

# Closure Report

Incident ID: nCH1903662255

## Site Description

Site Name:	NBR State #1 SWD 1RP-5346
Company:	OXY USA INC.
Legal Description:	U/L J, SECTION 18, T22S, R32E
County:	LEA COUNTY, NM
GPS Coordinates:	N 32.38961, W-103.60967

## Release Data

Date of Release:	1/20/2019
Type of Release:	PRODUCED WATER
Source of Release:	BAD FUSE ON A 6" POLY WATER TRANSFER LINE
Volume of Release:	20 BBLS
Volume Recovered:	16 BBLS

## Remediation Specifications

Remediation Parameters:	Excavated the entire leak to a depth of 6 inches. Confirmation bottom and sidewall samples were obtained. The site was then backfilled with clean soil.
Remediation Activities:	5/10/19 to 6/10/19

Plan Sent to OCD:	n/a	Completed per NMOCD guidelines
OCD Approval of Plan:	n/a	Submission with closure
Plan Sent to BLM:	n/a	Completed per SLO guidelines
BLM Approval of Plan:	n/a	Submission with closure

## Supporting Documentation

Initial C-141	included, signed 2/4/19
Site Diagram	Feb-19
Pictures	Remediation photos prior to and after backfill
Lab Summary/Analysis	Confirmation lab summary/analysis report
C-141, page 6	Signed and included

## Request for Closure

Based on the completion of the remediation plan, BBC International, Inc. requests closure approval from the NMOCD. This closure report was previously submitted via email to the NMOCD email address of [enmrd-ocd-district1spills@state.nm.us](mailto:enmrd-ocd-district1spills@state.nm.us) on 6/18/19. No responses was ever received.

Cliff Brunson, President of BBC International Inc.

6/18/2019

Form C-141

Page 6

State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	1RP-5346
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: 6-18-19email: 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: \_\_\_\_\_

**Cliff P. Brunson**

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**From:** Kathy Purvis <kathy@bbcinternational.com>  
**Sent:** Tuesday, June 18, 2019 2:27 PM  
**To:** enmrd-ocd-district1spills@state.nm.us; rmann@slo.state.nm.us  
**Cc:** 'Dittrich, John W'; 'Cliff Brunson'; 'Ken Swinney'; 'Jennifer Gilkey'  
**Subject:** Oxy, Closure Report, NBR State #1 SWD, 1RP-5346  
**Attachments:** Oxy, Closure Report, NBR State 1 SWD, 1RP-5346a.pdf

Attached is the closure report for a leak that occurred at the NBR State 1 SWD on 1/20/19 in Lea County, NM. Receipt notification and closure approval via email are greatly appreciated.

**Kathy Purvis**

BBC International, Inc.  
1324 W. Marland Blvd.  
Hobbs, NM 88240  
Business: (575) 397-6388  
Cell: (575) 441-8619  
[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)

**Cliff P. Brunson**

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**From:** Kathy Purvis <kathy@bbcinternational.com>  
**Sent:** Tuesday, June 18, 2019 2:36 PM  
**To:** 'Rose-Coss, Dylan H, EMNRD'; rmann@slo.state.nm.us  
**Cc:** 'Dittrich, John W'; 'Cliff Brunson'  
**Subject:** FW: Oxy, Closure Report, NBR State #1 SWD, 1RP-5346  
**Attachments:** Oxy, Closure Report, NBR State 1 SWD, 1RP-5346a.pdf

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**Kathy Purvis**

BBC International, Inc.  
1324 W. Marland Blvd.  
Hobbs, NM 88240  
Business: (575) 397-6388  
Cell: (575) 441-8619  
[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)

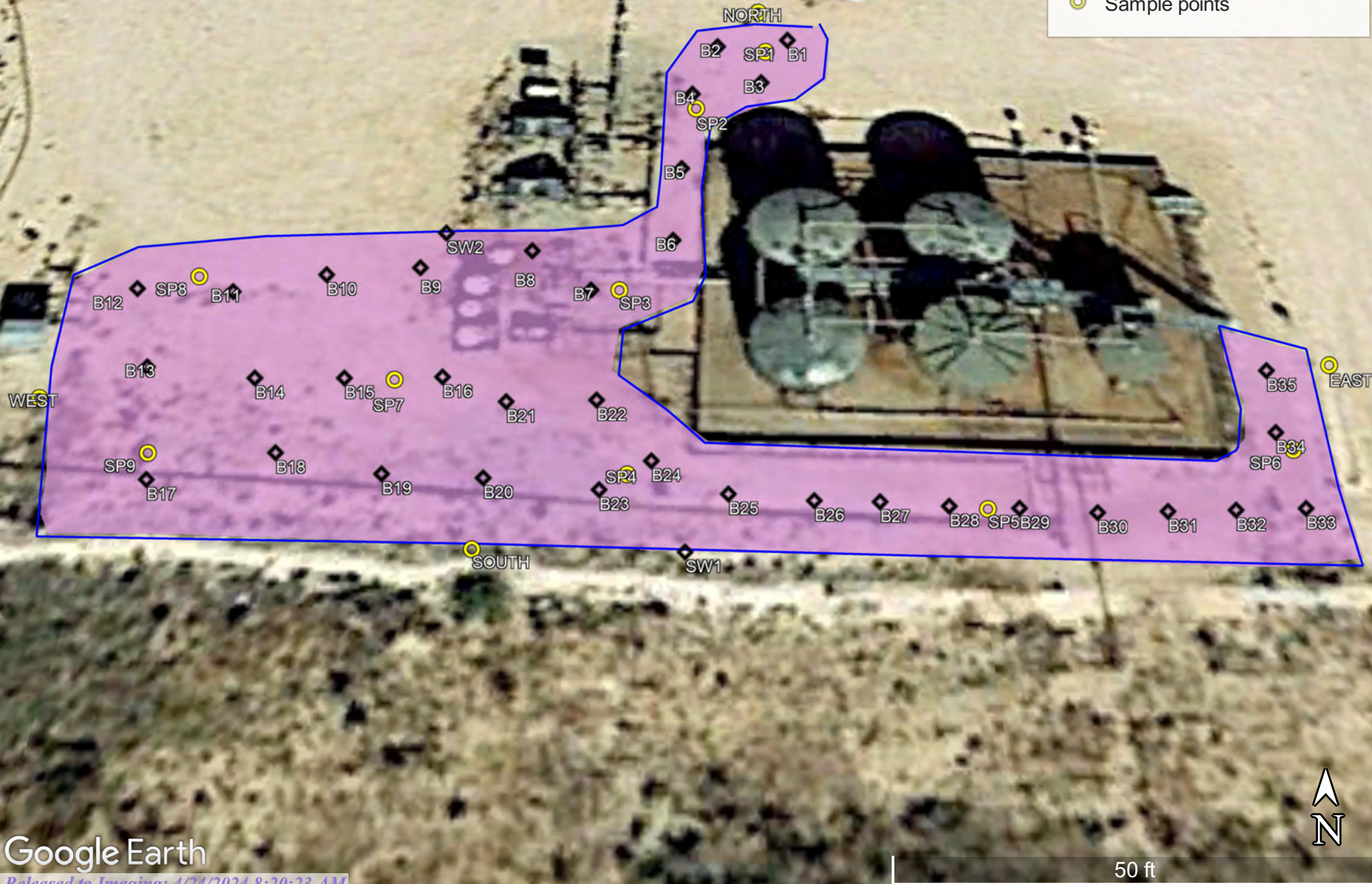


# Oxy, NBR State #1 SWD

Leak date: 1/20/19  
Lea County, NM  
1RP-5346

## Legend

- 6 inch Excavation
- Confirmation sample points
- LEAK AREA
- Sample points



## Oxy, NBR State 1 SWD

## Sample points

SP1, N 32.38977 W-103.60938

SP2, N 32.38973 W-103.60942

SP3, N 32.38963 W-103.60945

SP4, N 32.38955 W-03.60945

SP5, N 32.38954 W-103.60930

SP6, N 32.38957 W-103.60918

SP7, N 32.38959 W-103.60954

SP8, N 32.68964 W-103.60964

SP9, N 32.38956 W-103.60964

NORTH, N 32.38980 W-103.60939

SOUTH, N 32.38952 W-103.60950

EAST, N 32.38960 W-103.60915

WEST, N 32.38958 W-103.60969

B14, N 32.38959 W-103.60960

B15, N 32.38959 W-103.60957

B16, N 32.38959 W-103.60952

B17, N 32.38955 W-103.60964

B18, N 32.38956 W-103.60959

B19, N 32.38955 W-103.60954

B20, N 32.38955 W-103.60950

B21, N 32.38958 W-103.60950

B22, N 32.38958 W-103.60946

B23, N 32.38955 W-103.60946

B24, N 32.38956 W-103.60944

B25, N 32.38954 W-103.60941

B26, N 32.38954 W-103.60937

B27, N 32.38954 W-103.60935

B28, N 32.38954 W-103.60932

B29, N 32.38954 W-103.60929

B30, N 32.38954 W-103.60926

B31, N 32.38954 W-103.60923

B32, N 32.38954 W-103.60921

B33, N 32.38954 W-103.60918

B34, N 32.38957 W-103.60918

B35, N 32.38960 W-103.60918

SW1, N 32.38952 W-103.60942

SW2, N 32.38966 W-103.60953

## Confirmation sample points

B1, N 32.38978 W-103.60927

B2, N 32.38977 W-103.60941

B3, N 32.38975 W-103.60939

B4, N 32.38974 W-103.60942

B5, N 32.38970 W-103.60942

B6, N 32.38966 W-103.60943

B7, N 32.38963 W-103.60946

B8, N 32.38965 W-103.60949

B9, N 32.38965 W-103.60954

B10, N 32.38964 W-103.60958

B11, N 32.38963 W-103.60962

B12, N 32.38964 W-103.60966

B13, N 32.38960 W-103.60965



# OSE POD Locations Map




8/3/2023, 4:38:50 PM

GIS WATERS PODs

 Pending


 OSE District Boundary

Water Right Regulations

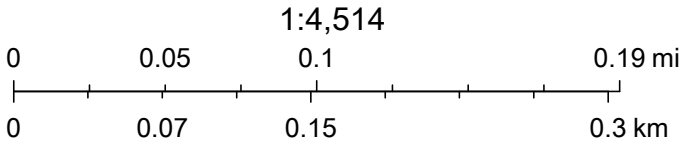
 Closure Area

New Mexico State Trust Lands

 Surface Estate

 Both Estates

 SiteBoundaries



Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar



File No. CP-1898



## NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable box):

For fees, see State Engineer website: <http://www.ose.state.nm.us/>

Purpose	<input type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input type="checkbox"/> Exploratory Well (Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input checked="" type="checkbox"/> Other(Describe)
<input type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	

USE DIT DEC 23 2021 PM 3:17

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive

☒ Temporary Request - Requested Start Date: January 3, 2022 Requested End Date: January 3, 2023

Plugging Plan of Operations Submitted? ☒ Yes ☐ No

## 1. APPLICANT(S)

Name: OXY USA, Inc.	Name: Trinity Oilfield Services and Rentals, LLC
Contact or Agent: <input type="checkbox"/> check here if Agent	Contact or Agent: <input type="checkbox"/> check here if Agent
Wade Dittrich - Environmental Coordinator, OXY USA, Inc.	John P. Farrell P.G.
Mailing Address: P. O. Box 4294	Mailing Address: P. O. Box 2587
City: Houston	City: Hobbs
State: TX Zip Code: 77210	State: NM Zip Code: 88241
Phone: (575)390-2828 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell	Phone: 575 390-7560 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell
Phone (Work):	Phone (Work):
E-mail (optional): Wade_Dittrich@oxy.com	E-mail (optional): john@trinityoilfieldservices.com

FOR OSE INTERNAL USE

Application for Permit Form WR-07 Rev 11/17/16

File No.: CP-1898	Trm. No.: 715535	Receipt No.: 2-44103
Trans Description (optional): MON		
Sub-Basin: CP	PCW/LOG Due Date:	

