



February 28, 2024

**New Mexico Oil Conservation Division**

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

**Re: Remediation Work Plan  
Twin Lakes SA Unit #047  
Incident Number nAPP2405244585  
Chaves County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Oxy USA Inc. (Oxy), has prepared the following *Remediation Work Plan* (*Work Plan*) to document site assessment and delineation activities completed to date and propose remedial actions to address historical impacted soil identified at the Twin Lakes SA Unit #047 well pad (Site). The following *Work Plan* proposes excavation of impacted soil within the historical release area and submittal of a subsequent *Closure Request*, documenting the excavation activities and confirmation soil sample analytical results.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit P, Section 36, Township 8 South, Range 28 East, in Chaves County, New Mexico (33.57060, -104.03537) and is associated with oil and gas exploration and production operations on state land managed by the New Mexico State Land Office (NMSLO).

During 2021, the NMSLO completed an aerial imagery review of plugged and abandoned wells located on state land in Chaves County. Visible indications of a potential historical release were identified at the Site, and as the lease holder, Oxy was notified by the NMSLO of the need to investigate potential impacts to soil. Oxy contracted BBC International, Inc. (BBC) and Ensolum to conduct assessment and delineation activities within the historical release area. Based on the delineation soil sample analytical results, a Notification of Release was submitted to the New Mexico Oil Conservation Division (NMOCD) on February 21, 2024. The release was assigned Incident Number nAPP2405244585.

Oxy is not the Operator of the Twin Lakes SA Unit #047 well, and has no independent knowledge of the facts or circumstances surrounding the nature, content or volume of any release(s), contemporaneous to any such release(s). All information submitted by Oxy herein is based on Oxy's present day observations of the site. Oxy submits this *Work Plan* pursuant to an agreement with the NMSLO, as lessee of record.

Since the release occurred on a previously disturbed well pad and access road, compliance with the Cultural Properties Protection Rule (CPP) is not required. The oil and gas well has been plugged and abandoned. Upon completion of remediation activities and closure approval of Incident Number

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nAPP2405244585, a Reclamation Plan will be submitted to the NMSLO proposing final reclamation activities for the well pad and access road.

## SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geologic Survey (USGS) well 333423104032401, located approximately 1.2 miles northwest of the Site. The well has a recorded depth to groundwater of 35.77 feet bgs and a total depth of 157 feet. The referenced well records are included in Appendix A. All wells used for depth to groundwater determination are depicted on Figure 1.

The closest continuously flowing or significant watercourse is greater than 300 feet from the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology. Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

## SITE ASSESSMENT AND DELINEATION ACTIVITIES

During November 2021 and January 2024, BBC and Ensolum personnel were at the Site to evaluate the historical release extent based on information provided by the NMSLO and visual observations. Delineation soil samples were collected from five locations (North, East, East 2, West, and South) around the historical release extent from depths ranging from the ground surface to 2 feet bgs to confirm the lateral extent of the release. Potholes were advanced at thirteen sample points (SP1 through SP13) within the historical release area to assess the vertical extent of impacted soil. The potholes were advanced to depths ranging from 2 feet to 4 feet bgs. Discrete delineation soil samples were collected from sample points SP1 through SP13 at depths ranging from the ground surface to 4 feet bgs. Soil from the potholes was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations for the January 2024 potholes were logged on lithologic soil sampling logs, which are included in Appendix B.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-

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diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix C.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the delineation samples collected from sample points North, East, East 2, West, and South, collected at depths ranging from the ground surface to 2 feet bgs, indicated all COC concentrations were compliant with the Site Closure Criteria and confirmed the lateral extent of the release. Laboratory analytical results for the delineation soil samples collected from sample points SP6 through SP8 and SP10 through SP13, collected at depths ranging from the ground surface to 2 feet bgs, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for the delineation soil samples collected from sample points SP1 through SP5 and SP9 indicated that TPH and/or chloride concentrations exceeded the Site Closure Criteria at depths ranging from the ground surface to 2 feet bgs. Laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

Based on the soil sample analytical results, additional remediation activities are warranted and are proposed below.

## PROPOSED REMEDIATION WORKPLAN

The delineation soil sample results indicated soil containing TPH and/or chloride concentrations exceeding the Site Closure Criteria is present across an approximate 16,000 square foot area and extends to a depth ranging from 0.5 feet to 2 feet bgs around sample points sample points SP1 through SP5 and SP9. Based on the delineation soil sample analytical results, Oxy proposes to complete the following remediation activities:

- The impacted soil identified within the release area will be excavated. Excavation will proceed laterally and vertically until excavation sidewall and floor samples confirm all COC concentrations are compliant with the Site Closure Criteria.
  - 5-point composite soil samples will be collected from the sidewalls and floor of the final excavation extent. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing.
  - The excavation sidewall samples will be collected at a frequency of every 200 square feet.
  - Due to the estimated size of the excavation (16,000 square feet), Oxy requests a variance for frequency of excavation floor samples. Oxy proposes collecting floor samples at a frequency of every 400 square feet from the floor of the excavation.
  - The excavation confirmation soil samples will be handled as described above and analyzed for BTEX, TPH, and chloride.
- An estimated 800 cubic yards of impacted soil will be excavated. The excavated soil will be transported to an approved landfill facility for disposal.
- Upon completion of excavation activities, the excavation will be backfilled with locally procured backfill and topsoil and recontoured to match pre-existing conditions. Since the well has been

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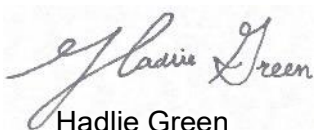
plugged and abandoned, a Reclamation Plan for the entire well pad and access road will be submitted to the NMSLO upon closure approval of Incident Number nAPP2405244585.

Oxy will complete the excavation activities within 90 days of the date of approval of this *Work Plan* by the NMOCD. A *Closure Request* detailing the excavation activities will be submitted to the NMOCD and NMSLO upon completion of excavation activities and receipt of final laboratory analytical results.


