



June 10, 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: Closure Request  
Twin Lakes SA Unit #037  
Incident Number nAPP2405245028  
Chaves County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Oxy USA Inc. (Oxy), has prepared this *Closure Request* as a follow-up to the *Remediation Work Plan* (Work Plan) submitted to the New Mexico Oil Conservation Division (NMOCD) on February 29, 2024, and approved by NMOCD on March 12, 2024. This *Closure Request* documents assessment, excavation, and soil sampling activities performed at the Twin Lakes SA Unit #037 (Site) to address historical impacted soil identified at the Site. Based on the remediation activities completed as outlined in the approved *Work Plan*, Oxy is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number nAPP2405245028.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit J, Section 36, Township 8 South, Range 28 East, in Chaves County, New Mexico (33.57565, -104.03840) 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 potential historical release area identified by the NMSLO. 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 nAPP2405245028.

Oxy is not the Operator of the Twin Lakes SA Unit #037 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 *Closure Request* pursuant to an agreement with the NMSLO, as lessee of record.

Oxy USA Inc.  
Closure Request  
Twin Lakes SA Unit #037

Since the release and subsequent excavation remained on a previously disturbed well pad, compliance with the Cultural Properties Protection (CPP) Rule is not required.

## 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 desktop review 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 1.1 miles southwest of the Site. The well has a total depth of 157 feet and a recorded depth to groundwater of 35.77 feet bgs. 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

As presented in the *Work Plan*, BBC and Ensolum personnel were at the Site during November 2021 and January 2024, to evaluate the release extent based on information provided by the NMSLO and visual observations. Five surface soil samples (North, East, East 2, West, and South) were collected around the historical release extent to confirm the lateral extent of the surface release. Potholes were advanced at eight sample points (SP1 through SP8) within the suspected release extent, to delineate 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 SP8 at depths ranging from the ground surface to 4 feet bgs. Soil from the potholes was field screened at 1-foot intervals 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-

Oxy USA Inc.  
Closure Request  
Twin Lakes SA Unit #037

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 visit and a photographic log is included in Appendix C.

Laboratory analytical results for surface soil samples North, East, East 2, West, and South indicated all COC concentrations were compliant with the Site Closure Criteria and confirmed the lateral extent of the surface release. Laboratory analytical results for the delineation soil samples collected from sample points SP1, SP5, and SP7, 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 SP2, SP3, SP4, SP6, and SP8 indicated that chloride or TPH concentrations exceeded the Site Closure Criteria at depths ranging from the ground surface to 3 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, excavation activities were completed at the Site as outlined in the approved *Work Plan*.

## EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

During April and May 2024, excavation of impacted soil was completed around sample points SP2, SP3, SP4, SP6, and SP8, as outlined in the approved *Work Plan*. To direct excavation activities, soil was field screened for VOCs and chloride. Excavation activities were performed utilizing a track-mounted backhoe and transport vehicles. The excavation was completed to depths ranging from 1.5 feet to 3.5 feet bgs.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS51, and FS34A were collected from the floor of the excavation at depths ranging from 1.5 feet to 3.5 feet bgs. Composite soil samples SW01 through SW09, and SW01A were collected from the sidewalls of the excavation at depths ranging from the ground surface to 3.5 feet bgs. The excavation soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3. Photographic documentation was completed during the excavation activities and a photographic log is included in Appendix C.

Laboratory analytical results for excavation floor samples FS01 through FS33, FS34A, and FS35 through FS51 and excavation sidewall samples SW01A, and SW02 through SW09, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for excavation floor sample FS34 and excavation sidewall sample SW01 initially exceeded the Site Closure Criteria for TPH or chloride; additional soil was removed from these areas and excavation samples FS34A and SW01A were compliant. Based on the laboratory analytical results, no further excavation was required. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix D.

The excavation measured approximately 10,100 square feet in areal extent. A total of approximately 1,000 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the Gandy Marley Inc. (GMI) landfill located in Roswell, New Mexico.

Oxy USA Inc.  
Closure Request  
Twin Lakes SA Unit #037

## RECLAMATION PLAN

The excavation area will be backfilled with locally procured topsoil and contoured to match the surrounding topography. Once backfilling activities are complete, a reclamation summary report and revegetation plan will be submitted to the NMOCD.

The Twin Lakes SA Unit #037 oil and gas well has been plugged and abandoned and the Site requires final reclamation activities. Upon closure approval of Incident Number nAPP2405245028, a detailed Reclamation Plan will be submitted to the NMSLO proposing final reclamation activities for the well pad and access road.

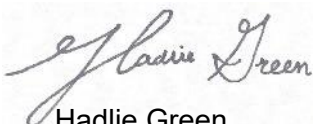
## CLOSURE REQUEST

As outlined in the approved *Work Plan*, excavation activities were conducted to address the historical impacted soil identified at the Site. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Based on excavation and soil sampling activities completed as outlined in the *Work Plan*, no further remediation is required.


Excavation of impacted soil has mitigated impacts at this Site. Oxy believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Number nAPP2405245028.

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

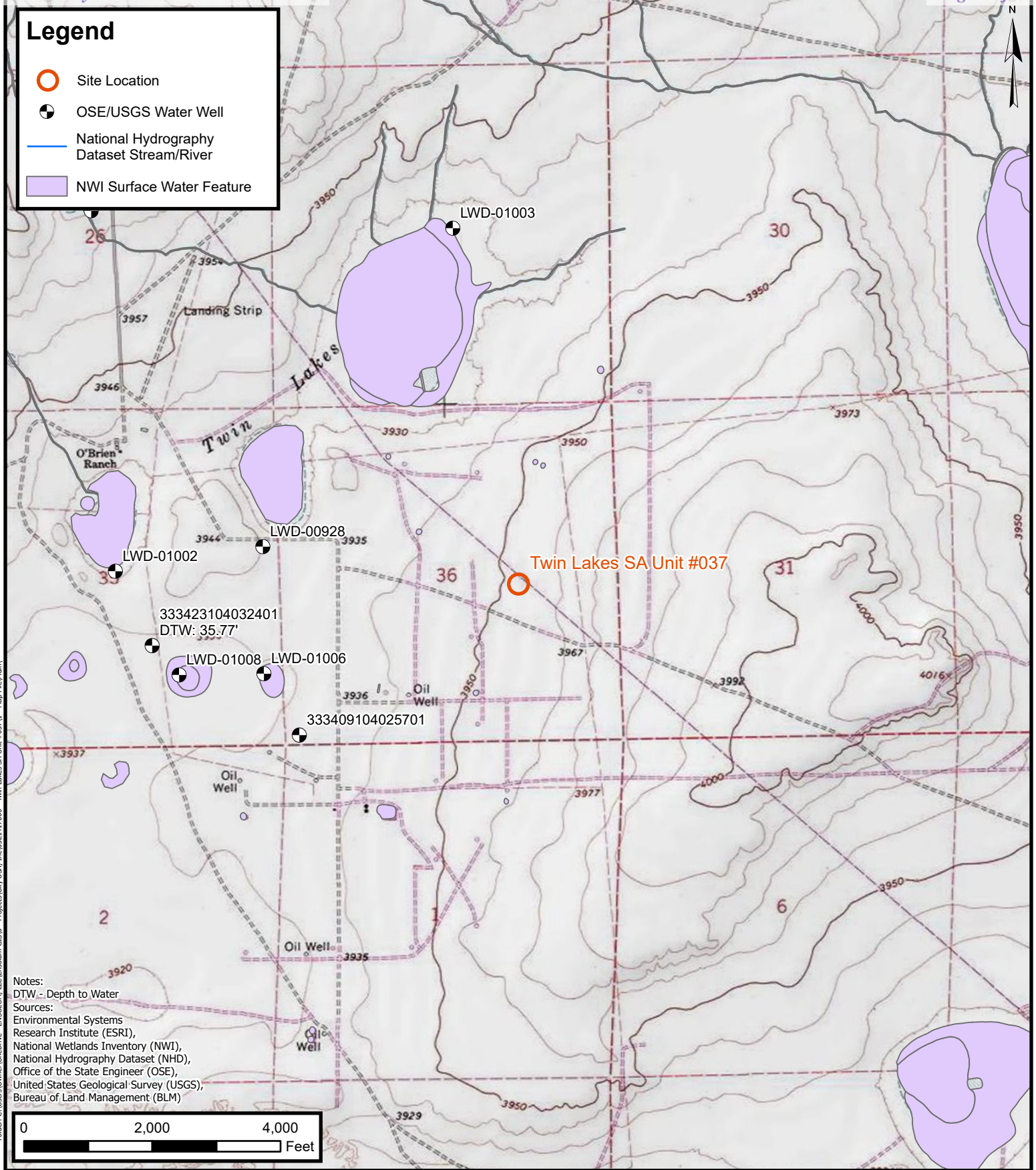
cc: Kalei Jennings, Oxy USA Inc.  
New Mexico State Land Office

### Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
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



## Site Receptor Map

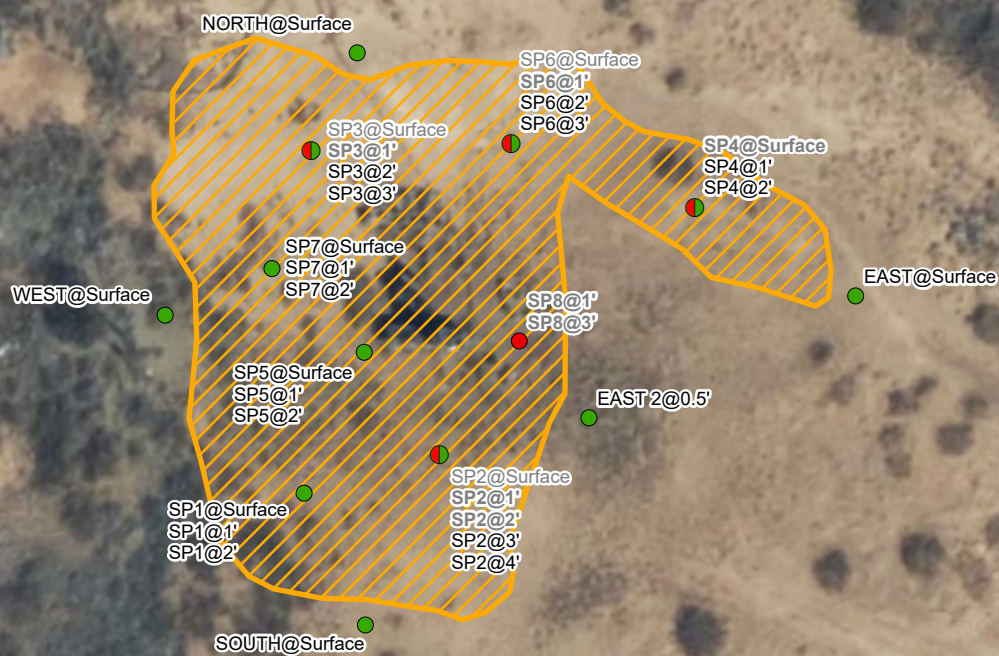
Oxy USA Inc.  
Twin Lakes SA Unit #037  
Incident Number: nAPP2405245028  
J-36-08S-28E  
Chaves County, New Mexico

**FIGURE**

**1**

## Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Initially Exceeding Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- Release Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in bold indicate sample exceeded applicable closure criteria.  
 Grey text indicate soil sample was removed during excavation activities.

0 12.5 25 50 75 100  
 Feet

Sources: Environmental Systems Research Institute (ESRI)



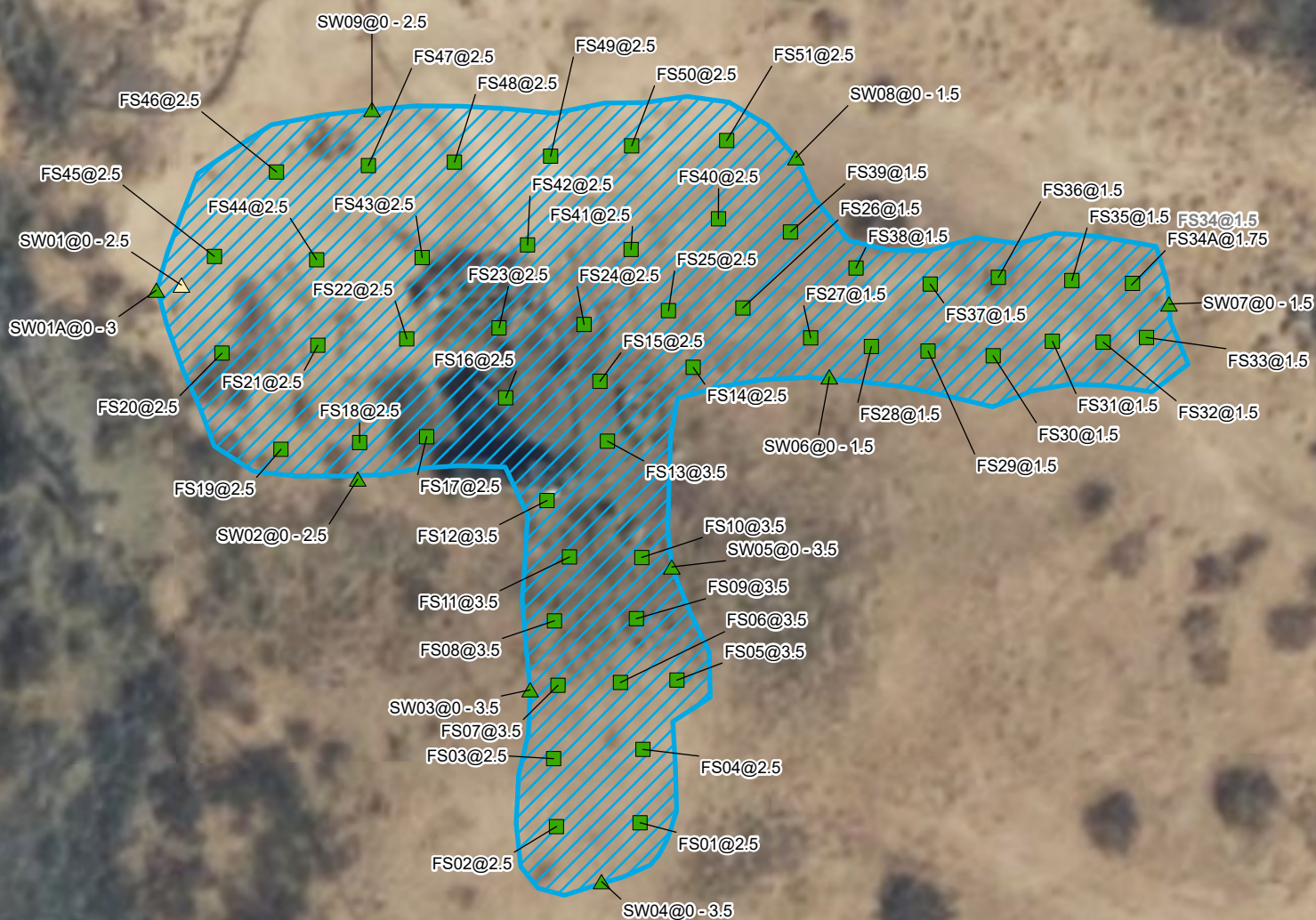
## Delineation Soil Sample Locations

Oxy USA Inc.  
 Twin Lakes SA Unit #037  
 Incident Number: NA  
 J-36-08S-28E  
 Chaves County, New Mexico

FIGURE  
 2

## Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- ▲ Removed Sidewall Sample
- ▨ Excavation Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in bold indicate sample exceeded applicable closure criteria.  
 Grey text indicate soil sample was removed during excavation activities.

0 5 10 20 30 40  
 Feet

Sources: Environmental Systems Research Institute (ESRI)



## Excavation Soil Sample Locations

Oxy USA Inc.  
 Twin Lakes SA Unit #037  
 Incident Number: NA  
 J-36-08S-28E  
 Chaves County, New Mexico

FIGURE

3



TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Twin Lakes SA Unit #037  
 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	11/09/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
East	11/09/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
East 2	01/30/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
West	11/09/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
South	11/09/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP1	11/09/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SP1	11/09/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
SP1	11/09/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SP2	11/09/2021	Surface	<0.050	<0.300	<10.0	25.7	37.5	25.7	63.2	144
SP2	11/09/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,040
SP2	11/09/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,010
SP2	11/09/2021	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
SP2	11/09/2021	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SP3	11/09/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SP3	11/09/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,340
SP3	11/09/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
SP3	11/10/2021	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SP4	11/10/2021	Surface	<0.050	<0.300	<10.0	179	385	179	564	32.0
SP4	11/10/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SP4	11/10/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SP5	11/10/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SP5	11/10/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SP5	11/10/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SP6	11/10/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SP6	11/10/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,090
SP6	11/10/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SP6	11/10/2021	3	<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 #037  
 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
SP7	11/10/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SP7	11/10/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SP7	11/10/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP8	01/30/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	992
SP8	01/30/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
Excavation Floor Soil Samples										
FS01	04/24/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS02	04/24/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS03	04/24/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS04	04/24/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS05	04/24/2024	3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS06	04/24/2024	3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS07	04/24/2024	3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS08	04/24/2024	3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS09	04/24/2024	3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS10	04/24/2024	3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS11	04/25/2024	3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS12	04/25/2024	3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS13	04/25/2024	3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS14	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS15	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS16	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
FS17	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS18	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS19	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS20	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544
FS21	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS22	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176



