

Closure Report

ID #nAB1429334642

Site Description

Site Name:	CEDAR CANYON 27 #4
Company:	Oxy USA, Inc.
Legal Description:	U/D,S27, 24S ,29E,
County:	EDDY
GPS Coordinates:	N 32.193630,-103.979845

Release Data

Date of Release:	10/12/2014
Type of Release:	FRACKING FLUID - OIL, PRODUCED WATER
Source of Release:	HOSE RUPTURED
Volume of Release:	50.7 BBLS WATER
Volume Recovered:	10 BBLS WATER

Remediation Specifications

Remediation Parameters:	This site is listed on the Agreed Compliance Order of 4/5/19. This site had previously been remediated in 2014, but apparently no paperwork exists on the NMOCD website for closure verification. Therefore, OXY is submitting documentation that verifies remediation was conducted and completed per OCD approval.

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

Supporting Documentation

C-141, page 6	signed and included	
Site Diagram	Google Earth map with excavation depths & confirmation sample points	
Pictures	Closure photos	
Lab Summary/Analysis	Confirmation lab summary/analysis report	
Notifications	12/6/23, 12/14/23,1/23/24	

Request for Closure

Based on the completion of the remediation, OXY requests closure approval from NMOCD.

Cliff P. Brunson
President, BBC International, Inc.

2/27/2024

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	nAB1429334642
District RP	
Facility ID	
Application ID	


Closure

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator
Signature:  Date: 2-12-24
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

From: [Cliff P. Brunson](#)
To: OCD.Enviro@emnrd.nm.gov
Cc: [Wade Dittrich](#); [Tyson Pierce](#); [Kathy Sweeney](#); [Jennifer Gilkey](#)
Subject: OXY - Cedar Canyon 27 #4 (8/12/14) (nAB1429334642) (ACO) - Sampling Notification
Date: Friday, December 1, 2023 12:29:08 PM

This is a notification that BBC will conduct confirmation sampling on behalf of OXY at the Cedar Canyon 27 #4 (8/12/14) (nAB1429334642) (ACO) on Wednesday, December 6, 2023, at 9:00 a.m.

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







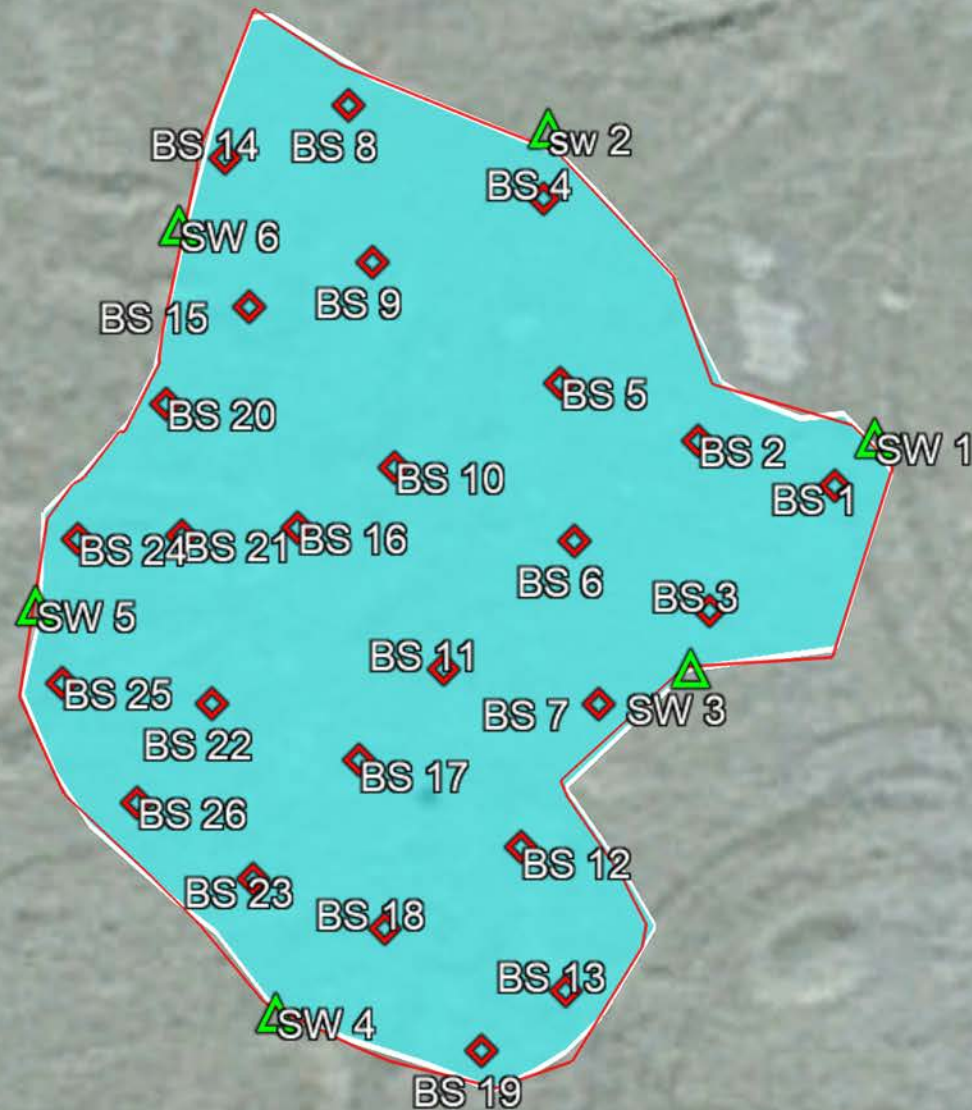
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OXY,CEDAR CANYON 27#4

LEAKM DATE :8/12/14
EDDY COUNTY ,NM
ID#nAB1429334642

Legend

-  2' EXCAVATION
-  BOTTOM CONFIRMATION SAMPLE POINTS
-  LEAK AREA
-  SIDEWALL CONFIRMATION SAMPLE POINTS



Google Earth

60 ft



OXY-CEDAR CANYON 27 #4 (8/12/14) SAMPLE DATE 12/06/23

BOTTOM SAMPLE POINTS

BS 1	N 32.193738	W-103.980513
BS 2	N 32.193750	W-103.980556
BS 3	N 32.193705	W-103.980553
BS 4	N 32.193814	W-103.980605
BS 5	N 32.193765	W-103.980600
BS 6	N 32.193723	W-103.980595
BS 7	N 32.193680	W-103.980588
BS 8	N 32.193839	W-103.980666
BS 9	N 32.193797	W-103.980659
BS 10	N 32.193743	W-103.980652
BS 11	N 32.193689	W-103.980636
BS 12	N 32.193642	W-103.980612
BS 13	N 32.193604	W-103.980598
BS 14	N 32.193825	W-103.980705
BS 15	N 32.193785	W-103.980397
BS 16	N 32.193727	W-103.980682
BS 17	N 32.193665	W-103.980663
BS 18	N 32.193621	W-103.980655
BS 19	N 32.193588	W-103.980625
BS 20	N 32.193760	W-103.980773
BS 21	N 32.193725	W-103.980718
BS 22	N 32.193680	W-103.980709
BS 23	N 32.193634	W-103.980696
BS 24	N 32.193724	W-103.980751
BS 25	N 32.193686	W-103.980756
BS 26	N 32.193654	W-103.980732