Page 1 of 3



**2. WELL(S)** Describe the well(s) applicable to this application

<b>Location Required:</b> Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), <u>or</u> Latitude/Longitude (Lat/Long - WGS84). District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.			
<input type="checkbox"/> NM State Plane (NAD83) (Feet) <input type="checkbox"/> NM West Zone <input type="checkbox"/> NM East Zone <input type="checkbox"/> NM Central Zone		<input type="checkbox"/> UTM (NAD83) (Meters) <input type="checkbox"/> Zone 12N <input type="checkbox"/> Zone 13N	
<input checked="" type="checkbox"/> Lat/Long (WGS84) (to the nearest 1/10 <sup>th</sup> of second)			
Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
BH-01	-103° 36' 34.7" W	32°23'24.6"N	SE1/4 of NW1/4 of SE1/4 - Unit Ltr. J, Sect. 18, T22S, R33E
<b>NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)</b> Additional well descriptions are attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, how many <u>N/A</u>			
Other description relating well to common landmarks, streets, or other: On the production pad for OXY NBR State 1 Salt Water Disposal (SWD) facility, API # 30 025 26976 <div style="text-align: right;">OSE DIT DEC 23 2021 PM 3:17</div>			
Well is on land owned by: State of New Mexico			
<b>Well Information:</b> <b>NOTE: If more than one (1) well needs to be described, provide attachment.</b> Attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, how many <u>N/A</u>			
Approximate depth of well (feet): 105		Outside diameter of well casing (inches): 2" PVC riser and screen	
Driller Name: Jarod Michalsky		Driller License Number: NM - 1800	

**3. ADDITIONAL STATEMENTS OR EXPLANATIONS**

This soil boring is to show that groundwater does not exist between the land surface and the total depth of the borehole. The planned depth is between 101 and 105 feet below ground surface (bgs). A "One Call" will be requested by Trinity and by the Driller at least 2 business days prior to drilling to ensure that any subsurface infrastructure will not be encountered. This exploratory drilling will be on previously disturbed State land at OXY NBR State 1 SWD production pad (API # 30-025-26976). NP NEW DISTURBANCE ON STATE LAND IS ANTICIPATED. Per New Mexico Oil Conservation Division, the boring must stay open for 72 hours to demonstrate that the boring is dry. Determination of dryness or depth to groundwater will be done by a professional geologist and witnessed by the driller prior to plugging the hole. Pugging will be per the specifications provided in the Plugging Plan of Operations as Provided by the Office of the State Engineer.

To address Item 4 below, this is an exploratory boring with the sole purpose of proving that the depth of groundwater exceeds 101 feet bgs. The boring serves no other purpose.

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: <u>CP-1898</u>	Trm No.: <u>715535</u>
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**4. SPECIFIC REQUIREMENTS:** The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application.

<b>Exploratory:</b> <input checked="" type="checkbox"/> Include a description of any proposed pump test, if applicable.	<b>Pollution Control and/or Recovery:</b> <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	<b>Construction De-Watering:</b> <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted. <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of. <b>Ground Source Heat Pump:</b> <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	<b>Mine De-Watering:</b> <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
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### ACKNOWLEDGEMENT

I, We (name of applicant(s)), Wade Dittrich - OXY Environmental Coordinator and John P. Farrell P.G. and Project Manager

Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Applicant Signature

Applicant Signature

### ACTION OF THE STATE ENGINEER

This application is

☒ approved

☐ partially approved

☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the constitution of the State of New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 13<sup>th</sup> day of Dec Jan 20 21, for the State Engineer,

John T. Romero  
John R. D'Antonio Jr., P.E. State Engineer

By: K. Parekh  
 Signature

Kashyap Parekh  
 Print

Title: Water Resources Manager I.  
 Print



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FOR OSE INTERNAL USE

Application for Permit Form WR-07

File No: CP-1898

Trn No: 715535

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**NEW MEXICO STATE ENGINEER OFFICE  
PERMIT TO EXPLORE**

**SPECIFIC CONDITIONS OF APPROVAL**

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: CP 01898 POD1

File Number: CP 01898

Trn Number: 715535

page: 1



**NEW MEXICO STATE ENGINEER OFFICE  
PERMIT TO EXPLORE**

**SPECIFIC CONDITIONS OF APPROVAL (Continued)**

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.  
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Trn Desc: CP 01898 POD1

File Number: CP 01898

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NEW MEXICO STATE ENGINEER OFFICE  
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion CP 01898 POD1 must be completed and the Well Log filed on or before 01/13/2022.

IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 12/23/2021	Pub. of Notice Ordered:
Date Returned - Correction:	Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 13 day of Jan A.D., 2022

John T. Romero (Acting), State Engineer

By: K. Parekh  
KASHYAP PAREKH

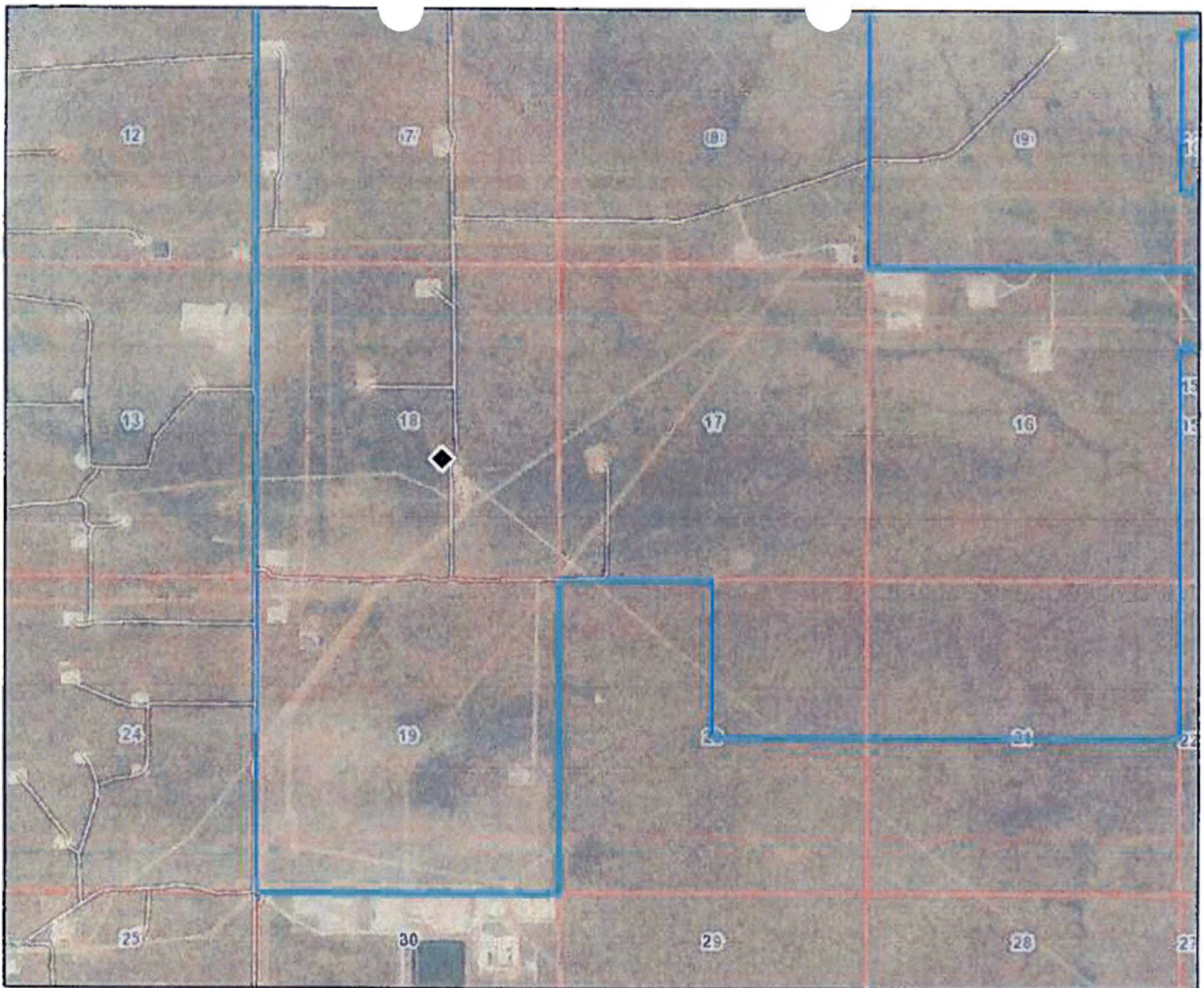


Trn Desc: CP 01898 POD1

File Number: CP 01898  
Trn Number: 715535

page: 3





**Coordinates**  
**UTM - NAD 83 (m) - Zone 13**  
 Easting 630774.251  
 Northing 3584533.543  
**State Plane - NAD 83 (ft) - Zone E**  
 Easting 764724.345  
 Northing 506427.898  
**Degrees Minutes Seconds**  
 Latitude 32 : 23 : 24.600000  
 Longitude -103 : 36 : 34.700000  
 Location pulled from Coordinate Search

NEW MEXICO OFFICE  
 OF THE  
 STATE ENGINEER

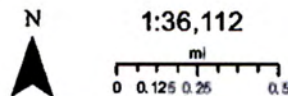


Image Info  
 Source: Maxar  
 Date: 1/3/2021  
 Resolution (m): 0.5  
 Accuracy (m): 5

**Spatial Information**  
 OSE Administrative Area: Lea  
 County: Lea  
 Groundwater Basin: Capitan  
 Abstract Area: Capitan

Sub-Basin: Landreth-Monument Draws

Land Grant: Not in Land Grant  
Restrictions:

**PLSS Description**  
 SENWNWSE Qtr of Sec 18 of 022S 033E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximate.

◆ Coord Search Location

**Water Right Regulations**

◻ Closure Area

◻ Site Boundaries

**LM Sites**

● CERCLA/RC...

● D&D

● FUSRAP

● MED/AEC Legacy Site

● NWPA

● Nevada Offsites

● Plowshare / Vela Uniform

● UMRCA Title I

● UMRCA Title II

● Unknown

◻ Sections

◻ BLM Land Grant

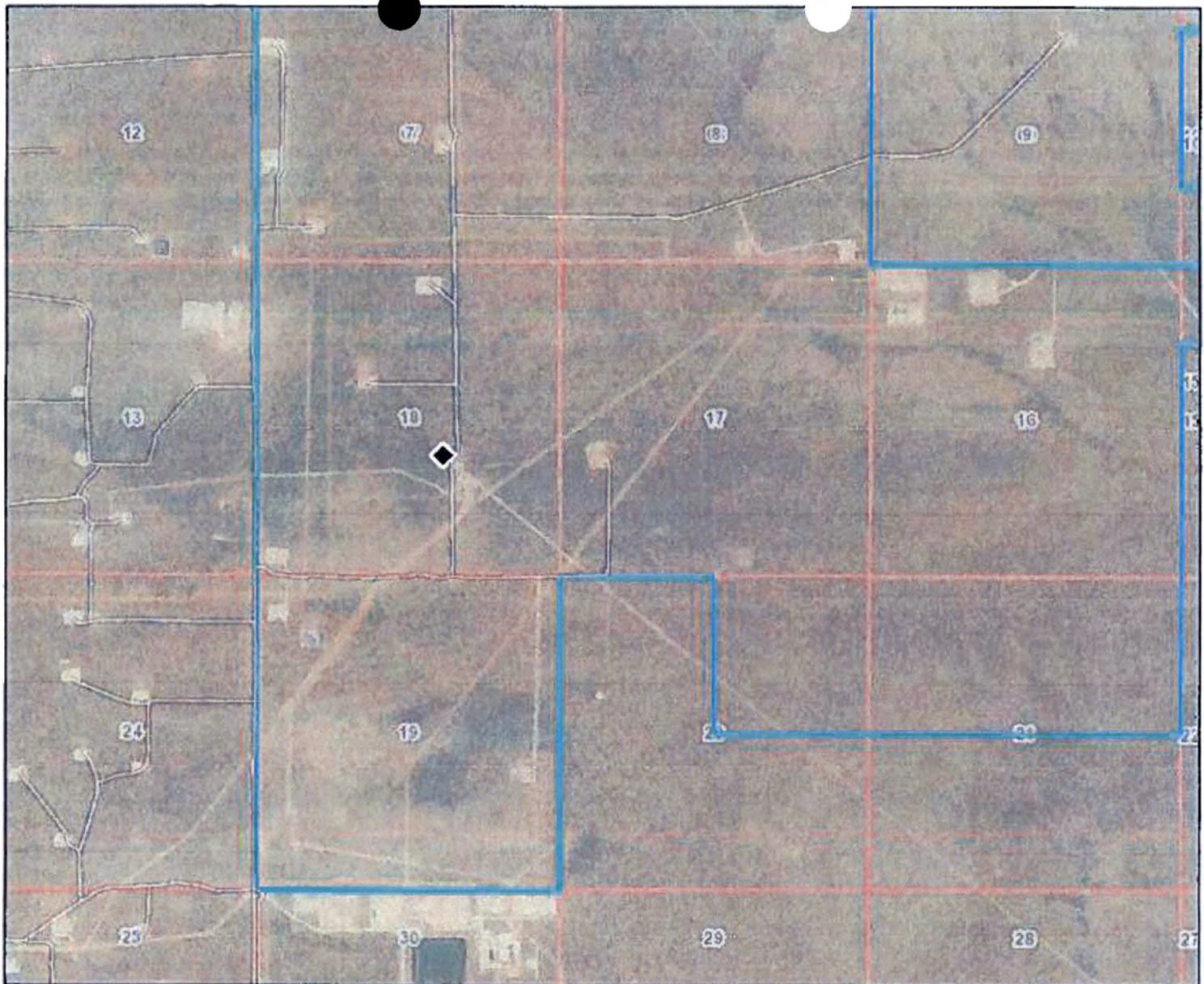
◻ PLSS Township

◻ PLSS First Div...