**TABLE 1**  
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 Twin Lakes SA Unit #037  
 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
FS23	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS24	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS25	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS26	04/25/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS27	04/25/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS28	04/25/2024	1.5	<0.050	<0.300	<10.0	10.3	<10.0	10.3	10.3	304
FS29	04/25/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS30	04/25/2024	1.5	<0.050	<0.300	<10.0	17.3	<10.0	17.3	17.3	256
FS31	04/25/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
FS32	04/25/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
FS33	04/25/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
FS34	04/25/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	624
FS34A	05/14/2024	1.75	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS35	04/25/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
FS36	04/25/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
FS37	04/25/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS38	04/25/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS39	04/25/2024	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS40	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
FS41	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
FS42	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS43	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS44	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS45	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
FS46	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
FS47	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS48	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Twin Lakes SA Unit #037  
 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
FS49	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS50	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS51	04/25/2024	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
Excavation Sidewall Soil Samples										
SW01	04/25/2024	0 - 2.5	<0.050	<0.300	<10.0	626	953	626	<b>1,579</b>	144
SW01A	05/14/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW02	04/25/2024	0 - 2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW03	04/25/2024	0 - 3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW04	04/25/2024	0 - 3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW05	04/25/2024	0 - 3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW06	04/25/2024	0 - 1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW07	04/25/2024	0 - 1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW08	04/25/2024	0 - 1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW09	04/25/2024	0 - 2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272

**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

---



[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.

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

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

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

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


0.36 0.31 nadww02





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*		
x											
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 Rev Date:					Source:		Shallow
Pump Type:				Pipe Discharge Size:					Estimated Yield:		10 GPM
Casing Size:		5.00		Depth Well:			922 feet		Depth Water:		600 feet
x											
Water Bearing Stratifications:				Top	Bottom	Description					
				862	920	Shallow Alluvium/Basin Fill					
x											
Casing Perforations:				Top	Bottom						
				832	922						
x											

\*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.



## APPENDIX B

### Lithologic Soil Sampling Logs

---

								Sample Name: SP8		Date: Jan 30, 2024	
								Site Name: Twin Lakes SA Unit #037			
								Incident Number: nAPP2405245028			
								Job Number: 03E1417006			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: K Shimada		Method: Backhoe	
Coordinates: 33.575575, -104.038537								Hole Diameter: N/A		Total Depth: 4'	
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			Surface	CL	CLAY, dark brown, some sand, subrounded, dry, no stain, no odor.			
D	840	0.0	N	SP8	1	1	CL	CLAY, brown, some sand, subrounded, dry, no stain, no odor.			
D	767.2	0.0	N			2	CL	CLAY, brown, some sand, subrounded, dry, no stain, no odor.			
D	632.8	0.0	N	SP8	3	3	CL	CLAY, reddish brown, some sand, subrounded, dry, no stain, no odor.			
D	1165	0.0	N			4	CL	CLAY, reddish brown, some sand, subrounded, dry, no stain, no odor.			
Total Depth @ 4 feet bgs											



## APPENDIX C

### Photographic Log

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## Photographic Log

Oxy USA Inc.

Twin Lakes SA Unit #037

Incident Number nAPP2405245028



Photograph 1

Date: 01/30/2024

Description: View of well pad

View: West



Photograph 2

Date: 01/30/2024

Description: View of well pad

View: Southwest



Photograph 3

Date: 01/30/2024

Description: Delineation Activities

View: Northwest



Photograph 4

Date: 01/30/2024

Description: Delineation Activities

View: Northwest



## Photographic Log

Oxy USA Inc.

Twin Lakes SA Unit #037

Incident Number nAPP2405245028

Date & Time: Wed, Apr 24, 2024 at 13:57:48 MDT  
 Position: 033.575362° N / 104.038600° W (±13.0ft)  
 Altitude: 3961ft (±7.9ft)  
 Datum: WGS-84  
 Azimuth/Bearing: 017° N17E 0302mils True (±11°)  
 Elevation Angle: -10.2°  
 Horizon Angle: +00.2°  
 Zoom: 1.0X



Photograph 1

Date: 4/24/2024

Description: Excavation activities

View: Northeast

Date & Time: Thu, Apr 25, 2024 at 13:05:56 MDT  
 Position: 033.575599° N / 104.038533° W (±14.9ft)  
 Altitude: 3958ft (±12.0ft)  
 Datum: WGS-84  
 Azimuth/Bearing: 296° N64W 5262mils True (±12°)  
 Elevation Angle: -07.6°  
 Horizon Angle: +00.2°  
 Zoom: 0.5X



Photograph 2

Date: 4/25/2024

Description: Excavation activities

View: Northwest

Date & Time: Tue, May 14, 2024 at 11:19:36 MDT  
 Position: 033.575641° N / 104.038516° W (±21.2ft)  
 Altitude: 3960ft (±7.9ft)  
 Datum: WGS-84  
 Azimuth/Bearing: 258° S78W 4587mils True (±11°)  
 Elevation Angle: -03.9°  
 Horizon Angle: +00.2°  
 Zoom: 2.0X



Photograph 3

Date: 5/14/2024

Description: Excavation activities

View: Southwest

Date & Time: Tue, May 14, 2024 at 09:16:28 MDT  
 Position: 033.575582° N / 104.038376° W (±30.7ft)  
 Altitude: 3960ft (±7.9ft)  
 Datum: WGS-84  
 Azimuth/Bearing: 032° N32E 0569mils True (±11°)  
 Elevation Angle: -10.5°  
 Horizon Angle: -03.8°  
 Zoom: 0.5X



Photograph 4

Date: 5/14/2024

Description: Excavation activities

View: Northeast



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

---



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 #37

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/11/2021	Sampling Date:	11/09/2021
Reported:	11/16/2021	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: NORTH @ SURFACE (H213229-01)**

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	2.20	110	2.00	4.80	
Toluene*	<0.050	0.050	11/12/2021	ND	2.08	104	2.00	4.14	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	2.06	103	2.00	3.87	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	6.31	105	6.00	4.33	
Total BTEX	<0.300	0.300	11/12/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/15/2021	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	11/15/2021	ND	222	111	200	7.35	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	217	109	200	7.79	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 99.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.1 % 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 #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/09/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EAST @ SURFACE (H213229-02)**

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	2.20	110	2.00	4.80	
Toluene*	<0.050	0.050	11/12/2021	ND	2.08	104	2.00	4.14	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	2.06	103	2.00	3.87	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	6.31	105	6.00	4.33	
Total BTEx	<0.300	0.300	11/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/15/2021	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	11/15/2021	ND	222	111	200	7.35	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	217	109	200	7.79	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.6 % 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 #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/09/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WEST @ SURFACE (H213229-03)**

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	2.20	110	2.00	4.80		
Toluene*	<0.050	0.050	11/12/2021	ND	2.08	104	2.00	4.14		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	2.06	103	2.00	3.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	6.31	105	6.00	4.33		
Total BTX	<0.300	0.300	11/12/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/15/2021	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	11/15/2021	ND	222	111	200	7.35	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	217	109	200	7.79	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 88.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.4 % 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 #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/09/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SOUTH @ SURFACE (H213229-04)**

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	2.20	110	2.00	4.80	
Toluene*	<0.050	0.050	11/12/2021	ND	2.08	104	2.00	4.14	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	2.06	103	2.00	3.87	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	6.31	105	6.00	4.33	
Total BTEx	<0.300	0.300	11/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/15/2021	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	11/15/2021	ND	222	111	200	7.35	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	217	109	200	7.79	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 78.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.6 % 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	Sampling Date:	11/09/2021
Reported:	11/16/2021	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: SP 1 @ SURFACE (H213229-05)**

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	2.20	110	2.00	4.80	
Toluene*	<0.050	0.050	11/12/2021	ND	2.08	104	2.00	4.14	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	2.06	103	2.00	3.87	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	6.31	105	6.00	4.33	
Total BTX	<0.300	0.300	11/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/15/2021	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	11/15/2021	ND	222	111	200	7.35	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	217	109	200	7.79	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	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 #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/09/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 1' (H213229-06)**

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	2.20	110	2.00	4.80	
Toluene*	<0.050	0.050	11/12/2021	ND	2.08	104	2.00	4.14	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	2.06	103	2.00	3.87	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	6.31	105	6.00	4.33	
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: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	11/15/2021	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	11/15/2021	ND	222	111	200	7.35	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	217	109	200	7.79	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 81.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.3 % 38.9-142

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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/09/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 2' (H213229-07)**

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	11/12/2021	ND	2.20	110	2.00	4.80		
Toluene*	<0.050	0.050	11/12/2021	ND	2.08	104	2.00	4.14		
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	2.06	103	2.00	3.87		
Total Xylenes*	<0.150	0.150	11/12/2021	ND	6.31	105	6.00	4.33		
Total BTEx	<0.300	0.300	11/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/15/2021	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	11/15/2021	ND	222	111	200	7.35	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	217	109	200	7.79	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 94.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.6 % 38.9-142

