15 BBLS	Volume Recovered (bbls) 7 BBLS
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 35 BBLS	Volume Recovered (bbls) 13 BBLS
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

PSV POP OFF ON HEADER

Form C-141

State of New Mexico  
Oil Conservation Division

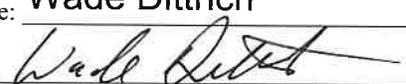
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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? <b>THE RELEASE IS GREATER THAN 25 BBLs.</b>
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? <b>YES, BY WADE DITTRICH, TO MIKE BRATCHER, VICTORIA VENEGAS, ROBERT HAMLET, &amp; JIM GRISWOLD ON 8/11/20 VIA EMAIL</b>	

### Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:  
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
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: <u>Wade Dittrich</u> Title: <u>Environmental Coordinator</u> Signature: <u></u> Date: <u>8-18-20</u> email: <u>wade_dittrich@oxy.com</u> Telephone: <u>(575) 390-2828</u>
<b>OCD Only</b> Received by: _____ Date: _____

Form C-141

State of New Mexico  
Oil Conservation Division

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### 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 Coordinator  
 Signature:  Date: 5-26-21  
 email: 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: \_\_\_\_\_

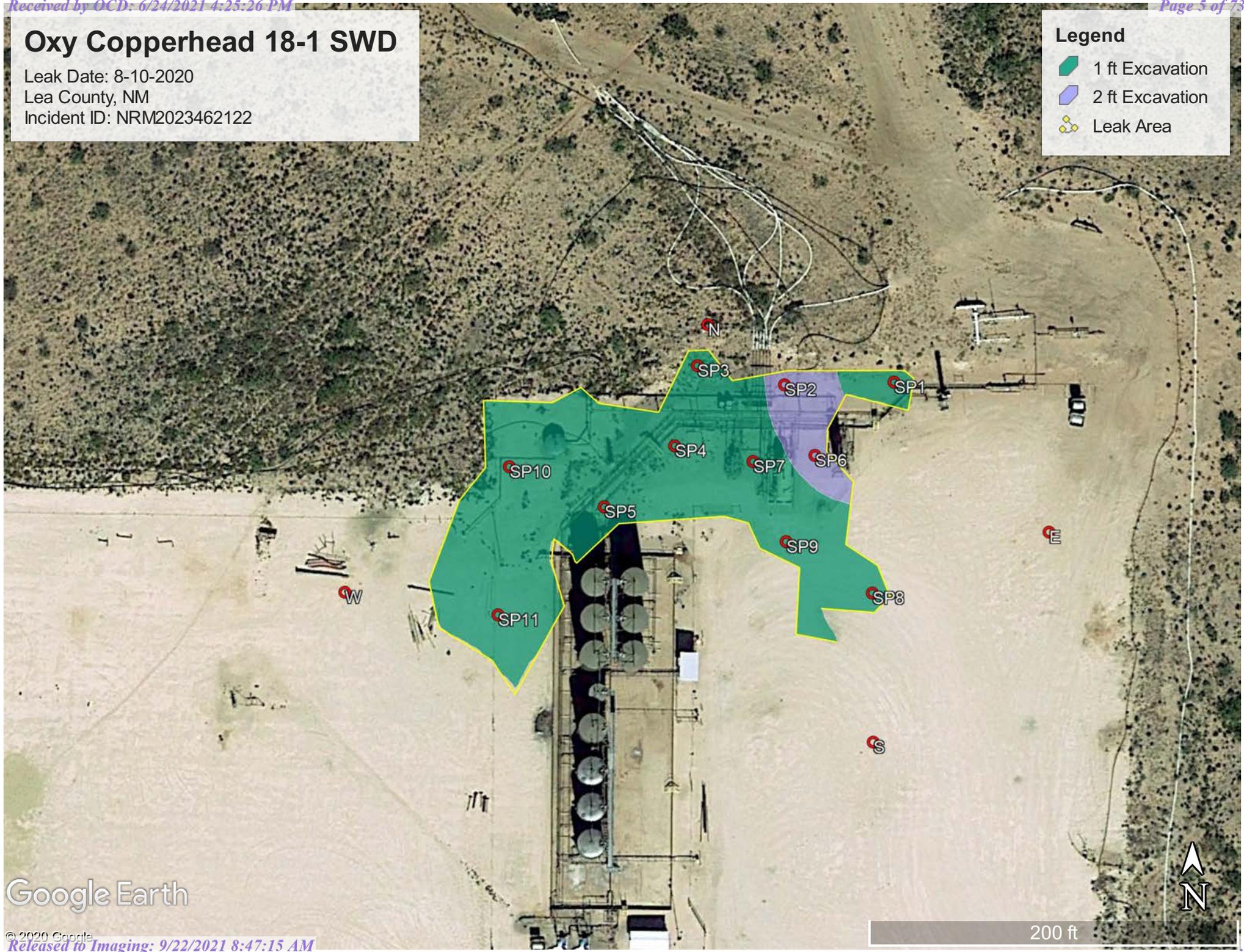
Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

# Oxy Copperhead 18-1 SWD

Leak Date: 8-10-2020  
Lea County, NM  
Incident ID: NRM2023462122

**Legend**

- 1 ft Excavation
- 2 ft Excavation
- ⬢ Leak Area



Google Earth

Oxy, Copperhead 18-1 SWD **8-8-20**

Sample Points:

SP1, N 32.21906, W -103.60920

SP2, N 32.21906, W -103.60940

SP3, N 32.21909, W -103.60955

SP4, N 32.21897, W -103.60959

SP5, N 32.21888, W -103.60971

SP6, N 32.21895, W -103.60934

SP7, N 32.21895, W -103.60945

SP8, N 32.21875, W -103.60924

SP9, N 32.21883, W -103.60939

SP10, N 32.21894, W -103.60988

SP11, N 32.21872, W -103.60990

N, N 32.21915, W -103.60953

E, N 32.21884, W -103.60893

W, N 32.21875, W -103.61016

S, N 32.21853, W -103.60924



**OXY USA Inc.**

**P**

COPPERHEAD 18 STATE 1 SWD

G- SEC 18- 24S - 33E 30-025-41735

VC5647

2310 FNL & 2310 FEL

**EMERGENCY NUMBER 575-393-3021**

08/12/2020

*Received by OCD: 6/24/2021 4:25:26 PM Page 8 of 73*

08/12/2020

*Released to Imaging: 9/22/2021 8:47:15 AM*

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*Released to Imaging: 9/22/2021 8:47:15 AM*