**POD Informa**  
 Owner: OXY  
 File Number: CP-1898 PO  
 POD Status: NoData  
 Permit Status: NoData  
 Permit Use: NoData  
 Purpose: MON

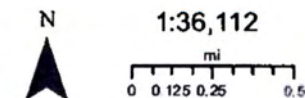
GUILLEN





# NEW MEXICO OFFICE OF THE STATE ENGINEER

**Coordinates**  
**UTM - NAD 83 (m) - Zone 13**  
 Easting 630774.251  
 Northing 3584533.543  
**State Plane - NAD 83 (f) - Zone E**  
 Easting 764724.345  
 Northing 506427.898  
**Degrees Minutes Seconds**  
 Latitude 32 : 23 : 24.600000  
 Longitude -103 : 36 : 34.700000  
 Location pulled from Coordinate Search



**Image Info**  
 Source: Maxar  
 Date: 1/3/2021  
 Resolution (m): 0.5  
 Accuracy (m): 5

**Spatial Information**  
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Derived from CADNSDI - Qtr Sec. locations are  
 calculated and are only approximations

**Water Right Regulations**  
 Closure Area  
 Site Boundaries  
**LM Sites**  
 CERCLA/RC...

**Coord Search Location**

**D&D**  
**FUSRAP**  
**MED/AEC Legacy Site**  
**NWPA**  
**Nevada Offsites**

**Plowshare / Vela Uniform**  
**UMTRCA Title I**  
**UMTRCA Title II**  
**Unknown**  
**Sections**

**BLM Land Grant**  
**PLSS Township**  
**PLSS First Div...**

## POD Information

Owner: OXY  
 File Number: CP-1898 POD1  
 POD Status: NoData  
 Permit Status: NoData  
 Permit Use: NoData  
 Purpose: MON

GUILLEN

12/27/20

The Bureau of Land Management is not responsible for the accuracy of the information contained herein. It is the user's responsibility to verify the information and to use it for the purposes intended. The Bureau of Land Management is not responsible for the accuracy of the information contained herein. It is the user's responsibility to verify the information and to use it for the purposes intended.





Stephanle Garcia Richard  
COMMISSIONER

**State of New Mexico**  
**Commissioner of Public Lands**

310 OLD SANTA FE TRAIL  
P.O. BOX 1148  
SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S  
OFFICE

Phone (505) 827-5760  
Fax (505) 827-5766  
www.nmstatelands.org

January 5, 2022

OXY USA, Inc.  
P.O. Box 4294  
Houston, TX 77210

Attn: Wade Dittrich: Wade\_Dittrich@oxy.com

RE: Rule 12 Water Exploration / Soil Boring Permit # WE-0802, 30-025-26976 OXY NBR State 1 SWD Ref# SW-354

We are in receipt of your application and fees (\$100.00 per Application) requesting a TEMPORARY BORING PERMIT for Water exploration. *The effective date of this authorization is for a period of not to exceed 30 days, commencing on January 24, 2022 and ending on February 24, 2022.*

This Authorization (Right of Entry) letter is for the sole purpose of exploring depth to groundwater in the following location: (Please see attached map)

Township	Range	Section	Subdivision	County	Acres
22S	33E	18	NW4SE4	Lea	1

**CONDITIONS OF USE**

- A. The issuance of this Exploration Authorization does not guarantee a Water Easement will be issued for this property being explored, nor does it indicate a preference for a future water easement issuance to the holder of the authorization by the Commissioner of Public Lands.
- B. No refund of Permit application fees will occur after Permit approval letter is mailed.
- C. Authorized party shall notify the State Land Office District Resource Manager by telephone at least one business day prior to commencing any exploration activities.
- D. No blading or widening of any two-track dirt roads that provides access to the Property is permitted under this Authorization, except as necessary for the ingress and egress of required vehicles.
- E. No mining or removal of material for purposes other than testing is allowed under this Authorization. No sale of any material extracted from the Property is allowed under this Authorization.
- F. Authorized party shall observe all federal, state and local laws and regulations applicable to the Property.
- G. Authorized party shall take all reasonable precautions to prevent and suppress forest, brush and grass fires and prevent pollution of waters on or in the vicinity of the Property.
- H. Authorized party shall not block or disrupt roads or trails commonly in use.
- I. This Authorization is subject to any and all easements and rights-of-way previously granted and now in force and affect.
- J. Authorized party shall be responsible for repair and restitution for damage to any property improvements as a result of activities related to this exploration.
- K. Authorized party shall conduct exploration activities only if a state-permitted archaeologist as per the Cultural Properties Act, §18-6-5(O) is present on the permitted site. Authorized party shall abide by the decisions of the permitted Archaeologist regarding prevention of damage to cultural property sites. An archaeological report is to be submitted to State Land Office Cultural Resources Specialist within fifteen (15) days of the expiration date of



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John T. Romero (Acting)  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

**STATE OF NEW MEXICO  
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 715535  
File Nbr: CP 01898

Jan. 13, 2022

JOHN P FARRELL P.G  
TRINITY OILFIELD SVCS & RENTALS LLC  
PO BOX 2587  
HOBBS, NM 88241

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- \* If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- \* If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- \* The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- \* This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website [www.ose.state.nm.us](http://www.ose.state.nm.us).

Sincerely,

A handwritten signature in blue ink, appearing to read "Maret Amaral".

Maret Amaral  
(575) 622-6521

Enclosure

explore

John T. Romero (Acting)  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

**STATE OF NEW MEXICO  
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 715535  
File Nbr: CP 01898

Jan. 13, 2022

WADEE DITTRICH  
OXY USA INC  
PO BOX 4294  
HOUSTON, TX 77210

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Sincerely,

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Maret Amaral  
(575) 622-6521

Enclosure

explore





# New Mexico Office of the State Engineer


## Transaction Summary

### EXPL Permit To Explore

Transaction Number: 715535 Transaction Desc: CP 01898 POD1 File Date: 12/23/2021

Primary Status: PMT Permit  
Secondary Status: APR Approved  
Person Assigned: \*\*\*\*\*  
Applicant: OXY USA INC  
Contact: WADEE DITTRICH  
Applicant: TRINITY OILFIELD SVCS-RENT LLC  
Contact: JOHN P FARRELL P.G.

Events					
	Date	Type	Description	Comment	Processed By
	12/23/2021	APP	Application Received	*	*****
	12/23/2021	TEC	Technical Report	*PLUGGING PLAN	*****
	01/13/2022	SAR	Set Application Received		*****
	01/13/2022	FTN	Finalize non-published Trans.		*****
	03/10/2022	QAT	Quality Assurance Completed	IMAGE	*****
	03/10/2022	ARW	WRAB Main File Rm Arch Sect	CP 01898 Archived	*****
	06/13/2022	QAT	Quality Assurance Completed	IMAGE/PLUGGING	*****

Water Right Information				
WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
CP 01898	0	0		MON MONITORING WELL
**Point of Diversion				
CP 01898 POD1		630773	3584534	

Remarks

"THIS SOIL BORING IS TO SHOW THAT GROUNDWATER DOES NOT EXIST BETWEEN HE LAND SURFACE AND THE TOTAL DEPTH OF THE BOREHOLE. THE PLANNED DEPTH IS BETWEEN 101 AND 105 FEET BELOW GROUND SURFACE (BGS). A " ONE CALL" WILL BE REQUESTED BY TRINITY

AND BY THE DRILLER AT LEAST 2 BUSINESS DAYS PRIOR TO DRILLING TO ENSURE ANY SUBSURFACE INFRASTRUCTURE NOT BE ENCOUNTERED. THIS EXPLORATORY DRILLING WILL BE ON PREVIOUSLY DISTURBED STATE LAND AT OXY NBR STATE 1 SWD PRODUCTION PAD (API # 30-025-26976). NP NEW DISTRUBANCE ON STATE LAND IS ANTICIPATED. PER NM OIL CONVERVATION DIVISION, THE BORING MUST STAY OPEN FOR 72 HOURS TO DEMONSTRATE THAT THE BORING IS DRY. DETERMINATION OF DRYNESS OR DEPTH TO



GROUNDWATER WILL BE DONE BY A PROFESSIONAL GEOLOGIST AND WITNESSED BY THE DRILLER PRIOR TO PLUGGING THE HOLE. PLUGGING WILL BE PER THE SPECIFICATIONS PROVIDED IN THE PLUGGING PLAN OF OPERATIONS AS PROVIDED BY THE OFFICE OF THE STATE

ENGINEER. TO ADDRESS ITEM 4 BELOW, THIS IS AN EXPLORATORY BORING WITH THE SOLE PURPOSE OF PROVING THAT THE DEPTH OF GROUNDWATER EXCEEDS 101 FEET BGS. THE BORING SERVES NO OTHER PURPOSE.