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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/09/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ SURFACE (H213229-08)**

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	2.20	110	2.00	4.80	
Toluene*	<0.050	0.050	11/12/2021	ND	2.08	104	2.00	4.14	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	2.06	103	2.00	3.87	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	6.31	105	6.00	4.33	
Total BTX	<0.300	0.300	11/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/15/2021	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	11/15/2021	ND	222	111	200	7.35	
DRO >C10-C28*	25.7	10.0	11/15/2021	ND	217	109	200	7.79	
EXT DRO >C28-C36	37.5	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 79.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.7 % 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 #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/09/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 2' (H213229-09)**

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	2.20	110	2.00	4.80	
Toluene*	<0.050	0.050	11/12/2021	ND	2.08	104	2.00	4.14	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	2.06	103	2.00	3.87	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	6.31	105	6.00	4.33	
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: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	11/15/2021	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	11/15/2021	ND	222	111	200	7.35	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	217	109	200	7.79	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 92.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.6 % 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 #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/09/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 3' (H213229-10)**

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	2.20	110	2.00	4.80	
Toluene*	<0.050	0.050	11/12/2021	ND	2.08	104	2.00	4.14	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	2.06	103	2.00	3.87	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	6.31	105	6.00	4.33	
Total BTX	<0.300	0.300	11/12/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	11/15/2021	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	11/15/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.5 % 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 #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/09/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 4' (H213229-11)**

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	2.20	110	2.00	4.80	
Toluene*	<0.050	0.050	11/12/2021	ND	2.08	104	2.00	4.14	
Ethylbenzene*	<0.050	0.050	11/12/2021	ND	2.06	103	2.00	3.87	
Total Xylenes*	<0.150	0.150	11/12/2021	ND	6.31	105	6.00	4.33	
Total BTEX	<0.300	0.300	11/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/15/2021	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	11/15/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 88.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.4 % 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 #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/09/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ SURFACE (H213229-12)**

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	11/13/2021	ND	2.20	110	2.00	4.80	
Toluene*	<0.050	0.050	11/13/2021	ND	2.08	104	2.00	4.14	
Ethylbenzene*	<0.050	0.050	11/13/2021	ND	2.06	103	2.00	3.87	
Total Xylenes*	<0.150	0.150	11/13/2021	ND	6.31	105	6.00	4.33	
Total BTEX	<0.300	0.300	11/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/15/2021	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	11/15/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.3 % 38.9-142

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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/09/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 1' (H213229-13)**

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	11/13/2021	ND	2.20	110	2.00	4.80	
Toluene*	<0.050	0.050	11/13/2021	ND	2.08	104	2.00	4.14	
Ethylbenzene*	<0.050	0.050	11/13/2021	ND	2.06	103	2.00	3.87	
Total Xylenes*	<0.150	0.150	11/13/2021	ND	6.31	105	6.00	4.33	
Total BTEx	<0.300	0.300	11/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	11/15/2021	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	11/15/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 97.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.1 % 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	Sampling Date:	11/09/2021
Reported:	11/16/2021	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: SP 3 @ 2' (H213229-14)**

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	11/13/2021	ND	2.20	110	2.00	4.80		
Toluene*	<0.050	0.050	11/13/2021	ND	2.08	104	2.00	4.14		
Ethylbenzene*	<0.050	0.050	11/13/2021	ND	2.06	103	2.00	3.87		
Total Xylenes*	<0.150	0.150	11/13/2021	ND	6.31	105	6.00	4.33		
Total BTEx	<0.300	0.300	11/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	11/15/2021	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	11/15/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-133

Surrogate: 1-Chlorooctadecane 113 % 38.9-142

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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 #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/10/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 3' (H213229-15)**

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	11/15/2021	ND	2.08	104	2.00	6.71	
Toluene*	<0.050	0.050	11/15/2021	ND	2.06	103	2.00	5.73	
Ethylbenzene*	<0.050	0.050	11/15/2021	ND	2.04	102	2.00	4.99	
Total Xylenes*	<0.150	0.150	11/15/2021	ND	6.22	104	6.00	5.45	
Total BTX	<0.300	0.300	11/15/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/15/2021	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	11/15/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 96.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.8 % 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	Sampling Date:	11/10/2021
Reported:	11/16/2021	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: SP 4 @ SURFACE (H213229-16)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/15/2021	ND	2.08	104	2.00	6.71		
Toluene*	<0.050	0.050	11/15/2021	ND	2.06	103	2.00	5.73		
Ethylbenzene*	<0.050	0.050	11/15/2021	ND	2.04	102	2.00	4.99		
Total Xylenes*	<0.150	0.150	11/15/2021	ND	6.22	104	6.00	5.45		
Total BTEX	<0.300	0.300	11/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/15/2021	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	11/16/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	179	10.0	11/16/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	385	10.0	11/16/2021	ND					

Surrogate: 1-Chlorooctane 81.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.5 % 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 #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/10/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ 1' (H213229-17)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/15/2021	ND	2.08	104	2.00	6.71		
Toluene*	<0.050	0.050	11/15/2021	ND	2.06	103	2.00	5.73		
Ethylbenzene*	<0.050	0.050	11/15/2021	ND	2.04	102	2.00	4.99		
Total Xylenes*	<0.150	0.150	11/15/2021	ND	6.22	104	6.00	5.45		
Total BTEX	<0.300	0.300	11/15/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/15/2021	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	11/15/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-133

Surrogate: 1-Chlorooctadecane 107 % 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 #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/10/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ 2' (H213229-18)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/15/2021	ND	2.08	104	2.00	6.71		
Toluene*	<0.050	0.050	11/15/2021	ND	2.06	103	2.00	5.73		
Ethylbenzene*	<0.050	0.050	11/15/2021	ND	2.04	102	2.00	4.99		
Total Xylenes*	<0.150	0.150	11/15/2021	ND	6.22	104	6.00	5.45		
Total BTEx	<0.300	0.300	11/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/15/2021	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	11/15/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 90.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.4 % 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 #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/10/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ SURFACE (H213229-19)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2021	ND	2.08	104	2.00	6.71	
Toluene*	<0.050	0.050	11/15/2021	ND	2.06	103	2.00	5.73	
Ethylbenzene*	<0.050	0.050	11/15/2021	ND	2.04	102	2.00	4.99	
Total Xylenes*	<0.150	0.150	11/15/2021	ND	6.22	104	6.00	5.45	
Total BTEX	<0.300	0.300	11/15/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/15/2021	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	11/15/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 104 % 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 #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/10/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ 1' (H213229-20)**

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	11/15/2021	ND	2.08	104	2.00	6.71	
Toluene*	<0.050	0.050	11/15/2021	ND	2.06	103	2.00	5.73	
Ethylbenzene*	<0.050	0.050	11/15/2021	ND	2.04	102	2.00	4.99	
Total Xylenes*	<0.150	0.150	11/15/2021	ND	6.22	104	6.00	5.45	
Total BTX	<0.300	0.300	11/15/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/15/2021	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	11/15/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 96.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 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 #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/10/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ 2' (H213229-21)**

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	11/15/2021	ND	2.08	104	2.00	6.71	
Toluene*	<0.050	0.050	11/15/2021	ND	2.06	103	2.00	5.73	
Ethylbenzene*	<0.050	0.050	11/15/2021	ND	2.04	102	2.00	4.99	
Total Xylenes*	<0.150	0.150	11/15/2021	ND	6.22	104	6.00	5.45	
Total BTX	<0.300	0.300	11/15/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/15/2021	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	11/15/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 99.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 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 #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/10/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 6 @ SURFACE (H213229-22)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/15/2021	ND	2.08	104	2.00	6.71		
Toluene*	<0.050	0.050	11/15/2021	ND	2.06	103	2.00	5.73		
Ethylbenzene*	<0.050	0.050	11/15/2021	ND	2.04	102	2.00	4.99		
Total Xylenes*	<0.150	0.150	11/15/2021	ND	6.22	104	6.00	5.45		
Total BTEx	<0.300	0.300	11/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/15/2021	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	11/15/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.3 % 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 #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/10/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 6 @ 1' (H213229-23)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2021	ND	2.08	104	2.00	6.71	
Toluene*	<0.050	0.050	11/15/2021	ND	2.06	103	2.00	5.73	
Ethylbenzene*	<0.050	0.050	11/15/2021	ND	2.04	102	2.00	4.99	
Total Xylenes*	<0.150	0.150	11/15/2021	ND	6.22	104	6.00	5.45	
Total BTEx	<0.300	0.300	11/15/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	11/15/2021	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	11/15/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 99.3 % 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	Sampling Date:	11/10/2021
Reported:	11/16/2021	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: SP 6 @ 2' (H213229-24)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/15/2021	ND	2.08	104	2.00	6.71		
Toluene*	<0.050	0.050	11/15/2021	ND	2.06	103	2.00	5.73		
Ethylbenzene*	<0.050	0.050	11/15/2021	ND	2.04	102	2.00	4.99		
Total Xylenes*	<0.150	0.150	11/15/2021	ND	6.22	104	6.00	5.45		
Total BTEx	<0.300	0.300	11/15/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	11/15/2021	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	11/15/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 95.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.0 % 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 #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/10/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 6 @ 3' (H213229-25)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2021	ND	2.08	104	2.00	6.71	
Toluene*	<0.050	0.050	11/15/2021	ND	2.06	103	2.00	5.73	
Ethylbenzene*	<0.050	0.050	11/15/2021	ND	2.04	102	2.00	4.99	
Total Xylenes*	<0.150	0.150	11/15/2021	ND	6.22	104	6.00	5.45	
Total BTEx	<0.300	0.300	11/15/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/15/2021	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	11/15/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 91.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.4 % 38.9-142