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08/12/2020

*Released to Imaging: 9/22/2021 8:47:15 AM*



















		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	8/24/20	8/24/20	8/24/20	8/24/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<b>0.112</b>	<b>0.132</b>	<0.050	<b>0.083</b>
Ethylbenzene	BTEX 8021B		<b>0.173</b>	<b>0.138</b>	<0.050	<b>0.100</b>
Total Xylenes	BTEX 8021B		<b>1.36</b>	<b>1.07</b>	<b>0.229</b>	<b>0.752</b>
Total BTEX	BTEX 8021B		<b>1.65</b>	<b>1.34</b>	<0.300	<b>0.934</b>
Chloride	SM4500Cl-B		<16.0	<b>32.0</b>	<b>48.0</b>	<b>16.0</b>
GRO	TPH 8015M		<b>14.8</b>	<b>12.3</b>	<10.0	<10.0
DRO	TPH 8015M		<b>37.5</b>	<b>24.1</b>	<b>36.5</b>	<b>17.5</b>
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP1 @ Surface	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	8/24/20	8/24/20	8/24/20	8/24/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<b>0.169</b>	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<b>0.283</b>	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<b>2.57</b>	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<b>3.02</b>	<0.300	n/a	n/a
Chloride	SM4500Cl-B		<b>208</b>	<16.0	<16.0	<b>96.0</b>
GRO	TPH 8015M		<b>151</b>	<10.0	n/a	n/a
DRO	TPH 8015M		<b>16000</b>	<10.0	n/a	n/a
EXT DRO	TPH 8015M		<b>3560</b>	<10.0	n/a	n/a

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	8/24/20	8/24/20	8/24/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<b>0.125</b>	<0.050	n/a
Ethylbenzene	BTEX 8021B		<b>0.160</b>	<0.050	n/a
Total Xylenes	BTEX 8021B		<b>1.42</b>	<0.150	n/a
Total BTEX	BTEX 8021B		<b>1.70</b>	<0.300	n/a
Chloride	SM4500Cl-B		<b>11700</b>	<b>960</b>	<b>32.0</b>
GRO	TPH 8015M		<b>80.9</b>	<10.0	n/a
DRO	TPH 8015M		<b>17300</b>	<10.0	n/a
EXT DRO	TPH 8015M		<b>4530</b>	<10.0	n/a

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	8/24/20	8/24/20	8/24/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<b>0.142</b>	<0.050	n/a
Ethylbenzene	BTEX 8021B		<b>0.162</b>	<0.050	n/a
Total Xylenes	BTEX 8021B		<b>1.33</b>	<0.150	n/a
Total BTEX	BTEX 8021B		<b>1.63</b>	<0.300	n/a
Chloride	SM4500Cl-B		<b>944</b>	<b>48.0</b>	<b>80.0</b>
GRO	TPH 8015M		<b>18.0</b>	<10.0	n/a
DRO	TPH 8015M		<b>6560</b>	<10.0	n/a
EXT DRO	TPH 8015M		<b>1990</b>	<10.0	n/a

		Sample ID	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	8/24/20	8/24/20	8/24/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.075	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.086	<0.050	n/a
Total Xylenes	BTEX 8021B		0.799	<0.050	n/a
Total BTEX	BTEX 8021B		0.960	<0.050	n/a
Chloride	SM4500Cl-B		1310	80.0	64.0
GRO	TPH 8015M		<100	<10.0	n/a
DRO	TPH 8015M		33400	<10.0	n/a
EXT DRO	TPH 8015M		9260	<10.0	n/a

		Sample ID	SP5 @ Surface	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	8/25/20	8/25/20	8/25/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.069	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.059	<0.050	n/a
Total Xylenes	BTEX 8021B		0.475	<0.150	n/a
Total BTEX	BTEX 8021B		0.604	<0.300	n/a
Chloride	SM4500Cl-B		4880	64.0	64.0
GRO	TPH 8015M		14.0	<10.0	n/a
DRO	TPH 8015M		9940	11.7	n/a
EXT DRO	TPH 8015M		2840	<10.0	n/a

		Sample ID	SP6 @ Surface	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'
Analyte	Method	Date	8/25/20	8/25/20	8/25/20	8/25/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		0.083	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		0.067	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		0.576	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		0.726	<0.300	n/a	n/a
Chloride	SM4500Cl-B		5600	4080	144	80.0
GRO	TPH 8015M		32.3	<10.0	n/a	n/a
DRO	TPH 8015M		9540	<10.0	n/a	n/a
EXT DRO	TPH 8015M		2310	<10.0	n/a	n/a

		Sample ID	SP7 @ Surface	SP7 @ 1'	SP7 @ 2'
Analyte	Method	Date	8/25/20	8/25/20	8/25/20
			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		0.525	<0.150	n/a
Total BTEX	BTEX 8021B		0.525	<0.300	n/a
Chloride	SM4500Cl-B		2320	96.0	32.0
GRO	TPH 8015M		67.7	<10.0	n/a
DRO	TPH 8015M		2430	<10.0	n/a
EXT DRO	TPH 8015M		543	<10.0	n/a