#### Conditions

- 16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 1A Depth of the well shall not exceed the thickness of the valley fill.
- 4 No water shall be appropriated and beneficially used under this permit.
- B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record. The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable
- 7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- Q The State Engineer retains jurisdiction over this permit.
- R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

#### Action of the State Engineer

IT IS THE PERMITTEE S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

**\*\* See Image For Any Additional Conditions of Approval \*\***

**Approval Code:** A - Approved

**Action Date:** 01/13/2022

**Log Due Date:** 01/13/2022

State Engineer: John T. Romero

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/3/23 3:37 PM

TRANSACTION  
SUMMARY





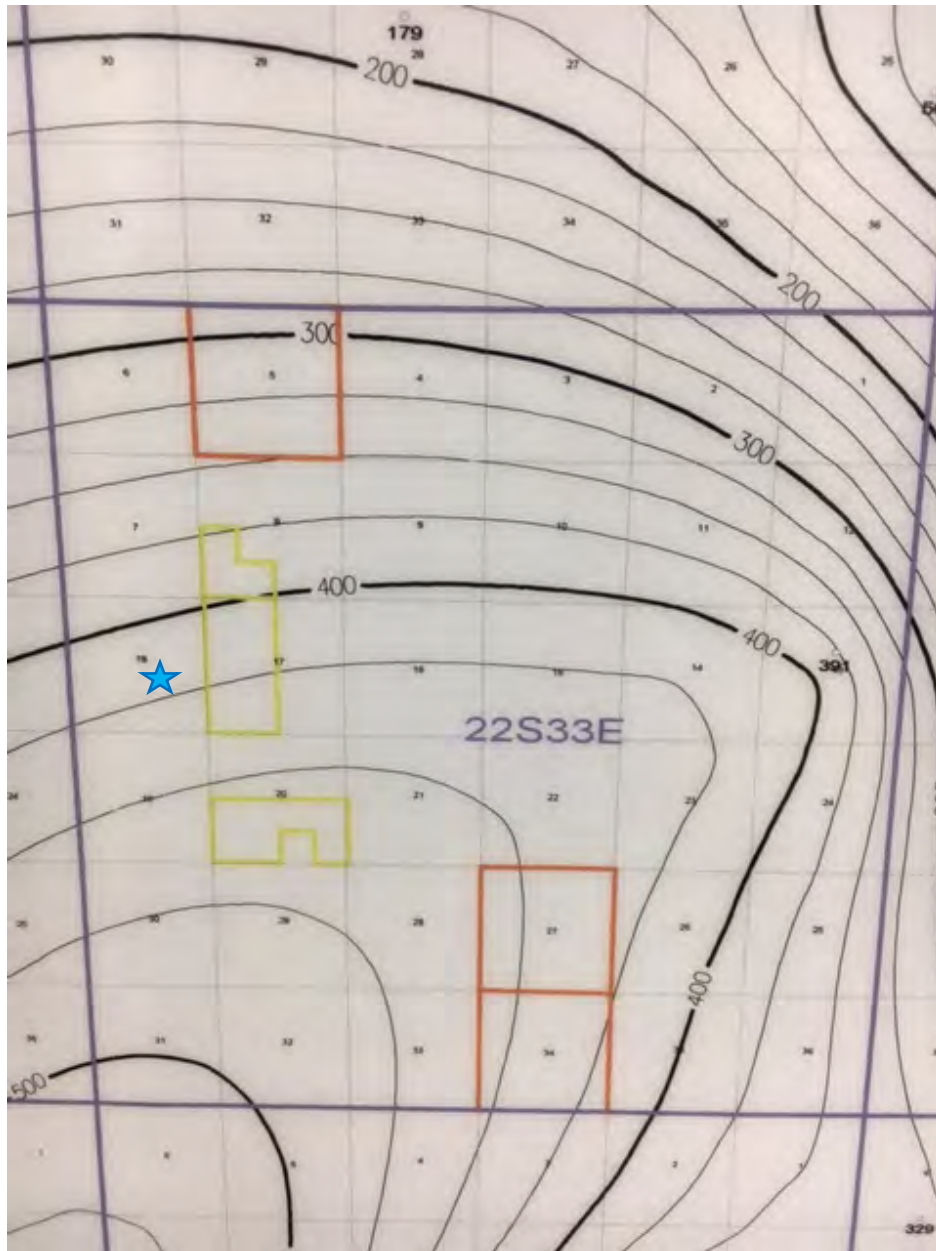
Amarillo, TX - Artesia, NM  
Midland, TX - San Antonio, TX

BORING LOG

Boring Number:	Job Number:	Driller/Co.: Talon LPE
Site Name: NBR	Logger:	Bit Size:
Location:	Weather:	Rig Type:
Date:	Sample Retrieval Method: Grab	Drilling Method: Air Rotary

Sample Number	Sample Interval (ft)	Sample Recovery (ft)	USCS	Sample Material/Comments	ODOR	PID (ppm)
	0 - 6"			Caliche Backfill with sand and gravel		
	6 - 15"			Light Brown/Tan sand and gravel		
	16 - 24"			Red/Brown Sand with light clay and gravel		
	25 - 40"			Red Sand and gravel		
	41 - 95"			Fine Sand (Red - light Brown) with clay		
	95" - 105"			Red - Dark Brown Sand/clay with light gravel		

**Oxy, NBR State 1 SWD**  
**U/L J, Section 18, T22S, R33E**  
**Groundwater: 425'**







USGS Home  
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National Water Information System: Web Interface

USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
New Mexico

GO

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Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 322314103383601

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

USGS 322314103383601 22S.32E.14.32422

Lea County, New Mexico  
Latitude 32°23'14", Longitude 103°38'36" NAD27  
Land-surface elevation 3,740 feet above NAVD88  
The depth of the well is 380 feet below land surface.  
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1972-09-13			D	370.40		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.

- [Questions about sites/data?](#)  
[Feedback on this web site](#)  
[Automated retrievals](#)  
[Help](#)  
[Data Tips](#)  
[Explanation of terms](#)

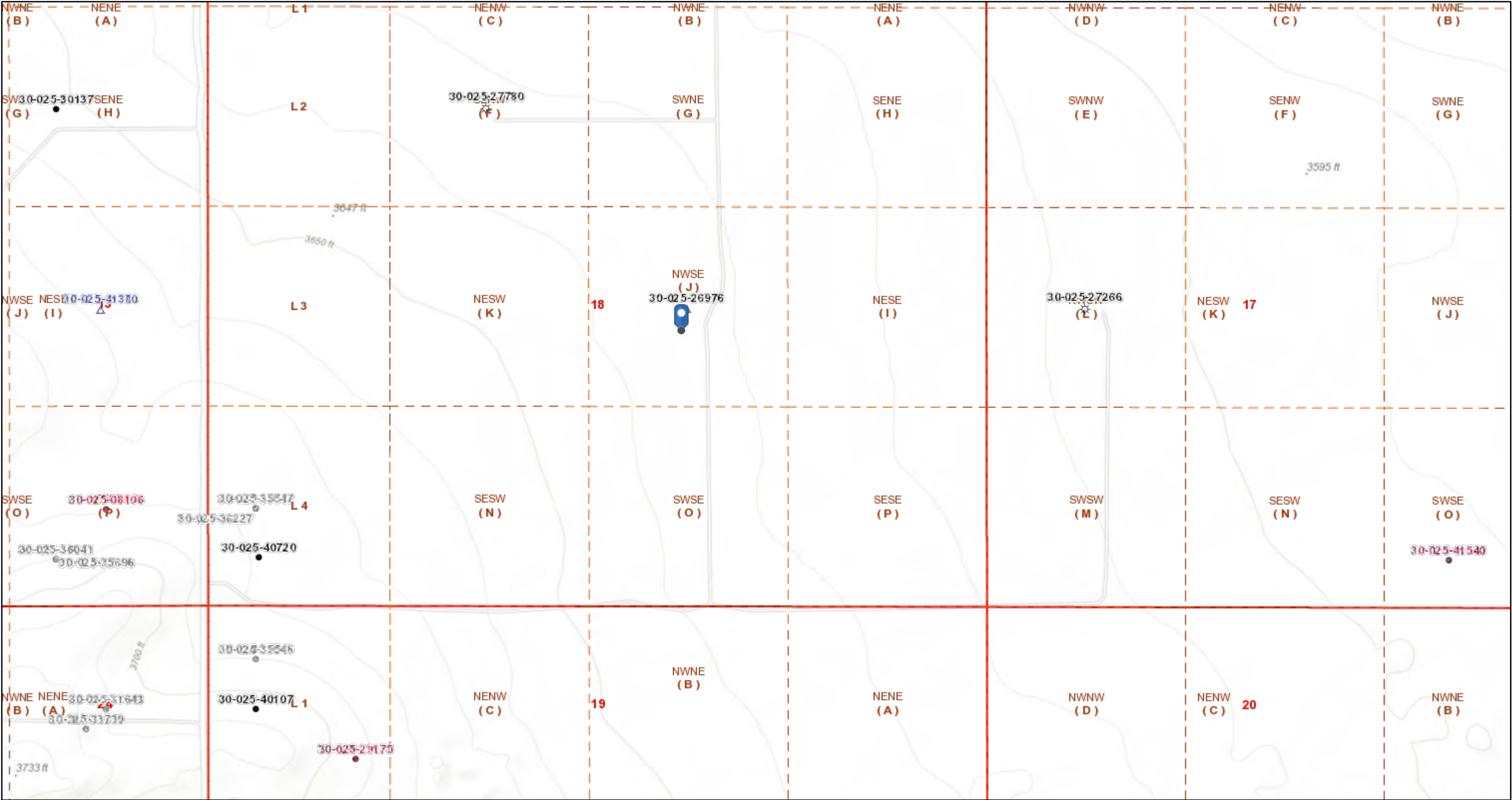
[Subscribe for system changes](#)[News](#)[Accessibility](#)[Plug-Ins](#)[FOIA](#)[Privacy](#)[Policies and Notices](#)[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)**Title: Groundwater for New Mexico: Water Levels****URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2019-02-04 10:55:24 EST

0.52 0.45 nadww01



NBR State 1 SWD



2/4/2019 8:48:03 AM

Well Locations - Small Scale

- Active
- New
- Plugged
- Cancelled
- Temporarily Abandoned

Well Locations - Large Scale

- Miscellaneous
- CO2 Active
- CO2 Cancelled
- CO2 New
- CO2, Plugged
- CO2, Temporarily Abandoned

Gas Active

- Gas, Cancelled, Never Drilled
- Gas, New
- Gas, Plugged
- Gas, Temporarily Abandoned
- Injection, Active

Injection, Cancelled

- Injection, New
- Injection, Plugged
- Injection, Temporarily Abandoned
- Oil, Active
- Oil, Cancelled

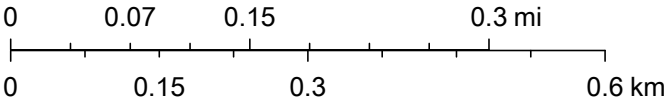
Oil, New

- Oil, Plugged
- Oil, Temporarily Abandoned
- Salt Water Injection, Active
- Salt Water Injection, Cancelled
- Salt Water Injection, New

Salt Water Injection, Plugged

- Salt Water InjectionTemporarily Abandoned
- Water, Active
- Water, Cancelled
- Water, New
- Water, Plugged

1:9,028





Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA, OCD, BLM

# Oxy, NBR State 1 SWD

Leak date: 1/20/19  
Lea County, NM  
API# 30-025-26976

## BLM Cave Karst Map

### Legend

-  Leak Area
-  Low potential





# National Flood Hazard Layer FIRMette



32°23'37.79"N



## Legend

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

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



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

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **2/4/2019 at 11:04:27 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.











		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	1/31/19	1/31/19	1/31/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		27600	112	80
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		19	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	1/31/19	1/31/19	1/31/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		17200	48	144
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	1/31/19	1/31/19	1/31/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		28000	80	480
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		11.2	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	1/31/19	1/31/19	2/1/19	2/1/19	2/1/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		46000	48	1440	64	80
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		54.3	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	2/1/19	2/1/19	2/1/19	2/1/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		42000	96	96	80
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		239	<10.0	n/a	n/a
EXT DRO	TPH 8015M		49.1	<10.0	n/a	n/a

		Sample ID	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'
Analyte	Method	Date	2/1/19	2/1/19	2/1/19	2/1/19	2/1/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		46400	2160	896	336	64
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		957	40.3	n/a	n/a	n/a
EXT DRO	TPH 8015M		185	23.4	n/a	n/a	n/a

		Sample ID	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'
Analyte	Method	Date	2/1/19	2/1/19	2/1/19	2/1/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		34000	160	128	16
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		530	23.2	n/a	n/a
EXT DRO	TPH 8015M		111	<10.0	n/a	n/a

		Sample ID	SP8 @ SURFACE	SP8 @ 1'
Analyte	Method	Date	2/1/19	2/1/19
			mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		48800	112
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		450	<10.0
EXT DRO	TPH 8015M		89	<10.0

		Sample ID	SP9 @ SURFACE	SP9 @ 1'
Analyte	Method	Date	2/1/19	2/1/19
			mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		43200	32
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		63.6	<10.0
EXT DRO	TPH 8015M		10.8	<10.0

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	2/1/19	2/1/19	2/1/19	2/1/19
			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		336	384	464	448
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	B16
Analyte	Method	Date	5/16/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		80
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0



		Sample ID	B32
Analyte	Method	Date	5/16/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		96
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	B33
Analyte	Method	Date	5/16/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		96
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	SW2
Analyte	Method	Date	5/16/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	B34
Analyte	Method	Date	5/16/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		96
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	B35
Analyte	Method	Date	5/16/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		80
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	SW1
Analyte	Method	Date	5/16/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		80
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0



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February 11, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NBR STATE #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 02/05/19 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 01/31/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ SURFACE (H900402-01)**