SIDEWALL SAMPLE POINTS

SW 1	N 32.193751	W-103.980501
SW 2	N 32.193833	W-103.980604
SW 3	N 32.193689	W-103.980559
SW 4	N 32.193598	W-103.980689
SW 5	N 32.193706	W-103.980764
SW 6	N 32.193807	W-103.980719

	Sample ID	BS 1@2'	BS 2@2'	BS 3@2'	BS 4@2'	BS 5 @2'	BS 6@2'	BS 7@2'	BS 8@2'	BS 9@2'	BS 10@2'	BS 11@2'	BS 12 @2'	BS 13@2'	BS 14@2'	BS 15@2'	BS 16@2'	BS 17@2'	BS 18@2'
Analyte	Date	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride		<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	16.0	32.0	16.0	16.0	32.0	16.0	32.0	16.0	16.0	16.0	16.0
GRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

	Sample ID	BS 19@2'	BS 20@2'	BS 21@2'	BS 22@2'	BS 23@2'	BS 24@2'	BS 25@2'	BS 26@2'
Analyte	Date	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride		32.0	16.0	16.0	<16.0	16.0	<16.0	<16.0	48.0
GRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

	Sample ID	SW 1	SW 2	SW 3	SW 4	SW 5	SW 6
Analyte	Date	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23	12/6/23
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride		16.0	<16.0	<16.0	<16.0	<16.0	<16.0
GRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