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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/10/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 7 @ SURFACE (H213229-26)**

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	11/15/2021	ND	2.08	104	2.00	6.71	
Toluene*	<0.050	0.050	11/15/2021	ND	2.06	103	2.00	5.73	
Ethylbenzene*	<0.050	0.050	11/15/2021	ND	2.04	102	2.00	4.99	
Total Xylenes*	<0.150	0.150	11/15/2021	ND	6.22	104	6.00	5.45	
Total BTX	<0.300	0.300	11/15/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/15/2021	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	11/15/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-133

Surrogate: 1-Chlorooctadecane 100 % 38.9-142

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**Analytical Results For:**

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

Received: 11/11/2021  
 Reported: 11/16/2021  
 Project Name: TWIN LAKES SA UNIT #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/10/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 7 @ 1' (H213229-27)**

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	11/15/2021	ND	2.08	104	2.00	6.71	
Toluene*	<0.050	0.050	11/15/2021	ND	2.06	103	2.00	5.73	
Ethylbenzene*	<0.050	0.050	11/15/2021	ND	2.04	102	2.00	4.99	
Total Xylenes*	<0.150	0.150	11/15/2021	ND	6.22	104	6.00	5.45	
Total BTX	<0.300	0.300	11/15/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/15/2021	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	11/15/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-133

Surrogate: 1-Chlorooctadecane 108 % 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 #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/10/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 7 @ 2' (H213229-28)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2021	ND	2.08	104	2.00	6.71	
Toluene*	<0.050	0.050	11/15/2021	ND	2.06	103	2.00	5.73	
Ethylbenzene*	<0.050	0.050	11/15/2021	ND	2.04	102	2.00	4.99	
Total Xylenes*	<0.150	0.150	11/15/2021	ND	6.22	104	6.00	5.45	
Total BTEX	<0.300	0.300	11/15/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/15/2021	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	11/15/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 108 % 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 #37  
 Project Number: NONE GIVEN  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/09/2021  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 1' (H213229-29)**

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	11/15/2021	ND	2.08	104	2.00	6.71	
Toluene*	<0.050	0.050	11/15/2021	ND	2.06	103	2.00	5.73	
Ethylbenzene*	<0.050	0.050	11/15/2021	ND	2.04	102	2.00	4.99	
Total Xylenes*	<0.150	0.150	11/15/2021	ND	6.22	104	6.00	5.45	
Total BTX	<0.300	0.300	11/15/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	11/15/2021	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	11/15/2021	ND	196	98.2	200	5.52	
DRO >C10-C28*	<10.0	10.0	11/15/2021	ND	180	90.2	200	18.0	
EXT DRO >C28-C36	<10.0	10.0	11/15/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 104 % 38.9-142

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Notes and Definitions

- QR-04            The RPD for the BS/BSD was outside of historical limits.
- ND                Analyte NOT DETECTED at or above the reporting limit
- RPD               Relative Percent Difference
- \*\*                 Samples not received at proper temperature of 6°C or below.
- \*\*\*                Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

Celey D. Keene, Lab Director/Quality Manager



## • CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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



## • ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.						<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																							
Project Manager: Cliff Brunson						P.O. #:																									
Address: P.O. Box 805						Company: ONLY																									
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 #37						State:		Zip:																							
Project Location: NEW MEXICO						Phone #:																									
Sampler Name: SIMON						Fax #:																									
FOR LAB USE ONLY																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING																			
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME															
H21329																	C	BTEX	TPH EXT												
11	SP 2 @ 4'														11/9/21	2:44PM	✓	✓	✓												
12	SP 3 @ SURFACE														11/9/21	2:52PM	✓	✓	✓												
13	SP 3 @ 1'														11/9/21	3:01PM	✓	✓	✓												
14	SP 3 @ 2'														11/9/21	3:07PM	✓	✓	✓												
15	SP 3 @ 3'														11/10/21	9:40AM	✓	✓	✓												
16	SP 4 @ SURFACE														11/10/21	10:02AM	✓	✓	✓												
17	SP 4 @ 1'														11/10/21	10:11AM	✓	✓	✓												
18	SP 4 @ 2'														11/10/21	10:20AM	✓	✓	✓												
19	SP 5 @ SURFACE														11/10/21	10:33AM	✓	✓	✓												
20	SP 5 @ 1'														11/10/21	10:47AM	✓	✓	✓												
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																															
Relinquished By: Simon J. Lee				Date: 11-11-21 Time: 8:00 AM		Received By: Isaac Pena				Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:																			
Relinquished By: Isaac Pena				Date: 11-11-21 Time: 4:55 PM		Received By: Tamara Aldridge				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:																			
Delivered By: (Circle One) C-O-S-E				Sample Condition		CHECKED BY: (Initials)																									
Sampler - UPS - Bus - Other: S-6-C #113				Cool Intact		T.O.																									
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																											
				<input type="checkbox"/> No <input type="checkbox"/> No																											

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

† 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 #037

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 #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 01/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 08 1' (H240474-01)**

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	02/01/2024	ND	2.20	110	2.00	9.52	
Toluene*	<0.050	0.050	02/01/2024	ND	2.28	114	2.00	10.4	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.41	120	2.00	9.83	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	7.22	120	6.00	10.1	
Total BTX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	02/02/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	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 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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:**

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 #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 01/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 08 3' (H240474-02)**

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	02/01/2024	ND	2.20	110	2.00	9.52		
Toluene*	<0.050	0.050	02/01/2024	ND	2.28	114	2.00	10.4		
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.41	120	2.00	9.83		
Total Xylenes*	<0.150	0.150	02/01/2024	ND	7.22	120	6.00	10.1		
Total BTEX	<0.300	0.300	02/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	02/02/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	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 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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 #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 01/30/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EAST 2 0.5' (H240474-03)**

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	02/01/2024	ND	2.20	110	2.00	9.52		
Toluene*	<0.050	0.050	02/01/2024	ND	2.28	114	2.00	10.4		
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.41	120	2.00	9.83		
Total Xylenes*	<0.150	0.150	02/01/2024	ND	7.22	120	6.00	10.1		
Total BTEx	<0.300	0.300	02/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/02/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	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 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-07      The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND      Analyte NOT DETECTED at or above the reporting limit
- RPD      Relative Percent Difference
- \*\*      Samples not received at proper temperature of 6°C or below.
- \*\*\*      Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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

Caley D. Keene, Lab Director/Quality Manager

**101 East Marland, Hobbs, NM 88240**  
**(575) 393-2326 FAX (575) 393-2476**

Page 6 of 6



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

---

May 02, 2024

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

RE: TWIN LAKES SA UNIT #037

Enclosed are the results of analyses for samples received by the laboratory on 04/26/24 13:05.