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	02/09/2019	ND	1.93	96.4	2.00	3.08		
Toluene*	<0.050	0.050	02/09/2019	ND	1.83	91.5	2.00	3.45		
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	1.79	89.6	2.00	2.06		
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.35	89.2	6.00	2.31		
Total BTEx	<0.300	0.300	02/09/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	27600	16.0	02/10/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	194	97.1	200	5.19	
DRO >C10-C28*	19.0	10.0	02/09/2019	ND	198	99.1	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 77.0 % 41-142

Surrogate: 1-Chlorooctadecane 80.8 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 01/31/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 1' (H900402-02)**

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	02/09/2019	ND	1.93	96.4	2.00	3.08		
Toluene*	<0.050	0.050	02/09/2019	ND	1.83	91.5	2.00	3.45		
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	1.79	89.6	2.00	2.06		
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.35	89.2	6.00	2.31		
Total BTEX	<0.300	0.300	02/09/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	112	16.0	02/10/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	194	97.1	200	5.19	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	198	99.1	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 91.7 % 41-142

Surrogate: 1-Chlorooctadecane 94.5 % 37.6-147

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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: 02/05/2019  
Reported: 02/11/2019  
Project Name: NBR STATE #1 SWD  
Project Number: ( 1/20/19 )  
Project Location: OXY

Sampling Date: 01/31/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 2' (H900402-03)**

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	02/10/2019	ND	416	104	400	0.00		

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

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: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 01/31/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ SURFACE (H900402-04)**

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	02/09/2019	ND	1.93	96.4	2.00	3.08		
Toluene*	<0.050	0.050	02/09/2019	ND	1.83	91.5	2.00	3.45		
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	1.79	89.6	2.00	2.06		
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.35	89.2	6.00	2.31		
Total BTEX	<0.300	0.300	02/09/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	17200	16.0	02/10/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	194	97.1	200	5.19	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	198	99.1	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 85.4 % 41-142

Surrogate: 1-Chlorooctadecane 89.3 % 37.6-147

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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: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 01/31/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 1' (H900402-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2019	ND	2.10	105	2.00	4.89	
Toluene*	<0.050	0.050	02/09/2019	ND	2.09	105	2.00	5.06	
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	2.02	101	2.00	6.29	
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.83	97.1	6.00	6.14	
Total BTEX	<0.300	0.300	02/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/10/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	194	97.1	200	5.19	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	198	99.1	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 85.4 % 41-142

Surrogate: 1-Chlorooctadecane 88.0 % 37.6-147

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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: 02/05/2019  
Reported: 02/11/2019  
Project Name: NBR STATE #1 SWD  
Project Number: ( 1/20/19 )  
Project Location: OXY

Sampling Date: 01/31/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 2' (H900402-06)****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	02/10/2019	ND	432	108	400	0.00	

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\*=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





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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: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 01/31/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ SURFACE (H900402-07)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2019	ND	2.10	105	2.00	4.89	
Toluene*	<0.050	0.050	02/09/2019	ND	2.09	105	2.00	5.06	
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	2.02	101	2.00	6.29	
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.83	97.1	6.00	6.14	
Total BTEX	<0.300	0.300	02/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	28000	16.0	02/10/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	194	97.1	200	5.19	
DRO >C10-C28*	11.2	10.0	02/09/2019	ND	198	99.1	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 73.7 % 41-142

Surrogate: 1-Chlorooctadecane 78.4 % 37.6-147

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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: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 01/31/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 1' (H900402-08)**

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	02/09/2019	ND	2.10	105	2.00	4.89	
Toluene*	<0.050	0.050	02/09/2019	ND	2.09	105	2.00	5.06	
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	2.02	101	2.00	6.29	
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.83	97.1	6.00	6.14	
Total BTEX	<0.300	0.300	02/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/10/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	194	97.1	200	5.19	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	198	99.1	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 86.2 % 41-142

Surrogate: 1-Chlorooctadecane 89.0 % 37.6-147

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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: 02/05/2019  
Reported: 02/11/2019  
Project Name: NBR STATE #1 SWD  
Project Number: ( 1/20/19 )  
Project Location: OXY

Sampling Date: 01/31/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 2' (H900402-09)****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>480</b>	16.0	02/10/2019	ND	432	108	400	0.00	

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

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: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 01/31/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ SURFACE (H900402-10)**

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	02/09/2019	ND	2.10	105	2.00	4.89	
Toluene*	<0.050	0.050	02/09/2019	ND	2.09	105	2.00	5.06	
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	2.02	101	2.00	6.29	
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.83	97.1	6.00	6.14	
Total BTEX	<0.300	0.300	02/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	46000	16.0	02/10/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	194	97.1	200	5.19	
DRO >C10-C28*	54.3	10.0	02/09/2019	ND	198	99.1	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 87.5 % 41-142

Surrogate: 1-Chlorooctadecane 93.6 % 37.6-147

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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: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 01/31/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ 1' (H900402-11)**

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	02/09/2019	ND	2.10	105	2.00	4.89	
Toluene*	<0.050	0.050	02/09/2019	ND	2.09	105	2.00	5.06	
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	2.02	101	2.00	6.29	
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.83	97.1	6.00	6.14	
Total BTEX	<0.300	0.300	02/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/10/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	194	97.1	200	5.19	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	198	99.1	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 87.7 % 41-142

Surrogate: 1-Chlorooctadecane 92.1 % 37.6-147

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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: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 02/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ 2' (H900402-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	02/10/2019	ND	432	108	400	0.00		

**Sample ID: SP 4 @ 3' (H900402-13)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/10/2019	ND	432	108	400	0.00	

**Sample ID: SP 4 @ 4' (H900402-14)**

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	02/10/2019	ND	432	108	400	0.00		

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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: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 02/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ SURFACE (H900402-15)**

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	02/09/2019	ND	2.10	105	2.00	4.89	
Toluene*	<0.050	0.050	02/09/2019	ND	2.09	105	2.00	5.06	
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	2.02	101	2.00	6.29	
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.83	97.1	6.00	6.14	
Total BTEX	<0.300	0.300	02/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	42000	16.0	02/10/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	194	97.1	200	5.19	
DRO >C10-C28*	239	10.0	02/09/2019	ND	198	99.1	200	4.51	
EXT DRO >C28-C36	49.1	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 92.4 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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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: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 02/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ 1' (H900402-16)**

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	02/09/2019	ND	2.10	105	2.00	4.89		
Toluene*	<0.050	0.050	02/09/2019	ND	2.09	105	2.00	5.06		
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	2.02	101	2.00	6.29		
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.83	97.1	6.00	6.14		
Total BTEX	<0.300	0.300	02/09/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/10/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	194	97.1	200	5.19	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	198	99.1	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 85.4 % 41-142

Surrogate: 1-Chlorooctadecane 88.8 % 37.6-147

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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: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 02/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ 2' (H900402-17)**

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	02/10/2019	ND	432	108	400	0.00		

**Sample ID: SP 5 @ 3' (H900402-18)**

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	02/10/2019	ND	432	108	400	0.00	

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**Analytical Results For:**

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

Received: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 02/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 6 @ SURFACE (H900402-19)**

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	02/09/2019	ND	2.10	105	2.00	4.89	
Toluene*	<0.050	0.050	02/09/2019	ND	2.09	105	2.00	5.06	
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	2.02	101	2.00	6.29	
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.83	97.1	6.00	6.14	
Total BTEX	<0.300	0.300	02/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	46400	16.0	02/10/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	194	97.1	200	5.19	
DRO >C10-C28*	957	10.0	02/09/2019	ND	198	99.1	200	4.51	
EXT DRO >C28-C36	185	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 89.8 % 41-142

Surrogate: 1-Chlorooctadecane 133 % 37.6-147

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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: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 02/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 6 @ 1' (H900402-20)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2019	ND	2.10	105	2.00	4.89	
Toluene*	<0.050	0.050	02/09/2019	ND	2.09	105	2.00	5.06	
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	2.02	101	2.00	6.29	
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.83	97.1	6.00	6.14	
Total BTEX	<0.300	0.300	02/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	02/10/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	194	97.1	200	5.19	
DRO >C10-C28*	40.3	10.0	02/09/2019	ND	198	99.1	200	4.51	
EXT DRO >C28-C36	23.4	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 87.3 % 41-142

Surrogate: 1-Chlorooctadecane 91.0 % 37.6-147

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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: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 02/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 6 @ 2' (H900402-21)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	02/10/2019	ND	432	108	400	0.00		

**Sample ID: SP 6 @ 3' (H900402-22)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	02/10/2019	ND	432	108	400	0.00	

**Sample ID: SP 6 @ 4' (H900402-23)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/10/2019	ND	432	108	400	0.00		

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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: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 02/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 7 @ SURFACE (H900402-24)**

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	02/09/2019	ND	2.10	105	2.00	4.89	
Toluene*	<0.050	0.050	02/09/2019	ND	2.09	105	2.00	5.06	
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	2.02	101	2.00	6.29	
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.83	97.1	6.00	6.14	
Total BTEX	<0.300	0.300	02/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 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	34000	16.0	02/10/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2019	ND	194	97.1	200	5.19	
DRO >C10-C28*	530	10.0	02/09/2019	ND	198	99.1	200	4.51	
EXT DRO >C28-C36	111	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 88.7 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

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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: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 02/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 7 @ 1' (H900402-25)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/09/2019	ND	2.10	105	2.00	4.89		
Toluene*	<0.050	0.050	02/09/2019	ND	2.09	105	2.00	5.06		
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	2.02	101	2.00	6.29		
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.83	97.1	6.00	6.14		
Total BTEX	<0.300	0.300	02/09/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	160	16.0	02/10/2019	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	02/09/2019	ND	194	97.1	200	5.19	
DRO >C10-C28*	23.2	10.0	02/09/2019	ND	198	99.1	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 89.2 % 41-142

Surrogate: 1-Chlorooctadecane 92.8 % 37.6-147

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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: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 02/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 7 @ 2' (H900402-26)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/10/2019	ND	416	104	400	3.77		

**Sample ID: SP 7 @ 3' (H900402-27)**

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	02/10/2019	ND	416	104	400	3.77	

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

Received: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 02/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 8 @ SURFACE (H900402-28)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2019	ND	2.10	105	2.00	4.89	
Toluene*	<0.050	0.050	02/09/2019	ND	2.09	105	2.00	5.06	
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	2.02	101	2.00	6.29	
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.83	97.1	6.00	6.14	
Total BTEX	<0.300	0.300	02/09/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48800	16.0	02/10/2019	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	02/09/2019	ND	189	94.4	200	5.88	
DRO >C10-C28*	450	10.0	02/09/2019	ND	193	96.4	200	5.87	QR-03, QM-07
EXT DRO >C28-C36	89.0	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 86.2 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Received: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 02/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 8 @ 1' (H900402-29)**

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	02/09/2019	ND	2.10	105	2.00	4.89	
Toluene*	<0.050	0.050	02/09/2019	ND	2.09	105	2.00	5.06	
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	2.02	101	2.00	6.29	
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.83	97.1	6.00	6.14	
Total BTEX	<0.300	0.300	02/09/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/10/2019	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	02/09/2019	ND	189	94.4	200	5.88	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	193	96.4	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 82.8 % 41-142

Surrogate: 1-Chlorooctadecane 84.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 02/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 9 @ SURFACE (H900402-30)**

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	02/09/2019	ND	2.10	105	2.00	4.89	
Toluene*	<0.050	0.050	02/09/2019	ND	2.09	105	2.00	5.06	
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	2.02	101	2.00	6.29	
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.83	97.1	6.00	6.14	
Total BTEX	<0.300	0.300	02/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	43200	16.0	02/10/2019	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	02/09/2019	ND	189	94.4	200	5.88	
DRO >C10-C28*	63.6	10.0	02/09/2019	ND	193	96.4	200	5.87	
EXT DRO >C28-C36	10.8	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 87.0 % 41-142

Surrogate: 1-Chlorooctadecane 92.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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 Fax To: (575) 397-0397

Received: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 02/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 9 @ 1' (H900402-31)**