OXY, CEDAR CANYON 27 #4




LEAK DATE: 8/12/14

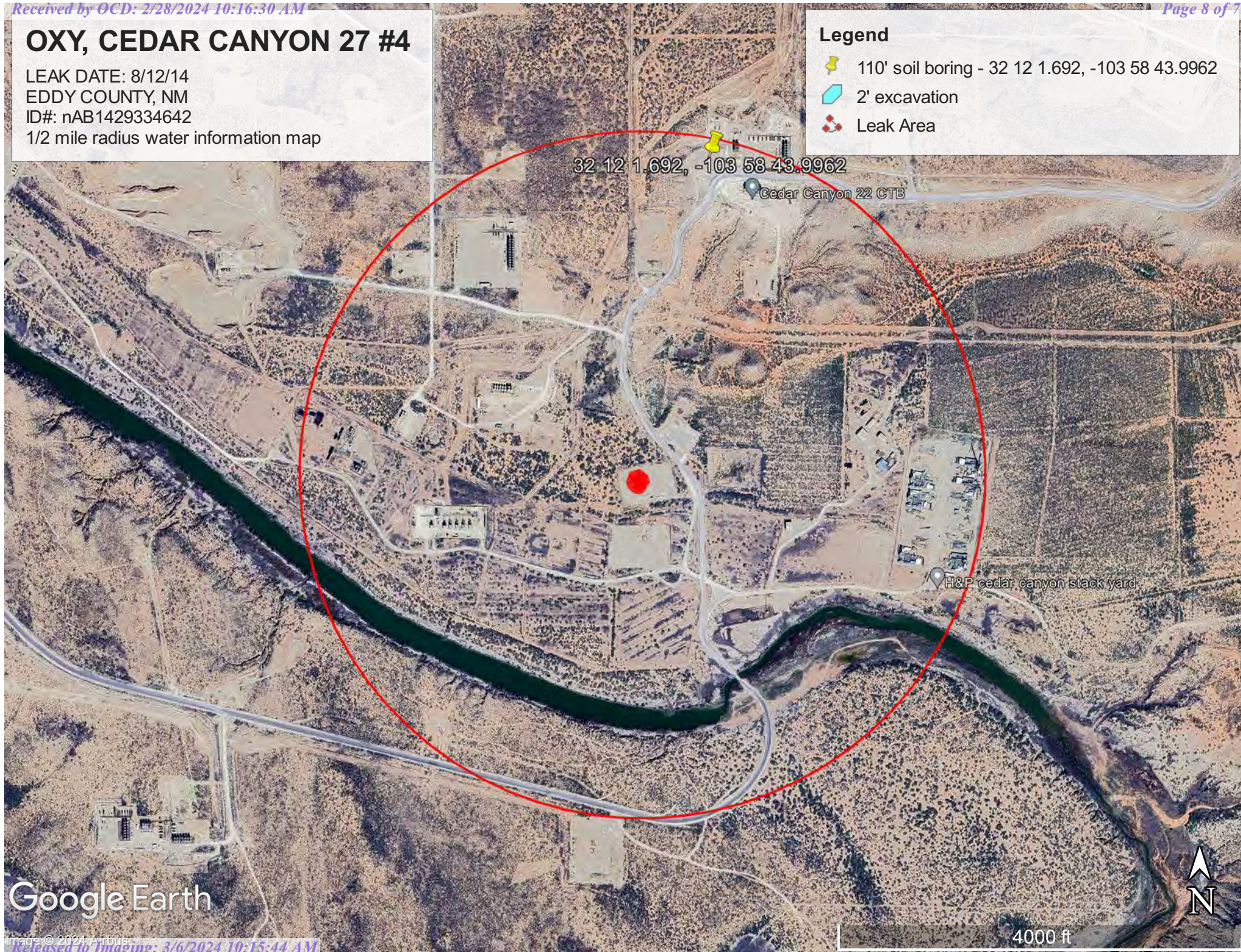
EDDY COUNTY, NM

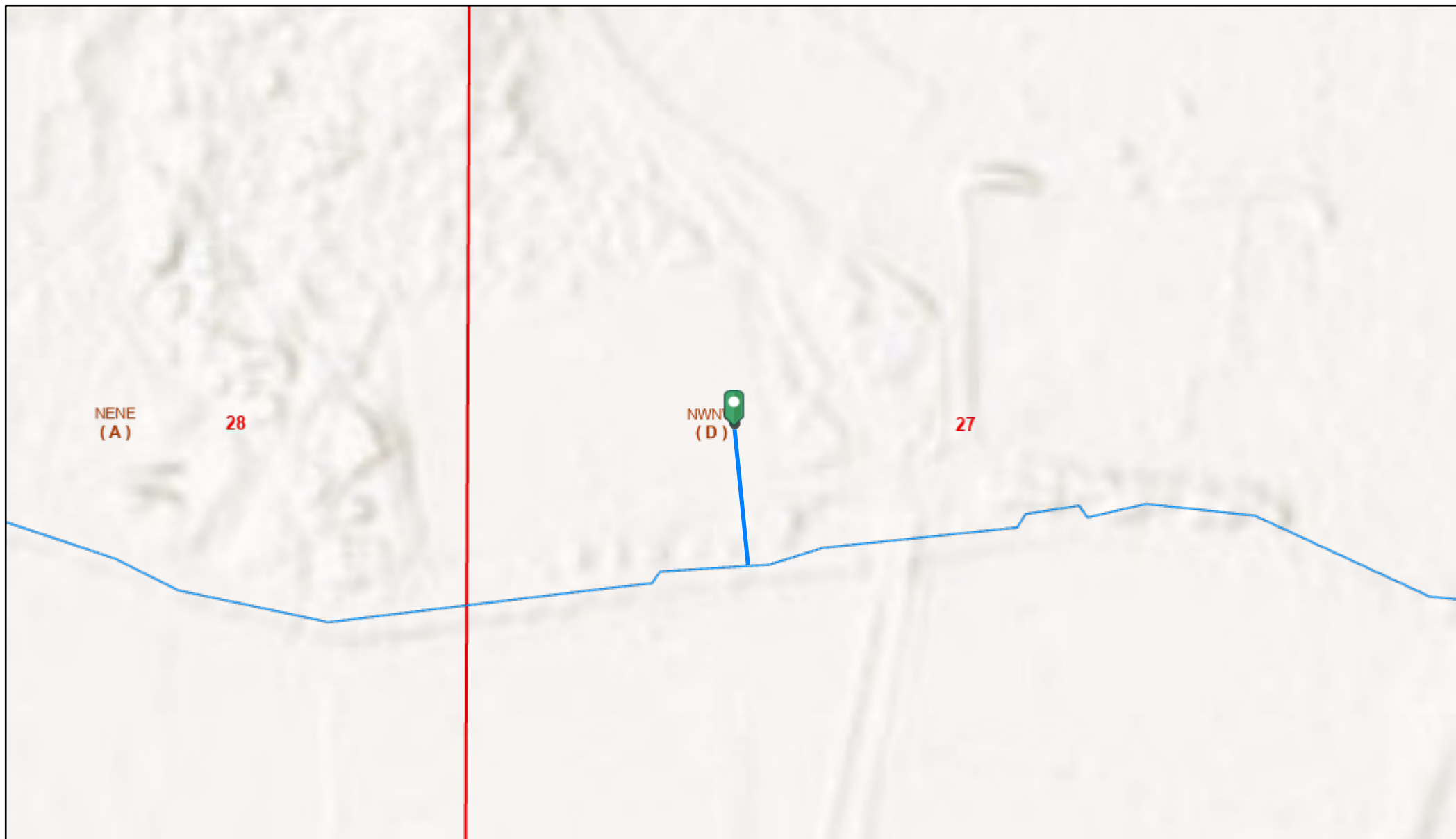
ID#: nAB1429334642

1/2 mile radius water information map

Legend

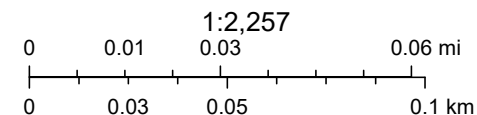
-  110' soil boring - 32 12 1.692, -103 58 43.9962
-  2' excavation
-  Leak Area



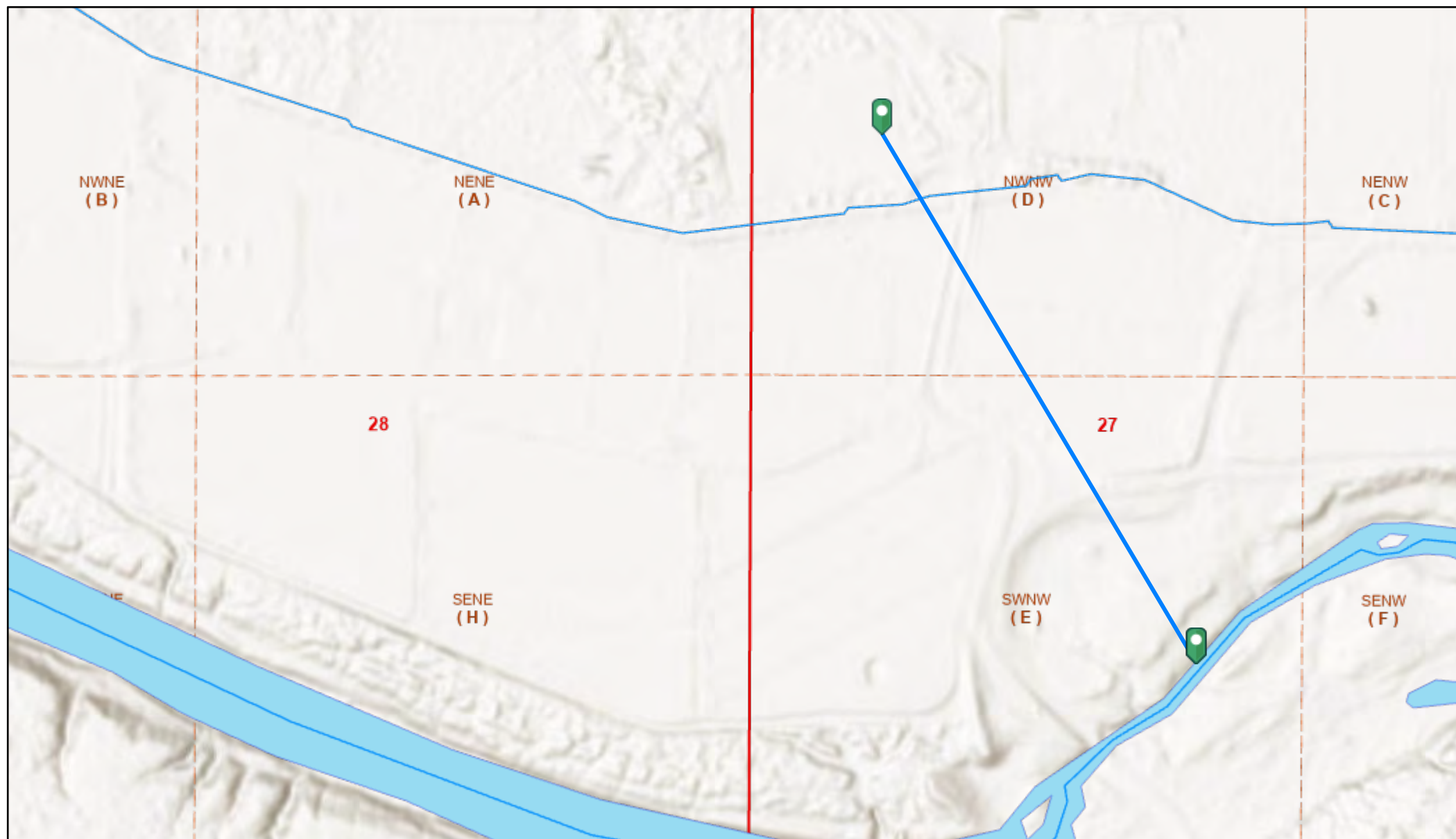


2/7/2024, 4:42:59 PM

- OSE Streams
- - - PLSS Second Division
- PLSS First Division



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, OCD, NM OSE, BLM



2/7/2024, 4:38:46 PM

 OSW Water Bodys  PLSS Second Division
 OSE Streams  PLSS First Division

1:4,514
 0 0.03 0.07 0.13 mi
 0 0.05 0.1 0.2 km

Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, OCD, NM OSE, BLM

National Flood Hazard Layer FIRMette



103°59'9"W 32°11'52"N



Released to Imaging: 3/6/2024 10:15:44 AM

1:6,000

103°58'31"W 32°11'22"N

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		Cross Sections with 1% Annual Chance Water Surface Elevation
OTHER FEATURES		Coastal Transect
		Base Flood Elevation Line (BFE)
OTHER FEATURES		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
OTHER FEATURES		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
MAP PANELS		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 2/27/2024 at 6:27 PM 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.