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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 01 2.5 (H242241-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	8.22	
Toluene*	<0.050	0.050	04/30/2024	ND	2.23	112	2.00	8.86	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.25	113	2.00	9.05	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.80	113	6.00	7.73	
Total BTX	<0.300	0.300	04/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	210	105	200	2.30	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	232	116	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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:**

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

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 02 2.5 (H242241-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	8.22		
Toluene*	<0.050	0.050	04/30/2024	ND	2.23	112	2.00	8.86		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.25	113	2.00	9.05		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.80	113	6.00	7.73		
Total BTEX	<0.300	0.300	04/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	210	105	200	2.30	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	232	116	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 54.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 54.5 % 49.1-148

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:**

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

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 03 2.5 (H242241-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	8.22		
Toluene*	<0.050	0.050	04/30/2024	ND	2.23	112	2.00	8.86		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.25	113	2.00	9.05		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.80	113	6.00	7.73		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	210	105	200	2.30	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	232	116	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 04 2.5 (H242241-04)**

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	04/30/2024	ND	2.15	108	2.00	8.22		
Toluene*	<0.050	0.050	04/30/2024	ND	2.23	112	2.00	8.86		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.25	113	2.00	9.05		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.80	113	6.00	7.73		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	210	105	200	2.30	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	232	116	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.8 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 05 3.5 (H242241-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	8.22		
Toluene*	<0.050	0.050	04/30/2024	ND	2.23	112	2.00	8.86		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.25	113	2.00	9.05		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.80	113	6.00	7.73		
Total BTEX	<0.300	0.300	04/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	210	105	200	2.30	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	232	116	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 73.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.5 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 06 3.5 (H242241-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	8.22		
Toluene*	<0.050	0.050	04/30/2024	ND	2.23	112	2.00	8.86		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.25	113	2.00	9.05		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.80	113	6.00	7.73		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.7 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 07 3.5 (H242241-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	8.22		
Toluene*	<0.050	0.050	04/30/2024	ND	2.23	112	2.00	8.86		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.25	113	2.00	9.05		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.80	113	6.00	7.73		
Total BTEX	<0.300	0.300	04/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/30/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 08 3.5 (H242241-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	8.22		
Toluene*	<0.050	0.050	04/30/2024	ND	2.23	112	2.00	8.86		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.25	113	2.00	9.05		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.80	113	6.00	7.73		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	144	16.0	04/30/2024	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	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 09 3.5 (H242241-09)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	8.22		
Toluene*	<0.050	0.050	04/30/2024	ND	2.23	112	2.00	8.86		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.25	113	2.00	9.05		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.80	113	6.00	7.73		
Total BTX	<0.300	0.300	04/30/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/30/2024	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	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 10 3.5 (H242241-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	8.22		
Toluene*	<0.050	0.050	04/30/2024	ND	2.23	112	2.00	8.86		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.25	113	2.00	9.05		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.80	113	6.00	7.73		
Total BTEX	<0.300	0.300	04/30/2024	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	80.0	16.0	04/30/2024	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	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.8 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 11 3.5 (H242241-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	8.22		
Toluene*	<0.050	0.050	04/30/2024	ND	2.23	112	2.00	8.86		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.25	113	2.00	9.05		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.80	113	6.00	7.73		
Total BTEX	<0.300	0.300	04/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/30/2024	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	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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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:**

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

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 12 3.5 (H242241-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	8.22		
Toluene*	<0.050	0.050	04/30/2024	ND	2.23	112	2.00	8.86		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.25	113	2.00	9.05		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.80	113	6.00	7.73		
Total BTEX	<0.300	0.300	04/30/2024	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	128	16.0	04/30/2024	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	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 13 3.5 (H242241-13)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.15	108	2.00	8.22		
Toluene*	<0.050	0.050	04/30/2024	ND	2.23	112	2.00	8.86		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.25	113	2.00	9.05		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.80	113	6.00	7.73		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	128	16.0	04/30/2024	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	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 14 2.5 (H242241-14)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	112	16.0	04/30/2024	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	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.2 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 15 2.5 (H242241-15)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	192	16.0	04/30/2024	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	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.9 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 16 2.5 (H242241-16)**

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	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	432	16.0	04/30/2024	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	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 17 2.5 (H242241-17)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	04/30/2024	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	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.8 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 18 2.5 (H242241-18)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	144	16.0	04/30/2024	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	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.5 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 19 2.5 (H242241-19)**

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	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	208	16.0	04/30/2024	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	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 20 2.5 (H242241-20)**

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	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	544	16.0	04/30/2024	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	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 21 2.5 (H242241-21)**

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	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	128	16.0	04/30/2024	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	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.8 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 22 2.5 (H242241-22)**

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	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	04/30/2024	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	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.0 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 23 2.5 (H242241-23)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	192	16.0	04/30/2024	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	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 24 2.5 (H242241-24)**

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	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	04/30/2024	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	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.4 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 25 2.5 (H242241-25)**

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	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	112	16.0	04/30/2024	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	04/29/2024	ND	203	102	200	4.94	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	193	96.7	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 26 1.5 (H242241-26)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	112	16.0	04/30/2024	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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 27 1.5 (H242241-27)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	96.0	16.0	04/30/2024	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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 28 1.5 (H242241-28)**

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	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	04/30/2024	ND	432	108	400	0.00	QM-07	

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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	10.3	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 29 1.5 (H242241-29)**

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	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/30/2024	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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 30 1.5 (H242241-30)**

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	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/30/2024	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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	17.3	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 31 1.5 (H242241-31)**

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	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	04/30/2024	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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 32 1.5 (H242241-32)**

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	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	04/30/2024	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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 68.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.3 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 33 1.5 (H242241-33)**

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	04/30/2024	ND	1.97	98.7	2.00	4.08		
Toluene*	<0.050	0.050	04/30/2024	ND	2.00	99.9	2.00	3.40		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.03	101	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	5.94	99.0	6.00	3.37		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	04/30/2024	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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 34 1.5 (H242241-34)**

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	04/29/2024	ND	2.23	112	2.00	7.00		
Toluene*	<0.050	0.050	04/29/2024	ND	2.05	102	2.00	6.52		
Ethylbenzene*	<0.050	0.050	04/29/2024	ND	1.99	99.6	2.00	4.99		
Total Xylenes*	<0.150	0.150	04/29/2024	ND	6.05	101	6.00	4.82		
Total BTEX	<0.300	0.300	04/29/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	04/30/2024	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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 35 1.5 (H242241-35)**

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	04/29/2024	ND	2.23	112	2.00	7.00		
Toluene*	<0.050	0.050	04/29/2024	ND	2.05	102	2.00	6.52		
Ethylbenzene*	<0.050	0.050	04/29/2024	ND	1.99	99.6	2.00	4.99		
Total Xylenes*	<0.150	0.150	04/29/2024	ND	6.05	101	6.00	4.82		
Total BTEX	<0.300	0.300	04/29/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	04/30/2024	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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 36 1.5 (H242241-36)**

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	04/29/2024	ND	2.23	112	2.00	7.00		
Toluene*	<0.050	0.050	04/29/2024	ND	2.05	102	2.00	6.52		
Ethylbenzene*	<0.050	0.050	04/29/2024	ND	1.99	99.6	2.00	4.99		
Total Xylenes*	<0.150	0.150	04/29/2024	ND	6.05	101	6.00	4.82		
Total BTEX	<0.300	0.300	04/29/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	04/30/2024	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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 37 1.5 (H242241-37)**

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	04/30/2024	ND	2.13	107	2.00	2.41		
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81	QR-03	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31	QR-03	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54	QR-03	
Total BTEX	<0.300	0.300	04/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/30/2024	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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 68.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 38 1.5 (H242241-38)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	2.41	
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54	
Total BTEX	<0.300	0.300	04/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/30/2024	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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 39 1.5 (H242241-39)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	2.41	
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54	
Total BTX	<0.300	0.300	04/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/30/2024	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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 40 2.5 (H242241-40)**

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	04/30/2024	ND	2.13	107	2.00	2.41		
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	04/30/2024	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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 41 2.5 (H242241-41)**

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	04/30/2024	ND	2.13	107	2.00	2.41	
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54	
Total BTEX	<0.300	0.300	04/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	04/30/2024	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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 72.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.7 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 42 2.5 (H242241-42)**

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	04/30/2024	ND	2.13	107	2.00	2.41		
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54		
Total BTEX	<0.300	0.300	04/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/30/2024	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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 43 2.5 (H242241-43)**

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	04/30/2024	ND	2.13	107	2.00	2.41	
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54	
Total BTEX	<0.300	0.300	04/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/30/2024	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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 44 2.5 (H242241-44)**

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	04/30/2024	ND	2.13	107	2.00	2.41	
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54	
Total BTEX	<0.300	0.300	04/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	04/30/2024	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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 45 2.5 (H242241-45)**

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	04/30/2024	ND	2.13	107	2.00	2.41	
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54	
Total BTEX	<0.300	0.300	04/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	04/30/2024	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	04/29/2024	ND	200	100	200	0.504	
DRO >C10-C28*	<10.0	10.0	04/29/2024	ND	197	98.5	200	3.24	
EXT DRO >C28-C36	<10.0	10.0	04/29/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 46 2.5 (H242241-46)**

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	04/30/2024	ND	2.13	107	2.00	2.41		
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	04/30/2024	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	04/30/2024	ND	200	100	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	191	95.5	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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**Analytical Results For:**

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

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 47 2.5 (H242241-47)**

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	04/30/2024	ND	2.13	107	2.00	2.41	
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54	
Total BTEX	<0.300	0.300	04/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/30/2024	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	04/30/2024	ND	200	100	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	191	95.5	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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**Analytical Results For:**

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

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 48 2.5 (H242241-48)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	2.41		
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	464	16.0	04/30/2024	ND	448	112	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	04/30/2024	ND	200	100	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	191	95.5	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 49 2.5 (H242241-49)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	2.41		
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	04/30/2024	ND	448	112	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	04/30/2024	ND	200	100	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	191	95.5	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