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	02/09/2019	ND	2.10	105	2.00	4.89	
Toluene*	<0.050	0.050	02/09/2019	ND	2.09	105	2.00	5.06	
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	2.02	101	2.00	6.29	
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.83	97.1	6.00	6.14	
Total BTEX	<0.300	0.300	02/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/10/2019	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	02/10/2019	ND	189	94.4	200	5.88	
DRO >C10-C28*	<10.0	10.0	02/10/2019	ND	193	96.4	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	02/10/2019	ND					

Surrogate: 1-Chlorooctane 91.8 % 41-142

Surrogate: 1-Chlorooctadecane 93.2 % 37.6-147

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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: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 02/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NORTH @ SURFACE (H900402-32)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/09/2019	ND	2.10	105	2.00	4.89		
Toluene*	<0.050	0.050	02/09/2019	ND	2.09	105	2.00	5.06		
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	2.02	101	2.00	6.29		
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.83	97.1	6.00	6.14		
Total BTEx	<0.300	0.300	02/09/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	02/10/2019	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	02/10/2019	ND	189	94.4	200	5.88	
DRO >C10-C28*	<10.0	10.0	02/10/2019	ND	193	96.4	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	02/10/2019	ND					

Surrogate: 1-Chlorooctane 85.8 % 41-142

Surrogate: 1-Chlorooctadecane 86.8 % 37.6-147

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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: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 02/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EAST @ SURFACE (H900402-33)**

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	02/09/2019	ND	2.10	105	2.00	4.89	
Toluene*	<0.050	0.050	02/09/2019	ND	2.09	105	2.00	5.06	
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	2.02	101	2.00	6.29	
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.83	97.1	6.00	6.14	
Total BTEX	<0.300	0.300	02/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 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	384	16.0	02/10/2019	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	02/10/2019	ND	189	94.4	200	5.88	
DRO >C10-C28*	<10.0	10.0	02/10/2019	ND	193	96.4	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	02/10/2019	ND					

Surrogate: 1-Chlorooctane 84.6 % 41-142

Surrogate: 1-Chlorooctadecane 86.0 % 37.6-147

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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: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 02/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WEST @ SURFACE (H900402-34)**

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	02/09/2019	ND	2.10	105	2.00	4.89	
Toluene*	<0.050	0.050	02/09/2019	ND	2.09	105	2.00	5.06	
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	2.02	101	2.00	6.29	
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.83	97.1	6.00	6.14	
Total BTEX	<0.300	0.300	02/09/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/10/2019	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	02/10/2019	ND	189	94.4	200	5.88	
DRO >C10-C28*	<10.0	10.0	02/10/2019	ND	193	96.4	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	02/10/2019	ND					

Surrogate: 1-Chlorooctane 81.9 % 41-142

Surrogate: 1-Chlorooctadecane 82.2 % 37.6-147

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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: 02/05/2019  
 Reported: 02/11/2019  
 Project Name: NBR STATE #1 SWD  
 Project Number: ( 1/20/19 )  
 Project Location: OXY

Sampling Date: 02/01/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SOUTH @ SURFACE (H900402-35)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2019	ND	2.10	105	2.00	4.89	
Toluene*	<0.050	0.050	02/09/2019	ND	2.09	105	2.00	5.06	
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	2.02	101	2.00	6.29	
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.83	97.1	6.00	6.14	
Total BTX	<0.300	0.300	02/09/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	02/10/2019	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	02/10/2019	ND	189	94.4	200	5.88	
DRO >C10-C28*	<10.0	10.0	02/10/2019	ND	193	96.4	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	02/10/2019	ND					

Surrogate: 1-Chlorooctane 81.1 % 41-142

Surrogate: 1-Chlorooctadecane 82.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

Celey D. Keene, Lab Director/Quality Manager

Page 32 of 35



# ORDINAL 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: W. D. Hirsch					
City: Hobbs		Address:					
State: NM zip: 88241		City:					
Phone #: 575-397-6388		State:					
Fax #: 575-397-0397		Zip:					
Project #: Project Owner: Oxy							
Project Name: NBR State #1 SWD 1-20-19							
Project Location:							
Sampler Name: Jeff Ornelas							
FOR LAB USE ONLY							
Lab I.D.		Sample I.D.					
H900402		SP1 @ SURFACE		DATE		TIME	
1		SP1 @ 1'		1-31-19		11:11 AM	
2		SP1 @ 2		1-31-19		11:33 AM	
3		SP2 @ SURFACE		1-31-19		11:49 AM	
4		SP2 @ 1'		1-31-19		1:01 PM	
5		SP2 @ 2'		1-31-19		1:32 PM	
6		SP3 @ SURFACE		1-31-19		2:19 PM	
7		SP3 @ 1'		1-31-19		2:37 PM	
8		SP3 @ 2'		1-31-19		2:51 PM	
9		SP4 @ SURFACE		1-31-19		3:15 PM	
10							
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Relinquished By: Jeff Ornelas		Received By: [Signature]					
Date: 2-1-19		Time: 5:00					
Relinquished By: [Signature]		Received By: [Signature]					
Date: 2-5-19		Time: 8:30					
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other:		Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>			
-5.66 #99		Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>			
		REMARKS:					
		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Add'l Phone #:			
		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Add'l Fax #:			

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Page 33 of 35



## ORDINAL LABORATORIES

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## 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: W. D. Hirsch																					
City: Hobbs		Address:																					
State: NM Zip: 88241																							
Phone #: 575-397-6388																							
Fax #: 575-397-0397																							
Project #:																							
Project Name: NBR STATE #1 SWD - 1-20-19																							
Project Location:																							
Sampler Name: Jeff Ornelas																							
For Lab Use Only																							
Lab I.D.																							
Sample I.D.																							
H900402																							
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SP6 @ SURFACE																							
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3:21 PM																							
2-1-19																							

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56 jo 46 eba



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 4

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: W. D. Dittich																							
State: NM Zip: 88241																											
Phone #: 575-397-6388				Address:																							
Fax #: 575-397-0397																											
Project #: Project Owner: Oxy				City:																							
Project Name: NBR STATE #1 SWD - 1-20-19				State: Zip:																							
Project Location:				Phone #:																							
Fax #:																											
Sample Name: Jeff Ornelas				PRESERV				SAMPLING																			
FOR LAB USE ONLY																											
Lab I.D.				Sample I.D.																							
H400402				(G)RAB OR (C)OMP.																							
				# CONTAINERS																							
				GROUNDWATER																							
				WASTEWATER																							
				SOIL																							
				OIL																							
				SLUDGE																							
				OTHER :																							
				ACID/BASE:																							
				ICE / COOL																							
				OTHER :																							
31				SP6 @ 2'				DATE				TIME				BTEx				TPH Extended				C1			
22				SP6 @ 3'				2-1-19				11:25 AM															
23				SP6 @ 4'				2-1-19				11:41 AM															
24				SP7 @ SURFACE				2-1-19				11:59 AM															
25				SP7 @ 1'				2-1-19				12:59 PM															
26				SP7 @ 2'				2-1-19				1:11 PM															
27				SP7 @ 3'				2-1-19				1:22 PM															
28				SP8 @ SURFACE				2-1-19				1:37 PM															
29				SP8 @ 1'				2-1-19				1:52 PM															
30				SP9 @ SURFACE				2-1-19				1:59 PM															
								2-1-19				2:12 PM															
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Relinquished By: Jeff Ornelas Date: 2-1-19 Time: 5:00 Received By: [Signature] Date: 2-5-19 Time: 8:30																Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:											
Reinforced By: [Signature]																REMARKS:											
Delivered By: (Circle One) <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Bus <input type="checkbox"/> Other: -5:00 hrs																Sample Condition <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: [Signature] (Initials)							

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53 jo 53 eba



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: NBR STATE #1 SWD - 1-20-19

Project Location:

Sampler Name: Jeff Ornelas

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H900402

31

32

33

34

35

SP9 @ 1'

NORTH @ SURFACE

EAST @ SURFACE

WEST @ SURFACE

SOUTH @ SURFACE

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE TIME

BTEX

TPH Extended

CI

BILL TO

P.O. #:

Company: Oxy

Attn: L.J. Dittich

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Relinquished By:

Date: 2-1-19

Received By:

Date: 2-1-19

Time: 5:00

Time: 2:30

Time: 2:45 PM

Time: 2:45 PM

Time: 2:45 PM

Time: 2:45 PM

Time: 2:45 PM

Relinquished By:

Date: 2-5-19

Received By:

Date: 2-5-19

Time: 2:30

Time: 2:45 PM

Time: 2:45 PM

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Delivered By: (Circle One)

Date: 2-5-19

Received By:

Date: 2-5-19

Time: 2:30

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Sampler - UPS - Bus - Other:

Date: 2-5-19

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Date: 2-5-19

Time: 2:30

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





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

May 28, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NBR STATE #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 05/20/19 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 1 (H901816-01)**

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	05/24/2019	ND	2.01	101	2.00	6.83	
Toluene*	<0.050	0.050	05/24/2019	ND	2.11	105	2.00	5.54	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	2.02	101	2.00	6.59	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	6.08	101	6.00	6.68	
Total BTEX	<0.300	0.300	05/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/28/2019	ND	384	96.0	400	4.08	

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	05/22/2019	ND	190	95.0	200	4.70	
DRO >C10-C28*	<10.0	10.0	05/22/2019	ND	198	98.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	05/22/2019	ND					

Surrogate: 1-Chlorooctane 89.4 % 41-142

Surrogate: 1-Chlorooctadecane 91.9 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 2 (H901816-02)**

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	05/24/2019	ND	2.01	101	2.00	6.83	
Toluene*	<0.050	0.050	05/24/2019	ND	2.11	105	2.00	5.54	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	2.02	101	2.00	6.59	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	6.08	101	6.00	6.68	
Total BTEX	<0.300	0.300	05/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/28/2019	ND	384	96.0	400	4.08	

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	05/22/2019	ND	190	95.0	200	4.70	
DRO >C10-C28*	<10.0	10.0	05/22/2019	ND	198	98.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	05/22/2019	ND					

Surrogate: 1-Chlorooctane 93.6 % 41-142

Surrogate: 1-Chlorooctadecane 94.9 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 3 (H901816-03)**

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	05/24/2019	ND	2.01	101	2.00	6.83	
Toluene*	<0.050	0.050	05/24/2019	ND	2.11	105	2.00	5.54	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	2.02	101	2.00	6.59	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	6.08	101	6.00	6.68	
Total BTEX	<0.300	0.300	05/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/28/2019	ND	384	96.0	400	4.08	

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	05/22/2019	ND	190	95.0	200	4.70	
DRO >C10-C28*	<10.0	10.0	05/22/2019	ND	198	98.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	05/22/2019	ND					

Surrogate: 1-Chlorooctane 91.4 % 41-142

Surrogate: 1-Chlorooctadecane 93.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 4 (H901816-04)**

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	05/24/2019	ND	2.01	101	2.00	6.83	
Toluene*	<0.050	0.050	05/24/2019	ND	2.11	105	2.00	5.54	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	2.02	101	2.00	6.59	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	6.08	101	6.00	6.68	
Total BTEX	<0.300	0.300	05/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/28/2019	ND	384	96.0	400	4.08	

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	05/22/2019	ND	190	95.0	200	4.70	
DRO >C10-C28*	<10.0	10.0	05/22/2019	ND	198	98.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	05/22/2019	ND					

Surrogate: 1-Chlorooctane 90.9 % 41-142

Surrogate: 1-Chlorooctadecane 93.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 5 (H901816-05)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/24/2019	ND	2.01	101	2.00	6.83	
Toluene*	<0.050	0.050	05/24/2019	ND	2.11	105	2.00	5.54	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	2.02	101	2.00	6.59	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	6.08	101	6.00	6.68	
Total BTEX	<0.300	0.300	05/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/28/2019	ND	384	96.0	400	4.08	

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	05/23/2019	ND	190	95.0	200	4.70	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	198	98.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 80.4 % 41-142

Surrogate: 1-Chlorooctadecane 82.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 6 (H901816-06)**

