

REMEDIATION CLOSURE REPORT

Property:

Shell State 1C CTB

Unit C, S36, T22S, R32E 32.354063° N, 103.631131° W Lea County, New Mexico Facility ID: fAPP2127031415 NMOCD Incident ID: nAPP2402456040

April 28, 2025

Ensolum Project No. 03B1417144

Prepared for:

Oxy USA, Inc. PO Box 4324 Houston, Texas 77210

Attn: Wade Dittrich

Prepared by:

Kelly Øowery, GI♥ Project Geologist

Beaux Jennings Associate Principal

Shell State 1C CTB

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Shell State 1C CTB

Unit C, S36, T22S, R32E 32.354063° N, 103.631131° W Lea County, New Mexico Facility ID: fAPP2127031415 NMOCD Incident ID: nAPP2402456040

Ensolum Project No. 03B1417144

1.0 INTRODUCTION

1.1 Site Description and Background

Operator:	Oxy USA, INC.
Site Name:	Shell State 1C CTB
Location:	Unit C, Section 36, Township 22 South, Range 32 East Facility ID: fAPP2127031415 32.354063° N, 103.631131° W Lea County, New Mexico
Property:	New Mexico State Trust Land managed by the New Mexico State Land Office (NMSLO)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On January 23, 2024, Oxy had a release of produced water at the Shell State 1C CTB, hereinafter referred to as the "Site", due to a ball valve being left open on a cut transfer line. Approximately 40 barrels (bbls) of produced water was released onto the ground surface with 2.5 bbls of produced water recovered and 10 bbls of oil released with 2.5 bbls of oil recovered. Oxy subsequently reported the release to the New Mexico EMNRD OCD via a report through the online notice of release (NOR) form on January 24, 2024. The release was assigned Incident Number nAPP2402456040.

The **Topographic Map** depicting the location of the Site is included as **Figure 1**, and the **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

1.2 **Project Objective**

The primary objective of the closure activities was to reduce chemicals of concern (COC) concentrations in the on-Site soil to be in compliance with the applicable New Mexico EMNRD OCD closure criteria concentrations.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases,* which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Oxy, the general Site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to determine the appropriate closure criteria for the Site.



Supporting documentation and figures associated with the following bullets are provided in **Appendix B**.

- No exploratory water wells were identified within a 0.5-mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database.
 - Due to the unknown depth to groundwater in the 0.5-mile vicinity, a depth to water soil boring (SB01/C-04908-POD1) was installed on December 9, 2024 by West Texas Water Well Service (WTWWS), a licensed driller in the state of New Mexico, and Ensolum personnel. The soil boring was installed on Oxy's Covington A Federal #09 pad approximately 0.18-miles north of the Site to a total depth of 110 feet below ground surface (bgs) and was left open for at least 72-hours to confirm the presence or absence of groundwater. On December 12, 2024, the soil boring was gauged with no groundwater encountered at 110 feet bgs.
- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church.
- According to the OSE WRSS database, there are no private, domestic freshwater wells used by less than five households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database, no freshwater wells have been identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to New Mexico Statute Annotated (NMSA) 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's Geographical Information System (GIS), Maps, and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- Based on the Karst Occurrence Potential (.kmz) provided by the BLM, the Site is located within a stable area, also referred to as low karst potential.
- The Site is not located within a 100-year floodplain.

Based on the identified siting criteria, cleanup goals for soils remaining in place at the Site include:



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CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE (REMEDIATION ZONE)					
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit		
	Chloride	EPA 300.0 or SM4500 CI B	20,000 mg/kg		
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg		
>100 feet	TPH (GRO+DRO)	EPA SW-846 Method 8015M	1,000 mg/kg		
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg		
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg		

3.0 SOIL REMEDIATION ACTIVITIES

On January 23, 2024, Oxy had a release of produced water at the Site due to a ball valve being left open on a cut transfer line. Approximately 40 bbls of produced water was released onto the ground surface with 2.5 bbls of produced water recovered and 10 bbls of oil released with 2.5 bbls of oil recovered.

Due to the Site being located on NMSLO land, an Archeological Records Management System (ARMS) review was required prior to beginning remediation activities. This review would determine if any known cultural properties had been previously identified within the proposed remediation area and if the area had been previously surveyed for cultural resources.

On April 24, 2024, on behalf of Oxy, Beaver Creek Archaeology and Environmental (Beaver Creek) presented their ARMs Review findings to the NMSLO. Their review indicated that the area had required a pedestrian survey be conducted since to ensure no cultural properties were in close vicinity to the Site. No cultural properties were found within the survey area and it was recommended that a finding of No Historic Properties Affected with no further archaeological work be approved for remediation activities to proceed.

On June 20, 2024, Oxy was awarded a positive response ARMS review and approval from NMSLO to proceed with remediation activities with no conditions.

On October 10, 2024, subsequent to excavation activities, Ensolum arrived on-Site to collect 32 composite soil samples from the excavation floor (FS01 through FS32) at depths ranging from 9 to 13 feet bgs, and 26 composite soil samples from 14 locations on the excavation sidewalls (SW01 through SW14) at depths ranging from 0-4 feet, 4-9 feet, 4-13 feet, and 9-13 feet bgs. Based on laboratory analytical data, additional excavation and/or remediation was required.

From January 22 2025 through January 24, 2025, subsequent to additional excavation activities, Ensolum arrived on-Site to collect 27 composite soil samples from the excavation floor (FS01 through FS08, FS10 through FS22, FS27, and FS29 through FS33) at depths ranging from 11 to 17 feet bgs, and 16 composite soil samples from 12 locations on the excavation sidewalls (SW01 through SW12) at depths ranging from 0-4 and 4-15 feet bgs. During this time, the locations of



excavation sidewall SW13 and SW14 were removed due to additional excavation activities. Based on laboratory analytical data, additional excavation and/or remediation was required.

On February 6, 2025, subsequent to additional excavation activities, Ensolum arrived on-Site to collect one composite soil sample from the excavation floor (FS16) at a depth of 18 feet bgs and one composite soil sample from the excavation sidewall (SW16) at a depth of 13-18 feet bgs. Based on laboratory analytical data, no additional excavation and/or remediation was required.

The composite soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), motor oil/lube oil range organics (MRO), and chloride in accordance with the New Mexico EMNRD OCD Closure Criteria for Soils Impacted by a Release (NMOCD Closure Criteria).

The final excavation area measured approximately 69 feet long and 61 feet wide at its minimum extents and 121 feet long and 117 feet wide at its maximum extents with a depth ranging from 9 to 18 feet bgs.

The lithology encountered during the completion of closure activities consisted of the Pyote and Maljamar Fine Sands, (PU) with fine sand from the surface to 30 inches bgs, and a fine sandy loam from 30 inches bgs to at least 60 inches bgs.

The excavation measured approximately 9,872 square feet in arial extent. A total of approximately 4,733 cubic yards (cy) of soil were excavated from the Site and hauled off for proper disposal at the Lea Land Facility located in Hobbs, New Mexico. A total of approximately 1,463 cy of soil was reclaimed per the 19.15.29.13 NMAC Reclamation Requirements for the top four feet of soil (Reclamation Requirements).

After confirmation sampling was completed, the backfill of the excavation was completed utilizing material purchased locally from the Stacy Mills Pit (Mills Ranch Pit) for soils greater than 4 feet bgs (Remediation Zone) and from the DR PI Topsoil for soils less than 4 feet bgs (Reclamation Zone) and then re-contoured to match pre-existing conditions.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the impacted soil and excavation extent with respect to the release (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

4.0 SOIL SAMPLING PROGRAM

Ensolum's soil sampling program from October 10, 2024, to February 6, 2025, included the collection of a total of 60 composite soil samples from 33 locations from the excavation floor (FS01 through FS33) and 43 composite soil samples from 15 locations from the excavation sidewalls (SW01 through SW14 and SW16). Additionally, one composite soil sample was collected from the backfill material used at the Site for soil in the Remediation Zone (Mills Ranch Pit) on September 30, 2024 and from the backfill material used at the Site for soils in the Reclamation Zone (DR PI Topsoil) on February 6, 2025, prior to use at the Site.

The composite soil samples were collected and placed in laboratory-prepared glassware, labeled/sealed using laboratory-supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to Cardinal Laboratories in Hobbs, New Mexico, under proper chain-of-custody procedures.



Remediation Closure Report Shell State 1C CTB

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX following the United States Environmental Protection Agency (EPA) SW-846 Method 8021B, TPH GRO/DRO/MRO following EPA SW-846 Method 8015M/D, and chloride using SM4500CI-B.

Laboratory analytical results are summarized in **Table 1, Table 2, Table 3**, and **Table 4** in **Appendix D**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix E**.

6.0 DATA EVALUATION

Ensolum compared the benzene, total BTEX, TPH-GRO/DRO/MRO, and chloride concentrations to laboratory sample detection limits (SDLs) associated with the soils remaining in place at the Site to the applicable NMOCD Closure Criteria. The final composite soil samples collected from the Remediation Zone were compared to the NMOCD Closure Criteria for Soils Impacted by a Release (Remediation Zone), while the final composite soil samples collected from the Reclamation Zone were compared to the NMOCD Closure Criteria for soils Impacted by a Release (Remediation Zone).

- Laboratory analytical results indicated benzene concentrations for the soils remaining in place at the Site, and the backfill material did not exceed the laboratory SDLs or the applicable NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicated that total BTEX concentrations for the soils remaining in place at the Site and the backfill material did not exceed the laboratory SDLs or the applicable NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicated that the combined TPH-GRO/DRO concentrations for soils remaining in place at the Site in the Remediation Zone did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 1,000 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicated that the combined TPH-GRO/DRO/MRO concentrations for the soils remaining in place at the Site in the Remediation Zone did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 2,500 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicated chloride concentrations for soils remaining in place at the Site in the Remediation Zone did not exceed the laboratory SDLs and/or applicable NMOCD Closure Criteria of 20,000 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicated combined TPH-GRO/DRO/MRO concentrations for the soils remaining in place at the Site in the Reclamation Zone and the backfill materials did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 100 mg/kg for depth to groundwater ≤50 feet.
- Laboratory analytical results indicated chloride concentrations for the soils remaining in place at the Site in the Reclamation Zone and the backfill materials did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 600 mg/kg for depth to groundwater ≤50 feet.

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Laboratory analytical results are summarized in **Table 1**, **Table 2**, **Table 3**, and **Table 4** in **Appendix D**.

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60 inches bgs;

The release occurred in pasture, and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off-pad area in the Reclamation Zone that was impacted by the release per 19.15.29.13.D (1) NMAC Reclamation Requirements for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan addresses reclamation of the pasture area: The soil in the vicinity of the release includes: PU with fine sand from the surface to 30 inches bgs, and a fine sandy loam from 30 inches bgs to at least

- The excavation was backfilled with locally sourced topsoil from the DR PI Topsoil and recontoured to match the surrounding grade;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the NMSLO to meet reclamation standards for this region, which will be Blow Sand/Deep Sand (BS/DS) Sites Seed Mixture as described in the NMSLO Revegetation Guidelines Handbook for Southeastern New Mexico, dated 2018;
- The following Revegetation Procedure will be implemented:
 - For flat or gently sloping areas with slopes less than or equal to 3H:1V;
 - Soil Amendments: Apply composted manure or similar at the rate of 30.0 air dry tons/acre;
 - Fertilize: Type 2;
 - Mulch Grass Hay mulch applied at 2.0 tons/acre;
 - Prepare the seedbed and incorporate mulch, fertilizer, and soil amendments:
 - Scarify
 - Disc (thoroughly mix mulch, fertilizer, and soil amendments in top 6-8 inches of soil before proceeding);
 - Drill Seed use rangeland drill and apply Drill box seed to 0.5-0.75 inch depth, apply small seed to surface and lightly cover with drag chains or packer wheels or equal;
 - Mulch Grass Hay mulch applied at 2.0 tons/acre;
 - Crimp;
 - Tackify tackify to minimize risk of mulch blowing and to hold soil and mulch in place until vegetation begins to establish, and;
 - Wind Fence Install wind fence.
- Backfilling of the excavation has already been completed;
- Seeding is anticipated to be completed in the spring/summer when temperatures and precipitation are most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost. NMSLO has recognized the optimal time to seed is between July and early September, which will be adhered to for this Site; and
- Annual inspections (at a minimum) will take place on the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Spring/Fall to assess the success of regrowth. If necessary, an additional application of the NMSLO-approved pure live seed mixture will be applied as well, and any needed BMPs will be installed to support growth and limit erosion.