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

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 50 2.5 (H242241-50)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	2.41		
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	256	16.0	04/30/2024	ND	448	112	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	04/30/2024	ND	200	100	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	191	95.5	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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**Analytical Results For:**

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

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS 51 2.5 (H242241-51)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	2.41		
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	288	16.0	04/30/2024	ND	448	112	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	04/30/2024	ND	234	117	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	237	118	200	0.0630	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 01 0 - 2.5 (H242241-52)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	2.41		
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	144	16.0	04/30/2024	ND	448	112	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	04/30/2024	ND	234	117	200	1.03	
DRO >C10-C28*	626	10.0	04/30/2024	ND	237	118	200	0.0630	
EXT DRO >C28-C36	953	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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**Analytical Results For:**

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

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 02 0 - 2.5 (H242241-53)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	2.41	
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54	
Total BTEX	<0.300	0.300	04/30/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/30/2024	ND	448	112	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	04/30/2024	ND	234	117	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	237	118	200	0.0630	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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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:**

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

Received: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 03 0 - 3.5 (H242241-54)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	2.41		
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	04/30/2024	ND	448	112	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	04/30/2024	ND	234	117	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	237	118	200	0.0630	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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\*=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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 04 0 - 3.5 (H242241-55)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	2.41		
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/30/2024	ND	448	112	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	04/30/2024	ND	234	117	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	237	118	200	0.0630	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 05 0 - 3.5 (H242241-56)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	2.41		
Toluene*	<0.050	0.050	04/30/2024	ND	2.05	103	2.00	3.81		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.04	102	2.00	2.31		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.24	104	6.00	2.54		
Total BTEX	<0.300	0.300	04/30/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/30/2024	ND	448	112	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	04/30/2024	ND	234	117	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	237	118	200	0.0630	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 06 0 - 1.5 (H242241-57)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.17	108	2.00	4.89		
Toluene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	4.39		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.09	105	2.00	3.95		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.14	102	6.00	4.25		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.3 % 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	04/30/2024	ND	448	112	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	04/30/2024	ND	234	117	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	237	118	200	0.0630	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 07 0 - 1.5 (H242241-58)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.17	108	2.00	4.89		
Toluene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	4.39		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.09	105	2.00	3.95		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.14	102	6.00	4.25		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 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	160	16.0	04/30/2024	ND	448	112	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	04/30/2024	ND	234	117	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	237	118	200	0.0630	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 08 0 - 1.5 (H242241-59)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/30/2024	ND	2.17	108	2.00	4.89	
Toluene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	4.39	
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.09	105	2.00	3.95	
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.14	102	6.00	4.25	
Total BTEX	<0.300	0.300	04/30/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 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	128	16.0	04/30/2024	ND	448	112	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	04/30/2024	ND	234	117	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	237	118	200	0.0630	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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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: 04/26/2024  
 Reported: 05/02/2024  
 Project Name: TWIN LAKES SA UNIT #037  
 Project Number: 03E1417006  
 Project Location: OXY- CHAVES COUNTY, NM

Sampling Date: 04/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 09 0 - 2.5 (H242241-60)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/30/2024	ND	2.17	108	2.00	4.89		
Toluene*	<0.050	0.050	04/30/2024	ND	2.13	107	2.00	4.39		
Ethylbenzene*	<0.050	0.050	04/30/2024	ND	2.09	105	2.00	3.95		
Total Xylenes*	<0.150	0.150	04/30/2024	ND	6.14	102	6.00	4.25		
Total BTEX	<0.300	0.300	04/30/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 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	272	16.0	04/30/2024	ND	448	112	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	04/30/2024	ND	234	117	200	1.03	
DRO >C10-C28*	<10.0	10.0	04/30/2024	ND	237	118	200	0.0630	
EXT DRO >C28-C36	<10.0	10.0	04/30/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03      The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07      The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND          Analyte NOT DETECTED at or above the reporting limit
- RPD        Relative Percent Difference
- \*\*          Samples not received at proper temperature of 6°C or below.
- \*\*\*        Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Ensolum, LLC <b>Project Manager:</b> Aimee Cole <b>Address:</b> 601 N. Marientfield St. STE 400 <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79701 <b>Phone #:</b> 720-384-7365 <b>Fax #:</b> <b>Project #:</b> 03E1417006 <b>Project Owner:</b> <b>Project Name:</b> Twin Lakes SA Unit #037 <b>Project Location:</b> Chaves County <b>Sampler Name:</b> Tabitha Guadalupe				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Oxy USA, Inc. <b>Attn:</b> Wade Dittich <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> 575-390-2828 <b>Fax #:</b>				<b>ANALYSIS REQUEST</b>					
FOR LAB USE ONLY													
<b>Lab I.D.</b>		<b>Sample I.D.</b>		<b>Sample Depth (feet)</b>		(G)RAB OR (C)OMP. # CONTAINERS		<b>MATRIX</b>		<b>PRESERV.</b>		<b>SAMPLING</b>	
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :					
								ACID/BASE: ICE / COOL OTHER :					
										DATE		TIME	
1 FS01 2.5 C 1										4/24/14 1400		X X X	
2 FS02 2.5 C 1										4/24/14 1402		X X X	
3 FS03 2.5 C 1										4/24/14 1404		X X X	
4 FS04 2.5 C 1										4/24/14 1406		X X X	
5 FS05 3.5 C 1										4/24/14 1408		X X X	
6 FS06 3.5 C 1										4/24/14 1410		X X X	
7 FS07 3.5 C 1										4/24/14 1412		X X X	
8 FS08 3.5 C 1										4/24/14 1414		X X X	
9 FS09 3.5 C 1										4/24/14 1416		X X X	
10 FS10 3.5 C 1										4/24/14 1418		X X X	

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<b>Relinquished By:</b> <i>[Signature]</i> <b>Date:</b> 4/24/14		<b>Received By:</b> <i>[Signature]</i> <b>Date:</b> 4/24/14	
<b>Relinquished By:</b> <i>[Signature]</i> <b>Date:</b> 4/24/14		<b>Received By:</b> <i>[Signature]</i> <b>Date:</b> 4/24/14	
<b>REMARKS:</b>			

<b>Delivered By:</b> (Circle One) Sampler - UPS - Bus - Other:		<b>Observed Temp. °C:</b> 29.9 <b>Corrected Temp. °C:</b>		<b>Sample Condition</b> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		<b>CHECKED BY:</b> <i>[Signature]</i> (Initials)	
<b>Turnaround Time:</b>		<b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/>		<b>Bacteria (only)</b> <input type="checkbox"/> <b>Cool Intact</b> <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>		<b>Sample Condition</b> Observed Temp. °C Corrected Temp. °C	

FORM 0006-R-3-2-10/07/12



**101 East Marland, Hobbs, NM 88240**  
**(575) 393-2326 FAX (575) 393-2476**

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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---

May 23, 2024

AIMEE COLE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: TWIN LAKES SA UNIT #037

Enclosed are the results of analyses for samples received by the laboratory on 05/15/24 12:50.

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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705Project: TWIN LAKES SA UNIT #037  
Project Number: 03E1417006  
Project Manager: AIMEE COLE  
Fax To:Reported:  
23-May-24 12:46

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 34A 1.75'	H242676-01	Soil	14-May-24 09:20	15-May-24 12:50
SW 01A 0-3'	H242676-02	Soil	14-May-24 11:10	15-May-24 12:50

05/23/24 - Client added analysis on 05/21/24 (see COC). This is the revised report and will replace the one sent on 05/21/24.