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	05/24/2019	ND	2.01	101	2.00	6.83	
Toluene*	<0.050	0.050	05/24/2019	ND	2.11	105	2.00	5.54	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	2.02	101	2.00	6.59	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	6.08	101	6.00	6.68	
Total BTEX	<0.300	0.300	05/24/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/28/2019	ND	384	96.0	400	4.08	

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	05/23/2019	ND	190	95.0	200	4.70	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	198	98.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 87.7 % 41-142

Surrogate: 1-Chlorooctadecane 88.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 7 (H901816-07)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/24/2019	ND	2.01	101	2.00	6.83	
Toluene*	<0.050	0.050	05/24/2019	ND	2.11	105	2.00	5.54	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	2.02	101	2.00	6.59	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	6.08	101	6.00	6.68	
Total BTEX	<0.300	0.300	05/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/28/2019	ND	384	96.0	400	4.08	

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	05/23/2019	ND	190	95.0	200	4.70	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	198	98.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 89.1 % 41-142

Surrogate: 1-Chlorooctadecane 90.7 % 37.6-147

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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:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 8 (H901816-08)**

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	05/24/2019	ND	2.01	101	2.00	6.83	
Toluene*	<0.050	0.050	05/24/2019	ND	2.11	105	2.00	5.54	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	2.02	101	2.00	6.59	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	6.08	101	6.00	6.68	
Total BTEX	<0.300	0.300	05/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/28/2019	ND	384	96.0	400	4.08	

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	05/23/2019	ND	190	95.0	200	4.70	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	198	98.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 83.5 % 41-142

Surrogate: 1-Chlorooctadecane 83.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 9 (H901816-09)**

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	05/24/2019	ND	2.01	101	2.00	6.83	
Toluene*	<0.050	0.050	05/24/2019	ND	2.11	105	2.00	5.54	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	2.02	101	2.00	6.59	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	6.08	101	6.00	6.68	
Total BTEX	<0.300	0.300	05/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/28/2019	ND	384	96.0	400	4.08	

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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 93.1 % 41-142

Surrogate: 1-Chlorooctadecane 96.7 % 37.6-147

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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 10 (H901816-10)**

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	05/24/2019	ND	2.01	101	2.00	6.83	
Toluene*	<0.050	0.050	05/24/2019	ND	2.11	105	2.00	5.54	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	2.02	101	2.00	6.59	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	6.08	101	6.00	6.68	
Total BTEX	<0.300	0.300	05/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/28/2019	ND	384	96.0	400	4.08	

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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 87.1 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 11 (H901816-11)**

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	05/24/2019	ND	2.01	101	2.00	6.83	
Toluene*	<0.050	0.050	05/24/2019	ND	2.11	105	2.00	5.54	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	2.02	101	2.00	6.59	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	6.08	101	6.00	6.68	
Total BTEX	<0.300	0.300	05/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/28/2019	ND	384	96.0	400	4.08	

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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 87.3 % 41-142

Surrogate: 1-Chlorooctadecane 88.5 % 37.6-147

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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 12 (H901816-12)**

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	05/24/2019	ND	2.01	101	2.00	6.83	
Toluene*	<0.050	0.050	05/24/2019	ND	2.11	105	2.00	5.54	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	2.02	101	2.00	6.59	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	6.08	101	6.00	6.68	
Total BTEX	<0.300	0.300	05/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/28/2019	ND	384	96.0	400	4.08	

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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 90.0 % 41-142

Surrogate: 1-Chlorooctadecane 90.9 % 37.6-147

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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 13 (H901816-13)**

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	05/24/2019	ND	2.01	101	2.00	6.83		
Toluene*	<0.050	0.050	05/24/2019	ND	2.11	105	2.00	5.54		
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	2.02	101	2.00	6.59		
Total Xylenes*	<0.150	0.150	05/24/2019	ND	6.08	101	6.00	6.68		
Total BTEX	<0.300	0.300	05/24/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/28/2019	ND	384	96.0	400	4.08		

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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 82.6 % 41-142

Surrogate: 1-Chlorooctadecane 82.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 14 (H901816-14)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2019	ND	1.87	93.3	2.00	2.69	
Toluene*	<0.050	0.050	05/23/2019	ND	2.02	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	05/23/2019	ND	1.94	96.8	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/23/2019	ND	5.79	96.4	6.00	2.54	
Total BTEX	<0.300	0.300	05/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/28/2019	ND	384	96.0	400	4.08	

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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 92.5 % 41-142

Surrogate: 1-Chlorooctadecane 92.6 % 37.6-147

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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 15 (H901816-15)**

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	05/23/2019	ND	1.87	93.3	2.00	2.69	
Toluene*	<0.050	0.050	05/23/2019	ND	2.02	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	05/23/2019	ND	1.94	96.8	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/23/2019	ND	5.79	96.4	6.00	2.54	
Total BTEX	<0.300	0.300	05/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/28/2019	ND	384	96.0	400	4.08	

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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 90.8 % 41-142

Surrogate: 1-Chlorooctadecane 89.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 16 (H901816-16)**

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	05/23/2019	ND	1.87	93.3	2.00	2.69	
Toluene*	<0.050	0.050	05/23/2019	ND	2.02	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	05/23/2019	ND	1.94	96.8	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/23/2019	ND	5.79	96.4	6.00	2.54	
Total BTEX	<0.300	0.300	05/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/28/2019	ND	384	96.0	400	4.08		

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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 83.8 % 41-142

Surrogate: 1-Chlorooctadecane 86.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 17 (H901816-17)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2019	ND	1.87	93.3	2.00	2.69	
Toluene*	<0.050	0.050	05/23/2019	ND	2.02	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	05/23/2019	ND	1.94	96.8	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/23/2019	ND	5.79	96.4	6.00	2.54	
Total BTEX	<0.300	0.300	05/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/28/2019	ND	384	96.0	400	4.08	

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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 87.3 % 41-142

Surrogate: 1-Chlorooctadecane 91.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 18 (H901816-18)**

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	05/23/2019	ND	1.87	93.3	2.00	2.69	
Toluene*	<0.050	0.050	05/23/2019	ND	2.02	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	05/23/2019	ND	1.94	96.8	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/23/2019	ND	5.79	96.4	6.00	2.54	
Total BTEX	<0.300	0.300	05/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/28/2019	ND	384	96.0	400	4.08	

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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 88.7 % 41-142

Surrogate: 1-Chlorooctadecane 92.5 % 37.6-147

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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 19 (H901816-19)**

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	05/23/2019	ND	1.87	93.3	2.00	2.69	
Toluene*	<0.050	0.050	05/23/2019	ND	2.02	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	05/23/2019	ND	1.94	96.8	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/23/2019	ND	5.79	96.4	6.00	2.54	
Total BTEX	<0.300	0.300	05/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/28/2019	ND	384	96.0	400	4.08	

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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 87.6 % 41-142

Surrogate: 1-Chlorooctadecane 89.7 % 37.6-147

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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 20 (H901816-20)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2019	ND	1.87	93.3	2.00	2.69	
Toluene*	<0.050	0.050	05/23/2019	ND	2.02	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	05/23/2019	ND	1.94	96.8	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/23/2019	ND	5.79	96.4	6.00	2.54	
Total BTEX	<0.300	0.300	05/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/28/2019	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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 98.2 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 21 (H901816-21)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2019	ND	1.87	93.3	2.00	2.69	
Toluene*	<0.050	0.050	05/23/2019	ND	2.02	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	05/23/2019	ND	1.94	96.8	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/23/2019	ND	5.79	96.4	6.00	2.54	
Total BTEX	<0.300	0.300	05/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/28/2019	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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 92.3 % 41-142

Surrogate: 1-Chlorooctadecane 94.2 % 37.6-147

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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 22 (H901816-22)**

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	05/23/2019	ND	1.87	93.3	2.00	2.69	
Toluene*	<0.050	0.050	05/23/2019	ND	2.02	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	05/23/2019	ND	1.94	96.8	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/23/2019	ND	5.79	96.4	6.00	2.54	
Total BTEX	<0.300	0.300	05/23/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/28/2019	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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 88.6 % 41-142

Surrogate: 1-Chlorooctadecane 88.2 % 37.6-147

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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 23 (H901816-23)**

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	05/23/2019	ND	1.87	93.3	2.00	2.69	
Toluene*	<0.050	0.050	05/23/2019	ND	2.02	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	05/23/2019	ND	1.94	96.8	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/23/2019	ND	5.79	96.4	6.00	2.54	
Total BTEX	<0.300	0.300	05/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/28/2019	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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 90.3 % 41-142

Surrogate: 1-Chlorooctadecane 89.6 % 37.6-147

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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 24 (H901816-24)**

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	05/23/2019	ND	1.87	93.3	2.00	2.69	
Toluene*	<0.050	0.050	05/23/2019	ND	2.02	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	05/23/2019	ND	1.94	96.8	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/23/2019	ND	5.79	96.4	6.00	2.54	
Total BTEX	<0.300	0.300	05/23/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/28/2019	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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 97.5 % 41-142

Surrogate: 1-Chlorooctadecane 99.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 25 (H901816-25)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2019	ND	1.87	93.3	2.00	2.69	
Toluene*	<0.050	0.050	05/23/2019	ND	2.02	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	05/23/2019	ND	1.94	96.8	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/23/2019	ND	5.79	96.4	6.00	2.54	
Total BTEX	<0.300	0.300	05/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/28/2019	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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 85.3 % 41-142

Surrogate: 1-Chlorooctadecane 85.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 26 (H901816-26)**

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	05/23/2019	ND	1.87	93.3	2.00	2.69		
Toluene*	<0.050	0.050	05/23/2019	ND	2.02	101	2.00	4.93		
Ethylbenzene*	<0.050	0.050	05/23/2019	ND	1.94	96.8	2.00	3.87		
Total Xylenes*	<0.150	0.150	05/23/2019	ND	5.79	96.4	6.00	2.54		
Total BTEX	<0.300	0.300	05/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/28/2019	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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 86.9 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 27 (H901816-27)**

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	05/23/2019	ND	1.87	93.3	2.00	2.69	
Toluene*	<0.050	0.050	05/23/2019	ND	2.02	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	05/23/2019	ND	1.94	96.8	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/23/2019	ND	5.79	96.4	6.00	2.54	
Total BTEX	<0.300	0.300	05/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/28/2019	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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 75.9 % 41-142

Surrogate: 1-Chlorooctadecane 75.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 28 (H901816-28)**

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/23/2019	ND	1.87	93.3	2.00	2.69		
Toluene*	<0.050	0.050	05/23/2019	ND	2.02	101	2.00	4.93		
Ethylbenzene*	<0.050	0.050	05/23/2019	ND	1.94	96.8	2.00	3.87		
Total Xylenes*	<0.150	0.150	05/23/2019	ND	5.79	96.4	6.00	2.54		
Total BTEX	<0.300	0.300	05/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/28/2019	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	05/23/2019	ND	196	97.8	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	199	99.5	200	0.945	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 81.2 % 41-142

Surrogate: 1-Chlorooctadecane 81.1 % 37.6-147

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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 29 (H901816-29)**

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	05/24/2019	ND	1.87	93.3	2.00	2.69	
Toluene*	<0.050	0.050	05/24/2019	ND	2.02	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	1.94	96.8	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	5.79	96.4	6.00	2.54	
Total BTEX	<0.300	0.300	05/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/28/2019	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	05/23/2019	ND	186	93.0	200	3.77	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	253	127	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 76.9 % 41-142

Surrogate: 1-Chlorooctadecane 82.6 % 37.6-147

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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 30 (H901816-30)**

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	05/24/2019	ND	1.87	93.3	2.00	2.69	
Toluene*	<0.050	0.050	05/24/2019	ND	2.02	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	1.94	96.8	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	5.79	96.4	6.00	2.54	
Total BTEX	<0.300	0.300	05/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/28/2019	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	05/23/2019	ND	186	93.0	200	3.77	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	253	127	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 73.8 % 41-142

Surrogate: 1-Chlorooctadecane 79.1 % 37.6-147

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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 31 (H901816-31)**

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	05/24/2019	ND	1.87	93.3	2.00	2.69	
Toluene*	<0.050	0.050	05/24/2019	ND	2.02	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	1.94	96.8	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	5.79	96.4	6.00	2.54	
Total BTEX	<0.300	0.300	05/24/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/28/2019	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	05/23/2019	ND	186	93.0	200	3.77	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	253	127	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 79.6 % 41-142

