



## DEFERRAL REQUEST

Property:

**Corral Canyon 36-25 CTB**

**Eddy County, New Mexico  
32.158888 N, 103.938374 W  
NMOCD Incident ID: nAB1903659101**

June 1, 2023


Ensolum Project No. 03B1417028

Prepared for:

**Oxy USA Inc.  
P.O. Box 4294  
Houston, TX 77210  
Attn: Mr. Wade Dittrich**

Prepared by:

  
Beaux Jennings  
Senior Project Manager

  
Heather Holthaus  
Senior Project Manager



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32.158888 N, 103.938374 W  
NMOCD Incident ID: nAB1903659101**

**Ensolum Project No. 03B1417028**

### 1.0 INTRODUCTION

#### 1.1 Executive Summary

- On January 22, 2019, a release of crude oil was reported from a compromised seal on a circulating pump at the Corral Canyon 36-25 CTB, hereinafter referred to as the "Site". Approximately 100 barrels (bbls) of crude oil were released onto the ground surface and impacted an area approximately 250 feet long by 10 to 40 feet wide and a secondary area approximately 30 feet long by 10 to 30 feet wide. Approximately 80 bbls of crude oil were recovered. The Delineation/Remediation Work Plan, prepared by BBC International Incorporated (BBC) on behalf of Oxy USA Inc. (Oxy), stated that the impacted area would be excavated to depths ranging from 3 to 5 feet below ground surface (bgs).
- Due to the unknown depth to groundwater in the 0.5-mile vicinity, a depth to water soil boring (SB-1, (C-04604-POD1)) was installed on April 13, 2022 by Ensolum personnel. The soil boring was installed on Oxy property adjacent to the Site, located approximately 0.45 mile to the west. The soil boring was installed to 108 feet bgs, and groundwater was not encountered 72-hours after the soil boring was installed. The applicable Closure Criteria were utilized based on the lack of groundwater observed within the first 108 feet bgs within 0.50 mile of the Site.
- Between April 7, 2022 and January 5, 2023, Ensolum arrived on-Site and collected a total of 44 composite soil samples from 16 locations on the excavation floor (FS-1 through FS-16), and 24 composite soil samples from 8 locations on the excavation sidewalls (N-SW-1, N-SW-2, E-SW-1, E-SW-2, S-SW-1, S-SW-2, W-SW-1 and W-SW-2). The composite floor samples were collected at depths ranging from 2 to 36 inches bgs, and the composite sidewall samples were collected at depths ranging from 0-12 and 0-36 inches bgs. Subsequent to excavation activities, Micro-Blaze was applied to excavation area and tilled in to promote bioremediation of hydrocarbons.
- The primary objective of the closure activities was to reduce chemical of concern (COC) concentrations in the on-Site soils to below the applicable New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) Closure Criteria for Soils Impacted by a Release using the New Mexico Administrative Code (NMAC) 19.15.29 Releases as guidance.
- The final excavation area measured approximately impacted area measured approximately 250 feet long by 10 to 40 feet wide and a secondary area approximately 30 feet long by 10 to 30 feet wide. The maximum depth of the impacted area measured approximately 36 inches bgs.
- Based on the laboratory analytical results, the final composite soil samples collected from the excavation did not exhibit benzene, total benzene, toluene, ethylbenzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), motor oil range organics (MRO) or chloride concentrations above the applicable NMOCD Closure Criteria. Subsequent to the results of the confirmation soil sampling, the excavated soils were removed and taken off-Site for proper disposal and the excavated area was backfilled with clean fill material, and then contoured to the original surrounding grade.

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**Based on field observations, field screening activities, and soil sample laboratory analytical results, Oxy is submitting this Deferral Request, describing site assessment and delineation activities that have occurred and requesting deferral of final remediation for NMOCD Incident ID nAB1903659101 until the Site is reconstructed, and/or the well pad is abandoned.**

## 1.2 Site Description & Background

<b>Operator:</b>	Oxy USA Inc. (Oxy)
<b>Site Name:</b>	Corral Canyon 36-25 CTB
<b>Location:</b>	Eddy County, New Mexico 32.158888 N, 103.938374 W
<b>Property:</b>	New Mexico State Trust Lands
<b>Regulatory:</b>	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

The Topographic Map depicting the location of the Site is included as **Figure 1**, the Site Vicinity Map is included as **Figure 2**, the Site Map indicating the locations of composite soil samples is included as **Figure 3**, and the Closure Criteria Map is included as **Figure 4** in **Appendix A**.