		Sample ID	SP8 @ Surface	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'
Analyte	Method	Date	8/25/20	8/25/20	8/25/20	8/25/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<b>0.635</b>	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<b>0.844</b>	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<b>7.98</b>	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<b>9.46</b>	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<b>176</b>	<b>16.0</b>	<b>32.0</b>	<b>16.0</b>
GRO	TPH 8015M		<b>228</b>	<10.0	<10.0	<10.0
DRO	TPH 8015M		<b>23500</b>	<b>21.5</b>	<10.0	<10.0
EXT DRO	TPH 8015M		<b>4940</b>	<10.0	<10.0	<10.0

		Sample ID	SP9 @ Surface	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'
Analyte	Method	Date	8/25/20	8/25/20	8/25/20	8/25/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.500	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<b>1.75</b>	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<b>3.30</b>	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<b>35.5</b>	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<b>40.6</b>	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		<b>80.0</b>	<16.0	<b>16.0</b>	<16.0
GRO	TPH 8015M		<b>1110</b>	<10.0	<10.0	n/a
DRO	TPH 8015M		<b>19100</b>	<b>222</b>	<10.0	n/a
EXT DRO	TPH 8015M		<b>3720</b>	<b>39.0</b>	<10.0	n/a

		Sample ID	SP10 @ Surface	SP10 @ 1'	SP10 @ 2'
Analyte	Method	Date	8/25/20	8/25/20	8/25/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<b>0.066</b>	<0.050	n/a
Ethylbenzene	BTEX 8021B		<b>0.064</b>	<0.050	n/a
Total Xylenes	BTEX 8021B		<b>0.539</b>	<0.150	n/a
Total BTEX	BTEX 8021B		<b>0.668</b>	<0.300	n/a
Chloride	SM4500Cl-B		<b>2320</b>	<b>32.0</b>	<b>80.0</b>
GRO	TPH 8015M		<b>10.8</b>	<10.0	n/a
DRO	TPH 8015M		<b>2330</b>	<b>55.8</b>	n/a
EXT DRO	TPH 8015M		<b>843</b>	<b>28.0</b>	n/a

		Sample ID	SP11 @ Surface	SP11 @ 1'	SP11 @ 2'
Analyte	Method	Date	8/25/20	8/25/20	8/25/20
			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		<b>0.185</b>	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		<b>33600</b>	<b>112</b>	<b>112</b>
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<b>2570</b>	<b>42.9</b>	n/a
EXT DRO	TPH 8015M		<b>757</b>	<b>20.7</b>	n/a



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

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August 28, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: COPPERHEAD 18 - 1 SWD (8-10-20)

Enclosed are the results of analyses for samples received by the laboratory on 08/26/20 16:15.

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 [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".

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:	08/26/2020	Sampling Date:	08/24/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: NORTH @ SURFACE (H002259-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.99	99.3	2.00	3.40	
<b>Toluene*</b>	<b>0.112</b>	0.050	08/27/2020	ND	2.02	101	2.00	3.49	
<b>Ethylbenzene*</b>	<b>0.173</b>	0.050	08/27/2020	ND	2.00	100	2.00	3.62	
<b>Total Xylenes*</b>	<b>1.36</b>	0.150	08/27/2020	ND	5.78	96.3	6.00	3.61	
<b>Total BTEX</b>	<b>1.65</b>	0.300	08/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/27/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>14.8</b>	10.0	08/27/2020	ND	200	100	200	4.28	
<b>DRO &gt;C10-C28*</b>	<b>37.5</b>	10.0	08/27/2020	ND	211	105	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	08/27/2020	ND					

Surrogate: 1-Chlorooctane 124 % 44.3-144

Surrogate: 1-Chlorooctadecane 135 % 42.2-156

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/24/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: EAST @ SURFACE (H002259-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.99	99.3	2.00	3.40	
<b>Toluene*</b>	<b>0.132</b>	0.050	08/27/2020	ND	2.02	101	2.00	3.49	
<b>Ethylbenzene*</b>	<b>0.138</b>	0.050	08/27/2020	ND	2.00	100	2.00	3.62	
<b>Total Xylenes*</b>	<b>1.07</b>	0.150	08/27/2020	ND	5.78	96.3	6.00	3.61	
<b>Total BTEX</b>	<b>1.34</b>	0.300	08/27/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	08/27/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>12.3</b>	10.0	08/27/2020	ND	200	100	200	4.28	
<b>DRO &gt;C10-C28*</b>	<b>24.1</b>	10.0	08/27/2020	ND	211	105	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	08/27/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/24/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: WEST @ SURFACE (H002259-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.99	99.3	2.00	3.40	
Toluene*	<0.050	0.050	08/27/2020	ND	2.02	101	2.00	3.49	
Ethylbenzene*	<0.050	0.050	08/27/2020	ND	2.00	100	2.00	3.62	
<b>Total Xylenes*</b>	<b>0.229</b>	0.150	08/27/2020	ND	5.78	96.3	6.00	3.61	
Total BTEX	<0.300	0.300	08/27/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	08/27/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2020	ND	200	100	200	4.28	
<b>DRO &gt;C10-C28*</b>	<b>36.5</b>	10.0	08/27/2020	ND	211	105	200	1.08	
EXT DRO >C28-C36	<10.0	10.0	08/27/2020	ND					

Surrogate: 1-Chlorooctane 84.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.8 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/24/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SOUTH @ SURFACE (H002259-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.99	99.3	2.00	3.40	
<b>Toluene*</b>	<b>0.083</b>	0.050	08/27/2020	ND	2.02	101	2.00	3.49	
<b>Ethylbenzene*</b>	<b>0.100</b>	0.050	08/27/2020	ND	2.00	100	2.00	3.62	
<b>Total Xylenes*</b>	<b>0.752</b>	0.150	08/27/2020	ND	5.78	96.3	6.00	3.61	
<b>Total BTEX</b>	<b>0.934</b>	0.300	08/27/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	08/27/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2020	ND	200	99.9	200	2.59	
<b>DRO &gt;C10-C28*</b>	<b>17.5</b>	10.0	08/27/2020	ND	182	90.9	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	08/27/2020	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/24/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 1 @ SURFACE (H002259-05)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.99	99.3	2.00	3.40	
<b>Toluene*</b>	<b>0.169</b>	0.050	08/27/2020	ND	2.02	101	2.00	3.49	
<b>Ethylbenzene*</b>	<b>0.283</b>	0.050	08/27/2020	ND	2.00	100	2.00	3.62	
<b>Total Xylenes*</b>	<b>2.57</b>	0.150	08/27/2020	ND	5.78	96.3	6.00	3.61	
<b>Total BTEX</b>	<b>3.02</b>	0.300	08/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>208</b>	16.0	08/27/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>151</b>	50.0	08/28/2020	ND	200	99.9	200	2.59	
<b>DRO &gt;C10-C28*</b>	<b>16000</b>	50.0	08/28/2020	ND	182	90.9	200	7.11	
<b>EXT DRO &gt;C28-C36</b>	<b>3560</b>	50.0	08/28/2020	ND					