Oxy believes the scope of work described above meets the requirements set forth in 19.15.29 NMAC and is protective of human health, the environment, and groundwater and respectfully requests approval of this *Work Plan* for Incident Number nAPP2405244585.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or [acole@ensolum.com](mailto:acole@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Hadlie Green  
Project Geologist



Aimee Cole  
Senior Managing Scientist

cc: Kalei Jennings, Oxy USA Inc.  
New Mexico State Land Office

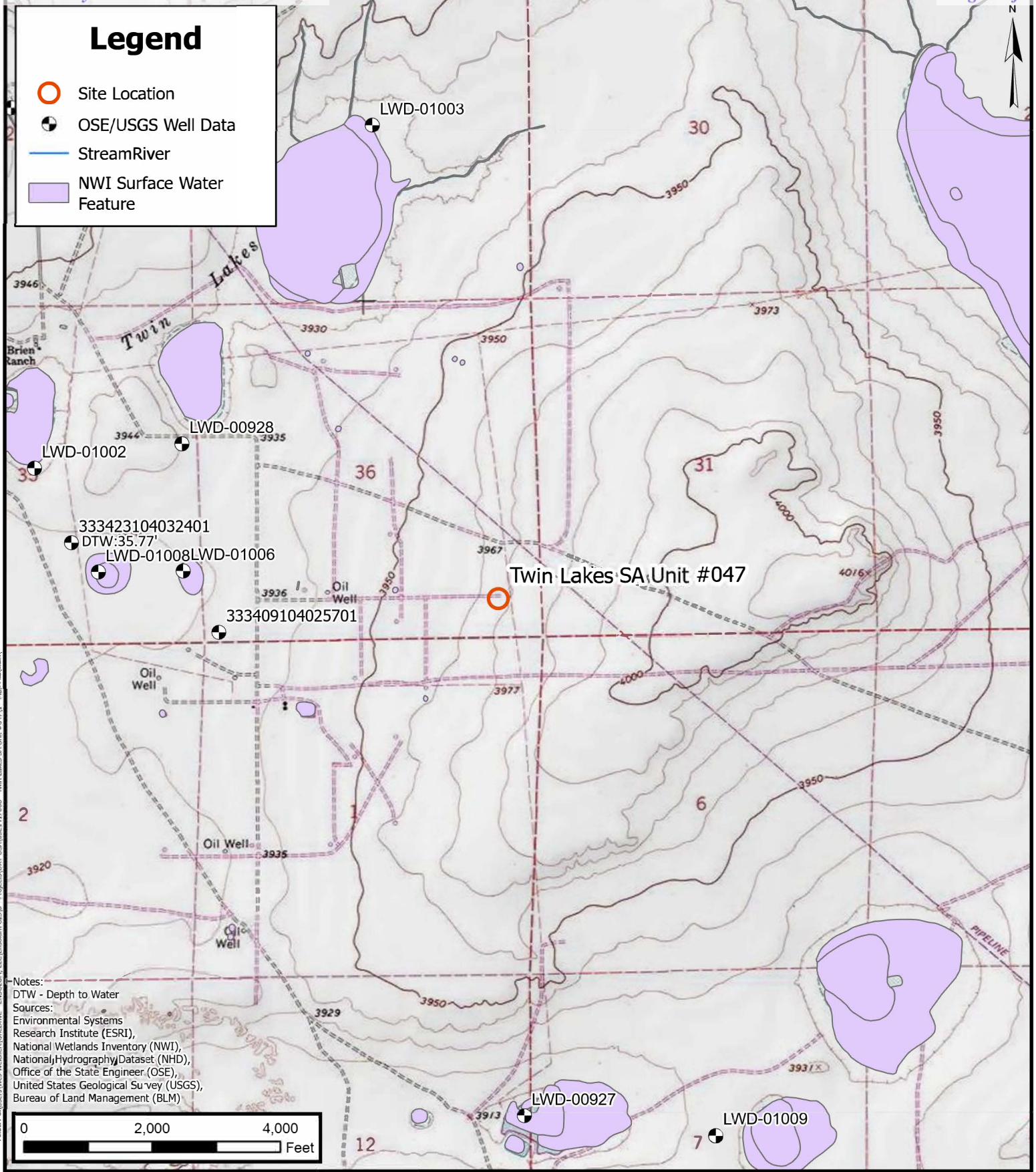
Appendices:


Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Proposed Excavation Extent
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Lithologic Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES



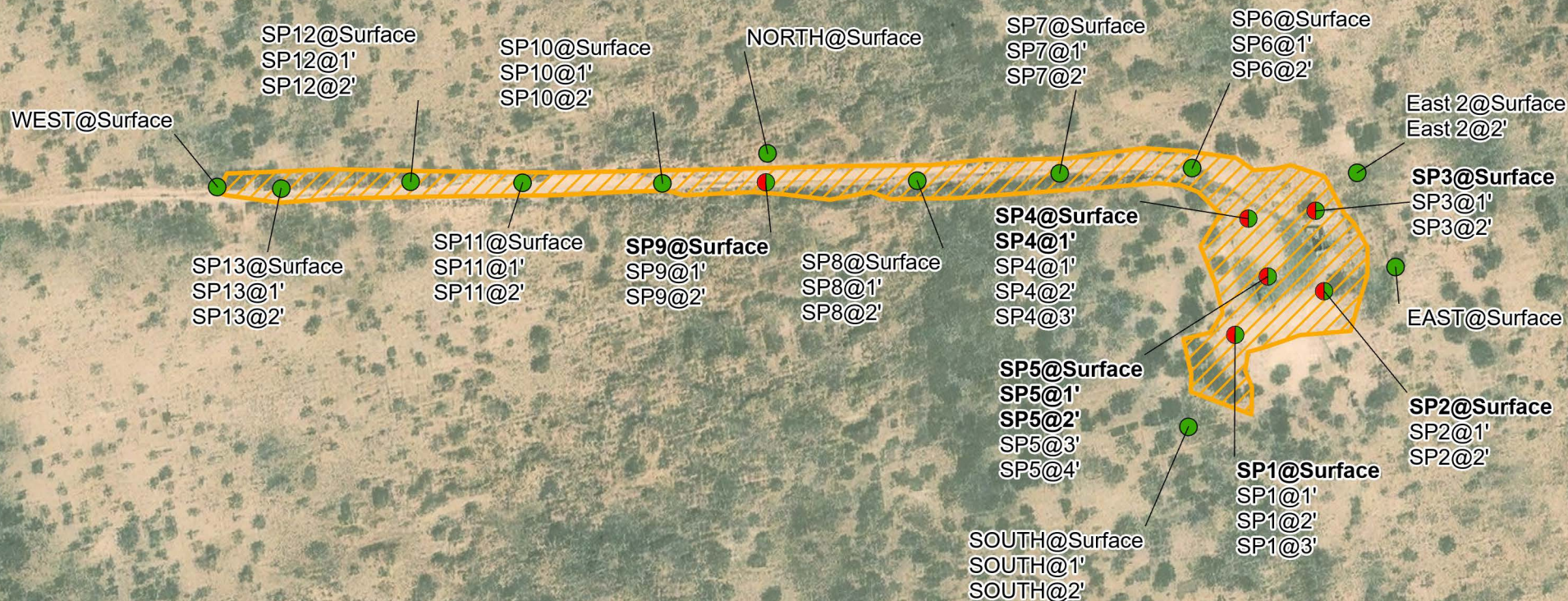


 <p>Environmental, Engineering and Hydrogeologic Consultants</p>	<h3>Site Receptor Map</h3> <p>Oxy USA Inc. Twin Lakes SA Unit #047 Incident Number nAPP2405244585 Unit P, Sec 36, T08S, R28E Chaves County, New Mexico</p>	<h2>FIGURE</h2> <h1>1</h1>
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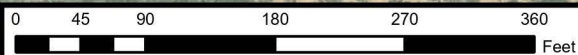


**Legend**

- Delineation Soil Samples  
Compliant with Closure Criteria
- Delineation Soil Samples with  
Initial Concentrations  
Exceeding Closure Criteria
- Release Extent



Notes:  
Sample ID @ Depth Below Ground Surface.  
Samples in bold indicate sample exceeded applicable  
closure criteria.