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8.0 FINDINGS AND RECOMMENDATION

- On January 23, 2024, Oxy had a release of produced water at the Site due to a ball valve being left open on a cut transfer line. Approximately 40 bbls of produced water was released onto the ground surface with 2.5 bbls of produced water recovered and 10 bbls of oil released with 2.5 bbls of oil recovered.
- Ensolum's soil sampling program from October 10, 2024, to February 6, 2025, included the collection of a total of 60 composite soil samples from 33 locations from the excavation floor (FS01 through FS33) and 43 composite soil samples from 15 locations from the excavation sidewalls (SW01 through SW14 and SW16). Additionally, one composite soil sample was collected from the backfill material used at the Site for soil in the Remediation Zone (Mills Ranch Pit) on September 30, 2024 and from the backfill material used at the Site for soils in the Remediation Zone (DR PI Topsoil) on February 6, 2025, prior to use at the Site.
- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soil to be in compliance with applicable NMOCD Closure Criteria for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- The final excavation area measured approximately 69 feet long and 61 feet wide at its minimum extents and 121 feet long and 117 feet wide at its maximum extents with a depth ranging from 9 to 18 feet bgs.
- Based on laboratory analytical results, the final composite soil samples within the impacted area and the backfill materials did not exhibit benzene, total BTEX, TPH GRO/DRO/MRO, or chloride concentrations above the applicable NMOCD Closure Criteria.
- After confirmation sampling was completed, the backfill of the excavation was completed utilizing material purchased locally from the Stacy Mills Pit (Mills Ranch Pit) for soils greater than 4 feet bgs (Remediation Zone) and from the DR PI Topsoil for soils less than 4 feet bgs (Reclamation Zone) and then re-contoured to match preexisting conditions.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

9.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of



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work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions in other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendations are based solely upon data available to Ensolum at the time of these services.

9.3 Reliance

This report has been prepared for the exclusive use of Oxy USA Inc., and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Oxy USA Inc. and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the Closure Report and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.





APPENDIX A

Figures



Released to Imaging: 6/25/2025 9:09:07 AM



Received by OCD: 4/28/2025 1:01:24 PM



Received by OCD: 4/28/2025 1:01:24 PM



PROJECT NUMBER: 03B1417144

Released to Imaging: 6/25/2025 9:09:07 AM



APPENDIX B

Supporting Documentation

Kelly Lowery

	, Nelson, EMNRD <nelson.velez@emnrd.nm.gov> /, April 19, 2024 10:41 AM</nelson.velez@emnrd.nm.gov>
To: Kelly	Lowery
Cc: Wade	Dittrich; Tyson Pierce; Beaux Jennings; Bratcher, Michael, EMNRD
Subject: Re: [E	XTERNAL] Extension Request: Shell State 1C CTB (Incident ID: nAPP2402456040)

[**EXTERNAL EMAIL**]

Good morning Kelly,

Thank you for the correspondence. Your 90-day time extension request is approved. Remediation Due date has been updated to July 22, 2024.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, April 18, 2024 4:34 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request: Shell State 1C CTB (Incident ID: nAPP2402456040)

From: Kelly Lowery <klowery@ensolum.com>Sent: Thursday, April 18, 2024 3:19 PMTo: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC)
<tyson_pierce@oxy.com>; Beaux Jennings <bjennings@ensolum.com>
Subject: [EXTERNAL] Extension Request: Shell State 1C CTB (Incident ID: nAPP2402456040)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to request a 90-day extension for the Shell State 1C CTB (Incident ID: nAPP2402456040). The release occurred on 1/23/2024, and after conducting an initial Site assessment of the area, it was determined that delineation and excavation of impacted and/or waste containing soils was needed.

Because this Site is on State Land, the remediation work needed at the Site requires an ARMs survey through the State Land Office, which is currently pending. Following completion of the ARMs survey, remediation activities will resume.

Thank you,



Kelly Lowery

From: Sent:	Raina Hanley <rhanley@bcarch.org> Thursday, June 20, 2024 10:36 AM</rhanley@bcarch.org>
То:	Kelly Lowery; Beaux Jennings; Wade Burns; Marc Seamands
Subject:	Fw: Remediation negative survey Report submission for Ensolum- NMCRIS Activity 155399 (BCA24-1718)

[**EXTERNAL EMAIL**]

From: Curry, Anne R. <acurry@slo.state.nm.us>
Sent: Thursday, June 20, 2024 9:13 AM
To: Raina Hanley <RHanley@bcarch.org>; CRO Info <croinfo@slo.state.nm.us>
Subject: RE: Remediation negative survey Report submission for Ensolum- NMCRIS Activity 155399 (BCA24-1718)

Good morning Raina,

Thank you for the submission of the attached Cover Sheet. Since the proposed remediation activities will take place in an area that has been covered by archaeological survey (NMCRIS 155399), Ensolum is free to move forward with remediation. Please reach out if you have additional questions-





Cultural Resources Office Office: 505.827.1276 Cell: 505.469.5582 New Mexico State Land Office

310 Old Santa Fe Trail P.O. Box 1148 Santa Fe, NM 87504-1148 acurry@slo.state.nm.us nmstatelands.org

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From: Raina Hanley <RHanley@bcarch.org>
Sent: Wednesday, April 24, 2024 4:34 PM
To: CRO Info <croinfo@slo.state.nm.us>
Subject: [EXTERNAL] Remediation negative survey Report submission for Ensolum- NMCRIS Activity 155399 (BCA24-1718)

Good Afternoon,

Attached please find the negative report NIAF for NMCRIS Activity 155399 and the associated cultural resources cover sheet for the following project for Ensolum on behalf of Oxy USA for proposed remediation activities.

• A Class III Cultural Resource Inventory for Oxy USA's Shell State 1C CTB Remediation in Lea County, New Mexico

The NIAF materials were submitted through NMCRIS, but the NIAF form itself was not. Please let me know if you would like to open the project so I can upload the PDF version of the information onto NMCRIS.

Thank you! Raina

Raina Hanley

Chief Operating Officer

Beaver Creek Archaeology & Environmental 1632 Capitol Way Bismarck, ND 58501 Ph: (701) 663-5521 | Fx: (701) 663-5589

Beaver Creek Archaeology & Environmental 712 West Quay Avenue Artesia, NM 88210 Ph: (575) 746-6142 | Fx: (701) 663-5589



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Stephanie Garcia Richard, Commissioner of Public Lands State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

Exhibit Type (select one)

(if applicable)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or has not been surveyed to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies): PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

Acknowledgment-Only:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule. Form Revised 12 22

Kelly Lowery

From:	Velez, Nelson, EMNRD <nelson.velez@emnrd.nm.gov></nelson.velez@emnrd.nm.gov>
Sent:	Friday, July 19, 2024 3:05 PM
То:	Kelly Lowery
Cc:	Wade Dittrich; Tyson Pierce; Beaux Jennings; Bratcher, Michael, EMNRD
Subject:	Re: [EXTERNAL] Extension Request - Shell State 1C CTB (Incident ID: nAPP2402456040)

[**EXTERNAL EMAIL**]

Good afternoon Kelly,

Thanks for the inquiry. Your 90-day time extension request is hereby approved. Remediation Due has been updated to October 21, 2024.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.nm.gov/ocd_



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, July 19, 2024 1:53 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request - Shell State 1C CTB (Incident ID: nAPP2402456040)

From: Kelly Lowery <klowery@ensolum.com>Sent: Friday, July 19, 2024 1:50 PMTo: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC) <tyson_pierce@oxy.com>; Beaux Jennings <bjennings@ensolum.com> Subject: [EXTERNAL] Extension Request - Shell State 1C CTB (Incident ID: nAPP2402456040)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

On behalf of Oxy USA, Inc, Ensolum, LLC would like to request a 90-day extension for the Shell State 1C CTB (Incident ID: nAPP2402456040). The release occurred on 1/23/2024, and after conducting an initial Site Assessment of the area, it was determined that delineation and excavation of impacted and/or waste containing soils was needed.

This release occurred on NMSLO land, and as such, required an ARMs review prior to beginning any remediation and/or delineation activities per the requirement of NMSLO's ECO department. Ensolum began working in conjunction with Beaver Creek Archeology, a New Mexico permitted consultant, on March 26, 2024 to have this ARMs review completed and reviewed by the NMSLO, and after many months of back and forth with the State, was finally awarded an approval and acknowledgement from NMSLO of the review with no conditions on June 20, 2024.

Initial delineation activities at the Site have been delayed due to scheduling challenges with personnel and contractors. We respectfully ask that the OCD grants us this 90-day extension for future sampling and subsequent reporting.

Thank you and have a great day,





United States Department of the Interior

BUREAU OF LAND MANAGEMENT Carlsbad Field Office 620 E. Greene St. Carlsbad, NM 88220-6292

In Reply Refer To: 3162.4 (NM-080) NMNM002379

September 18, 2024

NM Office of the State Engineer 1900 W. Second St. Roswell, NM 88201

Re: COVINGTON A FEDERAL 9 Sec 25, TS 22S, RE 32E Lea County, New Mexico

To Whom It May Concern:

The above well location and the immediate area mentioned above requires advanced soil boring to take place at approximately 110 feet below ground surface. The boring will be secured and left open for 72 hours at which time Oxy USA, Inc will assess for the presence or absence of groundwater. Temporary PVC well material will be placed to total depth of the boring and secured at the surface. If water is encountered at any point during the boring, installation of the soil boring will be plugged using Portland Type 1/11 neat cement less than 6.0 gallons of water per 94lb sack. If no water is encountered, then the soil boring will be plugged. The Bureau of Land Management (landowner) authorizes the access of the area to accomplish depth to groundwater determination of this site.

If you have any questions contact Crisha Morgan, at 575-234-5987.

Sincerely,

CRISHA MORGAN Digitally signed by CRISHA MORGAN Date: 2024.09.18 09:15:27 -06'00'

Crisha A. Morgan Certified Environmental Protection Specialist

S. Department of the Interior		Sundry Print Report 10/03/2024
UREAU OF LAND MANAGEMENT		and the second
Well Name: COVINGTON A FEDERAL	Well Location: T22S / R32E / SEC 25 / SESW / 32.356796 / -103.630494	County or Parish/State: LEA / NM
Well Number: 09	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM2379	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002532036	Operator: OXY USA INCORPORATED	

Notice of Intent

Sundry ID: 2810983

Type of Submission: Notice of Intent

Date Sundry Submitted: 09/09/2024

Date proposed operation will begin: 10/09/2024

Type of Action: Other Time Sundry Submitted: 12:52

Procedure Description: Oxy USA, Inc. (Oxy) requests to advance a soil boring to a depth of approximately 110 feet below ground surface for determination of regional groundwater depth. The soil boring (proposed location 32.356725, -103.630893) will be located on the Oxy Covington A Federal #009 well pad (32.3568, -103.6305) north of the Shell State 1C CTB (Incident ID:nAPP2402456040) Site (GPS Coordinates 32.354063, -103.631131) on BLM surface. The soil boring will be left open for approximately 72 hours to allow for the slow infill of groundwater, if any. Following the 72 hour waiting period, Oxy will assess the boring utilizing a water level meter to confirm the presence or absence and depth to groundwater in the soil boring. Following the 72 hour waiting period, the soil boring will be backfilled following the approved New Mexico Office of the State Engineer plugging procedures. A site map and kmz depicting the location of the Site and the proposed soil boring location are included with this Form 3160-5.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