Surrogate: 1-Chlorooctane 165 % 44.3-144

Surrogate: 1-Chlorooctadecane 764 % 42.2-156

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**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/24/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 1 @ 1' (H002259-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.99	99.3	2.00	3.40	
Toluene*	<0.050	0.050	08/27/2020	ND	2.02	101	2.00	3.49	
Ethylbenzene*	<0.050	0.050	08/27/2020	ND	2.00	100	2.00	3.62	
Total Xylenes*	<0.150	0.150	08/27/2020	ND	5.78	96.3	6.00	3.61	
Total BTEX	<0.300	0.300	08/27/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/27/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/28/2020	ND	200	99.9	200	2.59		
DRO >C10-C28*	<10.0	10.0	08/28/2020	ND	182	90.9	200	7.11		
EXT DRO >C28-C36	<10.0	10.0	08/28/2020	ND						

Surrogate: 1-Chlorooctane 146 % 44.3-144

Surrogate: 1-Chlorooctadecane 151 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/24/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 1 @ 2' (H002259-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/27/2020	ND	400	100	400	0.00	

**Sample ID: SP 1 @ 3' (H002259-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	08/27/2020	ND	400	100	400	0.00	

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**Analytical Results For:**

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 Fax To: (575) 397-0397

Received:	08/26/2020	Sampling Date:	08/24/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 2 @ SURFACE (H002259-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.99	99.3	2.00	3.40	
<b>Toluene*</b>	<b>0.125</b>	0.050	08/27/2020	ND	2.02	101	2.00	3.49	
<b>Ethylbenzene*</b>	<b>0.160</b>	0.050	08/27/2020	ND	2.00	100	2.00	3.62	
<b>Total Xylenes*</b>	<b>1.42</b>	0.150	08/27/2020	ND	5.78	96.3	6.00	3.61	
<b>Total BTEX</b>	<b>1.70</b>	0.300	08/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>11700</b>	16.0	08/27/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>80.9</b>	50.0	08/28/2020	ND	200	99.9	200	2.59		
<b>DRO &gt;C10-C28*</b>	<b>17300</b>	50.0	08/28/2020	ND	182	90.9	200	7.11		
<b>EXT DRO &gt;C28-C36</b>	<b>4530</b>	50.0	08/28/2020	ND						

Surrogate: 1-Chlorooctane 140 % 44.3-144

Surrogate: 1-Chlorooctadecane 815 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/24/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 2 @ 1' (H002259-10)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.99	99.3	2.00	3.40	
Toluene*	<0.050	0.050	08/27/2020	ND	2.02	101	2.00	3.49	
Ethylbenzene*	<0.050	0.050	08/27/2020	ND	2.00	100	2.00	3.62	
Total Xylenes*	<0.150	0.150	08/27/2020	ND	5.78	96.3	6.00	3.61	
Total BTEX	<0.300	0.300	08/27/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	08/27/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/28/2020	ND	200	99.9	200	2.59		
DRO >C10-C28*	<10.0	10.0	08/28/2020	ND	182	90.9	200	7.11		
EXT DRO >C28-C36	<10.0	10.0	08/28/2020	ND						

Surrogate: 1-Chlorooctane 149 % 44.3-144

Surrogate: 1-Chlorooctadecane 155 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/24/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 2 @ 2' (H002259-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	08/27/2020	ND	400	100	400	0.00	

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

Received:	08/26/2020	Sampling Date:	08/24/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 3 @ SURFACE (H002259-12)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.99	99.3	2.00	3.40	
<b>Toluene*</b>	<b>0.142</b>	0.050	08/27/2020	ND	2.02	101	2.00	3.49	
<b>Ethylbenzene*</b>	<b>0.162</b>	0.050	08/27/2020	ND	2.00	100	2.00	3.62	
<b>Total Xylenes*</b>	<b>1.33</b>	0.150	08/27/2020	ND	5.78	96.3	6.00	3.61	
<b>Total BTEX</b>	<b>1.63</b>	0.300	08/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>944</b>	16.0	08/27/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>18.0</b>	10.0	08/27/2020	ND	200	99.9	200	2.59		
<b>DRO &gt;C10-C28*</b>	<b>6560</b>	10.0	08/27/2020	ND	182	90.9	200	7.11		
<b>EXT DRO &gt;C28-C36</b>	<b>1990</b>	10.0	08/27/2020	ND						

Surrogate: 1-Chlorooctane 124 % 44.3-144

Surrogate: 1-Chlorooctadecane 449 % 42.2-156

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**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/24/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 3 @ 1' (H002259-13)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.88	94.1	2.00	2.19	
Toluene*	<0.050	0.050	08/27/2020	ND	1.89	94.5	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/27/2020	ND	1.86	92.8	2.00	1.35	
Total Xylenes*	<0.150	0.150	08/27/2020	ND	5.84	97.3	6.00	1.12	
Total BTEX	<0.300	0.300	08/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	08/27/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/28/2020	ND	200	99.9	200	2.59		
DRO >C10-C28*	<10.0	10.0	08/28/2020	ND	182	90.9	200	7.11		
EXT DRO >C28-C36	<10.0	10.0	08/28/2020	ND						