Sources: Environmental Systems Research Institute (ESRI)

**Delineation Soil Sample Locations**

Oxy USA Inc.  
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Incident Number nAPP2405244585  
Unit P, Sec 36, T08S, R28E  
Chaves County, New Mexico

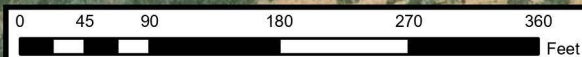


## Legend

- Delineation Soil Samples  
Compliant with Closure Criteria
- Delineation Soil Samples with  
Initial Concentrations  
Exceeding Closure Criteria
- Proposed Excavation Extent



Notes:  
Sample ID @ Depth Below Ground Surface.  
Samples in bold indicate sample exceeded applicable  
closure criteria.



Sources: Environmental Systems Research Institute (ESRI)

## Proposed Excavation Extent

Oxy USA Inc.  
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Incident Number nAPP2405244585  
Unit P, Sec 36, T08S, R28E  
Chaves County, New Mexico





TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**

Twin Lakes SA Unit #047

Oxy USA Inc.

Chaves County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
North	11/04/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
East	11/04/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
East 2	01/31/2024	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
East 2	01/31/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
West	11/04/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
South	11/04/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
South	01/31/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
South	01/31/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SP1	11/04/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>768</b>
SP1	11/04/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP1	11/04/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
SP1	11/04/2021	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SP2	11/04/2021	Surface	<0.050	<0.300	<10.0	106	35.7	106	<b>142</b>	80.0
SP2	11/04/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP2	11/04/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SP3	11/04/2021	Surface	<0.050	<0.300	<50.0	960	1,340	960	<b>2,300</b>	<b>2,000</b>
SP3	11/04/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
SP3	11/04/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SP4	11/04/2021	Surface	<0.050	<0.300	<10.0	544	281	544	<b>825</b>	208
SP4	11/04/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>784</b>
SP4	11/04/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SP4	11/04/2021	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112





**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**

Twin Lakes SA Unit #047

Oxy USA Inc.

Chaves County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
SP5	11/04/2021	Surface	<0.050	<0.300	<10.0	197	264	197	<b>461</b>	<b>688</b>
SP5	11/04/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>2,200</b>
SP5	11/04/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>768</b>
SP5	11/04/2021	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
SP5	11/04/2021	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SP6	11/04/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
SP6	11/04/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP6	11/04/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP7	11/04/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
SP7	11/04/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP7	11/04/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SP8	11/05/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
SP8	11/05/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SP8	11/05/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SP9	11/05/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>624</b>
SP9	11/05/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SP9	11/05/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SP10	11/05/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SP10	11/05/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP10	11/05/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SP11	11/05/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SP11	11/05/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SP11	11/05/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Twin Lakes SA Unit #047  
 Oxy USA Inc.  
 Chaves County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
SP12	11/05/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SP12	11/05/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SP12	11/05/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SP13	11/05/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
SP13	11/05/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP13	11/05/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon





## APPENDIX A

### Referenced Well Records

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[USGS Home](#)  
[Contact USGS](#)  
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

▼


Geographic Area:

New Mexico

▼

GO

Click to hideNews Bulletins

- Explore the NEW [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 333423104032401

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

USGS 333423104032401 08S.28E.35.41334

Chaves County, New Mexico  
Latitude 33°34'23", Longitude 104°03'24" NAD27  
Land-surface elevation 3,931 feet above NAVD88  
The depth of the well is 157 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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



Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1978-10-18		D	62610		3895.00	NGVD29	1	Z			A
1978-10-18		D	62611		3896.86	NAVD88	1	Z			A
1978-10-18		D	72019	34.14			1	Z			A
1984-02-16		D	62610		3893.37	NGVD29	1	Z			A
1984-02-16		D	62611		3895.23	NAVD88	1	Z			A
1984-02-16		D	72019	35.77			1	Z			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

- [Questions or Comments](#)  
[Automated retrievals](#)  
[Help](#)  
[Data Tips](#)  
[Explanation of terms](#)  
[Subscribe for system changes](#)  
[News](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

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

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

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

Page Last Modified: 2024-02-07 16:44:11 EST


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# 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		
	RA 09732			1	22	08S	28E	585283	3719179*		
<hr/>											
Driller License:		1082	Driller Company:			SPEARS, JACK DRILLING CO.					
Driller Name:		SPEARS, JACK									
Drill Start Date:		05/14/1999	Drill Finish Date:			06/17/1999		Plug Date:			
Log File Date:		06/22/1999	PCW Rcv Date:					Source:		Shallow	
Pump Type:			Pipe Discharge Size:					Estimated Yield:		10 GPM	
Casing Size:		5.00	Depth Well:			922 feet		Depth Water:		600 feet	
<hr/>											
Water Bearing Stratifications:				Top	Bottom	Description					
				862	920	Shallow Alluvium/Basin Fill					
<hr/>											
Casing Perforations:				Top	Bottom						
				832	922						
<hr/>											

\*UTM location was derived from PLSS - see Help

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.