DTW_Proposed_Boring_Map_20240909124343.pdf

Form_3160_5___Shell_State_1C_CTB_20240909124343.pdf

Shell_State_1C_CTB_DTW_Proposed_Boring_20240909124343.kmz

Received by OCD: 4/28/2025 1:01:24 PM Well Name: COVINGTON A FEDERAL	Well Location: T22S / R32E / SEC 25 / SESW / 32.356796 / -103.630494	County or Parish/State: Page 26 of 2 NM
Well Number: 09	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM2379	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002532036	Operator: OXY USA INCORPORATED	

Conditions of Approval

Specialist Review

20240918_COVINGTON_A_FEDERAL_9_St_Engineer_Office_drilling_approval_20240918091613.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: WADE DITTRICH

Name: OXY USA INCORPORATED

Title: Environmental Advisor

Street Address: 5 GREENWAY PLAZA SUITE 110

State: TX

State:

City: HOUSTON

Phone: (575) 390-2828

Email address: WADE_DITTRICH@OXY.COM

Field

Representative Name: Street Address: City: Phone: Email address:

BLM Point of Contact

BLM POC Name: CRISHA A MORGAN BLM POC Phone: 5752345987 Disposition: Approved Signature: CRISHA A. MORGAN Signed on: SEP 09, 2024 12:45 PM

BLM POC Title: Environmental Protection Specialist

BLM POC Email Address: camorgan@blm.gov

Zip:

Disposition Date: 09/18/2024

Elizabeth K. Anderson, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 770626 File Nbr: C 04908

Nov. 08, 2024

WADE DITTRICH OXY USA INC. P.O. BOX 4294 HOUSTON, TX 77210

Greetings:

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

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

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

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely, en anne Vanessa Clements

Vanessa Clement (575)622-6521

Enclosure

explore



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 770626 File Nbr: C 04908

Nov. 08, 2024

KELLY LOWERY ENSOLUM, LLC 601 N. MARIENFIELD ST. STE 400 MIDLAND, TX 79701

Greetings:

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Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely, n Ound Vanessa Clements

Vanessa Clement (575)622-6521

Enclosure

explore

Page 3 of 3

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

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

File No.:

ACKNOWLEDGEMENT

Kelly Lowery, Wade Dittrich I. We (name of applicant(s)),

Print Name(s) affirm that the foregoing statements are true to the best of (my,our) knowledge and belief. Applicant Signature Applicant Signature ACTION OF THE STATE ENGINEER This application is: partially approved denied Tapproved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of wa Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval. November 8th 24 for the State Engineer, Witness my hand and seal this day of Elizabeth K. Anderson, P.E 103 State Engineer Kashyap Parekh Pare By Print Signa Vater Resources Manager I Title: Print Application for Permit, Form WR-07 Version 10/02/2024 FOR OSE INTERNAL USE 4908 Tm No.: 170626

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

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

Trn Desc: C 04908 POD1

File Number: C 04908 Trn Number: 770626

page: 1

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.
- LOG The Point of Diversion C 04908 POD1 must be completed and the Well Log filed on or before 11/08/2025.

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

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:Date Rcvd. Corrected:Formal Application Rcvd: 10/31/2024Pub. of Notice Ordered:Date Returned - Correction:Affidavit of Pub. Filed:

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

Witness my hand and seal this <u>08</u> day of <u>Nov</u> A.D., <u>2024</u>

Elizabeth K. Anderson, P.E. , State Engineer ME By: KASHYAP PAREKH

Trn Desc: C 04908 POD1

File Number: <u>C 04908</u> Trn Number: <u>770626</u>

page: 3

MICHELLE LUJAN GRISHAM GOVERNOR

ELIZABETH K. ANDERSON, P.E. STATE ENGINEER A LAND A

DISTRICT 2 OFFICE

State of New Mexico Office of the State Engineer

October 31, 2024

Oxy USA Inc. P.O. Box 4294 Denver, CO 80206

RE: Well Plugging Plan of Operations for well No. C-4908-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,

Kashyap Parekh Water Resources Manager I

1900 WEST SECOND STREET, ROSWELL, NM 88201 (575) 622/6521 FAX (575) 623-8559

WWW.OSE.STATE.NM.GOV



Office of the State Engineer State of New Mexico

DISTRICT 2 OFFICE

1900 West Second St. Roswell, New Mexico 88201 . Phone: (575) 622-6521 Fax: (575) 623- 8559

Applicant has identified a well, listed below, to be plugged. West Texas Water Well Service (WD-1184) will perform the plugging.

> Permittee: Oxy USA Inc. NMOSE Permit Number: C-4908-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4908-POD1	6.0 (Borehole)	110.0	Unknown	32° 21' 24.2094''	103° 37' 51.2034''

Specific Plugging Conditions of Approval for Well located in Lea County.

- Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
- Theoretical volume of sealant required for abandonment is approximately 161.5 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 110.0 feet below ground surface (b.g.s.).
- 3. A Type I/II Portland cement mixed with 5.2 to 6.0 gallons of fresh water per 94-lb sack of cement is approved for the plugging the well.
- 4. Sealant shall be placed by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner

that displaces the standing water column upwards from below. Tremie pipe may be pulled as necessary to retain minimal submergence in the advancing column of sealant.

- 5. Should cement "shrinks-back" occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 3. of these Specific Conditions of Approval.
- 6. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.
- 7. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
 - 8. NMOSE witnessing of the plugging of the soil boring hole will not be required.
 - Any deviation from this plan must obtain an approved variance from this office prior to implementation.
- 10. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 31st day of October 2024

Elizabeth K. Anderson, P.E. State Engineer

By:

Kashyap Parekh Water Resources Manager I



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FIL	ING FEE: There is no fil	ling fee for this form.				
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	ng Office of the State En of well owner: Oxy US		(Well Number) for w	vell to be plugg	ed: <u>C</u> -	-4908-0001
	address: PO BOX			County:	Harris	
	Houston		State: Texas			Zip code: 77210
hone	number: 575-390-2828	3	E-mail: Was	de_dittrich@d	xy.com	
	VELL DRILLER INFORM		West Texas Water	Well Service		
Vell I	ELL DRILLER INFOR Driller contracted to provid Mexico Well Driller Licens	le plugging services:	West Texas Water	r Well Service Expiration	e Date: <u>10/3</u> 1	1/2025
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Vell I Iew N Iote:))))	Driller contracted to provid Mexico Well Driller Licens VELL INFORMATION: A copy of the existing We GPS Well Location: Reason(s) for plugging Investigation soil be Was well used for any t what hydrogeologic pa water, authorization fro Does the well tap brack including analytical res Static water level: Unit	le plugging services: se No.: WD-1184 Check here if this pl supplemental form ell Record for the well Latitude: 32 Longitude: -103 well(s): oring to determine type of monitoring pro- arameters were moni- ion the New Mexico E kish, saline, or otherw- aults and/or laboratory Known feet belo	lan describes method for pl WD-08m and skip to #2 in l(s) to be plugged shoul deg, <u>21</u> deg, <u>37</u> e groundwater level ogram? <u>N/A</u> If y tored. If the well wa invironment Department	Expiration Ugging multiple methis section. Id be attached to min, 24.20 min, 51.20 yes, please use s used to monint may be required N/A	Date: <u>10/3</u> onitoring wells this plan. <u>094</u> _sec <u>34</u> _sec, N section VII tor contamin ed prior to pl _ If yes, pro	AD 83 of this form to detail nated or poor quality ugging. vide additional detail,
Vell I Jew N V. V	Driller contracted to provid Mexico Well Driller Licens YELL INFORMATION: A copy of the existing We GPS Well Location: Reason(s) for plugging Investigation soil be Was well used for any t what hydrogeologic pa water, authorization fro Does the well tap brack including analytical res	le plugging services: se No.: WD-1184 Check here if this pl supplemental form ell Record for the well Latitude: 32 Longitude: -103 well(s): oring to determine type of monitoring pro- arameters were moni- ion the New Mexico E kish, saline, or otherw- aults and/or laboratory Known feet belo	lan describes method for pl WD-08m and skip to #2 in l(s) to be plugged shoul 	Expiration Ugging multiple methis section. Id be attached to min, 24.20 min, 51.20 yes, please use s used to monint may be required N/A	Date: <u>10/3</u> onitoring wells this plan. <u>094</u> _sec <u>34</u> _sec, N section VII tor contamin ed prior to pl _ If yes, pro	AD 83 of this form to detail nated or poor quality ugging. vide additional detail,

Casing material: N/A
The well was constructed with:
an open-hole production interval, state the open interval:
a well screen or perforated pipe, state the screened interval(s):
What annular interval surrounding the artesian assing of this well is sement grouted? N/A
What annular interval surrounding the artesian casing of this well is cement-grouted? <u>N/A</u>
What annular interval surrounding the artesian casing of this well is cement-grouted? N/A Was the well built with surface casing? No If yes, is the annulus surrounding the surface casing grouted of the surface casing grouted g
Was the well built with surface casing? No If yes, is the annulus surrounding the surface casing grouted o
Was the well built with surface casing? No If yes, is the annulus surrounding the surface casing grouted o

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology

proposed for the well:

1)

The soil boring will be plugged tremie from bottom to a slurry of Portland TYPE I/II Neat cement in lifts.

2) Will well head be cut-off below land surface after plugging? N/A

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- Theoretical volume of grout required to plug the well to land surface: <u>100</u>
- Type of Cement proposed: Type I/II Neat Cement
- 5) Proposed cement grout mix: <a>6.0 gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: _____batch-mixed and delivered to the site

X mixed on site

WD-08 Well Plugging Plan Version: March 07, 2022 Page 2 of 5
N/A

Grout additives requested, and percent by dry weight relative to cement: 7)

×	ъ	v	

Additional notes and calculations:

Volumes calculated on an up to an approximate 6" boring.

N/A

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

VIII. SIGNATURE:

, say that I have carefully read the foregoing Well Plugging Plan of L Kelly Lowery Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

10/21/2024 Signature of Applicant

Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

Approved subject to the attached conditions. Not approved for the reasons provided on the attached locatober 2024 rt day of Witness my hand and official seal this Elizabeth K. Anderson P.E. 1. 8 ., New Mexico State Engineer By: Kashyap Parekh Water Resources Manager I WD-08 Well Plugging Plan Version: March 07, 2022 Page 3 of 5

Released to Imaging: 6/25/2025 9:09:07 AM

19 12

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 - deepest	Interval 2	Interval 3 - most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	N/A	N/A	0
Bottom of proposed interval of grout placement (ft bgl)	N/A	N/A	100
Theoretical volume of grout required per interval (gallons)	N/A	N/A	50
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	N/A	N/A	<6.0
Mixed on-site or batch- mixed and delivered?	N/A		
Grout additive 1 requested	N/A	N/A	N/A
Additive 1 percent by dry weight relative to cement	N/A	N/A	N/A
Grout additive 2 requested	N/A	N/A	N/A
Additive 2 percent by dry weight relative to cement	N/A	N/A	N/A

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow		
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.		
Top of proposed interval of sealant placement (ft bgl)	N/A	N/A	0		
Bottom of proposed sealant of grout placement (ft bgl)	N/A	N/A	10		
Theoretical volume of sealant required per interval (gallons)	N/A	N/A	52		
Proposed abandonment sealant (manufacturer and trade name)	N/A	N/A	Bariod Hole Plug		

WD-08 Well Plugging Plan Version: March 07, 2022 Page 5 of 5



Disclaimer This bore log is intended for environmental not geotechnical purposes.