OXY, CEDAR CANYON 27 #4




LEAK DATE: 8-12-14

EDDY COUNTY, NM

ID#: nAB1429334642

KARST OCCURENCE POTENTIAL MAP

Legend

-  2' excavation
-  Leak Area
-  Medium



Google Earth

Image © 2024 Airbus

Released to Imaging: 3/6/2024 10:15:44 AM

300 ft



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04617 POD1	3	1	3	22	24S	29E	596241	3563113

Driller License: 1184	Driller Company: WEST TEXAS WATER WELL SERVICE	
Driller Name: RUSSELL SOUTHERLAND		
Drill Start Date: 05/31/2022	Drill Finish Date: 05/31/2022	Plug Date:
Log File Date: 06/28/2022	PCW Rcv Date:	Source:
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well: 110 feet	Depth Water:

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.

2/27/24 2:03 PM

POINT OF DIVERSION SUMMARY

F io. C-04617

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): Investigation Soil Boring
<input type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	

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

<input type="checkbox"/> Temporary Request - Requested Start Date: 5/1/22	Requested End Date: 5/31/22
---	-----------------------------

Plugging Plan of Operations Submitted? ☒ Yes ☐ No

1. APPLICANT(S)

Name: Oxy USA Inc.	Name: Ensolum, LLC
Contact or Agent: <input type="checkbox"/> check here if Agent	Contact or Agent: <input checked="" type="checkbox"/> check here if Agent
Mr. Wade Dittrich	Mr. Beaux Jennings
Mailing Address: PO Box 4294	Mailing Address: 601 N Marienfeld Street, Ste 400
City: Houston	City: Midland
State: TX Zip Code: 77210	State: TX Zip Code: 79701
Phone: 575-390-2828 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell	Phone: 210-219-8858 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell
Phone (Work):	Phone (Work):
E-mail (optional): wade_dittrich@oxy.com	E-mail (optional): bjennings@ensolum.com

OSE OIT MAY 9 2022 9:32

FOR OSE INTERNAL USE

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

File No.: C-04617	Trn. No.: 725746	Receipt No.: 2-44553
Trans Description (optional): 22 248 29E 3.1.3		
Sub-Basin: C	PCW/LOG Due Date: 5/13/23	

Page 1 of 3

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

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or 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"/> UTM (NAD83) (Meters) <input checked="" type="checkbox"/> Lat/Long (WGS84) (to the nearest 1/10 th of second)			
<input type="checkbox"/> NM West Zone <input type="checkbox"/> Zone 12N <input type="checkbox"/> NM East Zone <input type="checkbox"/> Zone 13N <input type="checkbox"/> NM Central Zone			
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
C-04617-POD SB1	-103.978888	32.200470	SW NW 1/4 of SW 1/4 of S22, T24S, R29E
NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions) Additional well descriptions are attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, how many _____ Other description relating well to common landmarks, streets, or other: Soil boring will be installed approximately 100' due west of on-site oil and gas well.			
Well is on land owned by: Private OXY USA INC			
Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, how many _____			
Approximate depth of well (feet): 110		Outside diameter of well casing (inches): 6	
Driller Name: West Texas Water Well Service - Ronny Keith		Driller License Number: WD-1184	

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

The investigation soil boring will be installed to a depth of approximately 110' below ground surface. The soil boring will be left open for approximately 72 hours, gauged with a water level meter to check for potential groundwater, then plugged in accordance with the associated Well Plugging Plan of Operations.

OSE DIT MAY 9 2022 09:32

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: C-04617

Trm No.: 725746

Page 2 of 3

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:

Exploratory: <input checked="" type="checkbox"/> Include a description of any proposed pump test, if applicable.	Pollution Control and/or Recovery: <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.	Construction De-Watering: <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.	Mine De-Watering: <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.
Monitoring: <input type="checkbox"/> Include the reason for the monitoring well, and, <input type="checkbox"/> The duration of the planned monitoring.	<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.	Ground Source Heat Pump: <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.	<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.

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Wade Dittrich, Beaux Jennings

Print Name(s)

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

Wade Dittrich

Applicant Signature

Beaux Jennings

Applicant Signature

Digitally signed by Beaux Jennings
Date: 2022.04.25 16:24:05 -05'00'

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 conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 13 day of May, 20 22, for the State Engineer,

Mike Hamman, P.E.

State Engineer

OSE DTI MAY 9 2022 09:32

By:

Signature

K. Parekh

Print

Kashyap Parekh

Title:

Print

Water Resource Manager I

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.:

C-04617

Trn No.:

725746

Page 3 of 3

**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: C 04617 POD1File Number: C 04617Trn Number: 725746

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-C2 No water shall be diverted from this well except for testing purposes which shall not exceed ten (10) cumulative days, and well shall be plugged or capped on or before , unless a permit to use water from this well is acquired from the Office of the State Engineer.
- 17-G If artesian water is encountered, the well driller shall comply with all rules and regulations pertaining to the drilling and casing of artesian wells.
- 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.

Trn Desc: C 04617 POD1

File Number: C 04617

Trn Number: 725746

page: 2

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 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.
- LOG The Point of Diversion C 04617 POD1 must be completed and the Well Log filed on or before 05/13/2023.

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: 05/09/2022	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 May A.D., 2022