2/7/24 2:46 PM

POINT OF DIVERSION SUMMARY







## APPENDIX B

### Lithologic Soil Sampling Logs

---

								Sample Name: South		Date: Jan 31, 2024	
								Site Name: Twin Lakes SA Unit #047			
								Incident Number: nAPP2405244585			
								Job Number: 03E1417008			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: K Shimada		Method: Backhoe	
Coordinates: 33.570206, -104.035711								Hole Diameter: N/A		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. D-Dry; ND-Non Detect; N-No											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	ND	0.0	N	South	1	Surface	SW	SAND, brown, well graded, fine grain, rounded, dry, no stain, no odor.			
D	571.2	0.0	N	South	2	2	SW	SAND, light brown, well graded, fine grain, rounded, dry, no stain, no odor.			
Total Depth @ 2 feet bgs											

								Sample Name: East 2		Date: Jan 31, 2024	
								Site Name: Twin Lakes SA Unit #047			
								Incident Number: nAPP2405244585			
								Job Number: 03E1417008			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: K Shimada		Method: Backhoe	
Coordinates: 33.570790, -104.035236								Hole Diameter: N/A		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. D-Dry; ND-Non Detect; N-No											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	ND	0.0	N	East 2	Surface	Surface	SW	SAND, brown, well graded, fine grain, rounded, dry, no stain, no odor.			
D	ND	0.0	N			1	CL	SANDY LEAN CLAY, pale brown, well graded, fine grain, rounded, dry, no stain, no odor.			
D	ND	0.0	N	East 2	2	2	CL	LEAN CLAY, white and brown, well graded, fine grain, rounded, dry, no stain, no odor.			
Total Depth @ 2 feet bgs											
[Large empty area with a diagonal line from top-left to bottom-right]											





## APPENDIX C

### Photographic Log

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**Photographic Log**

Oxy USA Inc.

Twin Lakes SA Unit #047

Incident Number nAPP2405244585



Photograph 1

Date: 01/31/2024

Description: View of well pad

View: Northwest



Photograph 2

Date: 01/31/2024

Description: View of well pad

View: Northeast



Photograph 3

Date: 01/31/2024

Description: View of well pad

View: East



Photograph 4

Date: 01/31/2024

Description: Delineation Activities

View: Northeast



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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

---

November 16, 2021

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: TWIN LAKES SA UNIT #47

Enclosed are the results of analyses for samples received by the laboratory on 11/11/21 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP @ NORTH (H213227-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2021	ND	2.05	102	2.00	4.81	
Toluene*	<0.050	0.050	11/12/2021	ND	1.95	97.6	2.00	3.01	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.94	96.9	2.00	3.26	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.93	98.8	6.00	2.45	
Total BTEX	<0.300	0.300	11/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

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	11/12/2021	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	11/12/2021	ND	218	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	213	106	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 87.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.0 % 38.9-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP @ EAST (H213227-02)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2021	ND	2.05	102	2.00	4.81		
Toluene*	<0.050	0.050	11/12/2021	ND	1.95	97.6	2.00	3.01		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.94	96.9	2.00	3.26		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.93	98.8	6.00	2.45		
Total BTEx	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 69.9-140

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	11/12/2021	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	11/12/2021	ND	218	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	213	106	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 96.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.4 % 38.9-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP @ WEST (H213227-03)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2021	ND	2.05	102	2.00	4.81		
Toluene*	<0.050	0.050	11/12/2021	ND	1.95	97.6	2.00	3.01		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.94	96.9	2.00	3.26		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.93	98.8	6.00	2.45		
Total BTEX	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

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	11/12/2021	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	11/12/2021	ND	218	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	213	106	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 95.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.2 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP @ SOUTH (H213227-04)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2021	ND	2.05	102	2.00	4.81		
Toluene*	<0.050	0.050	11/12/2021	ND	1.95	97.6	2.00	3.01		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.94	96.9	2.00	3.26		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.93	98.8	6.00	2.45		
Total BTEX	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.9-140

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	11/12/2021	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	11/12/2021	ND	218	109	200	1.58	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	213	106	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ SURFACE (H213227-05)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2021	ND	2.05	102	2.00	4.81	
Toluene*	<0.050	0.050	11/12/2021	ND	1.95	97.6	2.00	3.01	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.94	96.9	2.00	3.26	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.93	98.8	6.00	2.45	
Total BTX	<0.300	0.300	11/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	11/12/2021	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	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 116 % 44.3-133

Surrogate: 1-Chlorooctadecane 112 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 1' (H213227-06)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2021	ND	2.05	102	2.00	4.81	
Toluene*	<0.050	0.050	11/12/2021	ND	1.95	97.6	2.00	3.01	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.94	96.9	2.00	3.26	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.93	98.8	6.00	2.45	
Total BTEx	<0.300	0.300	11/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	11/12/2021	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	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 117 % 44.3-133

Surrogate: 1-Chlorooctadecane 120 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 2' (H213227-07)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2021	ND	2.05	102	2.00	4.81	
Toluene*	<0.050	0.050	11/15/2021	ND	1.95	97.6	2.00	3.01	
Ethylbenzene*	<0.050	0.050	11/15/2021	ND	1.94	96.9	2.00	3.26	
Total Xylenes*	<0.150	0.150	11/15/2021	ND	5.93	98.8	6.00	2.45	
Total BTEX	<0.300	0.300	11/15/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	11/12/2021	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	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 97.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.2 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 3' (H213227-08)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2021	ND	2.05	102	2.00	4.81	
Toluene*	<0.050	0.050	11/12/2021	ND	1.95	97.6	2.00	3.01	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.94	96.9	2.00	3.26	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.93	98.8	6.00	2.45	
Total BTX	<0.300	0.300	11/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/12/2021	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	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ SURFACE (H213227-09)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2021	ND	2.05	102	2.00	4.81	
Toluene*	<0.050	0.050	11/12/2021	ND	1.95	97.6	2.00	3.01	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.94	96.9	2.00	3.26	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.93	98.8	6.00	2.45	
Total BTEX	<0.300	0.300	11/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/12/2021	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	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	106	10.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	35.7	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 87.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 1' (H213227-10)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2021	ND	2.05	102	2.00	4.81	
Toluene*	<0.050	0.050	11/12/2021	ND	1.95	97.6	2.00	3.01	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.94	96.9	2.00	3.26	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.93	98.8	6.00	2.45	
Total BTEX	<0.300	0.300	11/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 69.9-140

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	11/12/2021	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	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 2' (H213227-11)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2021	ND	2.05	102	2.00	4.81	
Toluene*	<0.050	0.050	11/12/2021	ND	1.95	97.6	2.00	3.01	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.94	96.9	2.00	3.26	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.93	98.8	6.00	2.45	
Total BTEX	<0.300	0.300	11/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/12/2021	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	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ SURFACE (H213227-12)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/12/2021	ND	2.05	102	2.00	4.81		
Toluene*	<0.050	0.050	11/12/2021	ND	1.95	97.6	2.00	3.01		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.94	96.9	2.00	3.26		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.93	98.8	6.00	2.45		
Total BTEX	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	11/12/2021	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*	<50.0	50.0	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	960	50.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	1340	50.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 71.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 1' (H213227-13)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2021	ND	2.05	102	2.00	4.81	
Toluene*	<0.050	0.050	11/12/2021	ND	1.95	97.6	2.00	3.01	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.94	96.9	2.00	3.26	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.93	98.8	6.00	2.45	
Total BTEX	<0.300	0.300	11/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	11/12/2021	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	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 94.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 2' (H213227-14)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2021	ND	2.05	102	2.00	4.81	
Toluene*	<0.050	0.050	11/12/2021	ND	1.95	97.6	2.00	3.01	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.94	96.9	2.00	3.26	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.93	98.8	6.00	2.45	
Total BTEX	<0.300	0.300	11/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 69.9-140