28/2025 1:01:24 PM

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Kelly Lowery

From: Sent:	Velez, Nelson, EMNRD <nelson.velez@emnrd.nm.gov> Friday, October 18, 2024 4:03 PM</nelson.velez@emnrd.nm.gov>
То:	Kelly Lowery
Cc:	Wade Dittrich; Tyson Pierce; Beaux Jennings; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD
Subject:	Re: [EXTERNAL] Extension Request: Shell State 1C CTB (Incident ID: nAPP2402456040)

[**EXTERNAL EMAIL**]

Good afternoon Kelly,

Thank you for the correspondence. Based on our telephone conversation, your 90-day time extension is approved. Remediation Due date has been updated to January 16, 2025.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.nm.gov/ocd_



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, October 18, 2024 11:47 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request: Shell State 1C CTB (Incident ID: nAPP2402456040)

From: Kelly Lowery <klowery@ensolum.com> Sent: Friday, October 18, 2024 11:33 AM To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
 Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC)
 <tyson_pierce@oxy.com>; Beaux Jennings <bjennings@ensolum.com>
 Subject: [EXTERNAL] Extension Request: Shell State 1C CTB (Incident ID: nAPP2402456040)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

On behalf of Oxy USA, Inc., Ensolum, LLC would like to request a 90-day extension for the Shell State 1C CTB (Incident ID: nAPP2402456040). Excavation and remediation activities are currently on-going at the Site to delineate both vertically and horizontally. Additionally, we are currently waiting on approval from the New Mexico Office of State Engineer to drill a depth-to-water (DTW) boring to confirm the presence or absence of groundwater at the Site. We respectfully ask that the OCD grants us this 90-day extension for future sampling and subsequent reporting.

Thank you and have a great day,



Kelly Lowery, GIT Project Geologist 214-733-3165 Ensolum, LLC

Kelly Lowery

From:	Dittrich, John W <wade_dittrich@oxy.com></wade_dittrich@oxy.com>
Sent:	Monday, January 27, 2025 3:02 PM
To:	Kelly Lowery; Beaux Jennings
Cc:	Hadlie Green; Georgiana McSwane
Subject:	Fw: The Oil Conservation Division (OCD) has approved the application, Application ID: 421823

[**EXTERNAL EMAIL**] Shell St. 1C CTB-1/23/2024

Wade Dittrich

Environmental Advisor New Mexico 575-390-2828 wade_dittrich@oxy.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, January 27, 2025 11:43 AM
To: Dittrich, John W <wade_dittrich@oxy.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 421823

WARNING - This message is from an EXTERNAL SENDER - be CAUTIOUS, particularly with links and attachments.

To whom it may concern (c/o Wade Dittrich for OXY USA INC), The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2402456040, with the following conditions:

Remediation plan is approved as written except with the following condition; 1. Variance request increasing the sampling frequency to 400 square feet (ft.2) per one (1) five-point composite (5pc) from the excavation floor and 200 ft.2 from the sidewalls is approved. 2. Prior to backfilling the open excavation per 19.15.29.12D (2) NMAC, OXY must collect a minimum of one (1) 5pc from the media being used as backfill to verify that it meets non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. This is especially important for the material being used within the top four (4) feet from the ground surface. 3. OXY has 90-days (April 28, 2025) to submit to OCD its appropriate or final remediation closure report.

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me. Thank you, Nelson Velez

.

Environmental Specialist - Advanced 505-469-6146 Nelson.Velez@emnrd.nm.gov **New Mexico Energy, Minerals and Natural Resources Department** 1220 South St. Francis Drive Santa Fe, NM 87505

Kelly Lowery

From:	Knight, Tami C. <tknight@nmslo.gov></tknight@nmslo.gov>
Sent:	Wednesday, January 29, 2025 7:07 AM
То:	Kelly Lowery
Cc:	Dittrich, John W; Pierce, Tyson (Legacy Safety & Consulting LLC); Beaux Jennings
Subject:	(Remediation Plan) Oxy USA, Inc Shell State 1C CTB- nAPP2402456040) - 1/23/24 - Approved w/ Conditions
Attachments:	Sand Reclaim Tips.pdf

[**EXTERNAL EMAIL**]

Kelly

Documentation of proposed remediation actions for the subject release incident was received from your office on January 16, 2025. The NMSLO Environmental Compliance Office (ECO) has reviewed the plan, and based on the information provided in the document received from your office, ECO has approved the remediation plan with the following conditions:

- 1. Note, site delineation plans are required to be submitted to ECO for review where site delineation and remediation closure will not meet the 90 day NMOCD closure window. This is especially a sensitive requirement where earth disturbance will occur off pad.
- 2. Due to the sensitive soils, please keep all traffic in and out of the excavation area to a minimum and use one point of access into the remediation area.
- 3. Backfill material must match natural soil horizons. Due to the sensitive soil, ECO recommends amending the backfill with organics; see attached.
- 4. Submit a reclamation plan to <u>eco@nmslo.gov</u>.
- 5. NMSLO maps and Wetland maps document a pond immediately north of the subject facility. Due to the distance from the release this does not appear to alter closure criteria, but this should be noted for future projects at this facility.



Respond to this email that you understand and agree to the conditions of approval.

Please submit the remediation closure report to <u>eco@nmslo.gov</u>.

Lessee and/or their contractor are responsible for ensuring the project manager and field personnel performing the work follow the approved work plan.



Environmental Compliance Office Surface Resources Division eco@nmslo.gov nmstatelands.org



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delete the original transmission and its attachments without reading or saving in any manner. Thank you.

From: Kelly Lowery <klowery@ensolum.com>
Sent: Thursday, January 16, 2025 4:40 PM
To: SLO Spills <spills@nmslo.gov>; SLO Spills <spills@nmslo.gov>
Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC)
<tyson_pierce@oxy.com>; Beaux Jennings <bjennings@ensolum.com>
Subject: [EXTERNAL] (Remediation Work Plan and Variance Request) Oxy USA, Inc. - Shell State 1C CTB (Facility ID: fAPP2127031415/Incident #: nAPP2402456040) - Incident Date: January 23, 2024

Good afternoon,

The *Remediation Work Plan and Variance Request* for Shell State 1C CTB (Facility ID: fAPP2127031415/Incident #: nAPP2402456040) has been uploaded to the NMOCD Online Portal with PO#: T9LJJ-250116-C-1410 on 01/16/2025.

Please let me know if you have any questions.

Thank you,



NMSLO Seed Mix

Deep Sand (DS)

1.1 BLOW SAND SITES REVEGETATION PLAN (BS)

Use this Revegetation Plan with the following ESD's:

CP2 – Sandy Plains, Sandhills, Deep Sand, Shallow Plains HP3 – Loamy Sand, Sandy Plains, Sandhills, Deep Sand SD3 – Loamy Sand, Deep Sand, Sandhills, Salt Meadow

Soil Texture: Fine Sand, Sand, Course Sand

Revegetation Procedures:

I. For flat or gently sloping areas with slopes less than or equal to 3H:1V:

- 1. Soil Amendments: Apply composted manure or similar at the rate of 30.0 air dry tons/acre.
- 2. Fertilize: Type 2
- 3. Mulch Grass Hay mulch applied at 2.0 tons/acre
- 4. Prepare the seedbed and incorporate mulch, fertilizer, and soil amendments:
 - a. Scarify
 - b. Disc (thoroughly mix mulch, fertilizer, and soil amendments in top 6-8 inches of soil before proceeding).
- 5. **Drill Seed** use rangeland drill and apply Drill box seed to 0.5-0.75 inch depth, apply small seed to surface and lightly cover with drag chains or packer wheels or equal.
- 6. Mulch Grass Hay mulch applied at 2.0 tons/acre
- 7. Crimp
- 8. **Tackify** tackify to minimize risk of mulch blowing and to hold soil and mulch in place until vegetation begins to establish.
- 9. Wind Fence Install wind fence.



NMSLO Seed Mix

Deep Sand (DS)

DEEP SAND (DS) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX		
<u>Grasses:</u>					
Sand bluestem	Elida, VNS, So.	4.0	F		
Sideoats grama	Vaughn, El Reno	4.0	F		
Little bluestem	Cimarron, Pastura	3.0	F		
Plains bristlegrass	VNS, Southern	1.0	D		
Sand dropseed	VNS, Southern	2.0	S		
Blue grama	Lovington	1.0	D		
			2		
Forbs:			B		
Firewheel (Gaillardia)	VNS, Southern	1.0	D		
Anuual Sunflower	VNS, Southern	0.5	D		
Prairie Conflower	VNS, Southern	0.5	D		
Nr. Q			B		
	Total PLS/acro	e 17	2 8		

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.





APPENDIX C

Photographic Documentation



View of release extent prior to remediation activities, facing southeast (January 25, 2024).

Receiged by OCD: 4/28/2025 1:01:24 PM-

Project: Shell State 1C CTB Entity: Oxy USA, Inc Incident ID: nAPP2402456040 ENSOLUM



View of release extent during remediation activities, facing northeast (October 10, 2024).



View of release extent during remediation activities, facing northeast (October 10, 2024).

Receiged by OCD: 4/28/2025 1:01:24 PM

Project: Shell State 1C CTB Entity: Oxy USA, Inc Incident ID: nAPP2402456040

South Elevation

ENSOLUM



View of release extent during remediation activities, facing northeast (January 24, 2025).



View of release extent during remediation activities, facing east (January 24, 2025).

Receined by OCD: 4/28/2025 1:01:24 PM

Project: Shell State 1C CTB Entity: Oxy USA, Inc Incident ID: nAPP2402456040



E N S O L U M

View of release extent during remediation activities, facing west (February 6, 2025).



View of release extent during remediation activities, facing northwest (February 6, 2025).

Receined by OCD: 4/28/2025 1:01:24 PM

Project: Shell State 1C CTB Entity: Oxy USA, Inc Incident ID: nAPP2402456040



- Page 54 of 214

E N S O L U M

View of release extent post backfill activities, facing north (March 3, 2025).



View of release extent post backfill activities, facing west (March 3, 2025).



APPENDIX D

Table(s)

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											LUM
TABLE 1 FLOOR & SIDEWALL SOIL SAMPLE ANALYTICAL RESULTS (REMEDIATION ZONE) Shell State 1C CTB Oxy USA, Inc. Lea County, New Mexico Ensolum Project No. 03B1417144											
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH (GRO+DRO) (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
	l Conservation I Soils Impacted k (> 100 feet)	Division Closure by a Release	10	NE	NE	NE	50	1,000	NE	2,500	20,000
					Composite Floor	Soil Sample A	nalytical Result	S		1	
F0 37	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	33.5	<10.0	33.5	39,200
FS01	01/22/2025	17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	4,000
5000	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	78.4	18.2	96.6	45,600
FS02	01/22/2025	17	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	1,600
50.00	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	17.5	<10.0	17.5	44,000
FS03	01/22/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	992
50 0 <i>i</i>	10/10/2024	13	<0.050	<0.050	<0.050	<0,150	<0.300	<10.0	<10.0	<10.0	48,800
FS04	01/22/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	2,000
====	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	47.4	<10.0	47.4	48,000
FS05	01/22/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	6,880
5000	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	11.1	<10.0	11.1	43,200
FS06	01/22/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	528
5007	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	14.4	<10.0	14.4	46,400
FS07	01/22/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	15,800
5000	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	175	42.7	218	44,000
FS08	01/22/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	13,400
FS09	10/10/2024	13	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	6,530
5040	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	65,600
FS10	01/22/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	11,900
5044	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	125	40.9	166	64,800
FS11	01/22/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	10,000
5040	10/10/2024	13	<0.050	<0.050	<0.050	<0.150	<0.300	20.6	<10.0	20.6	52,000
FS12	01/22/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	8,930
F042	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	110	24.0	134	38,400
FS13	01/24/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	10,000
E044	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	97.7	18.6	116	54,400
FS14	01/24/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	11,100
FS15	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	142	40.4	182	42,400
F315	01/24/2025	13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	13,500
	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	526	144	670	24,000
FS16	01/24/2025	13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	20,600
	02/06/2025	18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	10,000
FS17	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	50.1	19.0	69.1	44,800
1517	01/24/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	18,800