Mike A. Hamman, P.E., State Engineer

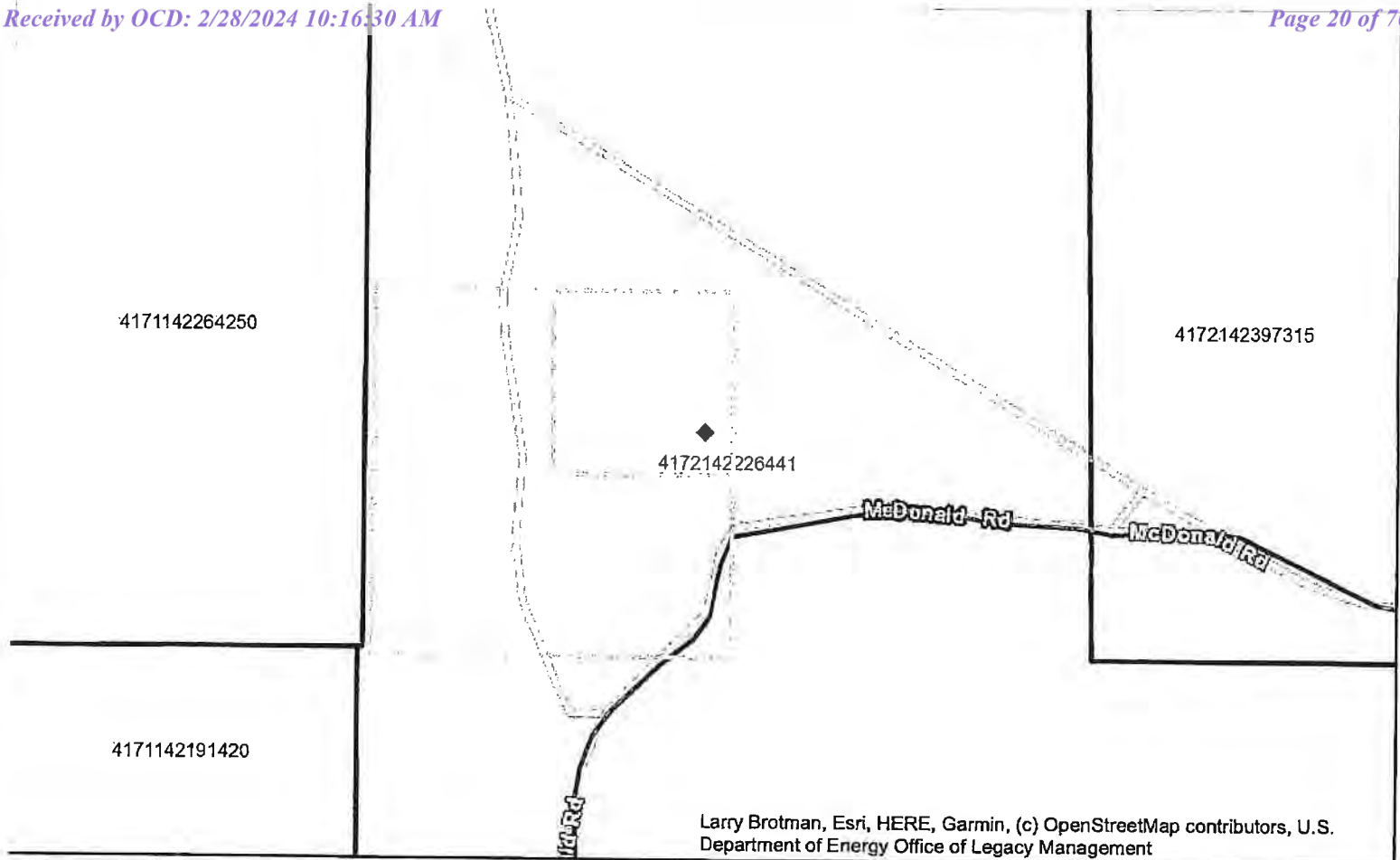
By: K. Parekh
KASHYAP PAREKH



Trn Desc: C 04617 POD1

File Number: C 04617

Trn Number: 725746

**Coordinates****UTM - NAD 83 (m) - Zone 13**

Easting 596242.135

Northing 3563113.078

State Plane - NAD 83 (f) - Zone E

Easting 650974.751

Northing 436844.054

Degrees Minutes Seconds

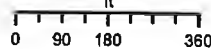
Latitude 32 : 12 : 1.692000

Longitude -103 : 58 : 43.996800

Location pulled from Coordinate Search

**NEW MEXICO OFFICE
OF THE
STATE ENGINEER**

1:4,514



N

M.TELLES

5/13/2022



Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that the data is accurate and complete. However, the user is responsible for verifying the accuracy and completeness of the data. The OSE does not warrant the accuracy or completeness of the data. The user is responsible for verifying the accuracy and completeness of the data.

Spatial Information**County:** Eddy**Groundwater Basin:** Carlsbad**Abstract Area:** Carlsbad 72-12-1**Carlsbad Underground Basin****Land Grant:****Not in Land Grant****Restrictions:****NA****PLSS Description****NESWNWSW Qtr of Sec 22 of 024S 029E**

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

Parcel Information**UPC/DocNum:** 4172142226441**Parcel Owner:** Oxy Usa Inc**Address:** Mc Donald Road Carlsbad 88220**Legal:** Quarter: Sw S: 22 T: 24S R: 29E Sese, W2Sw, Quarter: Se S: 22 T: 24S R: 29E S2Se**POD Information****Owner:****File Number:****POD Status:** NoData**Permit Status:** NoData**Permit Use:** NoData**Purpose:**

- | | | | | | | |
|--|---|---|--|---|---|---|
| <input checked="" type="checkbox"/> Calculated PLSS | <input type="checkbox"/> Cibola County Parcels 2021 | <input type="checkbox"/> Grant County Parcels 2021 | <input type="checkbox"/> Los Alamos County Parcels 2021 | <input type="checkbox"/> Rio Arriba County Parcels 2021 | <input type="checkbox"/> Santa Fe County Parcels 2021 | <input type="checkbox"/> Valencia County Parcels 2021 |
| <input checked="" type="checkbox"/> Coord Search Location | <input type="checkbox"/> Colfax County Parcels 2021 | <input type="checkbox"/> Harding County Parcels 2021 | <input type="checkbox"/> Luna County Parcels 2021 | <input type="checkbox"/> Roosevelt County Parcels 2021 | <input type="checkbox"/> Sierra County Parcels 2021 | <input checked="" type="checkbox"/> State Boundaries |
| <input type="checkbox"/> OSE District Boundary | <input type="checkbox"/> Curry County Parcels 2021 | <input type="checkbox"/> Hidalgo County Parcels 2021 | <input type="checkbox"/> McKinley County Parcels 2021 | <input type="checkbox"/> Sandoval County Parcels 2021 | <input type="checkbox"/> Socorro County Parcels 2021 | |
| <input type="checkbox"/> Bernalillo County Parcels 2021 | <input checked="" type="checkbox"/> De Baca County Parcels 2021 | <input checked="" type="checkbox"/> Guadalupe County Parcels 2021 | <input checked="" type="checkbox"/> Mora County Parcels 2021 | <input type="checkbox"/> San Juan County Parcels 2021 | <input type="checkbox"/> Taos County Parcels 2021 | |
| <input checked="" type="checkbox"/> Catron County Parcels 2021 | <input type="checkbox"/> Doña Ana County Parcels 2021 | <input type="checkbox"/> Lea County Parcels 2021 | <input type="checkbox"/> Otero County Parcels 2021 | <input type="checkbox"/> San Miguel County Parcels 2021 | <input type="checkbox"/> Torrance County Parcels 2021 | |
| <input type="checkbox"/> Chaves County Parcels 2021 | <input type="checkbox"/> Eddy County Parcels 2021 | <input type="checkbox"/> Lincoln County Parcels 2021 | <input checked="" type="checkbox"/> Quay County Parcels 2021 | <input checked="" type="checkbox"/> Union County Parcels 2021 | | |

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

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

Trn Nbr: 725746
File Nbr: C 04617

May. 13, 2022

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

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.

Sincerely,

A handwritten signature in blue ink, appearing to read "Megan Telles".

Megan Telles
(575) 622-6521

Enclosure

explore

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

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

Trn Nbr: 725746
File Nbr: C 04617

May. 13, 2022

BEAUX JENNINGS
ENSOLUM LLC
601 N MARIENFELD ST , STE 400
MIDLAND, TX 79701

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.