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	11/12/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 98.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ SURFACE (H213227-15)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.22	
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59	
Total BTX	<0.300	0.300	11/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/12/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	544	10.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	281	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 95.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 112 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ 1' (H213227-16)**

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	11/12/2021	ND	1.94	97.1	2.00	7.22		
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59		
Total BTEX	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	11/12/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 98.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ 2' (H213227-17)**

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	11/12/2021	ND	1.94	97.1	2.00	7.22		
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59		
Total BTEx	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	11/12/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 97.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ 3' (H213227-18)**

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	11/12/2021	ND	1.94	97.1	2.00	7.22		
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59		
Total BTEX	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/12/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 90.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ SURFACE (H213227-19)**

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	11/12/2021	ND	1.94	97.1	2.00	7.22		
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59		
Total BTEX	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	11/12/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	197	10.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	264	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ 1' (H213227-20)**

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	11/12/2021	ND	1.94	97.1	2.00	7.22		
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59		
Total BTEX	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	11/12/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 99.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ 2' (H213227-21)**

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	11/12/2021	ND	1.94	97.1	2.00	7.22		
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59		
Total BTEX	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	11/12/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 96.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ 3' (H213227-22)**

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	11/12/2021	ND	1.94	97.1	2.00	7.22		
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59		
Total BTEX	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	11/12/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 96.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ 4' (H213227-23)**

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	11/12/2021	ND	1.94	97.1	2.00	7.22		
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59		
Total BTEx	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/12/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 98.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 6 @ SURFACE (H213227-24)**

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	11/12/2021	ND	1.94	97.1	2.00	7.22		
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59		
Total BTEX	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	11/12/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	230	115	200	3.15	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	221	111	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 81.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.9 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 6 @ 1' (H213227-25)**

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	11/12/2021	ND	1.94	97.1	2.00	7.22		
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59		
Total BTEx	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 69.9-140

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	11/12/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 87.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 6 @ 2' (H213227-26)**

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	11/12/2021	ND	1.94	97.1	2.00	7.22		
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59		
Total BTEX	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 69.9-140

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	11/12/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 7 @ SURFACE (H213227-27)**

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	11/12/2021	ND	1.94	97.1	2.00	7.22		
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59		
Total BTX	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	11/12/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 88.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 7 @ 1' (H213227-28)**

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	11/12/2021	ND	1.94	97.1	2.00	7.22		
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59		
Total BTEx	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 69.9-140

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	11/12/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 81.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/04/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 7 @ 2' (H213227-29)**

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	11/12/2021	ND	1.94	97.1	2.00	7.22		
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59		
Total BTEX	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 69.9-140

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	11/12/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/05/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 8 @ SURFACE (H213227-30)**

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	11/12/2021	ND	1.94	97.1	2.00	7.22		
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59		
Total BTEx	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	11/12/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/05/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 8 @ 1' (H213227-31)**

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	11/12/2021	ND	1.94	97.1	2.00	7.22		
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59		
Total BTEx	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 69.9-140

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	11/12/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/05/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 8 @ 2' (H213227-32)**

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	11/12/2021	ND	1.94	97.1	2.00	7.22		
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59		
Total BTEX	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 69.9-140

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	11/12/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 85.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/05/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 9 @ SURFACE (H213227-33)**

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	11/12/2021	ND	1.94	97.1	2.00	7.22		
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59		
Total BTEX	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	11/12/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/05/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 9 @ 1' (H213227-34)**

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	11/12/2021	ND	1.94	97.1	2.00	7.22		
Toluene*	<0.050	0.050	11/12/2021	ND	1.94	97.1	2.00	7.85		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.91	95.5	2.00	7.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	7.59		
Total BTEX	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 69.9-140

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	11/12/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 88.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/05/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 9 @ 2' (H213227-35)**

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	11/12/2021	ND	1.97	98.5	2.00	4.18		
Toluene*	<0.050	0.050	11/12/2021	ND	1.96	97.9	2.00	3.69		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	1.92	96.0	2.00	4.00		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	5.83	97.2	6.00	4.00		
Total BTEX	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 69.9-140

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	11/12/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 85.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/05/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 10 @ SURFACE (H213227-36)**

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	11/13/2021	ND	1.97	98.5	2.00	4.18		
Toluene*	<0.050	0.050	11/13/2021	ND	1.96	97.9	2.00	3.69		
Ethylbenzene*	<0.050	0.050	11/13/2021	ND	1.92	96.0	2.00	4.00		
Total Xylenes*	<0.150	0.150	11/13/2021	ND	5.83	97.2	6.00	4.00		
Total BTEx	<0.300	0.300	11/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	11/12/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/05/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 10 @ 1' (H213227-37)**

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	11/13/2021	ND	1.97	98.5	2.00	4.18		
Toluene*	<0.050	0.050	11/13/2021	ND	1.96	97.9	2.00	3.69		
Ethylbenzene*	<0.050	0.050	11/13/2021	ND	1.92	96.0	2.00	4.00		
Total Xylenes*	<0.150	0.150	11/13/2021	ND	5.83	97.2	6.00	4.00		
Total BTEx	<0.300	0.300	11/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

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	11/12/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 88.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/05/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 10 @ 2' (H213227-38)**

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	11/13/2021	ND	1.97	98.5	2.00	4.18		
Toluene*	<0.050	0.050	11/13/2021	ND	1.96	97.9	2.00	3.69		
Ethylbenzene*	<0.050	0.050	11/13/2021	ND	1.92	96.0	2.00	4.00		
Total Xylenes*	<0.150	0.150	11/13/2021	ND	5.83	97.2	6.00	4.00		
Total BTX	<0.300	0.300	11/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

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	11/12/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 91.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	11/11/2021	Sampling Date:	11/05/2021
Reported:	11/16/2021	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #47	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: SP 11 @ SURFACE (H213227-39)**