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TABLE 1 FLOOR & SIDEWALL SOIL SAMPLE ANALYTICAL RESULTS (REMEDIATION ZONE) Shell State 1C CTB Oxy USA, Inc. Lea County, New Mexico Ensolum Project No. 03B1417144											
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH (GRO+DRO) (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
	I Conservation I Soils Impacted k (> 100 feet)	Division Closure by a Release	10	NE	NE	NE	50	1,000	NE	2,500	20,000
FS18	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	21,200
	01/24/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	10,200
FS19	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	60,800
	01/24/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	10.6	<10.0	10.6	6,880
FS20	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	14,1	<10.0	14,1	65,600
	01/24/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	17,000
FS21	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	85.9	33.1	119	51,200
-	01/24/2025	13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	16,600
FS22	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	35,200
	01/24/2025	13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	18,000
FS23	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	8,130
FS24	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	864
FS25	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	160
FS26	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	19,200
FS27	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	216	65.9	282	32,400
-	01/24/2025	13	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	7,680
FS28	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	13,600
FS29	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	269	84.9	354	37,200
-	01/24/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	11,800
FS30	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	73.9	29.2	103	29,200
	01/24/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	2,920
FS31	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	56,000
-	01/24/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	1,100
FS32	10/10/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	14,000
	01/24/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	4,640
FS33	01/24/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	3,080

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🔁 ENSOLUM TABLE 1 FLOOR & SIDEWALL SOIL SAMPLE ANALYTICAL RESULTS (REMEDIATION ZONE) Shell State 1C CTB Oxy USA, Inc. Lea County, New Mexico Ensolum Project No. 03B1417144 Total Total **Total TPH** Ethylbenzene TPH (GRO+DRO) TPH MRO Sample Depth Benzene Toluene Chloride BTEX (GRO+DRO+MRO) Date **Xylenes** Designation (feet bqs) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release 10 NE NE NE 50 1,000 NE 2.500 20.000 (> 100 feet) **Composite Sidewall Soil Sample Analytical Results** 50.0 50.0 76,800 10/10/2024 4 - 9 < 0.050 < 0.050 < 0.050 < 0.150 < 0.300 <10.0 SW01 01/24/2025 4 - 15 < 0.050 < 0.050 < 0.050 < 0.150 < 0.300 <10.0 <10.0 <10.0 1,090 SW02 10/10/2024 4 - 9 < 0.050 < 0.050 < 0.050 < 0.150 < 0.300 <10.0 <10.0 <10.0 9.600 SW03 6.660 10/10/2024 4 - 9 < 0.050 < 0.050 < 0.050 < 0.150 < 0.300 <10.0 <10.0 <10.0 SW04 4 - 9 < 0.300 <10.0 864 10/10/2024 < 0.050 < 0.050 < 0.050 < 0.150 <10.0 <10.0 SW05 10/10/2024 4 - 9 < 0.050 < 0.050 < 0.050 < 0.150 < 0.300 <10.0 <10.0 <10.0 272 SW06 10/10/2024 4 - 9 < 0.050 < 0.050 < 0.050 < 0.300 <10.0 2,800 < 0.150 <10.0 <10.0 328 SW07 104 432 10/10/2024 4 - 13 < 0.050 < 0.050 < 0.050 < 0.150 < 0.300 8.000 SW08 65.7 11.4 77.1 17.800 10/10/2024 4 - 13 < 0.050 < 0.050 < 0.050 < 0.150 < 0.300 <10.0 40,000 10/10/2024 4 - 13 < 0.050 < 0.050 < 0.050 < 0.150 < 0.300 <10.0 <10.0 SW09 <10.0 10,000 01/23/2025 4 - 15 < 0.050 < 0.050 < 0.050 < 0.150 < 0.300 <10.0 <10.0 < 0.050 < 0.050 < 0.150 < 0.300 <10.0 <10.0 90,600 10/10/2024 4 - 13 < 0.050 <10.0 SW10 <10.0 6,000 01/23/2025 4- 15 < 0.050 < 0.050 < 0.050 < 0.150 < 0.300 <10.0 <10.0 <10.0 <10.0 26,400 10/10/2024 4 - 13 < 0.050 < 0.050 < 0.050 < 0.150 < 0.300 <10.0 SW11 01/23/2025 4 - 15 < 0.050 < 0.050 < 0.050 <0.150 < 0.300 <10.0 <10.0 <10.0 10,700 10/10/2024 4 - 13 < 0.050 < 0.050 < 0.050 < 0.150 < 0.300 <10.0 <10.0 <10.0 32,000 SW12 01/23/2025 4 - 15 < 0.050 < 0.050 < 0.050 < 0.150 < 0.300 <10.0 <10.0 <10.0 13.300 SW13* 10/10/2024 9 - 13 < 0.050 < 0.050 < 0.050 < 0.150 < 0.300 <10.0 <10.0 <10.0 64.000 SW14* 10/10/2024 9 - 13 < 0.050 < 0.050 < 0.050 < 0.150 < 0.300 <10.0 <10.0 <10.0 29,200 <10.0 3.080 SW16 02/06/2025 13 - 18 < 0.050 < 0.050 < 0.050 < 0.150 < 0.300 <10.0 <10.0

Concentrations in **bold** and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (> 100 feet)

*: Sample Location Removed During Additional Excavation Activities

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

Released to

Imaging: 6/25/2025 9:09:07

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BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

Additional Excavation and/or Re-Sample

ENSOLUM

TABLE 2 SIDEWALL SOIL SAMPLE ANALYTICAL RESULTS (RECLAMATION ZONE) Shell State 1C CTB Oxy USA, Inc. Lea County, New Mexico Ensolum Project No. 03B1417144												
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
	I Conservation I Soils Impacted I (≤ 50 feet)	Division Closure by a Release	10	NE	NE	NE	50	NE	NE	NE	100	600
Composite Sidewall Soil Sample Analytical Results												
SW01	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
SW02	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,520
3002	01/23/2025	0 - 4	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
SW03	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	26,400
01100	01/23/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
SW04	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	7,600
81104	01/23/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SW05	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,200
81100	01/23/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SW06	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	832
01100	01/23/2025	0 - 4	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW07	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.4	<10.0	10.4	48,800
0.1.0.	01/23/2025	0 - 4	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	240
SW08	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	30.8	<10.0	30.8	8,660
	01/23/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW09	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	68,000
	01/23/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW10	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	22,400
	01/23/2025	0 - 4	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
SW11	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	8,800
	01/23/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SW12	10/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	40,000
	01/23/2025	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256

Concentrations in **bold** and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (< 50 feet)

Additional Excavation and/or Re-Sample

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

Released to Imaging: 6/25/2025 9:09:07 AM

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

	TABLE 3 BACKFILL SOIL SAMPLE ANALYTICAL RESULTS DR PI Topsoil Oxy USA, Inc. Lea County, New Mexico Ensolum Project No. NA											
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
	New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release 10 (≤ 50 feet)				NE	NE	50	NE	NE	NE	100	600
	Composite Background Soil Sample Analytical Result											
DR PI Topsoil	02/06/2025	NA	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0

bgs: below ground surface

mg/kg: milligrams per kilogram

NA: Not Applicable

NE: Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

E N S O L U M

	TABLE 4 BACKFILL SOIL SAMPLE ANALYTICAL RESULTS Mills Ranch Pit Oxy USA, Inc. Lea County, New Mexico Ensolum Project No. NA											
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
	l Conservation D Soils Impacted b (≤ 50 feet)		10	NE	NE	NE	50	NE	NE	NE	100	600
	Composite Background Soil Sample Analytical Result											
Mills Ranch Pit	09/30/2024	NA	<0.050	0.060	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0

bgs: below ground surface

mg/kg: milligrams per kilogram

NA: Not Applicable

NE: Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation



October 17, 2024

Kelly Lowery Ensolum, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SHELL STATE 1C CTB

Enclosed are the results of analyses for samples received by the laboratory on 10/11/24 13:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



	ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024	Sampling Date:	10/10/2024
Reported:	10/17/2024	Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417144	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM		

Sample ID: FS 01 13' (H246214-01)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	39200	16.0	10/16/2024	ND	416	104	400	0.00	QM-07
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	33.5	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	93.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.4	% 49.1-14	0						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 02 13' (H246214-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	45600	16.0	10/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	78.4	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	18.2	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	К 7 М	ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB		Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 03 13' (H246214-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	44000	16.0	10/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	17.5	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	98.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 04 13' (H246214-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48800	16.0	10/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	96.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.2	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 05 13' (H246214-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48000	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	47.4	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	95.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	ГВ	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 06 13' (H246214-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	43200	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	11.1	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 07 13' (H246214-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	46400	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	14.4	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	К 7 М	ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB		Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 08 13' (H246214-08)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	44000	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	175	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	42.7	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	119 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 09 13' (H246214-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6530	16.0	10/16/2024	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	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	98.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager


		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 10 13' (H246214-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	65600	16.0	10/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.5	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 11 13' (H246214-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64800	16.0	10/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	125	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	40.9	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	115 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTE	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 12 13' (H246214-12)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	52000	16.0	10/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	20.6	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTE	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 13 9' (H246214-13)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.03	102	2.00	3.40	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	2.33	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.14	107	2.00	1.90	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.41	107	6.00	2.13	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	38400	16.0	10/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	110	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	24.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 14 9' (H246214-14)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	54400	16.0	10/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	97.7	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	18.6	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTE	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 15 9' (H246214-15)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	42400	16.0	10/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	142	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	40.4	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 16 9' (H246214-16)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24000	16.0	10/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	526	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	144	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 17 9' (H246214-17)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	44800	16.0	10/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	50.1	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	19.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

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		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 18 9' (H246214-18)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21200	16.0	10/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	211	105	200	7.34	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	191	95.6	200	4.86	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	118	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 19 9' (H246214-19)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	60800	16.0	10/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	98.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTE	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 20 9' (H246214-20)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	65600	16.0	10/16/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	14.1	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	К 7 М	ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB		Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 21 9' (H246214-21)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	51200	16.0	10/16/2024	ND	416	104	400	3.77	QM-07
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	85.9	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	33.1	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	90.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 22 9' (H246214-22)

BTEX 8021B	mg/	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	35200	16.0	10/16/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 23 9' (H246214-23)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	10/16/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	124	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 24 9' (H246214-24)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	10/16/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	117	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTE	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 25 9' (H246214-25)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
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	10/16/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	117 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	ГВ	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 26 9' (H246214-26)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19200	16.0	10/16/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	116 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 27 9' (H246214-27)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32400	16.0	10/16/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	216	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	65.9	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	116 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 28 9' (H246214-28)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	10/16/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	121	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTE	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 29 9' (H246214-29)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	37200	16.0	10/16/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	269	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	84.9	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTE	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 30 9' (H246214-30)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	29200	16.0	10/16/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	73.9	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	29.2	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 31 9' (H246214-31)

BTEX 8021B	mg/	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	56000	16.0	10/16/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTE	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS 32 9' (H246214-32)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	10/16/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTE	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 01 0-4' (H246214-33)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	0.356	
Toluene*	<0.050	0.050	10/16/2024	ND	2.10	105	2.00	3.52	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.18	109	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.50	108	6.00	4.46	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/16/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	117 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	6 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTE	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 01 4-9' (H246214-34)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	76800	16.0	10/16/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	50.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	117 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTE	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 02 0-4' (H246214-35)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	10/16/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	116 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 02 4-9' (H246214-36)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	10/16/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	109 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 03 0-4' (H246214-37)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26400	16.0	10/16/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 03 4-9' (H246214-38)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	10/16/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	208	104	200	0.708	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	187	93.3	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 04 0-4' (H246214-39)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	10/16/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	103 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.8 9	% 49.1-14	8						