## 1.3 Project Objective

The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below 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 NMAC 19.15.29 *Releases*, which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. 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.

- The Site is not located within 300 feet of a New Mexico EMNRD OCD-defined continuously flowing watercourse or any other 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 from an occupied 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 (5) households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database there are no freshwater wells identified within 1,000 feet of the Site as declared in the previous bullet.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3.



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- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's 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 Bureau of Land Management (BLM), the Site is not located within an unstable area.
- The Site is noted to be located within an area of minimal flood hazard.

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

Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
>100 feet	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO)	EPA SW-846 Method 8015M	1,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 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 22, 2019, a release of crude oil was reported from a compromised seal on a circulating pump at the Corral Canyon 36-25 CTB. Approximately 100 bbls of crude oil were released onto the ground surface and impacted an area approximately 250 feet long by 10 to 40 feet wide and a secondary area approximately 30 feet long by 10 to 30 feet wide. Approximately 80 bbls of crude oil were recovered. The Delineation/Remediation Work Plan, prepared by BBC on behalf of Oxy, stated that the impacted area would be excavated to depths ranging from 3 to 5 feet bgs.

Due to the unknown depth to groundwater in the 0.5-mile vicinity, a depth to water soil boring (SB-1) was installed on April 13, 2022 by Ensolum personnel. The soil boring was installed on Oxy property adjacent to the Site, located approximately 0.45 mile to the west. The soil boring was installed to 108 feet bgs, and groundwater was not encountered 72-hours after the soil boring was installed. The applicable Closure Criteria were utilized based on the lack of groundwater observed within the first 108 feet bgs at the Site.

Between April 7, 2022 and January 5, 2023, Ensolum arrived on-Site and collected a total of 44 composite soil samples from 16 locations on the excavation floor (FS-1 through FS-16), and 24 composite soil samples from 8 locations on the excavation sidewalls (N-SW-1, N-SW-2, E-SW-1, E-SW-2, S-SW-1, S-SW-2, W-SW-1 and W-SW-2). The composite floor samples were collected at depths ranging from 2 to 36 inches bgs, and the composite sidewall samples were collected at depths ranging from 0-12 and 0-36 inches bgs. Subsequent to excavation activities, Micro-Blaze was applied to excavation area and tilled in to promote bioremediation of hydrocarbons.

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Based on the laboratory analytical data of the final composite soil samples collected, no additional excavation was required. Subsequent to the results of the composite soil sampling, the excavated soils were removed and taken off-Site for proper disposal.

The final excavation area measured approximately impacted area measured approximately 250 feet long by 10 to 40 feet wide and a secondary area approximately 30 feet long by 10 to 30 feet wide. The maximum depth of the impacted area measured approximately 36 inches bgs.

The lithology encountered during the completion of sampling activities consisted primarily of brown windblown sand with an 18-inch caliche layer for the on-Site pad.

**Figure 3** identifies approximate soil sample locations and approximate dimensions of the impacted area with respect to the Site (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

#### 4.0 SOIL SAMPLING PROGRAM

Ensolum's composite soil sampling program included the collection of a total of 44 composite soil samples from 16 locations on the excavation floor (FS-1 through FS-16), and 24 composite soil samples from 8 locations on the excavation sidewalls (N-SW-1, N-SW-2, E-SW-1, E-SW-2, S-SW-1, S-SW-2, W-SW-1 and W-SW-2). The composite floor samples were collected at depths ranging from 2 to 36 inches bgs, and the composite sidewall samples were collected at depths ranging from 0-12 and 0-36 inches bgs.

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 for standard laboratory analysis.

#### 5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX utilizing Environmental Protection Agency (EPA) SW-846 Method 8021B, TPH GRO/DRO/MRO utilizing EPA SW-846 Method 8015M, and chloride utilizing EPA Method 4500-Cl B.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix E**.

#### 6.0 DATA EVALUATION

Ensolum compared the benzene, total BTEX, TPH GRO/DRO/MRO, and chloride concentrations associated with the final composite soil samples collected from the excavation floor (FS-1 through FS-16) and the excavation sidewalls (N-SW-1, N-SW-2, E-SW-1, E-SW-2, S-SW-1, S-SW-2, W-SW-1 and W-SW-2) to the applicable NMOCD Closure Criteria.

- Laboratory analytical results indicate benzene concentrations for the final composite soil samples are below the laboratory sample detection limits (SDLs), which are below the applicable NMOCD Closure Criteria of 10 mg/kg.
- Laboratory analytical results indicate that total BTEX concentrations for the final composite soil samples range from below the laboratory SDLs to 20.2 milligrams per kilogram (mg/kg), which are below the applicable NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicate combined TPH GRO/DRO concentrations for the final composite soil samples range from below the laboratory SDLs to 968 mg/kg, which are below the applicable NMOCD Closure Criteria of 1,000 mg/kg for >100 feet.