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	11/13/2021	ND	1.97	98.5	2.00	4.18		
Toluene*	<0.050	0.050	11/13/2021	ND	1.96	97.9	2.00	3.69		
Ethylbenzene*	<0.050	0.050	11/13/2021	ND	1.92	96.0	2.00	4.00		
Total Xylenes*	<0.150	0.150	11/13/2021	ND	5.83	97.2	6.00	4.00		
Total BTEX	<0.300	0.300	11/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	11/12/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 69.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 65.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/05/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 11 @ 1' (H213227-40)**

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	11/13/2021	ND	1.97	98.5	2.00	4.18		
Toluene*	<0.050	0.050	11/13/2021	ND	1.96	97.9	2.00	3.69		
Ethylbenzene*	<0.050	0.050	11/13/2021	ND	1.92	96.0	2.00	4.00		
Total Xylenes*	<0.150	0.150	11/13/2021	ND	5.83	97.2	6.00	4.00		
Total BTEX	<0.300	0.300	11/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 69.9-140

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	11/12/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/05/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 11 @ 2' (H213227-41)**

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	11/13/2021	ND	1.97	98.5	2.00	4.18		
Toluene*	<0.050	0.050	11/13/2021	ND	1.96	97.9	2.00	3.69		
Ethylbenzene*	<0.050	0.050	11/13/2021	ND	1.92	96.0	2.00	4.00		
Total Xylenes*	<0.150	0.150	11/13/2021	ND	5.83	97.2	6.00	4.00		
Total BTEX	<0.300	0.300	11/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

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	11/12/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 88.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.6 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/05/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 12 @ SURFACE (H213227-42)**

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	11/13/2021	ND	1.97	98.5	2.00	4.18		
Toluene*	<0.050	0.050	11/13/2021	ND	1.96	97.9	2.00	3.69		
Ethylbenzene*	<0.050	0.050	11/13/2021	ND	1.92	96.0	2.00	4.00		
Total Xylenes*	<0.150	0.150	11/13/2021	ND	5.83	97.2	6.00	4.00		
Total BTEX	<0.300	0.300	11/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/12/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 76.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/05/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 12 @ 1' (H213227-43)**

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	11/13/2021	ND	1.97	98.5	2.00	4.18		
Toluene*	<0.050	0.050	11/13/2021	ND	1.96	97.9	2.00	3.69		
Ethylbenzene*	<0.050	0.050	11/13/2021	ND	1.92	96.0	2.00	4.00		
Total Xylenes*	<0.150	0.150	11/13/2021	ND	5.83	97.2	6.00	4.00		
Total BTEx	<0.300	0.300	11/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

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	11/12/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 90.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/05/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 12 @ 2' (H213227-44)**

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	11/13/2021	ND	1.97	98.5	2.00	4.18		
Toluene*	<0.050	0.050	11/13/2021	ND	1.96	97.9	2.00	3.69		
Ethylbenzene*	<0.050	0.050	11/13/2021	ND	1.92	96.0	2.00	4.00		
Total Xylenes*	<0.150	0.150	11/13/2021	ND	5.83	97.2	6.00	4.00		
Total BTEX	<0.300	0.300	11/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

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	11/12/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2021	ND	235	118	200	1.91	
DRO >C10-C28*	<10.0	10.0	11/13/2021	ND	218	109	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/13/2021	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	11/11/2021	Sampling Date:	11/05/2021
Reported:	11/16/2021	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #47	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: SP 13 @ SURFACE (H213227-45)**

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	11/13/2021	ND	1.97	98.5	2.00	4.18		
Toluene*	<0.050	0.050	11/13/2021	ND	1.96	97.9	2.00	3.69		
Ethylbenzene*	<0.050	0.050	11/13/2021	ND	1.92	96.0	2.00	4.00		
Total Xylenes*	<0.150	0.150	11/13/2021	ND	5.83	97.2	6.00	4.00		
Total BTEx	<0.300	0.300	11/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	11/12/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	215	107	200	1.30	QR-03
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	202	101	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 83.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/05/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 13 @ 1' (H213227-46)**

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	11/13/2021	ND	1.97	98.5	2.00	4.18		
Toluene*	<0.050	0.050	11/13/2021	ND	1.96	97.9	2.00	3.69		
Ethylbenzene*	<0.050	0.050	11/13/2021	ND	1.92	96.0	2.00	4.00		
Total Xylenes*	<0.150	0.150	11/13/2021	ND	5.83	97.2	6.00	4.00		
Total BTEX	<0.300	0.300	11/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

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	11/12/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	215	107	200	1.30	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	202	101	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 99.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #47  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/05/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 13 @ 2' (H213227-47)**

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	11/13/2021	ND	1.97	98.5	2.00	4.18		
Toluene*	<0.050	0.050	11/13/2021	ND	1.96	97.9	2.00	3.69		
Ethylbenzene*	<0.050	0.050	11/13/2021	ND	1.92	96.0	2.00	4.00		
Total Xylenes*	<0.150	0.150	11/13/2021	ND	5.83	97.2	6.00	4.00		
Total BTEx	<0.300	0.300	11/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 69.9-140

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	11/12/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/12/2021	ND	215	107	200	1.30	
DRO >C10-C28*	<10.0	10.0	11/12/2021	ND	202	101	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/12/2021	ND					

Surrogate: 1-Chlorooctane 97.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.3 % 38.9-142

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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 "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



## • CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241 Phone #: 575-397-6388 Fax #: 575-397-0397 Project #: Project Owner: Oxy Project Name: TWIN LAKES SA UNIT #47 Project Location: NEW MEXICO Sampler Name: SIMON				<b>BILL TO</b> P.O. #: Company: <b>Oxy</b> Attn: Address: City: State: Zip: Phone #: Fax #:		<b>ANALYSIS REQUEST</b>															
FOR LAB USE ONLY  Lab I.D. <b>H213227</b> Sample I.D.				MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV. ACID/BASE: ICE / COOL OTHER:		SAMPLING DATE TIME		(Grid for Analysis Request)											
(G)RAB OR (C)OMP. # CONTAINERS 1 SP @ NORTH 2 SP @ EAST 3 SP @ WEST 4 SP @ SOUTH 5 SP 1 @ SURFACE 6 SP 1 @ 1' 7 SP 1 @ 2' 8 SP 1 @ 3' 9 SP 2 @ SURFACE 10 SP 2 @ 1'				(Grid for Matrix)		(Grid for Preservation)		(Grid for Sampling)		(Grid for Analysis Request)											
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Relinquished By: <i>Simon</i> Date: 11-1-21 Time: 8:00 AM Relinquished By: <i>Israel Pena</i> Date: 11-1-21 Time: 4:55 PM Delivered By: (Circle One) <b>6.1c) C-0.5c</b> Sampler - UPS - Bus - Other: <b>5.6c #113</b>				Received By: <i>Israel Pena</i> Received By: <i>Tamara Aldrete</i> Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Add'l Fax #: REMARKS:													