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: TWIN LAKES SA UNIT #037  
Project Number: 03E1417006  
Project Manager: AIMEE COLE  
Fax To:

Reported:  
23-May-24 12:46

**FS 34A 1.75'**  
**H242676-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	4051627	AC	16-May-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052129	MS	22-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052129	MS	22-May-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134 4052129 MS 22-May-24 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4052202	MS	22-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4052202	MS	22-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4052202	MS	22-May-24	8015B	

Surrogate: 1-Chlorooctane 121 % 48.2-134 4052202 MS 22-May-24 8015B

Surrogate: 1-Chlorooctadecane 127 % 49.1-148 4052202 MS 22-May-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: TWIN LAKES SA UNIT #037  
Project Number: 03E1417006  
Project Manager: AIMEE COLE  
Fax To:

Reported:  
23-May-24 12:46

**SW 01A 0-3'**  
**H242676-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	4052237	HM	22-May-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4052129	MS	22-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4052129	MS	22-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4052129	MS	22-May-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %	71.5-134		4052129	MS	22-May-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4051535	MS	16-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4051535	MS	16-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4051535	MS	16-May-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.5 %	48.2-134		4051535	MS	16-May-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			113 %	49.1-148		4051535	MS	16-May-24	8015B	
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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:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: TWIN LAKES SA UNIT #037  
Project Number: 03E1417006  
Project Manager: AIMEE COLE  
Fax To:

Reported:  
23-May-24 12:46

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4051627 - 1:4 DI Water****Blank (4051627-BLK1)**

Prepared &amp; Analyzed: 16-May-24

Chloride	ND	16.0	mg/kg							
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**LCS (4051627-BS1)**

Prepared &amp; Analyzed: 16-May-24

Chloride	432	16.0	mg/kg	400		108	80-120			
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**LCS Dup (4051627-BSD1)**

Prepared &amp; Analyzed: 16-May-24

Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20	
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**Batch 4052237 - 1:4 DI Water****Blank (4052237-BLK1)**

Prepared &amp; Analyzed: 22-May-24

Chloride	ND	16.0	mg/kg							
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**LCS (4052237-BS1)**

Prepared &amp; Analyzed: 22-May-24

Chloride	432	16.0	mg/kg	400		108	80-120			
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**LCS Dup (4052237-BSD1)**

Prepared &amp; Analyzed: 22-May-24

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: TWIN LAKES SA UNIT #037  
Project Number: 03E1417006  
Project Manager: AIMEE COLE  
Fax To:

Reported:  
23-May-24 12:46

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4052129 - Volatiles****Blank (4052129-BLK1)**

Prepared: 21-May-24 Analyzed: 22-May-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0556		mg/kg	0.0500		111	71.5-134			

**LCS (4052129-BS1)**

Prepared: 21-May-24 Analyzed: 22-May-24

Benzene	1.72	0.050	mg/kg	2.00		86.1	82.8-130			
Toluene	1.77	0.050	mg/kg	2.00		88.3	86-128			
Ethylbenzene	1.80	0.050	mg/kg	2.00		89.9	85.9-128			
m,p-Xylene	3.62	0.100	mg/kg	4.00		90.6	89-129			
o-Xylene	1.80	0.050	mg/kg	2.00		90.2	86.1-125			
Total Xylenes	5.43	0.150	mg/kg	6.00		90.4	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0498		mg/kg	0.0500		99.6	71.5-134			

**LCS Dup (4052129-BS1)**

Prepared: 21-May-24 Analyzed: 22-May-24

Benzene	1.74	0.050	mg/kg	2.00		87.0	82.8-130	1.06	15.8	
Toluene	1.79	0.050	mg/kg	2.00		89.4	86-128	1.25	15.9	
Ethylbenzene	1.82	0.050	mg/kg	2.00		90.8	85.9-128	1.03	16	
m,p-Xylene	3.70	0.100	mg/kg	4.00		92.5	89-129	2.09	16.2	
o-Xylene	1.85	0.050	mg/kg	2.00		92.3	86.1-125	2.28	16.7	
Total Xylenes	5.55	0.150	mg/kg	6.00		92.4	88.2-128	2.16	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0516		mg/kg	0.0500		103	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: TWIN LAKES SA UNIT #037  
Project Number: 03E1417006  
Project Manager: AIMEE COLE  
Fax To:

Reported:  
23-May-24 12:46

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4051535 - General Prep - Organics****Blank (4051535-BLK1)**

Prepared: 15-May-24 Analyzed: 16-May-24

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	52.5		mg/kg	50.0		105	48.2-134		
Surrogate: 1-Chlorooctadecane	59.6		mg/kg	50.0		119	49.1-148		

**LCS (4051535-BS1)**

Prepared: 15-May-24 Analyzed: 16-May-24

GRO C6-C10	182	10.0	mg/kg	200		91.1	66.4-123		
DRO >C10-C28	182	10.0	mg/kg	200		91.1	66.5-118		
Total TPH C6-C28	364	10.0	mg/kg	400		91.1	77.6-123		
Surrogate: 1-Chlorooctane	56.7		mg/kg	50.0		113	48.2-134		
Surrogate: 1-Chlorooctadecane	60.6		mg/kg	50.0		121	49.1-148		

**LCS Dup (4051535-BS1)**

Prepared: 15-May-24 Analyzed: 16-May-24

GRO C6-C10	175	10.0	mg/kg	200		87.7	66.4-123	3.81	17.7
DRO >C10-C28	172	10.0	mg/kg	200		86.2	66.5-118	5.52	21
Total TPH C6-C28	348	10.0	mg/kg	400		87.0	77.6-123	4.66	18.5
Surrogate: 1-Chlorooctane	56.6		mg/kg	50.0		113	48.2-134		
Surrogate: 1-Chlorooctadecane	64.3		mg/kg	50.0		129	49.1-148		

**Batch 4052202 - General Prep - Organics****Blank (4052202-BLK1)**

Prepared &amp; Analyzed: 22-May-24

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	61.4		mg/kg	50.0		123	48.2-134		
Surrogate: 1-Chlorooctadecane	61.7		mg/kg	50.0		123	49.1-148		

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
705 W WADLEY AVE.  
MIDLAND TX, 79705

Project: TWIN LAKES SA UNIT #037  
Project Number: 03E1417006  
Project Manager: AIMEE COLE  
Fax To:

Reported:  
23-May-24 12:46

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4052202 - General Prep - Organics****LCS (4052202-BS1)**

Prepared &amp; Analyzed: 22-May-24

GRO C6-C10	207	10.0	mg/kg	200		104	66.4-123			
DRO >C10-C28	208	10.0	mg/kg	200		104	66.5-118			
Total TPH C6-C28	416	10.0	mg/kg	400		104	77.6-123			
Surrogate: 1-Chlorooctane	66.4		mg/kg	50.0		133	48.2-134			
Surrogate: 1-Chlorooctadecane	69.1		mg/kg	50.0		138	49.1-148			

**LCS Dup (4052202-BS1)**

Prepared &amp; Analyzed: 22-May-24

GRO C6-C10	207	10.0	mg/kg	200		104	66.4-123	0.0391	17.7	
DRO >C10-C28	206	10.0	mg/kg	200		103	66.5-118	1.10	21	
Total TPH C6-C28	413	10.0	mg/kg	400		103	77.6-123	0.528	18.5	
Surrogate: 1-Chlorooctane	59.5		mg/kg	50.0		119	48.2-134			
Surrogate: 1-Chlorooctadecane	59.1		mg/kg	50.0		118	49.1-148			

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

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

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: Ensolum, LLC

Project Manager: Aimee Cole

Address: 601 N. Marientfeld St. STE 400

City: Midland

Phone #: 720-384-7365

State: TX Zip: 79701

Project #: 03E1417006

Project Name: Twin Lakes SA Unit #637

Project Location: Chaves County

Sampler Name: Tabitha Guadian

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Sample Depth (feet)

FS34A  
SW01A  
1.75  
0-3

5/11/24 0920

Chlorides  
TPH

added BTEX 5/21/24  
added CL 5/21/24 to  
added TPH 5/21/24

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BILL TO

P.O. #:

Company: Oxy USA, Inc.

Attn: Wade Dittrich

Address:

City:

State: Zip:

Phone #: 575-390-2828

Fax #:

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

QUESTIONS  
  
Action 352521

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	352521
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2405245028
Incident Name	NAPP2405245028 TWIN LAKES SA UNIT #037 @ 30-005-60973
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-005-60973] TWIN LAKES SAN ANDRES UNIT #037

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Twin Lakes SA Unit #037
Date Release Discovered	11/01/2021
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	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 352521

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	352521
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	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	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 02/28/2024
--	---

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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 352521

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	352521
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 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	No

**Remediation Plan**

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

Requesting a remediation plan approval with this submission	Yes
---	-----

Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.

Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

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

Chloride (EPA 300.0 or SM4500 Cl B)	3040
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	564
GRO+DRO (EPA SW-846 Method 8015M)	179
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	9700
What is the estimated volume (in cubic yards) that will be reclaimed	600
What is the estimated surface area (in square feet) that will be remediated	9700
What is the estimated volume (in cubic yards) that will be remediated	600

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 352521

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 352521
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	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	No
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 02/28/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5  
  
Action 352521

QUESTIONS (continued)

Operator:  OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:  16696
	Action Number:  352521
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 352521

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	352521
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	342623
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/15/2024
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	400

**Remediation Closure Request**

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	10100
What was the total volume (cubic yards) remediated	1000
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	10100
What was the total volume (in cubic yards) reclaimed	1000
Summarize any additional remediation activities not included by answers (above)	The well has been P&A'd and the well pad will be reclaimed. Excavation confirmation samples meet NMOCD reclamation requirements.

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

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

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 06/10/2024
--	---

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QUESTIONS, Page 7  
  
Action 352521

QUESTIONS (continued)

Operator:  OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:  16696
	Action Number:  352521
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS  
  
Action 352521

CONDITIONS

Operator:  OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	352521
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	6/17/2024