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Sincerely,

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Megen Telles
(575) 622-6521

Enclosure

explore



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (SB-1)		WELL TAG ID NO		OSE FILE NO(S) C 04617			
	WELL OWNER NAME(S) OXY USA INC				PHONE (OPTIONAL) 575-390-2828			
	WELL OWNER MAILING ADDRESS PO BOX 4294				CITY HOUSTON	STATE TX	ZIP 77210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 12	SECONDS 1.692 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
		LONGITUDE -103	58	43.9962 W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW 1/4 OF SW OF S22, T24S R29E								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1184		NAME OF LICENSED DRILLER RUSSELL SOUTHERLAND			NAME OF WELL DRILLING COMPANY WEST TEXAS WATER WELL SERVICE		
	DRILLING STARTED 5/31/2022	DRILLING ENDED 5/31/2022	DEPTH OF COMPLETED WELL (FT) 110	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
				NO CASING IN HOLE				
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				N/A				

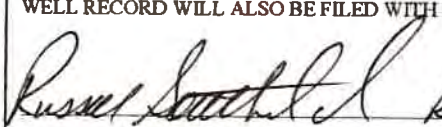
FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. C-4617-POD1 (SB-1)	POD NO. 1 (SB-1)	TRN NO. 725746
LOCATION Expl 24.29.22.313		WELL TAG ID NO. —
		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	12		CALICHE	Y ✓ N	
	12	20		SAND	Y ✓ N	
	20	23		SAND	Y ✓ N	
	23	30		YELLOW SANDY SHALE	Y ✓ N	
	30	35		RED-YELLOW SHALE	Y ✓ N	
	35	40		SAND	Y ✓ N	
	40	60		DAMP SAND	Y ✓ N	
	60	70		SANDY CLAY RED	Y ✓ N	
	70	80		DAMP SAND	Y ✓ N	
	80	100		DARK TAN SANDY CLAY	Y ✓ N	
	100	110		DARK SAND	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input checked="" type="checkbox"/> OTHER - SPECIFY: DRY HOLE					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: THE INVESTIGATION SOIL BORING WILL BE INSTALLED TO DEPTH OF APPROX. 110' BELOW GROUND SURFACE. THE SOIL BORING WILL BE LEFT OPEN FOR APPROX. 72 HOURS, GAUGED WITH WATER LEVEL METER TO CHECK FOR POTENTIAL GROUNDWATER, THEN PLUGGED IN ACCORDANCE WITH THE ASSOCIATED WELL PLUG PLAN OF OPERATIONS	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: OSE OF JUN 08 2022 PM 01:00	

6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.	
	 SIGNATURE OF DRILLER / PRINT SIGNED NAME	RUSSELL SOUTHERLAND 05/31/2022 DATE

FOR OSE INTERNAL USE

FILE NO. C-4617-2021 (SB-1)	POD NO. 1 (SB-1)	WR-20 WELL RECORD & LOG (Version 04/30/2019)
LOCATION Eff. 24.29.22.313	WELL TAG ID NO.	TRN NO. 725746
		PAGE 2 OF 2

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

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

Trn Nbr: 725746
File Nbr: C 04617
Well File Nbr: C 04617 POD1

Jun. 28, 2022

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

Greetings:

The above numbered permit was issued in your name on 05/13/2022.

The Well Record was received in this office on 06/28/2022, stating that it had been completed on 05/31/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 05/13/2023.

If you have any questions, please feel free to contact us.

Sincerely,

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

Maret Amaral
(575) 622-6521

drywell

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

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

Trn Nbr: 725746
File Nbr: C 04617
Well File Nbr: C 04617 POD1

Jun. 28, 2022

BEAUX JENNINGS
ENSOLUM LLC
601 N MARIENFELD ST , STE 400
MIDLAND, TX 79701

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Sincerely,

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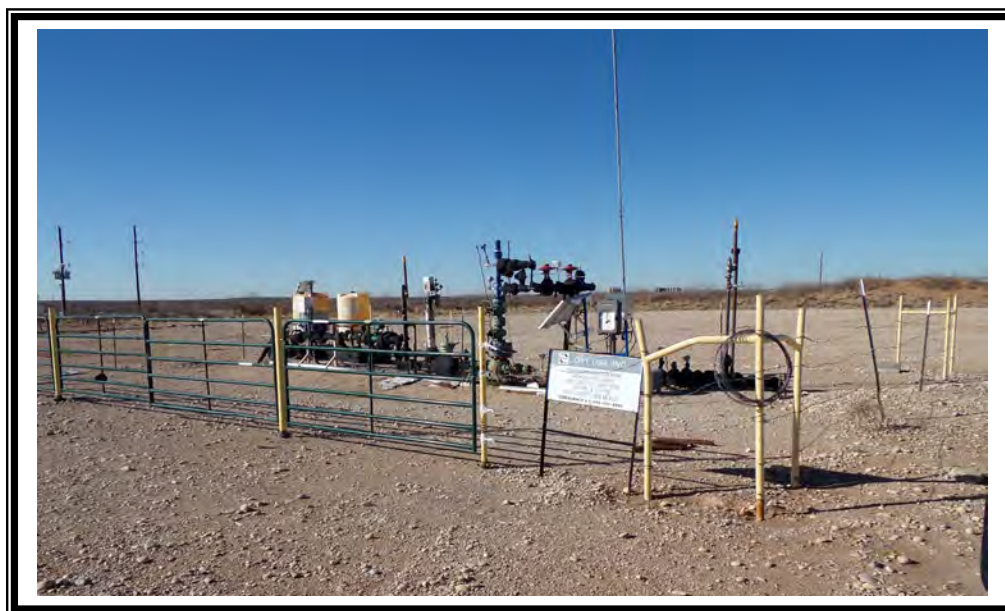
Maret Amaral
(575) 622-6521

drywell



OXY – CEDAR CANYON 27 #4 (8-12-14)

OXY-CEDAR CANYON 27#4 (8/12/14)





OXY – CEDAR CANYON 27 #4 (8-12-14)





OXY – CEDAR CANYON 27 #4 (8-12-14)





OXY – CEDAR CANYON 27 #4 (8-12-14)





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

December 14, 2023

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 27 # 4 - 8 - 12 - 14

Enclosed are the results of analyses for samples received by the laboratory on 12/08/23 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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.

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:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 1 @ 2' (H236591-01)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	1.98	99.2	2.00	0.567		
Toluene*	<0.050	0.050	12/11/2023	ND	2.08	104	2.00	0.450		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.09	105	2.00	0.116		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.32	105	6.00	0.186		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/11/2023	ND	448	112	400	3.64		

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	12/11/2023	ND	169	84.3	200	3.46	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	159	79.5	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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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:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 2 @ 2' (H236591-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	1.98	99.2	2.00	0.567		
Toluene*	<0.050	0.050	12/11/2023	ND	2.08	104	2.00	0.450		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.09	105	2.00	0.116		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.32	105	6.00	0.186		
Total BTEx	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/11/2023	ND	448	112	400	3.64		

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	12/11/2023	ND	169	84.3	200	3.46	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	159	79.5	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Analytical Results For:

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Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 3 @ 2' (H236591-03)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	1.98	99.2	2.00	0.567	
Toluene*	<0.050	0.050	12/11/2023	ND	2.08	104	2.00	0.450	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.09	105	2.00	0.116	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.32	105	6.00	0.186	
Total BTX	<0.300	0.300	12/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/11/2023	ND	448	112	400	3.64	

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	12/11/2023	ND	169	84.3	200	3.46	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	159	79.5	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Analytical Results For:

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Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 4 @ 2' (H236591-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	1.98	99.2	2.00	0.567		
Toluene*	<0.050	0.050	12/11/2023	ND	2.08	104	2.00	0.450		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.09	105	2.00	0.116		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.32	105	6.00	0.186		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/11/2023	ND	448	112	400	3.64		

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	12/11/2023	ND	169	84.3	200	3.46		
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	159	79.5	200	4.33		
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND						

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Analytical Results For:

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Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 5 @ 2' (H236591-05)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	1.98	99.2	2.00	0.567	
Toluene*	<0.050	0.050	12/11/2023	ND	2.08	104	2.00	0.450	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.09	105	2.00	0.116	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.32	105	6.00	0.186	
Total BTX	<0.300	0.300	12/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/11/2023	ND	448	112	400	3.64	

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	12/11/2023	ND	169	84.3	200	3.46	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	159	79.5	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 6 @ 2' (H236591-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	1.98	99.2	2.00	0.567		
Toluene*	<0.050	0.050	12/11/2023	ND	2.08	104	2.00	0.450		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.09	105	2.00	0.116		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.32	105	6.00	0.186		
Total BTEx	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/11/2023	ND	448	112	400	3.64		

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	12/11/2023	ND	169	84.3	200	3.46	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	159	79.5	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 7 @ 2' (H236591-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90		
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/11/2023	ND	448	112	400	3.64		

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	12/11/2023	ND	169	84.3	200	3.46		
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	159	79.5	200	4.33		
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND						

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 8 @ 2' (H236591-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90		
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

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	12/11/2023	ND	432	108	400	3.64		

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	12/11/2023	ND	169	84.3	200	3.46		
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	159	79.5	200	4.33		
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND						

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 9 @ 2' (H236591-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90		
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

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	12/11/2023	ND	432	108	400	3.64		

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	12/11/2023	ND	169	84.3	200	3.46		
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	159	79.5	200	4.33		
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND						

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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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:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 10 @ 2' (H236591-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90		
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

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	12/11/2023	ND	432	108	400	3.64		

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	12/12/2023	ND	169	84.3	200	3.46		
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	159	79.5	200	4.33		
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND						

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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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:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 11 @ 2' (H236591-11)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90	
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55	
Total BTEX	<0.300	0.300	12/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

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	12/11/2023	ND	432	108	400	3.64		

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	12/12/2023	ND	208	104	200	4.11	
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	195	97.7	200	4.41	QR-03
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 12 @ 2' (H236591-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90		
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/11/2023	ND	432	108	400	3.64		

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	12/12/2023	ND	208	104	200	4.11		
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	195	97.7	200	4.41		
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND						

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 13 @ 2' (H236591-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90		
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

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	12/11/2023	ND	432	108	400	3.64		

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	12/13/2023	ND	208	104	200	4.11	
DRO >C10-C28*	<10.0	10.0	12/13/2023	ND	195	97.7	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	12/13/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 49.1-148

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Analytical Results For:

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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 14 @ 2' (H236591-14)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90		
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

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	12/11/2023	ND	432	108	400	3.64		

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	12/12/2023	ND	208	104	200	4.11		
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	195	97.7	200	4.41		
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND						

Surrogate: 1-Chlorooctane 54.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 49.6 % 49.1-148

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Analytical Results For:

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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 15 @ 2' (H236591-15)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90		
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

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	12/11/2023	ND	432	108	400	3.64		

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	12/12/2023	ND	208	104	200	4.11		
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	195	97.7	200	4.41		
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND						

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 16 @ 2' (H236591-16)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90		
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

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	12/11/2023	ND	432	108	400	3.64		

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	12/12/2023	ND	208	104	200	4.11		
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	195	97.7	200	4.41		
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND						

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 17 @ 2' (H236591-17)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90		
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

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	12/11/2023	ND	432	108	400	3.64		

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	12/12/2023	ND	208	104	200	4.11		
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	195	97.7	200	4.41		
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND						

Surrogate: 1-Chlorooctane 57.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 53.3 % 49.1-148

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Analytical Results For:

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Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 18 @ 2' (H236591-18)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90		
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

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	12/11/2023	ND	432	108	400	3.64		

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	12/12/2023	ND	208	104	200	4.11		
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	195	97.7	200	4.41		
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND						

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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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:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 19 @ 2' (H236591-19)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90		
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

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	12/11/2023	ND	432	108	400	3.64		

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	12/13/2023	ND	208	104	200	4.11		
DRO >C10-C28*	<10.0	10.0	12/13/2023	ND	195	97.7	200	4.41		
EXT DRO >C28-C36	<10.0	10.0	12/13/2023	ND						

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 20 @ 2' (H236591-20)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90		
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

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	12/11/2023	ND	432	108	400	3.64		

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	12/12/2023	ND	208	104	200	4.11		
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	195	97.7	200	4.41		
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND						

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 21 @ 2' (H236591-21)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90		
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

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	12/11/2023	ND	432	108	400	3.64		

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	12/12/2023	ND	208	104	200	4.11	
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	195	97.7	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 22 @ 2' (H236591-22)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90		
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-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	12/11/2023	ND	432	108	400	3.64		

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	12/12/2023	ND	208	104	200	4.11	
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	195	97.7	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 23 @ 2' (H236591-23)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90	
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55	
Total BTEX	<0.300	0.300	12/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

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	12/11/2023	ND	432	108	400	3.64	

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	12/12/2023	ND	208	104	200	4.11	
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	195	97.7	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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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:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 24 @ 2' (H236591-24)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90		
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55		
Total BTX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-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	12/11/2023	ND	432	108	400	3.64		

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	12/12/2023	ND	208	104	200	4.11		
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	195	97.7	200	4.41		
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND						

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 25 @ 2' (H236591-25)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90		
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-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	12/11/2023	ND	432	108	400	3.64		

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	12/12/2023	ND	208	104	200	4.11	
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	195	97.7	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Analytical Results For:

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Received:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: BOTTOM SAMPLE 26 @ 2' (H236591-26)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	1.90		
Toluene*	<0.050	0.050	12/11/2023	ND	2.05	103	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.04	102	2.00	2.55		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.04	101	6.00	2.55		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

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	12/11/2023	ND	432	108	400	3.64		

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	12/12/2023	ND	208	104	200	4.11		
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	195	97.7	200	4.41		
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND						

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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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:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: SIDEWALL SAMPLE 1 (H236591-27)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19	
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56	
Total BTX	<0.300	0.300	12/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

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	12/11/2023	ND	432	108	400	3.64	

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	12/12/2023	ND	208	104	200	4.11	
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	195	97.7	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND					

Surrogate: 1-Chlorooctane 72.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.4 % 49.1-148

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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:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: SIDEWALL SAMPLE 2 (H236591-28)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19	
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38	
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90	
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56	
Total BTX	<0.300	0.300	12/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/11/2023	ND	432	108	400	3.64	

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	12/12/2023	ND	208	104	200	4.11	
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	195	97.7	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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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:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: SIDEWALL SAMPLE 3 (H236591-29)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19		
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56		
Total BTEx	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/11/2023	ND	432	108	400	3.64		

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	12/12/2023	ND	208	104	200	4.11	
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	195	97.7	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND					

Surrogate: 1-Chlorooctane 71.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.7 % 49.1-148

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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:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: SIDEWALL SAMPLE 4 (H236591-30)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19		
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56		
Total BTEx	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/11/2023	ND	432	108	400	3.64		

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	12/12/2023	ND	208	104	200	4.11	
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	195	97.7	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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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:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: SIDEWALL SAMPLE 5 (H236591-31)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19		
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56		
Total BTEx	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/11/2023	ND	432	108	400	3.64		

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	12/11/2023	ND	202	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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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:	12/08/2023	Sampling Date:	12/06/2023
Reported:	12/14/2023	Sampling Type:	Soil
Project Name:	CEDAR CANYON 27 # 4 - 8 - 12 - 14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

Sample ID: SIDEWALL SAMPLE 6 (H236591-32)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.29	114	2.00	2.19		
Toluene*	<0.050	0.050	12/11/2023	ND	2.26	113	2.00	2.38		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.23	111	2.00	1.90		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	7.04	117	6.00	1.56		
Total BTEx	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/11/2023	ND	432	108	400	3.64		

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	12/11/2023	ND	202	101	200	1.43	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	209	104	200	0.577	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 49.1-148

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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.
- 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".