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



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(505) 393-2326 FAX (505) 393-2476

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

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																
Project Manager: Cliff Brunson				P.O. #: <i>Oxy</i>				<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; margin-right: 10px;">OXY</div> <div style="border: 1px solid black; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold;">OXY</div> </div> </div>																
Address: P.O. Box 805				Company: <i>Oxy</i>																				
City: Hobbs State: NM Zip: 88241				Attn:																				
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																				
Project #: Project Owner: <i>Oxy</i>				City:																				
Project Name: TWIN LAKES SA UNIT #47				State: Zip:																				
Project Location: NEW MEXICO				Phone #:																				
Sampler Name: SIMON				Fax #:																				
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	GRAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING														
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME										
<i>H213227</i>	SP 2 @ 2'	<i>91</i>											11/4/21	11:46AM	✓	✓	✓							
<i>12</i>	SP 3 @ SURFACE												11/4/21	11:57AM	✓	✓	✓							
<i>13</i>	SP 3 @ 1'												11/4/21	12:44PM	✓	✓	✓							
<i>14</i>	SP 3 @ 2'												11/4/21	12:58PM	✓	✓	✓							
<i>15</i>	SP 4 @ SURFACE												11/4/21	1:14PM	✓	✓	✓							
<i>16</i>	SP 4 @ 1'												11/4/21	1:23PM	✓	✓	✓							
<i>17</i>	SP 4 @ 2'												11/4/21	1:30PM	✓	✓	✓							
<i>18</i>	SP 4 @ 3'												11/4/21	1:37PM	✓	✓	✓							
<i>19</i>	SP 5 @ SURFACE												11/4/21	1:46PM	✓	✓	✓							
<i>20</i>	SP 5 @ 1'												11/4/21	1:55PM	✓	✓	✓							

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Relinquished By: <i>Simon R. [Signature]</i>	Date: <i>11-11-21</i>	Received By: <i>Israel Pena</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>Israel Pena</i>	Date: <i>11-11-21</i>	Received By: <i>Amara Olatokun</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) <i>C-0.5c</i>	Sample Condition: <i>5.6c #113</i>	CHECKED BY: (Initials) <i>TO</i>	REMARKS:	
Sampler - UPS - Bus - Other:	Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

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**CARDINAL 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.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>													
Project Manager: Cliff Brunson				P.O. #:				<div style="text-align: center; font-size: 2em; transform: rotate(-45deg);">             Oxy           </div>													
Address: P.O. Box 805				Company:																	
City: Hobbs State: NM Zip: 88241				Attn:																	
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																	
Project #: Project Owner: Oxy				City:																	
Project Name: TWIN LAKES SA UNIT #47				State: Zip:																	
Project Location: NEW MEXICO				Phone #:																	
Sampler Name: SIMON				Fax #:																	
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING											
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME							
H213227																					
21	SP 5 @ 2'												11/4/21	2:05PM	✓	✓	✓				
22	SP 5 @ 3'												11/4/21	2:11PM	✓	✓	✓				
23	SP 5 @ 4'												11/4/21	2:17PM	✓	✓	✓				
24	SP 6 @ SURFACE												11/4/21	2:24PM	✓	✓	✓				
25	SP 6 @ 1'												11/4/21	2:30PM	✓	✓	✓				
26	SP 6 @ 2'												11/4/21	2:41PM	✓	✓	✓				
27	SP 7 @ SURFACE												11/4/21	2:47PM	✓	✓	✓				
28	SP 7 @ 1'												11/4/21	2:54PM	✓	✓	✓				
29	SP 7 @ 2'												11/4/21	3:05PM	✓	✓	✓				
30	SP 8 @ SURFACE												11/5/21	9:50AM	✓	✓	✓				

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Relinquished By:	Date: 11-11-21	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Simon Dan</i>	Time: 8:00 AM	<i>Israel Pena</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 11-11-21	Received By:	REMARKS:	
<i>Israel Pena</i>	Time: 4:55 PM	<i>Samara Aldate</i>		
Delivered By: (Circle One)	6.1°C - 0.5°C	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	5.6°C #113	Cool Intact	<i>Y.O.</i>	
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

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(505) 393-2326 FAX (505) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>(505) 393-2326 FAX (505) 393-2476</b>					
Company Name: BBC International, Inc.				<b>BILL TO</b>	
Project Manager: Cliff Brunson				P.O. #:	
Address: P.O. Box 805				Company:	<i>Oxy</i>
City: Hobbs		State: NM Zip: 88241		Attn:	
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:	
Project #:		Project Owner: Oxy		City:	
Project Name: TWIN LAKES SA UNIT #47				State:	Zip:
Project Location: NEW MEXICO				Phone #:	
Sampler Name: SIMON				Fax #:	

FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING												
Lab I.D.	Sample I.D.	G/RAB OR (C)OMP. # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE	TIME										
H213287	SP 8 @ 1'				11/5/21	10:03AM	✓	✓	✓							
31	SP 8 @ 2'				11/5/21	10:10AM	✓	✓	✓							
32	SP 9 @ SURFACE				11/5/21	10:23AM	✓	✓	✓							
33	SP 9 @ 1'				11/5/21	10:31AM	✓	✓	✓							
34	SP 9 @ 2'				11/5/21	10:44AM	✓	✓	✓							
35	SP 10 @ SURFACE				11/5/21	11:02AM	✓	✓	✓							
36	SP 10 @ 1'				11/5/21	11:14AM	✓	✓	✓							
37	SP 10 @ 2'				11/5/21	11:22AM	✓	✓	✓							
38	SP 11 @ SURFACE				11/5/21	11:32AM	✓	✓	✓							
39	SP 11 @ 1'				11/5/21	11:44AM	✓	✓	✓							
40																

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Relinquished By: [Signature]		Date: 11-11-21	Received By: Isael Pena		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Time: 6:00 PM					Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By: Isael Pena		Date: 11-11-21	Received By: Tamara Oladipo		REMARKS:	
Time: 7:55 PM						
Delivered By: (Circle One)		Cool Intact	CHECKED BY:		(Initials)	
Sampler - UPS - Bus - Other:		[X] Yes [ ] No	[X] Yes [ ] No		TO	