Surrogate: 1-Chlorooctane 146 % 44.3-144

Surrogate: 1-Chlorooctadecane 153 % 42.2-156

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**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/24/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 3 @ 2' (H002259-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	08/28/2020	ND	400	100	400	0.00	

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Received:	08/26/2020	Sampling Date:	08/24/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 4 @ SURFACE (H002259-15)**

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.88	94.1	2.00	2.19	
<b>Toluene*</b>	<b>0.075</b>	0.050	08/27/2020	ND	1.89	94.5	2.00	1.60	
<b>Ethylbenzene*</b>	<b>0.086</b>	0.050	08/27/2020	ND	1.86	92.8	2.00	1.35	
<b>Total Xylenes*</b>	<b>0.799</b>	0.150	08/27/2020	ND	5.84	97.3	6.00	1.12	
<b>Total BTEX</b>	<b>0.960</b>	0.300	08/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 144 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1310</b>	16.0	08/28/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	08/28/2020	ND	200	99.9	200	2.59	
<b>DRO &gt;C10-C28*</b>	<b>33400</b>	100	08/28/2020	ND	182	90.9	200	7.11	
<b>EXT DRO &gt;C28-C36</b>	<b>9260</b>	100	08/28/2020	ND					

Surrogate: 1-Chlorooctane 182 % 44.3-144

Surrogate: 1-Chlorooctadecane 1600 % 42.2-156

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**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/24/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 4 @ 1' (H002259-16)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.88	94.1	2.00	2.19	
Toluene*	<0.050	0.050	08/27/2020	ND	1.89	94.5	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/27/2020	ND	1.86	92.8	2.00	1.35	
Total Xylenes*	<0.150	0.150	08/27/2020	ND	5.84	97.3	6.00	1.12	
Total BTEX	<0.300	0.300	08/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/28/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2020	ND	200	99.9	200	2.59	
DRO >C10-C28*	<10.0	10.0	08/28/2020	ND	182	90.9	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	08/28/2020	ND					

Surrogate: 1-Chlorooctane 81.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.6 % 42.2-156

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**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/24/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 4 @ 2' (H002259-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	08/28/2020	ND	400	100	400	0.00	

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 Fax To: (575) 397-0397

Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 5 @ SURFACE (H002259-18)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2020	ND	1.88	94.1	2.00	2.19	
<b>Toluene*</b>	<b>0.069</b>	0.050	08/28/2020	ND	1.89	94.5	2.00	1.60	
<b>Ethylbenzene*</b>	<b>0.059</b>	0.050	08/28/2020	ND	1.86	92.8	2.00	1.35	
<b>Total Xylenes*</b>	<b>0.475</b>	0.150	08/28/2020	ND	5.84	97.3	6.00	1.12	
<b>Total BTEX</b>	<b>0.604</b>	0.300	08/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4880</b>	16.0	08/28/2020	ND	416	104	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	
<b>GRO C6-C10*</b>	<b>14.0</b>	10.0	08/27/2020	ND	200	99.9	200	2.59		
<b>DRO &gt;C10-C28*</b>	<b>9940</b>	10.0	08/27/2020	ND	182	90.9	200	7.11		
<b>EXT DRO &gt;C28-C36</b>	<b>2840</b>	10.0	08/27/2020	ND						

Surrogate: 1-Chlorooctane 125 % 44.3-144

Surrogate: 1-Chlorooctadecane 635 % 42.2-156

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 Fax To: (575) 397-0397

Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 5 @ 1' (H002259-19)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.88	94.1	2.00	2.19	
Toluene*	<0.050	0.050	08/27/2020	ND	1.89	94.5	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/27/2020	ND	1.86	92.8	2.00	1.35	
Total Xylenes*	<0.150	0.150	08/27/2020	ND	5.84	97.3	6.00	1.12	
Total BTEX	<0.300	0.300	08/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	08/28/2020	ND	416	104	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*	<10.0	10.0	08/28/2020	ND	200	99.9	200	2.59	
<b>DRO &gt;C10-C28*</b>	<b>11.7</b>	10.0	08/28/2020	ND	182	90.9	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	08/28/2020	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 42.2-156

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

Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 5 @ 2' (H002259-20)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	08/28/2020	ND	416	104	400	3.77	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 6 @ SURFACE (H002259-21)**

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2020	ND	1.88	94.1	2.00	2.19	
<b>Toluene*</b>	<b>0.083</b>	0.050	08/28/2020	ND	1.89	94.5	2.00	1.60	
<b>Ethylbenzene*</b>	<b>0.067</b>	0.050	08/28/2020	ND	1.86	92.8	2.00	1.35	
<b>Total Xylenes*</b>	<b>0.576</b>	0.150	08/28/2020	ND	5.84	97.3	6.00	1.12	
<b>Total BTEX</b>	<b>0.726</b>	0.300	08/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>5600</b>	16.0	08/28/2020	ND	416	104	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
<b>GRO C6-C10*</b>	<b>32.3</b>	10.0	08/27/2020	ND	200	99.9	200	2.59	
<b>DRO &gt;C10-C28*</b>	<b>9540</b>	10.0	08/27/2020	ND	182	90.9	200	7.11	
<b>EXT DRO &gt;C28-C36</b>	<b>2310</b>	10.0	08/27/2020	ND					

Surrogate: 1-Chlorooctane 119 % 44.3-144

Surrogate: 1-Chlorooctadecane 525 % 42.2-156

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**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 6 @ 1' (H002259-22)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.88	94.1	2.00	2.19	
Toluene*	<0.050	0.050	08/27/2020	ND	1.89	94.5	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/27/2020	ND	1.86	92.8	2.00	1.35	
Total Xylenes*	<0.150	0.150	08/27/2020	ND	5.84	97.3	6.00	1.12	
Total BTEX	<0.300	0.300	08/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	08/28/2020	ND	416	104	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*	<10.0	10.0	08/28/2020	ND	200	99.9	200	2.59	
DRO >C10-C28*	<10.0	10.0	08/28/2020	ND	182	90.9	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	08/28/2020	ND					