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST															
Project Manager: Cliff Brunson				P.O. #:																			
Address: P.O. Box 805				Company: Oxy																			
City: Hobbs				Attn:																			
State: NM Zip: 88241																							
Phone #: 575-397-6388				Address:																			
Fax #: 575-397-0397																							
Project #:				City:																			
Project Name: Cedar Canyon 27#4 - 8-12-14				State: Zip:																			
Project Location: New Mexico				Phone #:																			
Fax #:																							
Sampler Name: SIMON RENDON																							
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV		SAMPLING											
								GROUNDWATER															
								WASTEWATER															
								SOIL															
								OIL															
								SLUDGE															
								OTHER :															
								ACID/BASE:															
								ICE / COOL															
								OTHER :															
								DATE		TIME													
H236591		Bottom Sample 1		Q 21		G 1								Chloride									
1		Bottom Sample 2		Q 21										BTEX									
2		Bottom Sample 3		Q 21										TPH/EXT									
3		Bottom Sample 4		Q 21																			
4		Bottom Sample 5		Q 21																			
5		Bottom Sample 6		Q 21																			
6		Bottom Sample 7		Q 21																			
7		Bottom Sample 8		Q 21																			
8		Bottom Sample 9		Q 21																			
9		Bottom Sample 10		Q 21																			
10		Bottom Sample 10		Q 21																			
PLEASE NOTE: Liability and Damages: Cardinal's liability and damages are 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 consequential damages, including without limitation, business interruptions, loss of data, 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. Requesters of analyses shall retain a copy of the above stated portions of the invoice.																							
Relinquished By: <i>Simon Rendon</i>				Date: 12-23		Received By: <i>Simon Rendon</i>		Date: 12-23		Time: 8:00 AM		Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>Simon Rendon</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <i>Simon Rendon</i>				Date: 12-23		Received By: <i>Simon Rendon</i>		Date: 12-23		Time: 1:55 PM		Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>Simon Rendon</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One) <i>Simon Rendon</i>				Date: 12-23		Received By: <i>Simon Rendon</i>		Date: 12-23		Time: 1:55 PM		Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>Simon Rendon</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Sampler - UPS - Bus - Other: <i>-13.0°C</i>				Date: 12-23		Received By: <i>Simon Rendon</i>		Date: 12-23		Time: 1:55 PM		Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>Simon Rendon</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST			
Project Manager: Cliff Brunson				P.O. #:							
Address: P.O. Box 805				Company: Oxy							
City: Hobbs				Attn:							
State: NM Zip: 88241				Address:							
Phone #: 575-397-6388				Fax #: 575-397-0397							
Project #:				City:							
Project Name: Cedar Canyon 27#4 - 8-12-14				State: Zip:							
Project Location: New Mexico				Phone #:							
Fax #:											
Sample Name: SIMON RENDON											
FOR LAB USE ONLY											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		DATE		TIME	
H236591											
11		Bottom Sample 11 @ 21		GROUNDWATER		WASTEWATER		12/06/23		11:08AM	
12		Bottom Sample 12 @ 21		SOIL		OIL		12/06/23		11:20AM	
13		Bottom Sample 13 @ 21		SLUDGE		OTHER :		12/06/23		11:31AM	
14		Bottom Sample 14 @ 21		ACID/BASE:		ICE / COOL		12/06/23		11:39AM	
15		Bottom Sample 15 @ 21		OTHER :				12/06/23		11:49AM	
16		Bottom Sample 16 @ 21						12/06/23		11:58AM	
17		Bottom Sample 17 @ 21						12/06/23		12:10PM	
18		Bottom Sample 18 @ 21						12/06/23		12:18PM	
19		Bottom Sample 19 @ 21						12/06/23		12:29PM	
20		Bottom Sample 20 @ 21						12/06/23		12:40PM	
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising from this contract or from, 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 hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>											
Relinquished By:		Date: 12-23		Time: 8:00 AM		Received By:		Date: 12-8-23		Time: 1:55 PM	
Signature: [Signature]						Signature: [Signature]					
Relinquished By:		Date: 12-8-23		Time: 1:55 PM		Received By:		Date: 12-8-23		Time: 1:55 PM	
Signature: [Signature]						Signature: [Signature]					
Delivered By: (Circle One)		Cool		Intact		Sample Condition		CHECKED BY:		(Initials)	
Sampler - UPS - Bus - Other:		-13.0c		#440							

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



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Santa Fe, NM 87505

QUESTIONS

Action 318442

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	318442
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1429334642
Incident Name	NAB1429334642 CEDAR CANYON 27 STATE COM #004H @ 30-015-42063
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-42063] CEDAR CANYON 27 STATE COM #004H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CEDAR CANYON 27 STATE COM #004H
Date Release Discovered	10/12/2014
Surface Owner	Private

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	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Other Other (Specify) Gelled Brine (Frac Fluid) Released: 75 BBL Recovered: 10 BBL Lost: 65 BBL.
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 318442

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	318442
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
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.	

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

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: 02/28/2024
--	---

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QUESTIONS, Page 3

Action 318442

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	318442
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
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (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	Between 500 and 1000 (ft.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 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	Medium
A 100-year floodplain	Between 1 and 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)	48
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0.5
GRO+DRO (EPA SW-846 Method 8015M)	10
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
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	10/16/2014
On what date will (or did) the final sampling or liner inspection occur	12/06/2023
On what date will (or was) the remediation complete(d)	10/22/2014
What is the estimated surface area (in square feet) that will be reclaimed	5073
What is the estimated volume (in cubic yards) that will be reclaimed	451
What is the estimated surface area (in square feet) that will be remediated	5073
What is the estimated volume (in cubic yards) that will be remediated	451

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 318442

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 318442
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<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>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site 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: 02/28/2024
<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 318442

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 318442
	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 318442

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	318442
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	290300
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/06/2023
What was the (estimated) number of samples that were to be gathered	32
What was the sampling surface area in square feet	5073

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	5073
What was the total volume (cubic yards) remediated	451
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	5073
What was the total volume (in cubic yards) reclaimed	451
Summarize any additional remediation activities not included by answers (above)	This site is listed on the Agreed Compliance Order of 4/5/19. This site had previously been remediated in 2014, but apparently no paperwork exists on the NMOCD website for closure verification. Therefore, OXY is submitting documentation that verifies remediation was conducted and completed per OCD approval.

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: 02/28/2024
--	---

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QUESTIONS, Page 7

Action 318442

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 318442
	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 318442

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
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	Action Number:
	318442
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	3/6/2024