Surrogate: 1-Chlorooctadecane 86.1 % 37.6-147

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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 32 (H901816-32)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/24/2019	ND	1.87	93.3	2.00	2.69	
Toluene*	<0.050	0.050	05/24/2019	ND	2.02	101	2.00	4.93	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	1.94	96.8	2.00	3.87	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	5.79	96.4	6.00	2.54	
Total BTEX	<0.300	0.300	05/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/28/2019	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	05/23/2019	ND	186	93.0	200	3.77	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	253	127	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 70.2 % 41-142

Surrogate: 1-Chlorooctadecane 75.9 % 37.6-147

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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 33 (H901816-33)**

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	05/24/2019	ND	1.87	93.3	2.00	2.69		
Toluene*	<0.050	0.050	05/24/2019	ND	2.02	101	2.00	4.93		
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	1.94	96.8	2.00	3.87		
Total Xylenes*	<0.150	0.150	05/24/2019	ND	5.79	96.4	6.00	2.54		
Total BTEX	<0.300	0.300	05/24/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/28/2019	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	05/23/2019	ND	186	93.0	200	3.77	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	253	127	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 81.5 % 41-142

Surrogate: 1-Chlorooctadecane 87.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 34 (H901816-34)**

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	05/24/2019	ND	1.99	99.4	2.00	3.36	
Toluene*	<0.050	0.050	05/24/2019	ND	2.14	107	2.00	3.40	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	2.04	102	2.00	2.10	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	6.13	102	6.00	1.39	
Total BTEX	<0.300	0.300	05/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/28/2019	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	05/23/2019	ND	186	93.0	200	3.77	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	253	127	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 71.4 % 41-142

Surrogate: 1-Chlorooctadecane 76.5 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: B 35 (H901816-35)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/24/2019	ND	1.99	99.4	2.00	3.36	
Toluene*	<0.050	0.050	05/24/2019	ND	2.14	107	2.00	3.40	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	2.04	102	2.00	2.10	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	6.13	102	6.00	1.39	
Total BTEX	<0.300	0.300	05/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/28/2019	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	05/23/2019	ND	186	93.0	200	3.77	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	253	127	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 74.3 % 41-142

Surrogate: 1-Chlorooctadecane 79.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SW 1 (H901816-36)**

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	05/24/2019	ND	1.99	99.4	2.00	3.36	
Toluene*	<0.050	0.050	05/24/2019	ND	2.14	107	2.00	3.40	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	2.04	102	2.00	2.10	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	6.13	102	6.00	1.39	
Total BTEX	<0.300	0.300	05/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/28/2019	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	05/23/2019	ND	186	93.0	200	3.77	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	253	127	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 80.4 % 41-142

Surrogate: 1-Chlorooctadecane 86.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/20/2019	Sampling Date:	05/16/2019
Reported:	05/28/2019	Sampling Type:	Soil
Project Name:	NBR STATE #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SW 2 (H901816-37)**

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	05/24/2019	ND	1.99	99.4	2.00	3.36	
Toluene*	<0.050	0.050	05/24/2019	ND	2.14	107	2.00	3.40	
Ethylbenzene*	<0.050	0.050	05/24/2019	ND	2.04	102	2.00	2.10	
Total Xylenes*	<0.150	0.150	05/24/2019	ND	6.13	102	6.00	1.39	
Total BTEX	<0.300	0.300	05/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/28/2019	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	05/23/2019	ND	186	93.0	200	3.77	
DRO >C10-C28*	<10.0	10.0	05/23/2019	ND	253	127	200	1.13	
EXT DRO >C28-C36	<10.0	10.0	05/23/2019	ND					

Surrogate: 1-Chlorooctane 75.3 % 41-142

Surrogate: 1-Chlorooctadecane 79.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

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

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

Celey D. Keene, Lab Director/Quality Manager

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

a: BBC International, Inc.

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

42/



34 jo 14 ega



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2024

<b>Company Name:</b> BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>					
<b>Project Manager:</b> Cliff Brunson				<b>P.O. #:</b>									
<b>Address:</b> P.O. Box 805				<b>Company:</b> Oxy									
<b>City:</b> Hobbs				<b>Attn:</b> D. HICK									
<b>State:</b> NM <b>zip:</b> 88241				<b>Address:</b>									
<b>Phone #:</b> 575-397-6388 <b>Fax #:</b> 575-397-0397				<b>City:</b>									
<b>Project #:</b>				<b>State:</b>									
<b>Project Name:</b> NBR State #1 SWD				<b>Zip:</b>									
<b>Project Location:</b> Lea County, NM				<b>Phone #:</b>									
<b>Sample Name:</b> Roger Hernandez				<b>Fax #:</b>									
<b>FOR LAB USE ONLY</b>													
<b>Lab I.D.</b>		<b>Sample I.D.</b>		<b>(G)RAB OR (C)OMP.</b>		<b># CONTAINERS</b>		<b>MATRIX</b>		<b>PRESERV.</b>		<b>SAMPLING</b>	
								<input type="checkbox"/> GROUNDWATER		<input type="checkbox"/> WASTEWATER		<input type="checkbox"/> SOIL	
								<input type="checkbox"/> OIL		<input type="checkbox"/> SLUDGE		<input type="checkbox"/> OTHER :	
								<input type="checkbox"/> ACID/BASE:		<input type="checkbox"/> ICE / COOL		<input type="checkbox"/> OTHER :	
								<b>DATE</b>		<b>TIME</b>			
H901416		B11		✓		5/16/19		9:50 AM		✓		BTEX	
12		B12		✓		5/16/19		10:00 AM		✓		CI	
13		B13		✓		5/16/19		10:10 AM		✓		TANEXT	
14		B14		✓		5/16/19		10:20 AM		✓			
15		B15		✓		5/16/19		10:30 AM		✓			
16		B16		✓		5/16/19		10:40 AM		✓			
17		B17		✓		5/16/19		10:50 AM		✓			
18		B18		✓		5/16/19		11:00 AM		✓			
19		B19		✓		5/16/19		11:10 AM		✓			
20		B20		✓		5/16/19		11:20 AM		✓			

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<b>Relinquished By:</b>	<b>Date:</b> 5/16/19	<b>Time:</b> 5:30p	<b>Received By:</b>	<b>Date:</b> 5-20-19	<b>Time:</b> 4:30pm	<b>Sample Condition:</b> <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	<b>CHECKED BY:</b> (Initials)
<b>Relinquished By:</b> [Signature]							
<b>Received By:</b> [Signature]							
<b>Delivered By: (Circle One)</b>							
<b>Sampler - UPS - Bus - Other:</b> 4.5e #97 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							

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



ARDINAL LABORATORIES

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3044

Company Name: BBC International, Inc.				<b>BILL TO</b>				ANALYSIS REQUEST													
Project Manager: Cliff Brunson				P.O. #:																	
Address: P.O. Box 805				Company: <i>Oxy</i>																	
City: Hobbs				Attn: <i>Bitton</i>																	
State: NM Zip: 88241				Address:																	
Phone #: 575-397-6388 Fax #: 575-397-0397				City:																	
Project #: Project Owner: Oxy				State: Zip:																	
Project Name: NBR State #1 SWD				Phone #:																	
Project Location: Lea County, NM				Fax #:																	
Sampler Name: Roger Hernandez																					
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV		SAMPLING									
								GROUNDWATER													
								WASTEWATER													
								SOIL													
								OIL													
								SLUDGE													
								OTHER :													
								ACID/BASE:													
								ICE / COOL													
								OTHER :													
21		B21		6		1						DATE		TIME		BTEX					
22		B22										5/16/19		11:40 AM		✓					
23		B23										5/16/19		11:55 AM		✓					
24		B24										5/16/19		12:00 PM		✓					
25		B25										5/16/19		12:15 PM		✓					
26		B26										5/16/19		12:30 PM		✓					
27		B27										5/16/19		12:40 PM		✓					
28		B28										5/16/19		12:50 PM		✓					
29		B29										5/16/19		1:00 PM		✓					
30		B30										5/16/19		1:10 PM		✓					
												5/16/19		1:20 PM		✓					
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 the client for the 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 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 services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																					
Relinquished By: <i>[Signature]</i>				Date: <i>5/16/19</i>		Received By: <i>[Signature]</i>		Date: <i>5/20/19</i>		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Relinquished By: <i>[Signature]</i>				Time: <i>5:30 PM</i>		Received By: <i>[Signature]</i>		Time: <i>4:30 PM</i>		Received By: <i>[Signature]</i>		REMARKS:									
Delivered By: (Circle One) <i>[Signature]</i>				Date: <i>4/5/20</i>		Time: <i>4:50</i>		Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact		CHECKED BY: <i>[Signature]</i>											
Sampler - UPS - Bus - Other: <i>[Signature]</i>				Date: <i>4/5/20</i>		Time: <i>4:50</i>		Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact		CHECKED BY: <i>[Signature]</i>											

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2/4

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State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	1RP-5346
Facility ID	
Application ID	

**Site Assessment/Characterization**

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

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

**370** (ft bgs)

Did this release impact groundwater or surface water?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?

☐ Yes ☒ No

Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?

☐ Yes ☒ No

Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?

☐ Yes ☒ No

Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?

☐ Yes ☒ No

Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of a wetland?

☐ Yes ☒ No

Are the lateral extents of the release overlying a subsurface mine?

☐ Yes ☒ No

Are the lateral extents of the release overlying an unstable area such as karst geology?

☐ Yes ☒ No

Are the lateral extents of the release within a 100-year floodplain?

☐ Yes ☒ No

Did the release impact areas not on an exploration, development, production, or storage site?

☐ Yes ☒ No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	1RP-5346
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Wade Dittrich Title: Environmental Coordinator

Signature:  Date: 2-12-19

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

**OCD Only**

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

State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	1RP-5346
Facility ID	
Application ID	

## Remediation Plan

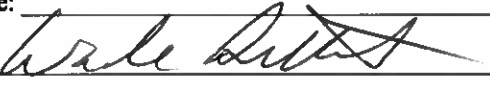
**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ 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: 2-12-19  
 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: \_\_\_\_\_

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Oil Conservation Division  
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Santa Fe, NM 87505

QUESTIONS  
  
Action 317184

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	317184
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nCH1903662255
Incident Name	NCH1903662255 NBR STATE 1 SWD @ 30-025-26976
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-26976] NBR #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	NBR STATE 1 SWD
Date Release Discovered	01/20/2019
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Produced Water   Released: 20 BBL   Recovered: 16 BBL   Lost: 4 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 317184

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 317184
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

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

The source of the release has been stopped	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 02/24/2024
--	---



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QUESTIONS, Page 3

Action 317184

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	317184
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	48800
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	1142
GRO+DRO	(EPA SW-846 Method 8015M)	957
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	05/10/2019
On what date will (or did) the final sampling or liner inspection occur	05/16/2019
On what date will (or was) the remediation complete(d)	06/10/2019
What is the estimated surface area (in square feet) that will be reclaimed	9218
What is the estimated volume (in cubic yards) that will be reclaimed	171
What is the estimated surface area (in square feet) that will be remediated	9218
What is the estimated volume (in cubic yards) that will be remediated	171

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 317184

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 317184
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 02/24/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5  
  
Action 317184

QUESTIONS (continued)

Operator:  OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:  16696
	Action Number:  317184
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 317184

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	317184
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	317183
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/16/2019
What was the (estimated) number of samples that were to be gathered	37
What was the sampling surface area in square feet	9218

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	9218
What was the total volume (cubic yards) remediated	171
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	9218
What was the total volume (in cubic yards) reclaimed	171
Summarize any additional remediation activities not included by answers (above)	Site was remediated

*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 (in .pdf format) 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.*

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.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 02/24/2024
--	---

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QUESTIONS, Page 7  
  
Action 317184

QUESTIONS (continued)

Operator:  OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:  16696
	Action Number:  317184
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No



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CONDITIONS  
  
Action 317184

CONDITIONS

Operator:  OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
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	Action Number:
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Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	4/24/2024