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		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	ГВ	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 04 4-9' (H246214-40)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	10/16/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	124 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 05 0-4' (H246214-41)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	10/15/2024	ND	432	108	400	0.00	QM-07
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 05 4-9' (H246214-42)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
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	10/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.2	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 06 0-4' (H246214-43)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	10/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	95.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.5	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 06 4-9' (H246214-44)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	10/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 07 0-4' (H246214-45)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48800	16.0	10/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	10.4	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	118 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 07 4-13' (H246214-46)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	10/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	328	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	104	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 08 0-4' (H246214-47)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	10/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	30.8	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	106 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 08 4-13' (H246214-48)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17800	16.0	10/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	65.7	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	11.4	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	86.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.7	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 09 0-4' (H246214-49)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	68000	16.0	10/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 09 4-13' (H246214-50)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	40000	16.0	10/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 10 0-4' (H246214-51)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	10/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 10 4-13' (H246214-52)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	90600	16.0	10/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	98.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	ГВ	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 11 0-4' (H246214-53)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/16/2024	ND	2.07	104	2.00	2.34	
Toluene*	<0.050	0.050	10/16/2024	ND	2.01	100	2.00	2.34	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.04	102	2.00	1.49	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.10	102	6.00	1.36	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	10/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 11 4-13' (H246214-54)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/16/2024	ND	2.08	104	2.00	1.80	
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	2.21	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.13	106	2.00	1.91	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.33	106	6.00	1.79	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26400	16.0	10/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTE	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 12 0-4' (H246214-55)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.08	104	2.00	1.80	
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	2.21	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.13	106	2.00	1.91	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.33	106	6.00	1.79	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	40000	16.0	10/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	96.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 12 4-13' (H246214-56)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.08	104	2.00	1.80	
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	2.21	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.13	106	2.00	1.91	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.33	106	6.00	1.79	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32000	16.0	10/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	ГВ	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 13 9-13' (H246214-57)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2024	ND	2.08	104	2.00	1.80	
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	2.21	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.13	106	2.00	1.91	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.33	106	6.00	1.79	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64000	16.0	10/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	10/11/2024		Sampling Date:	10/10/2024
Reported:	10/17/2024		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW 14 9-13' (H246214-58)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/16/2024	ND	2.08	104	2.00	1.80	
Toluene*	<0.050	0.050	10/16/2024	ND	2.09	104	2.00	2.21	
Ethylbenzene*	<0.050	0.050	10/16/2024	ND	2.13	106	2.00	1.91	
Total Xylenes*	<0.150	0.150	10/16/2024	ND	6.33	106	6.00	1.79	
Total BTEX	<0.300	0.300	10/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	29200	16.0	10/15/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2024	ND	207	103	200	2.57	
DRO >C10-C28*	<10.0	10.0	10/15/2024	ND	208	104	200	0.872	
EXT DRO >C28-C36	<10.0	10.0	10/15/2024	ND					
Surrogate: 1-Chlorooctane	97.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.4	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Celey D. Keene, Lab Director/Quality Manager

ANALYSIS REQUEST

Page 61 of 66

rland, Hobbs, NM 88240 326 FAX (575) 393-2476 C State: TX Zip: 79 Fax #: Project Owner: CTB A. NM Jadian/Azuka Udeh Hadian/Azuka Udeh 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	service. In one work would cardinal the basis for regigarizes and an anti-	PLEASE NOTE: Liability and	19	81	16	15	14	1	17	the other	Lab I.D.		Sampler Name:	Project Location:	Project Name:	Project #: (City: Midland	Address: 601 N	Project Manager:	Company Nam	
NMM BILL 10 NM is: TX Zip: 79701 Aldress: Aldress: Bittomer: Original State: City: State: Distate: State: Dis	Inale bit regiligence and any other in the liable for industrial or consecution of or related to the performance of the other performance of the other	Camages, Cardinal's liability and clie	Pil	F5(0)	1716	FILS	PSOF	21/2	12/12	ISI	Sample I.D.		Tabitha Guadiar		Shell State 1C CTB)3B1417144	-733-3165		Marienfeld Street, S	er: Kelly Lowery	Ensolum, LLC	101 East Marland (575) 393-2326
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BILL TO ANALYSIS er: Kelly Lowery P.O. #: OXY, USA, Inc. Marienfeld Street, Suite 400 Ath: Wade Dittrich State: Taip: 79701 Ath: Wade Dittrich 1-733-3165 Fax #: Address: 03B1417144 Project Owner: City: Shell State 1C CTB State: Zip: n: Lea County, NM State: Zip: Tabitha Guadian/Azuka Udeh Fax #: Fax #:	I Marienfeld Street, Suite 400 P.O. #: Oxy, USA, Inc. State: TX Zip: 79701 -733-3165 Fax #:	MATRIX PRESERV.
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Relinquished By: Relinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Ot	PLEASE NOTE: Liability and Dar analyses. All claims including tho service. In no event shall Candinal artifiates or successors arising out artifiates for successors arising out Relinguisched Bu-		00	257	Ste	55	4S	Sa	52	S	Lab I.D. H246214	FOR LOD USE ONLY	Sampler Name:	Project Location:	Project Name:		Phone #: 214	City: Midland	Address: 601 N	Project Manager:	Company Nam	
le One)	PLEASE NOTE: Labelity and Damages, Cardinaris labely and clares actions analyses. All claims including those for negligence and any ofter cause what service. In no event shall Cardinal be labele for incidental or consequential dam attitutes or successors arising out of or related to the performance of services. Refinition of the Davie	THE TO INNO	1 mg f	1 W13	11/2	7 4/2	JWI	Jull	SWID	Swlo	Sample I.D.		I abitha Guadian/Azuka Udeh	R	Shell State 1C CTB	03B1417144	214-733-3165		Address: 601 N Marienfeld Street, Suite 400	er: Kelly Lowery	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: Ensolum, LLC	
Date: 15/11/24 Time: Date: 1	ent's exclosing remedy for an cause whatsoever shall be or quental damages, including of services bereunder by C.	1	Q-13	4-17	4-13		4-17	0-4'	4-13	0-4	Depth (feet)		n/Azuka Udeh			Project Owner:	Fax #:	State: TX	uite 400		, Hobbs, NM 8 FAX (575) 393-	
Received By: Received By: Received By: Sample Condition	15 5 6 2 1		X v	X I V	CIX	CIX	$\langle 1 \rangle$	CIX	CI X	X	(G)RAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	MP. MATRIX				er:		Zip: 79701			.2476	U
Self Contraction	tract or tort, shall be limited to the g and received by Cardinal within 3 one, loss of use, or loss of profits in ne, loss of use, or loss of profits in aim is based upon any of the above aim is based upon any of the above above above any of the set above abo		X	al X	X	X	V X	X 10	X		SLUDGE OTHER : ACID/BASE: CE / COOL OTHER :	X PRESERV.	Fax #:	Phone #		City:	Address:		Attn: Wade Dittrich	P.O. #: Oxy, USA, Inc.		
	amount paid by the client for the IO days after completion of the applicable curred by client, its subsidiaries, re stated reasons or otherwise		0/10/24 (200		-	-	E	0/10/14 1155	dibize 11 su	-	DATE TIME	SAMPLING			Zip:				ittrich	SA, Inc.	-	
rbal Result: Yes Results are emailed. Pleas (to-eff graffo(up), (c)m EMARKS: EMARKS: Rush maround Time: Rush Rush	he sapplicable		XX	X X	X	X	XX	X	X	+	BTEX 8021B TPH 8015M									1		
t. Please pro 1. Please pro 1. (€₩1 1. (€₩1 Rush	F		~	×	<>	< >	5	5-	X	1	Chlorides 4500		_			_	_				Ø	
Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: K/b/er/ge/fully.(bm REMARKS: Turnaround Time: Standard Turnaround Time: Standard Cool Intact Observed Temp. °C Thermoneter D Entry Cool Thermoneter D Entry Cool																				ANALYSIS REQUEST		

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92006



January 28, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SHELL STATE 1C CTB

Enclosed are the results of analyses for samples received by the laboratory on 01/24/25 13:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



	ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025	Sampling Date:	01/22/2025
Reported:	01/28/2025	Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417144	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM		

Sample ID: FS - 01 17' (H250446-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	01/28/2025	ND	416	104	400	3.77	QM-07
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	91.9 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.5 9	% 49.1-14	0						

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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 whatscever 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 whose 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 whose share there applied by the services arise 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.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/22/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTE	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 02 17' (H250446-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	01/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	98.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.4	% 49.1-14	8						

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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 whatscever 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 whose 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 whose share there applied by the services arise 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.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/22/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 03 15' (H250446-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
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	01/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	94.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	КЕ 70 МІ	NSOLUM, LLC ELLY LOWERY D5 W WADLEY AVE. IDLAND TX, 79705 ax To:		
Received:	01/24/2025		Sampling Date:	01/22/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB		Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 04 15' (H250446-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	01/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	99.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.7	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/22/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 05 15' (H250446-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	01/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	99.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.4	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/22/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 06 15' (H250446-06)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	01/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	93.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.6	% 49.1-14	8						

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/22/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 07 15' (H250446-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15800	16.0	01/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	91.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.3	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/22/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTE	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 08 15' (H250446-08)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13400	16.0	01/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	96.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.2	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/22/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 10 15' (H250446-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11900	16.0	01/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	94.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.1	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/22/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	ГВ	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 11 15' (H250446-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	01/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/22/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 12 15' (H250446-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8930	16.0	01/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	94.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/24/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 13 11' (H250446-12)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	01/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	97.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.6	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/24/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 14 11' (H250446-13)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11100	16.0	01/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	95.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



	К 7 М	ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. 4IDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/24/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB		Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 15 13' (H250446-14)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13500	16.0	01/28/2025	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	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	101 % 48.2-13		4						
Surrogate: 1-Chlorooctadecane	98.0	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/24/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 16 13' (H250446-15)

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	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20600	16.0	01/28/2025	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	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	96.1 % 48.2-13		4						
Surrogate: 1-Chlorooctadecane	92.6	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/24/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 17 11' (H250446-16)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18800	16.0	01/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	232	116	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	228	114	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	97.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.4	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/24/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTE	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 18 11' (H250446-17)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10200	16.0	01/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	98.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.4	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	KELI 705 MID	SOLUM, LLC LY LOWERY 5 W WADLEY AVE. DLAND TX, 79705 5 To:		
Received:	01/24/2025		Sampling Date:	01/24/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTB		Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 19 11' (H250446-18)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	01/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	10.6	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	94.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.8	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/24/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTE	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 20 11' (H250446-19)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.16	108	2.00	2.08	
Toluene*	<0.050	0.050	01/27/2025	ND	2.20	110	2.00	2.81	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.18	109	2.00	2.28	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	6.60	110	6.00	1.74	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17000	16.0	01/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	97.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/24/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTE	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 21 13' (H250446-20)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64	
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16600	16.0	01/28/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	92.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/24/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 22 13' (H250446-21)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64	
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18000	16.0	01/28/2025	ND	400	100	400	7.69	QM-07
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	97.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/24/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	ТВ	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 27 13' (H250446-22)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64	
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	128 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7680	16.0	01/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	118 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/24/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CTE	3	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 29 11' (H250446-23)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64	
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	16.0	01/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	95.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.2	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/24/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 30 11' (H250446-24)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64	
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	01/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.5	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/24/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 31 11' (H250446-25)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64	
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	01/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/24/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 32 15' (H250446-26)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64	
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	01/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	92.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/24/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: FS - 33 15' (H250446-27)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64	
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	128	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	01/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	95.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/24/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW - 01 4-15' (H250446-28)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64	
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	01/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	96.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/23/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW - 02 0-4' (H250446-29)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64	
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/23/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	ГВ	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW - 03 0-4' (H250446-30)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64	
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	82.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.0	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/23/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	ГВ	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW - 04 0-4' (H250446-31)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	2.25	112	2.00	1.64	
Toluene*	<0.050	0.050	01/27/2025	ND	2.35	117	2.00	3.37	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	2.43	121	2.00	3.67	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	7.27	121	6.00	4.09	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	93.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/23/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW - 05 0-4' (H250446-32)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27	
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	115 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	0						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/23/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW - 06 0-4' (H250446-33)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27	
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	91.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/23/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW - 07 0-4' (H250446-34)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27	
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	97.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/23/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW - 08 0-4' (H250446-35)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27	
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	90.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.2	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/23/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW - 09 0-4' (H250446-36)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27	
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	199	99.4	200	4.45	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	208	104	200	5.31	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/23/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	ГВ	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW - 10 0-4' (H250446-37)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27	
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	84.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.2	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/23/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW - 11 0-4' (H250446-38)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27	
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	81.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.6	% 49.1-14	0						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/23/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW - 12 0-4' (H250446-39)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27	
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	87.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.5	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/23/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW - 09 4-15' (H250446-40)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27	
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	01/28/2025	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	79.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.5	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/23/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW - 10 4-15' (H250446-41)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27	
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	01/27/2025	ND	416	104	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	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	81.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.3	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/23/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW - 11 4-15' (H250446-42)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27	
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	01/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	85.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.2	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	01/24/2025		Sampling Date:	01/23/2025
Reported:	01/28/2025		Sampling Type:	Soil
Project Name:	SHELL STATE 1C CT	В	Sampling Condition:	Cool & Intact
Project Number:	03B1417144		Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA CO NM			

Sample ID: SW - 12 4-15' (H250446-43)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2025	ND	1.99	99.4	2.00	3.27	
Toluene*	<0.050	0.050	01/27/2025	ND	2.06	103	2.00	3.27	
Ethylbenzene*	<0.050	0.050	01/27/2025	ND	1.96	97.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/27/2025	ND	5.72	95.3	6.00	3.26	
Total BTEX	<0.300	0.300	01/27/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13300	16.0	01/28/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2025	ND	187	93.3	200	1.23	
DRO >C10-C28*	<10.0	10.0	01/27/2025	ND	209	105	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	01/27/2025	ND					
Surrogate: 1-Chlorooctane	84.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.8	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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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 whatscever 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 whose 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 whose share there applied by the services arise 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.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Company Name: Ensolum, LLC	insolum, LLC	ſ		BILL	70		ANA	ANALYSIS REQUEST	
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Address: 601 N.	601 N. Marienfeld St. STE 400	0		Company: OX	X	_	_		
2	State: TX	Zip: 79701		Attn: Wade D	Arrich				_
Phone #: 214-733-3165	-3165		Email: klowery@ensolum.com	1			0		_
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FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING	01			
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Released to Imaging: 6/25/2025 9:09:07 AM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging:	6/25/2025	9:09:07 AM

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 50 of 50

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



February 11, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SHELL STATE 1C CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/06/25 13:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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.