Surrogate: 1-Chlorooctane 126 % 44.3-144

Surrogate: 1-Chlorooctadecane 132 % 42.2-156

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**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 6 @ 2' (H002259-23)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	08/28/2020	ND	416	104	400	3.77	

**Sample ID: SP 6 @ 3' (H002259-24)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	08/28/2020	ND	416	104	400	3.77	

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**Analytical Results For:**

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Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 7 @ SURFACE (H002259-25)**

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.88	94.1	2.00	2.19	
Toluene*	<0.050	0.050	08/27/2020	ND	1.89	94.5	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/27/2020	ND	1.86	92.8	2.00	1.35	
<b>Total Xylenes*</b>	<b>0.525</b>	0.150	08/27/2020	ND	5.84	97.3	6.00	1.12	
<b>Total BTEX</b>	<b>0.525</b>	0.300	08/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 180 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2320</b>	16.0	08/28/2020	ND	416	104	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
<b>GRO C6-C10*</b>	<b>67.7</b>	10.0	08/27/2020	ND	200	99.9	200	2.59	
<b>DRO &gt;C10-C28*</b>	<b>2430</b>	10.0	08/27/2020	ND	182	90.9	200	7.11	
<b>EXT DRO &gt;C28-C36</b>	<b>543</b>	10.0	08/27/2020	ND					

Surrogate: 1-Chlorooctane 125 % 44.3-144

Surrogate: 1-Chlorooctadecane 200 % 42.2-156

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**Analytical Results For:**

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Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 7 @ 1' (H002259-26)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.88	94.1	2.00	2.19	
Toluene*	<0.050	0.050	08/27/2020	ND	1.89	94.5	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/27/2020	ND	1.86	92.8	2.00	1.35	
Total Xylenes*	<0.150	0.150	08/27/2020	ND	5.84	97.3	6.00	1.12	
Total BTEX	<0.300	0.300	08/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/28/2020	ND	416	104	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*	<10.0	10.0	08/28/2020	ND	200	99.9	200	2.59	
DRO >C10-C28*	<10.0	10.0	08/28/2020	ND	182	90.9	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	08/28/2020	ND					

Surrogate: 1-Chlorooctane 133 % 44.3-144

Surrogate: 1-Chlorooctadecane 141 % 42.2-156

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**Analytical Results For:**

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Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 7 @ 2' (H002259-27)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	08/28/2020	ND	416	104	400	3.77	

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 Fax To: (575) 397-0397

Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 8 @ SURFACE (H002259-28)**

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2020	ND	1.88	94.1	2.00	2.19	
<b>Toluene*</b>	<b>0.635</b>	0.050	08/28/2020	ND	1.89	94.5	2.00	1.60	
<b>Ethylbenzene*</b>	<b>0.844</b>	0.050	08/28/2020	ND	1.86	92.8	2.00	1.35	
<b>Total Xylenes*</b>	<b>7.98</b>	0.150	08/28/2020	ND	5.84	97.3	6.00	1.12	
<b>Total BTEX</b>	<b>9.46</b>	0.300	08/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 206 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>176</b>	16.0	08/28/2020	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>228</b>	100	08/28/2020	ND	200	99.9	200	2.59	
<b>DRO &gt;C10-C28*</b>	<b>23500</b>	100	08/28/2020	ND	182	90.9	200	7.11	
<b>EXT DRO &gt;C28-C36</b>	<b>4940</b>	100	08/28/2020	ND					

Surrogate: 1-Chlorooctane 154 % 44.3-144

Surrogate: 1-Chlorooctadecane 1190 % 42.2-156

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**Analytical Results For:**

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Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 8 @ 1' (H002259-29)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.88	94.1	2.00	2.19	
Toluene*	<0.050	0.050	08/27/2020	ND	1.89	94.5	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/27/2020	ND	1.86	92.8	2.00	1.35	
Total Xylenes*	<0.150	0.150	08/27/2020	ND	5.84	97.3	6.00	1.12	
Total BTEX	<0.300	0.300	08/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	08/28/2020	ND	416	104	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*	<10.0	10.0	08/28/2020	ND	200	99.9	200	2.59	
<b>DRO &gt;C10-C28*</b>	<b>21.5</b>	10.0	08/28/2020	ND	182	90.9	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	08/28/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

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**Analytical Results For:**

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Fax To: (575) 397-0397

Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 8 @ 2' (H002259-30)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.88	94.1	2.00	2.19	
Toluene*	<0.050	0.050	08/27/2020	ND	1.89	94.5	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/27/2020	ND	1.86	92.8	2.00	1.35	
Total Xylenes*	<0.150	0.150	08/27/2020	ND	5.84	97.3	6.00	1.12	
Total BTEX	<0.300	0.300	08/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2020	ND	416	104	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*	<10.0	10.0	08/28/2020	ND	200	99.9	200	2.59	
DRO >C10-C28*	<10.0	10.0	08/28/2020	ND	182	90.9	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	08/28/2020	ND					

Surrogate: 1-Chlorooctane 132 % 44.3-144

Surrogate: 1-Chlorooctadecane 137 % 42.2-156

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 8 @ 3' (H002259-31)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.88	94.1	2.00	2.19	
Toluene*	<0.050	0.050	08/27/2020	ND	1.89	94.5	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/27/2020	ND	1.86	92.8	2.00	1.35	
Total Xylenes*	<0.150	0.150	08/27/2020	ND	5.84	97.3	6.00	1.12	
Total BTEX	<0.300	0.300	08/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/28/2020	ND	416	104	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*	<10.0	10.0	08/27/2020	ND	200	99.9	200	2.59	
DRO >C10-C28*	<10.0	10.0	08/27/2020	ND	182	90.9	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	08/27/2020	ND					