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- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the final composite soil samples range from below the laboratory SDLs to 1,186 mg/kg, which are below the applicable NMOCD Closure Criteria of 2,500 mg/kg for >100 feet.
- Laboratory analytical results indicate chloride concentrations for the final composite soil samples range from 16.0 mg/kg to 1,090 mg/kg, which are below the applicable NMOCD Closure Criteria of 20,000 mg/kg for >100 feet.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**.

## 7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the final confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal. The excavated area was backfilled with clean fill material, and then contoured to the original surrounding grade. The spill area is a caliche pad and does not require reclamation or revegetation at this time.

## 8.0 DEFERRAL REQUEST

Oxy is requesting deferral of final remediation due to the presence of active production equipment and surface pipelines within the spill area. The impacted soil is limited to the area immediately adjacent to active production equipment, where remediation would require a major facility deconstruction.

The impacted soil remaining in place beneath composite floor sample locations FS-10 and FS-11 is delineated vertically by delineation soil sample SP4 collected at 4 feet bgs. A maximum of 92 cubic yards of TPH impacted soil remains in place beneath the liner assuming a maximum 4-foot depth based on the delineation soil samples listed above, that were compliant with the Closure Criteria.

Oxy does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 108 feet bgs, the release was contained laterally by the active production equipment and surface pipelines, and the impacted soil remaining in place is limited to the area immediately beneath composite soil sample locations FS-10 and FS-11.

**Based on field observations, field screening activities, and soil sample laboratory analytical results, Oxy is submitting this Deferral Request, describing site assessment and delineation activities that have occurred and requesting deferral of final remediation for NMOCD Incident ID nAB1903659101 until the Site is reconstructed, and/or the well pad is abandoned.**

## 9.0 FINDINGS AND RECOMMENDATION

- On January 22, 2019, a release of crude oil was reported from a compromised seal on a circulating pump at the Site. Approximately 100 bbls of crude oil were released onto the ground surface and impacted an area approximately 250 feet long by 10 to 40 feet wide and a secondary area approximately 30 feet long by 10 to 30 feet wide. Approximately 80 bbls of crude oil were recovered. The Delineation/Remediation Work Plan, prepared by BBC on behalf of Oxy, stated that the impacted area would be excavated to depths ranging from 3 to 5 feet bgs.
- Due to the unknown depth to groundwater in the 0.5-mile vicinity, a depth to water soil boring (SB-1, (C-04604-POD1)) was installed on April 13, 2022 by Ensolum personnel. The soil boring was installed on Oxy property adjacent to the Site, located approximately 0.45 mile to the west. The soil boring was installed to 108 feet bgs, and groundwater was not encountered 72-hours after the soil boring was installed. The applicable Closure Criteria were utilized based on the lack of groundwater observed within the first 108 feet bgs within 0.50 mile of the Site.

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- Between April 7, 2022 and January 5, 2023, Ensolum arrived on-Site and collected a total of 44 composite soil samples from 16 locations on the excavation floor (FS-1 through FS-16), and 24 composite soil samples from 8 locations on the excavation sidewalls (N-SW-1, N-SW-2, E-SW-1, E-SW-2, S-SW-1, S-SW-2, W-SW-1 and W-SW-2). The composite floor samples were collected at depths ranging from 2 to 36 inches bgs, and the composite sidewall samples were collected at depths ranging from 0-12 and 0-36 inches bgs. Subsequent to excavation activities, Micro-Blaze was applied to excavation area and tilled in to promote bioremediation of hydrocarbons.
- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD Closure Criteria for Soils Impacted by a Release using the NMAC 19.15.29 *Releases* as guidance.
- The final excavation area measured approximately impacted area measured approximately 250 feet long by 10 to 40 feet wide and a secondary area approximately 30 feet long by 10 to 30 feet wide. The maximum depth of the impacted area measured approximately 36 inches bgs.
- Based on the laboratory analytical results, the final composite soil samples collected from the excavation did not exhibit benzene, total BTEX, total TPH, GRO, DRO, MRO or chloride concentrations above the applicable NMOCD Closure Criteria. Subsequent to the results of the confirmation soil sampling, the excavated soils were removed and taken off-Site for proper disposal and the excavated area was backfilled with clean fill material, and then contoured to the original surrounding grade.