Cardinal Laboratories is accreditated 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. Keine

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: SHELL oject Number: 03B14 oject Manager: KELLY Fax To:		Reported: 11-Feb-25 15:35
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS - 16 18' BGS	H250733-01	Soil	06-Feb-25 09:45	06-Feb-25 13:48

02/11/25 - Client added depth to sample ID (see COC). This is the revised report and will replace the one sent earlier today, 02/11/25.

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 ar 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 su claim is based to be performed by client the amount be performed except in full with written approval of Cardinal Liopatorities.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager


ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B				1	Reported: 11-Feb-25 15:	35
				.6 18' B0 733-01 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds	10000		16.0		4	5020724	НМ	07-Feb-25	4500-Cl-B	
Chloride	10000		16.0	mg/kg	4	5020724	HM	07-Feb-25	4500-CI-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5	-134	5020703	ЛН	07-Feb-25	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5020639	MS	07-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5020639	MS	07-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5020639	MS	07-Feb-25	8015B	
Surrogate: 1-Chlorooctane			82.9 %	48.2	-134	5020639	MS	07-Feb-25	8015B	
Surrogate: 1-Chlorooctadecane			80.1 %	49.1	-148	5020639	MS	07-Feb-25	8015B	

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: SHELL STATE 1C CTE Project Number: 03B1417144 Project Manager: KELLY LOWERY Fax To:	3 Reported: 11-Feb-25 15:35
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Inorganic Compounds - Quality Control

Cardinal Laboratories RPD Spike %REC Reporting Source %REC Analyte Result Limit Units Level Result Limits RPD Limit Notes Batch 5020724 - 1:4 DI Water Blank (5020724-BLK1) Prepared & Analyzed: 07-Feb-25 Chloride ND 16.0 mg/kg LCS (5020724-BS1) Prepared & Analyzed: 07-Feb-25 Chloride 416 400 104 80-120 16.0 mg/kg LCS Dup (5020724-BSD1) Prepared & Analyzed: 07-Feb-25 Chloride 432 16.0 mg/kg 400 108 80-120 3.77 20

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*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



705 W WADLEY AVE.Project Number: 03B14171441MIDLAND TX, 79705Project Manager: KELLY LOWERY Fax To:1	Reported: 11-Feb-25 15:35	
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal	Laboratories
Carumai	Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5020703 - Volatiles										
Blank (5020703-BLK1)				Prepared &	Analyzed:	07-Feb-25				
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)	0.0532		mg/kg	0.0500		106	71.5-134			
LCS (5020703-BS1)				Prepared &	Analyzed:	07-Feb-25				
Benzene	1.77	0.050	mg/kg	2.00		88.6	82.8-130			
Toluene	1.92	0.050	mg/kg	2.00		96.2	86-128			
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.7	85.9-128			
m,p-Xylene	3.95	0.100	mg/kg	4.00		98.8	89-129			
o-Xylene	2.06	0.050	mg/kg	2.00		103	86.1-125			
Total Xylenes	6.01	0.150	mg/kg	6.00		100	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0503		mg/kg	0.0500		101	71.5-134			
LCS Dup (5020703-BSD1)				Prepared &	Analyzed:	07-Feb-25				
Benzene	1.75	0.050	mg/kg	2.00		87.7	82.8-130	1.04	15.8	
Toluene	1.92	0.050	mg/kg	2.00		96.1	86-128	0.0354	15.9	
Ethylbenzene	1.90	0.050	mg/kg	2.00		95.0	85.9-128	0.721	16	
m,p-Xylene	3.90	0.100	mg/kg	4.00		97.5	89-129	1.23	16.2	
o-Xylene	1.95	0.050	mg/kg	2.00		97.5	86.1-125	5.30	16.7	
Total Xylenes	5.85	0.150	mg/kg	6.00		97.5	88.2-128	2.60	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0491		mg/kg	0.0500		98.1	71.5-134			

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLCProject:SHELL STATE 1C CTB705 W WADLEY AVE.Project Number:03B1417144MIDLAND TX, 79705Project Manager:KELLY LOWERYFax To:	Reported: 11-Feb-25 15:35
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5020639 - General Prep - Organics										
Blank (5020639-BLK1)				Prepared: ()6-Feb-25 A	nalyzed: 0	7-Feb-25			
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	52.0		mg/kg	50.0		104	48.2-134			
Surrogate: 1-Chlorooctadecane	52.2		mg/kg	50.0		104	49.1-148			
LCS (5020639-BS1)				Prepared: ()6-Feb-25 A	nalyzed: 0	7-Feb-25			
GRO C6-C10	217	10.0	mg/kg	200		108	81.5-123			
DRO >C10-C28	213	10.0	mg/kg	200		107	77.7-122			
Total TPH C6-C28	430	10.0	mg/kg	400		108	80.9-121			
Surrogate: 1-Chlorooctane	50.8		mg/kg	50.0		102	48.2-134			
Surrogate: 1-Chlorooctadecane	51.7		mg/kg	50.0		103	49.1-148			
LCS Dup (5020639-BSD1)				Prepared: ()6-Feb-25 A	nalyzed: 0	7-Feb-25			
GRO C6-C10	206	10.0	mg/kg	200		103	81.5-123	5.10	13	
DRO >C10-C28	199	10.0	mg/kg	200		99.5	77.7-122	6.98	15.6	
Total TPH C6-C28	405	10.0	mg/kg	400		101	80.9-121	6.02	18.5	
Surrogate: 1-Chlorooctane	51.6		mg/kg	50.0		103	48.2-134			
Surrogate: 1-Chlorooctadecane	52.5		mg/kg	50.0		105	49.1-148			

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 186 of 214



February 11, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SHELL STATE 1C CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/06/25 13:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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.tceg.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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. Keine

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: SHELL oject Number: 03B14 oject Manager: KELLY Fax To:	17144	Reported: 11-Feb-25 15:38
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW 16 13-18' BGS	H250734-01	Soil	06-Feb-25 11:00	06-Feb-25 13:48

02/11/25 - Client added depth to sample ID (see COC). This is the revised report and will replace the one sent earlier today, 02/11/25.

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B				1	Reported: 11-Feb-25 15:	38
				13-18' 734-01 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	3080		16.0	mg/kg	4	5020724	HM	07-Feb-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 80)21								
Benzene*	< 0.050		0.050	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)		105 %	71.5	-134	5020703	ЛН	07-Feb-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5020639	MS	07-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5020639	MS	07-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5020639	MS	07-Feb-25	8015B	
Surrogate: 1-Chlorooctane			57.8 %	48.2	-134	5020639	MS	07-Feb-25	8015B	
Surrogate: 1-Chlorooctadecane			56.9 %	49.1	-148	5020639	MS	07-Feb-25	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: SH Project Number: 03I Project Manager: KE Fax To:		Reported: 11-Feb-25 15:38
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Inorganic Compounds - Quality Control

Cardinal Laboratories RPD Spike %REC Reporting Source %REC Analyte Result Limit Units Level Result Limits RPD Limit Notes Batch 5020724 - 1:4 DI Water Blank (5020724-BLK1) Prepared & Analyzed: 07-Feb-25 Chloride ND 16.0 mg/kg LCS (5020724-BS1) Prepared & Analyzed: 07-Feb-25 Chloride 416 400 104 80-120 16.0 mg/kg LCS Dup (5020724-BSD1) Prepared & Analyzed: 07-Feb-25 Chloride 432 16.0 mg/kg 400 108 80-120 3.77 20

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: SHELL STATE 1C CTB Project Number: 03B1417144 Project Manager: KELLY LOWERY Fax To:	Reported: 11-Feb-25 15:38
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal	Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5020703 - Volatiles										
Blank (5020703-BLK1)				Prepared &	Analyzed:	07-Feb-25				
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)	0.0532		mg/kg	0.0500		106	71.5-134			
LCS (5020703-BS1)				Prepared &	Analyzed:	07-Feb-25				
Benzene	1.77	0.050	mg/kg	2.00		88.6	82.8-130			
Toluene	1.92	0.050	mg/kg	2.00		96.2	86-128			
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.7	85.9-128			
m,p-Xylene	3.95	0.100	mg/kg	4.00		98.8	89-129			
o-Xylene	2.06	0.050	mg/kg	2.00		103	86.1-125			
Total Xylenes	6.01	0.150	mg/kg	6.00		100	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0503		mg/kg	0.0500		101	71.5-134			
LCS Dup (5020703-BSD1)				Prepared &	Analyzed:	07-Feb-25				
Benzene	1.75	0.050	mg/kg	2.00		87.7	82.8-130	1.04	15.8	
Toluene	1.92	0.050	mg/kg	2.00		96.1	86-128	0.0354	15.9	
Ethylbenzene	1.90	0.050	mg/kg	2.00		95.0	85.9-128	0.721	16	
m,p-Xylene	3.90	0.100	mg/kg	4.00		97.5	89-129	1.23	16.2	
o-Xylene	1.95	0.050	mg/kg	2.00		97.5	86.1-125	5.30	16.7	
Total Xylenes	5.85	0.150	mg/kg	6.00		97.5	88.2-128	2.60	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0491		mg/kg	0.0500		98.1	71.5-134			

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: SHELL STATE Project Number: 03B1417144 Project Manager: KELLY LOWER Fax To:	11-Feb-25 15:38	
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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
Batch 5020639 - General Prep - Organics										
Blank (5020639-BLK1)				Prepared: ()6-Feb-25 A	Analyzed: 0	7-Feb-25			
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	52.0		mg/kg	50.0		104	48.2-134			
Surrogate: 1-Chlorooctadecane	52.2		mg/kg	50.0		104	49.1-148			
LCS (5020639-BS1)				Prepared: ()6-Feb-25 A	Analyzed: 0	7-Feb-25			
GRO C6-C10	217	10.0	mg/kg	200		108	81.5-123			
DRO >C10-C28	213	10.0	mg/kg	200		107	77.7-122			
Total TPH C6-C28	430	10.0	mg/kg	400		108	80.9-121			
Surrogate: 1-Chlorooctane	50.8		mg/kg	50.0		102	48.2-134			
Surrogate: 1-Chlorooctadecane	51.7		mg/kg	50.0		103	49.1-148			
LCS Dup (5020639-BSD1)				Prepared: ()6-Feb-25 A	Analyzed: 0	7-Feb-25			
GRO C6-C10	206	10.0	mg/kg	200		103	81.5-123	5.10	13	
DRO >C10-C28	199	10.0	mg/kg	200		99.5	77.7-122	6.98	15.6	
Total TPH C6-C28	405	10.0	mg/kg	400		101	80.9-121	6.02	18.5	
Surrogate: 1-Chlorooctane	51.6		mg/kg	50.0		103	48.2-134			
Surrogate: 1-Chlorooctadecane	52.5		mg/kg	50.0		105	49.1-148			

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 4/28/2025 1:01:24 PM

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February 11, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SHELL STATE 1C CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/06/25 13:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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.