Surrogate: 1-Chlorooctane 126 % 44.3-144

Surrogate: 1-Chlorooctadecane 136 % 42.2-156

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**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 9 @ SURFACE (H002259-32)**

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	08/28/2020	ND	1.88	94.1	2.00	2.19	
<b>Toluene*</b>	<b>1.75</b>	0.500	08/28/2020	ND	1.89	94.5	2.00	1.60	
<b>Ethylbenzene*</b>	<b>3.30</b>	0.500	08/28/2020	ND	1.86	92.8	2.00	1.35	
<b>Total Xylenes*</b>	<b>35.5</b>	1.50	08/28/2020	ND	5.84	97.3	6.00	1.12	
<b>Total BTEX</b>	<b>40.6</b>	3.00	08/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 185 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	08/28/2020	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>1110</b>	100	08/28/2020	ND	200	99.9	200	2.59	
<b>DRO &gt;C10-C28*</b>	<b>19100</b>	100	08/28/2020	ND	182	90.9	200	7.11	
<b>EXT DRO &gt;C28-C36</b>	<b>3720</b>	100	08/28/2020	ND					

Surrogate: 1-Chlorooctane 242 % 44.3-144

Surrogate: 1-Chlorooctadecane 817 % 42.2-156

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**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 9 @ 1' (H002259-33)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.88	94.1	2.00	2.19	
Toluene*	<0.050	0.050	08/27/2020	ND	1.89	94.5	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/27/2020	ND	1.86	92.8	2.00	1.35	
Total Xylenes*	<0.150	0.150	08/27/2020	ND	5.84	97.3	6.00	1.12	
Total BTEX	<0.300	0.300	08/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/28/2020	ND	416	104	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*	<10.0	10.0	08/27/2020	ND	212	106	200	3.97	
<b>DRO &gt;C10-C28*</b>	<b>222</b>	10.0	08/27/2020	ND	224	112	200	1.95	QM-07
<b>EXT DRO &gt;C28-C36</b>	<b>39.0</b>	10.0	08/27/2020	ND					

Surrogate: 1-Chlorooctane 134 % 44.3-144

Surrogate: 1-Chlorooctadecane 147 % 42.2-156

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**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 9 @ 2' (H002259-34)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.88	94.1	2.00	2.19	
Toluene*	<0.050	0.050	08/27/2020	ND	1.89	94.5	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/27/2020	ND	1.86	92.8	2.00	1.35	
Total Xylenes*	<0.150	0.150	08/27/2020	ND	5.84	97.3	6.00	1.12	
Total BTEX	<0.300	0.300	08/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	08/28/2020	ND	416	104	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*	<10.0	10.0	08/27/2020	ND	212	106	200	3.97	
DRO >C10-C28*	<10.0	10.0	08/27/2020	ND	224	112	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	08/27/2020	ND					

Surrogate: 1-Chlorooctane 127 % 44.3-144

Surrogate: 1-Chlorooctadecane 132 % 42.2-156

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**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 9 @ 3' (H002259-35)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/28/2020	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:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 10 @ SURFACE (H002259-36)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.88	94.1	2.00	2.19	
<b>Toluene*</b>	<b>0.066</b>	0.050	08/27/2020	ND	1.89	94.5	2.00	1.60	
<b>Ethylbenzene*</b>	<b>0.064</b>	0.050	08/27/2020	ND	1.86	92.8	2.00	1.35	
<b>Total Xylenes*</b>	<b>0.539</b>	0.150	08/27/2020	ND	5.84	97.3	6.00	1.12	
<b>Total BTEX</b>	<b>0.668</b>	0.300	08/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2320</b>	16.0	08/28/2020	ND	416	104	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	
<b>GRO C6-C10*</b>	<b>10.8</b>	10.0	08/27/2020	ND	212	106	200	3.97		
<b>DRO &gt;C10-C28*</b>	<b>2330</b>	10.0	08/27/2020	ND	224	112	200	1.95		
<b>EXT DRO &gt;C28-C36</b>	<b>843</b>	10.0	08/27/2020	ND						

Surrogate: 1-Chlorooctane 120 % 44.3-144

Surrogate: 1-Chlorooctadecane 232 % 42.2-156

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**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 10 @ 1' (H002259-37)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.88	94.1	2.00	2.19	
Toluene*	<0.050	0.050	08/27/2020	ND	1.89	94.5	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/27/2020	ND	1.86	92.8	2.00	1.35	
Total Xylenes*	<0.150	0.150	08/27/2020	ND	5.84	97.3	6.00	1.12	
Total BTEX	<0.300	0.300	08/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	08/28/2020	ND	416	104	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*	<10.0	10.0	08/27/2020	ND	212	106	200	3.97	
<b>DRO &gt;C10-C28*</b>	<b>55.8</b>	10.0	08/27/2020	ND	224	112	200	1.95	
<b>EXT DRO &gt;C28-C36</b>	<b>28.0</b>	10.0	08/27/2020	ND					

Surrogate: 1-Chlorooctane 125 % 44.3-144

Surrogate: 1-Chlorooctadecane 132 % 42.2-156

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**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 10 @ 2' (H002259-38)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	08/28/2020	ND	416	104	400	3.92	

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**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 11 @ SURFACE (H002259-39)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2020	ND	1.88	94.1	2.00	2.19	
Toluene*	<0.050	0.050	08/28/2020	ND	1.89	94.5	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/28/2020	ND	1.86	92.8	2.00	1.35	
<b>Total Xylenes*</b>	<b>0.185</b>	0.150	08/28/2020	ND	5.84	97.3	6.00	1.12	
Total BTEX	<0.300	0.300	08/28/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>33600</b>	16.0	08/28/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/27/2020	ND	212	106	200	3.97		
<b>DRO &gt;C10-C28*</b>	<b>2570</b>	10.0	08/27/2020	ND	224	112	200	1.95		
<b>EXT DRO &gt;C28-C36</b>	<b>757</b>	10.0	08/27/2020	ND						