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## CARDINAL LABORATORIES

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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO						ANALYSIS REQUEST													
Company Name: BBC International, Inc.						P.O. #:													
Project Manager: Cliff Brunson						Company:													
Address: P.O. Box 805						Attn:													
City: Hobbs State: NM Zip: 88241						Address:													
Phone #: 575-397-6388 Fax #: 575-397-0397						City:													
Project #: Project Owner: Oxy						State: Zip:													
Project Name: TWIN LAKES SA UNIT #47						Phone #:													
Project Location: NEW MEXICO						Fax #:													
Sampler Name: SIMON																			
FOR LAB USE ONLY						MATRIX	PRESERV	SAMPLING											
Lab I.D.	Sample I.D.	GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME					
H213227	SP 11 @ 2'												11/5/21	11:55AM	✓	✓	✓		
41	SP 12 @ SURFACE												11/5/21	12:45PM	✓	✓	✓		
42	SP 12 @ 1'												11/5/21	12:58PM	✓	✓	✓		
43	SP 12 @ 2'												11/5/21	1:08PM	✓	✓	✓		
44	SP 13 @ SURFACE												11/5/21	1:25PM	✓	✓	✓		
45	SP 13 @ 1'												11/5/21	1:33PM	✓	✓	✓		
46	SP 13 @ 2'												11/5/21	1:45PM	✓	✓	✓		
47																			

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Relinquished By: <i>Samon Day</i>		Date: <i>11-11-21</i>	Received By: <i>Isaiah Penn</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Time: <i>8:00 AM</i>				Add'l Fax #:
Relinquished By: <i>Isaiah Penn</i>		Date: <i>11-11-21</i>	Received By: <i>Samara Blalock</i>	REMARKS:
Time: <i>4:55 PM</i>				
Delivered By: (Circle One) <i>6.1c</i>		Sample Condition	CHECKED BY:	
C-052 Sampler - UPS - Bus - Other: <i>5.6c #113</i>		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials)	<i>TO.</i>

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



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

February 04, 2024

AIMEE COLE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: TWIN LAKES SA UNIT #047

Enclosed are the results of analyses for samples received by the laboratory on 02/01/24 10:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 AIMEE COLE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 02/01/2024  
 Reported: 02/04/2024  
 Project Name: TWIN LAKES SA UNIT #047  
 Project Number: 03E1417008  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 01/31/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SOUTH 1' (H240477-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2024	ND	2.13	107	2.00	1.71	
Toluene*	<0.050	0.050	02/02/2024	ND	2.14	107	2.00	1.60	
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.12	106	2.00	1.58	
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.39	107	6.00	1.50	
Total BTX	<0.300	0.300	02/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	176	16.0	02/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	197	98.3	200	1.42	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	213	106	200	5.11	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 AIMEE COLE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 02/01/2024  
 Reported: 02/04/2024  
 Project Name: TWIN LAKES SA UNIT #047  
 Project Number: 03E1417008  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 01/31/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SOUTH 2' (H240477-02)**

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	02/02/2024	ND	2.13	107	2.00	1.71		
Toluene*	<0.050	0.050	02/02/2024	ND	2.14	107	2.00	1.60		
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.12	106	2.00	1.58		
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.39	107	6.00	1.50		
Total BTEx	<0.300	0.300	02/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	304	16.0	02/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	193	96.7	200	1.46	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	202	101	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 AIMEE COLE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 02/01/2024  
 Reported: 02/04/2024  
 Project Name: TWIN LAKES SA UNIT #047  
 Project Number: 03E1417008  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 01/31/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EAST 2 SURFACE (H240477-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2024	ND	2.13	107	2.00	1.71	
Toluene*	<0.050	0.050	02/02/2024	ND	2.14	107	2.00	1.60	
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.12	106	2.00	1.58	
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.39	107	6.00	1.50	
Total BTEX	<0.300	0.300	02/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	02/02/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	193	96.7	200	1.46	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	202	101	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 AIMEE COLE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 02/01/2024  
 Reported: 02/04/2024  
 Project Name: TWIN LAKES SA UNIT #047  
 Project Number: 03E1417008  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 01/31/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EAST 2' (H240477-04)**

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	02/02/2024	ND	2.13	107	2.00	1.71	
Toluene*	<0.050	0.050	02/02/2024	ND	2.14	107	2.00	1.60	
Ethylbenzene*	<0.050	0.050	02/02/2024	ND	2.12	106	2.00	1.58	
Total Xylenes*	<0.150	0.150	02/02/2024	ND	6.39	107	6.00	1.50	
Total BTEX	<0.300	0.300	02/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	80.0	16.0	02/02/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	193	96.7	200	1.46	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	202	101	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS

Action 318624

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 318624
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2405244585
Incident Name	NAPP2405244585 TWIN LAKES SA UNIT #047 @ 30-005-60010
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-005-60010] TWIN LAKES SAN ANDRES UNIT #047

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	Twin Lakes SA Unit #047
Date Release Discovered	11/01/2021
Surface Owner	State

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil 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

<b>Nature and Volume of Release</b>	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Other   Unknown   Crude Oil   Released: 0 BBL (Unknown Released Amount)   Recovered: 0 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Other   Unknown   Produced Water   Released: 0 BBL (Unknown Released Amount)   Recovered: 0 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Historical release, volume is unknown. Oxy is not the Operator of the Incident Well and has no independent knowledge of the facts or circumstances surrounding the nature, content or volume of any release(s), contemporaneous to any such release(s). All information submitted by Oxy herein is based on Oxy's present day observations of the site, and educated guesses based on those observations. Oxy submits this Notification of Release pursuant to an agreement with the New Mexico State Land Office, as lessee of record.

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QUESTIONS, Page 2

Action 318624

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	318624
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
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	False
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	Historical release

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	No
--	----



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QUESTIONS, Page 3

Action 318624

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	318624
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

**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 26 and 50 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (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 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**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)	2200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2300
GRO+DRO (EPA SW-846 Method 8015M)	960
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	06/01/2024
On what date will (or did) the final sampling or liner inspection occur	08/30/2024
On what date will (or was) the remediation complete(d)	08/30/2024
What is the estimated surface area (in square feet) that will be reclaimed	16000
What is the estimated volume (in cubic yards) that will be reclaimed	800
What is the estimated surface area (in square feet) that will be remediated	16000
What is the estimated volume (in cubic yards) that will be remediated	800

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 318624

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	318624
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS****Remediation Plan (continued)**

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.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	R360 Artesia LLC LANDFARM [FEEM0112340644]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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 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
--	---

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 5  
  
Action 318624

QUESTIONS (continued)

Operator:  OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	318624
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

<b>Deferral Requests Only</b>	
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 318624

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	318624
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

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	No

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CONDITIONS  
  
Action 318624

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 318624
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved. Variance approved to collect floor samples from the excavation every 400 square feet. Submit remediation closure report to the OCD by 6/11/2024.	3/12/2024