Cardinal Laboratories is accreditated 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. Keine

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: SHELL oject Number: 03B14 oject Manager: KELLY Fax To:		Reported: 11-Feb-25 15:43
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DR PI TOPSOIL	H250735-01	Soil	06-Feb-25 12:42	06-Feb-25 13:48

02/11/25 - Client clarified the sample ID. This is the revised report and will replace the one sent earlier today, 02/11/25.

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B				1	Reported: 1-Feb-25 15:	43
				TOPS(735-01 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	64.0		16.0	mg/kg	4	5020724	HM	07-Feb-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 80	21								
Benzene*	< 0.050		0.050	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5020703	ЛН	07-Feb-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5020703	JH	07-Feb-25	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		107 %	71.5	-134	5020703	JH	07-Feb-25	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	5020640	MS	07-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5020640	MS	07-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5020640	MS	07-Feb-25	8015B	
Surrogate: 1-Chlorooctane			97.9 %	48.2	-134	5020640	MS	07-Feb-25	8015B	
Surrogate: 1-Chlorooctadecane			97.1 %	49.1	-148	5020640	MS	07-Feb-25	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: SH Project Number: 03 Project Manager: KE Fax To:		Reported: 11-Feb-25 15:43
--	---	--	------------------------------

Inorganic Compounds - Quality Control

Cardinal Laboratories RPD Spike %REC Reporting Source %REC Analyte Result Limit Units Level Result Limits RPD Limit Notes Batch 5020724 - 1:4 DI Water Blank (5020724-BLK1) Prepared & Analyzed: 07-Feb-25 Chloride ND 16.0 mg/kg LCS (5020724-BS1) Prepared & Analyzed: 07-Feb-25 Chloride 416 400 104 80-120 16.0 mg/kg LCS Dup (5020724-BSD1) Prepared & Analyzed: 07-Feb-25 Chloride 432 16.0 mg/kg 400 108 80-120 3.77 20

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: SHELL STATE 1C CTB Project Number: 03B1417144 Project Manager: KELLY LOWERY Fax To:	Reported: 11-Feb-25 15:43
--	---	------------------------------

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal	Laboratories

		Reporting	T T 1 .	Spike	Source	MARC	%REC	0.00	RPD	N
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5020703 - Volatiles										
Blank (5020703-BLK1)				Prepared &	Analyzed:	07-Feb-25				
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)	0.0532		mg/kg	0.0500		106	71.5-134			
LCS (5020703-BS1)				Prepared &	Analyzed:	07-Feb-25				
Benzene	1.77	0.050	mg/kg	2.00		88.6	82.8-130			
Toluene	1.92	0.050	mg/kg	2.00		96.2	86-128			
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.7	85.9-128			
m,p-Xylene	3.95	0.100	mg/kg	4.00		98.8	89-129			
o-Xylene	2.06	0.050	mg/kg	2.00		103	86.1-125			
Total Xylenes	6.01	0.150	mg/kg	6.00		100	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0503		mg/kg	0.0500		101	71.5-134			
LCS Dup (5020703-BSD1)				Prepared &	Analyzed:	07-Feb-25				
Benzene	1.75	0.050	mg/kg	2.00		87.7	82.8-130	1.04	15.8	
Toluene	1.92	0.050	mg/kg	2.00		96.1	86-128	0.0354	15.9	
Ethylbenzene	1.90	0.050	mg/kg	2.00		95.0	85.9-128	0.721	16	
m,p-Xylene	3.90	0.100	mg/kg	4.00		97.5	89-129	1.23	16.2	
o-Xylene	1.95	0.050	mg/kg	2.00		97.5	86.1-125	5.30	16.7	
Total Xylenes	5.85	0.150	mg/kg	6.00		97.5	88.2-128	2.60	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0491		mg/kg	0.0500		98.1	71.5-134			

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLCProject:SHELL STATE 1C CTBReported:705 W WADLEY AVE.Project Number:03B141714411-Feb-25 15MIDLAND TX, 79705Project Manager:KELLY LOWERYFax To:	5:43	
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5020640 - General Prep - Organics										
Blank (5020640-BLK1)				Prepared: ()6-Feb-25 A	nalyzed: 0	7-Feb-25			
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	62.5		mg/kg	50.0		125	48.2-134			
Surrogate: 1-Chlorooctadecane	67.3		mg/kg	50.0		135	49.1-148			
LCS (5020640-BS1)				Prepared: ()6-Feb-25 A	nalyzed: 0	7-Feb-25			
GRO C6-C10	207	10.0	mg/kg	200		104	81.5-123			
DRO >C10-C28	208	10.0	mg/kg	200		104	77.7-122			
Total TPH C6-C28	415	10.0	mg/kg	400		104	80.9-121			
Surrogate: 1-Chlorooctane	66.8		mg/kg	50.0		134	48.2-134			
Surrogate: 1-Chlorooctadecane	68.8		mg/kg	50.0		138	49.1-148			
LCS Dup (5020640-BSD1)				Prepared: ()6-Feb-25 A	nalyzed: 0	7-Feb-25			
GRO C6-C10	203	10.0	mg/kg	200		102	81.5-123	1.91	13	
DRO >C10-C28	201	10.0	mg/kg	200		100	77.7-122	3.49	15.6	
Total TPH C6-C28	404	10.0	mg/kg	400		101	80.9-121	2.70	18.5	
Surrogate: 1-Chlorooctane	63.2		mg/kg	50.0		126	48.2-134			
Surrogate: 1-Chlorooctadecane	64.5		mg/kg	50.0		129	49.1-148			

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 4/28/2025 1:01:24 PM

	(575) 393-2326 FAX (575) 393-2476	476	BILL TO	R.			ANALYSIS REQUEST	
TH K	KELLY LOWERY		P.O. #:					-
City: MIdland	State: 7×	Zip: 75901	Company: Attn: Wabe Sztfrich	7	_			
Phone #: Klowery Bensohum. com	sofum.com Fax #:		SS:					
Project #: 0381417144	44 Project Owner:	n 0,44	City:		_			
Project Name: SHELL	STATE 1C CTB	(State: Zip:					
Project Location:	& COUNTY, NN)		Phone #:		٥			_
Sampler Name: Udeh	th ATUKA		1					_
	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :		BTEX 80211 TPH 8015	CHLORISE		
70 1	PI TOPSOIL	×	x 2/6/2	1242 ×	×	×		
EASE NOTE: Liability and Damanes Can	EASE NOTE: Liability and clintric available av							
The in original states of the period of the	Index In one event shall Cardinucte liable for incidential or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, including without limitation, business interruptions, loss of use, or	or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries formance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Date: Received BY: Verbal Results a Time: All Results a All Results a	oss of use, or loss of profils incurred by cit s based upon any of the above stated rea	ent, its subsidiaries, sons or otherwise. Verbai Result: All Results are	emailed. I	Please provi	lent, is subdicitiere exponent lent, is subdicitiere exponent isons or otherwise. Verbal Result: Ves Ves No Add'I Phone #: All Results are emailed. Please provide Email address:	
elinquished By:	Date: Time:	Received By:	0	REMARKS:			1	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Page 202 of 214



October 03, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MILLS RANCH PIT

Enclosed are the results of analyses for samples received by the laboratory on 09/30/24 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	09/30/2024		Sampling Date:	09/30/2024
Reported:	10/03/2024		Sampling Type:	Soil
Project Name:	MILLS RANCH PIT		Sampling Condition:	Cool & Intact
Project Number:	03B1417139		Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY,	, NM		

Sample ID: MILLS RANCH PIT 0.25' (H245925-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2024	ND	1.99	99.6	2.00	6.75	
Toluene*	0.060	0.050	10/02/2024	ND	2.05	103	2.00	6.79	
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.07	104	2.00	7.11	
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.16	103	6.00	7.03	
Total BTEX	<0.300	0.300	10/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2024	ND	432	108	400	7.14	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	205	103	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	183	91.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					
Surrogate: 1-Chlorooctane	72.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	62.3	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received by OCD: 4/28/2025 1:01:24 PM

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

Page 207 of 214

QUESTIONS

Action 456289

QUESTIONS		
Operator:	OGRID:	
OXY USA INC	16696	
P.O. Box 4294	Action Number:	
Houston, TX 772104294	456289	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2402456040
Incident Name	NAPP2402456040 SHELL STATE 1C CTB @ 30-025-20810
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-20810] SHELL STATE #001

Location of Release Source

Site Name	SHELL STATE 1C CTB
Date Release Discovered	01/23/2024
Surface Owner	State

Incident Details

Please answer all the questions in this group.	
Incident Type	Release Other
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	Νο
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	Νο

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: Human Error Valve Crude Oil Released: 10 BBL Recovered: 3 BBL Lost: 7 BBL.
Produced Water Released (bbls) Details	Cause: Human Error Valve Produced Water Released: 40 BBL Recovered: 3 BBL Lost: 37 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Produced oil and produced water release

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 2

Action 456289

QUESTIONS (continued)	
Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	456289
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
	[C-141] Remediation Closure Request C-141 (C-141-V-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
No, according to supplied volumes this does not appear to be a "gas only" report.	
Yes	
From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.	
(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 s	afety hazard that would result in injury.	
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
	Not answered. ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of	
ions 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 positions of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.		
acceleren n.e. 19.19.19.19.19.19.19.19.19.19.19.19.19.1		
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 require 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 b 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: 04/28/2025	

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	456289
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

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

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

Remediation Plan

appropriate district office no later than 90 days after the release discovery date.
Yes
ssociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Yes
No
rams per kilograms.)
90600
670
526
0
0
forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
03/20/2024
04/16/2025
04/16/2025
6281
931
6281
8208
me 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.

QUESTIONS, Page 3

Action 456289

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

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QUEST	IONS (continued)
Operator: OXY USA INC	OGRID: 16696
P.O. Box 4294 Houston, TX 772104294	Action Number: 456289
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	e appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate	e / reduce contaminants:
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site 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
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ex which includes the anticipated timelines for beginning and completing the remediation.	fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
to report and/or file certain release notifications and perform corrective actions for releated to a corrective actions for releated to a correct does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
	Name: Wade Dittrich

I hereby agree and sign off to the above statement	Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 04/28/2025
--	--

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

QUESTIONS, Page 5

Action 456289

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QUESTIONS (continued)	
Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	456289
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QU	ES	TIO	NS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	Νο

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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, Page 6

Action 456289

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QUESTIONS (continued)	
Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	456289
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	427462
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/06/2025
What was the (estimated) number of samples that were to be gathered	1
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 r	emediation 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	9872
What was the total volume (cubic yards) remediated	4733
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	9872
What was the total volume (in cubic yards) reclaimed	1463
Summarize any additional remediation activities not included by answers (above)	NA
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ing notification to the OCD when reclamation and re-vegetation are complete.
	Name: Wade Dittrich

	Name: Wade Dittrich
I hereby agree and sign off to the above statement	Title: Environmental Coordinator
	Email: wade_dittrich@oxy.com
	Date: 04/28/2025

General Information Phone: (505) 629-6116

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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, Page 7

Action 456289

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QUESTIONS (continued)				
Operator: OXY USA INC	OGRID: 16696			
P.O. Box 4294 Houston, TX 772104294	Action Number: 456289			
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)			
OUESTIONS				

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

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CONDITIONS

Action 456289

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	456289
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	The remediation closure is approved.	6/25/2025
michael.buchanan	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. The 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.	6/25/2025
michael.buchanan	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	6/25/2025
michael.buchanan	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	6/25/2025
michael.buchanan	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	6/25/2025
michael.buchanan	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	6/25/2025