Surrogate: 1-Chlorooctane 121 % 44.3-144

Surrogate: 1-Chlorooctadecane 243 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 11 @ 1' (H002259-40)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2020	ND	1.88	94.1	2.00	2.19	
Toluene*	<0.050	0.050	08/27/2020	ND	1.89	94.5	2.00	1.60	
Ethylbenzene*	<0.050	0.050	08/27/2020	ND	1.86	92.8	2.00	1.35	
Total Xylenes*	<0.150	0.150	08/27/2020	ND	5.84	97.3	6.00	1.12	
Total BTEX	<0.300	0.300	08/27/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	08/28/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2020	ND	212	106	200	3.97	
<b>DRO &gt;C10-C28*</b>	<b>42.9</b>	10.0	08/27/2020	ND	224	112	200	1.95	
<b>EXT DRO &gt;C28-C36</b>	<b>20.7</b>	10.0	08/27/2020	ND					

Surrogate: 1-Chlorooctane 128 % 44.3-144

Surrogate: 1-Chlorooctadecane 135 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/26/2020	Sampling Date:	08/25/2020
Reported:	08/28/2020	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD (8-10-20)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 11 @ 2' (H002259-41)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	08/28/2020	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

(2 of 5)

Company Name: <b>BBC International, Inc.</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Project Manager: <b>Cliff Brunson</b>		P.O. #:			
Address: <b>P.O. Box 805</b>		Company: <b>OXY</b>			
City: <b>Hobbs</b>		Attn: <b>WADE</b>			
Phone #: <b>575-397-6388</b>		Address:			
State: <b>NM</b> Zip: <b>88241</b>		City:			
Fax #: <b>575-397-0397</b>		State:			
Project #: <b>Project Owner: Oxy</b>		Zip:			
Project Name: <b>Copperhead 18-1 SWD (8-10-20)</b>		Phone #:			
Project Location: <b>LEA COUNTY, NM</b>		Fax #:			
Sampler Name: <b>Simon Rendon</b>		DATE		TIME	
FOR LAB USE ONLY		DATE		TIME	
Lab I.D. <b>Sample I.D.</b>		CL		BTEX	
H002259		BTEX		TPH EXT	
11 SP2 @ 2'		G		1	
12 SP3 @ Surface		G		1	
13 SP3 @ 1'		G		1	
14 SP3 @ 2'		G		1	
15 SP4 @ Surface		G		1	
16 SP4 @ 1'		G		1	
17 SP4 @ 2'		G		1	
18 SP5 @ Surface		G		1	
19 SP5 @ 1'		G		1	
20 SP5 @ 2'		G		1	
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Delivered By: (Circle One) <b>-4.42/#1113</b> Sampler - UPS - Bus - Other: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input checked="" type="checkbox"/>		CHECKED BY: <i>[Signature]</i> Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ Add'l Fax #: _____ REMARKS: _____	

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**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

(4055)

Company Name: BBC International, Inc.		<b>BILL TO</b>		ANALYSIS REQUEST															
Project Manager: Cliff Brunson		P.O. #:																	
Address: P.O. Box 805		Company: OXY																	
City: Hobbs		Attn: WADE																	
Phone #: 575-397-6388		Address:																	
Fax #: 575-397-0397		City:																	
Project #: Project Owner: Oxy		State:																	
Project Name: Copperhead 18-1 SWD (8-10-20)		Zip:																	
Project Location: LEA COUNTY, NM		Phone #:																	
Sampler Name: Simon Rendon		Fax #:																	
<small>FOR LAB USE ONLY</small>																			
Lab I.D.  HDD1259	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	BTX	TPH EXT									
	31	SP8 @ 3'	G	1	GROUNDWATER			8/25/20	1:18 PM	✓	✓								
	32	SP9 @ Surface			WASTEWATER			8/25/20	1:40 PM	✓	✓								
	33	SP9 @ 1'			SOIL			8/25/20	1:52 PM	✓	✓								
	34	SP9 @ 2'			OIL			8/25/20	2:03 PM	✓	✓								
	35	SP9 @ 3'			SLUDGE			8/25/20	2:12 PM	✓	✓								
	36	SP10 @ Surface			OTHER :			8/25/20	2:23 PM	✓	✓								
	37	SP10 @ 1'			ACID/BASE:			8/25/20	2:37 PM	✓	✓								
	38	SP10 @ 2'			ICE / COOL			8/25/20	2:49 PM	✓	✓								
	39	SP11 @ Surface			OTHER :			8/25/20	3:00 PM	✓	✓								
	40	SP11 @ 1'						8/25/20	3:12 PM	✓	✓								

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Relinquished By: *[Signature]* Date: 8/26/20 Received By: *[Signature]* Date: 8/26/20

Time: Time: 10:15

Delivered By: (Circle One) UPS  Bus  Other:  #113

Sample Condition: Cool  Intact  Yes  No  Yes  No

CHECKED BY: *[Signature]*

REMARKS:

Phone Result:  Yes  No Add'l Phone #:

Fax Result:  Yes  No Add'l Fax #:

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USGS 321236103350101 24S.33E.17.444414

Lea County, New Mexico  
Latitude 32°12'36", Longitude 103°35'01" NAD27  
Land-surface elevation 3,573 feet above NAVD88  
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

<a href="#">Table of data</a>
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Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1986-03-11		D	97.37			2				U

Explanation

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

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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: 2020-08-13 12:15:58 EDT

0.29 0.26 nadww01

Form C-141

State of New Mexico  
Oil Conservation Division

Page 6

Incident ID	NRM2023462122
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 Coordinator  
 Signature: *Wade Dittrich* Date: 5-26-21  
 email: wade\_dittrich@oxy.com Telephone: (575) 390-2828

**OCD Only**

Received by: Robert Hamlet Date: 9/22/2021

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: *Robert Hamlet* Date: 9/22/2021  
 Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
 Action 33662

**CONDITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 33662
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2023462122 COPPERHEAD18-1 SWD, thank you. This closure is approved.	9/22/2021