**Based on field observations, field screening activities, and soil sample laboratory analytical results, Oxy is submitting this Deferral Request, describing site assessment and delineation activities that have occurred and requesting deferral of final remediation for NMOCD Incident ID nAB1903659101 until the Site is reconstructed, and/or the well pad is abandoned.**

## 10.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

### 10.1 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.

### 10.2 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 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 at 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.

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### 10.3 Reliance

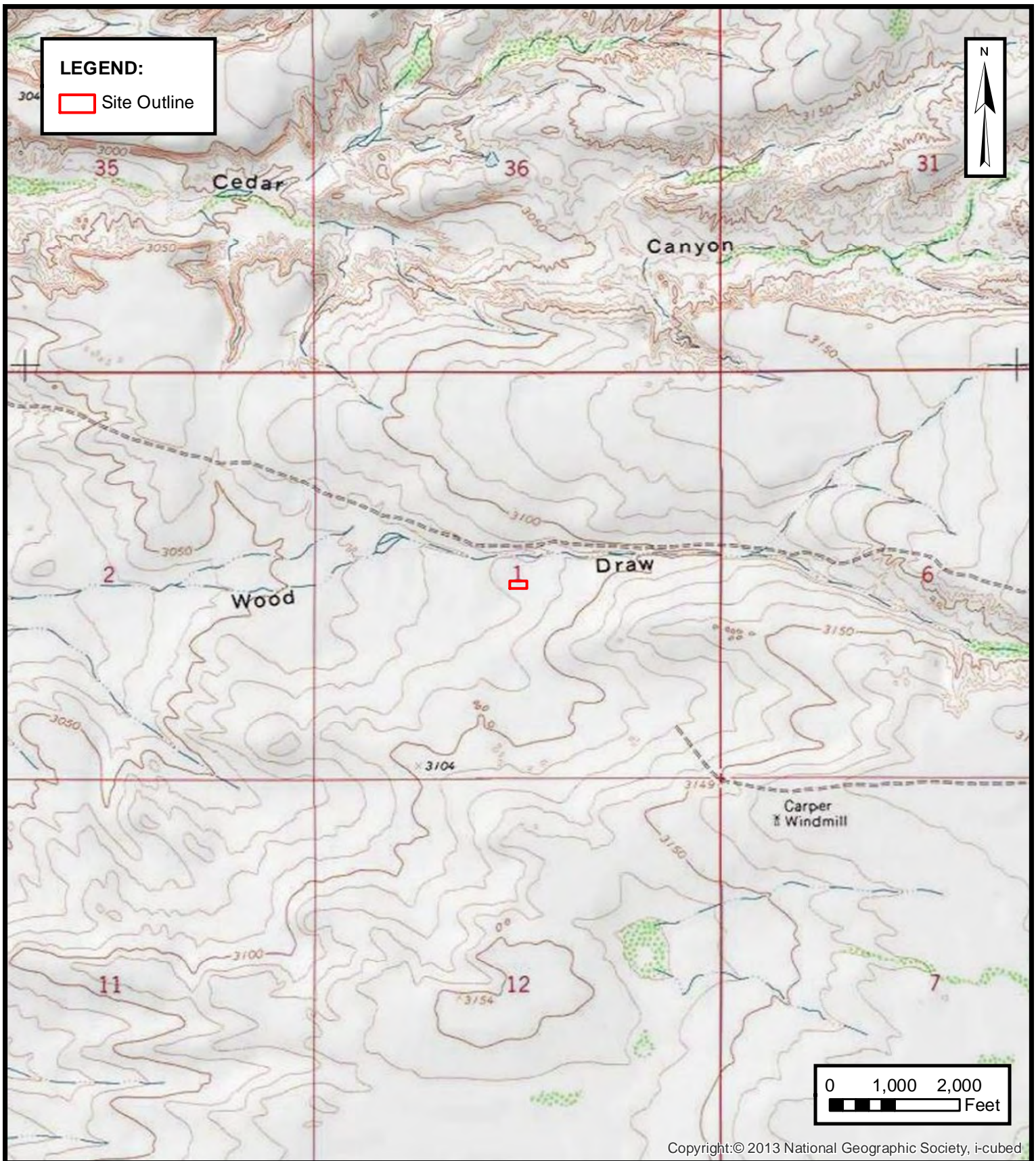
This report has been prepared for the exclusive use of Oxy USA, Inc., and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Oxy USA, Inc. and Ensolum. Any unauthorized distribution 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





**ENSOLUM**  
Environmental & Hydrogeologic Consultants

#### SITE MAP

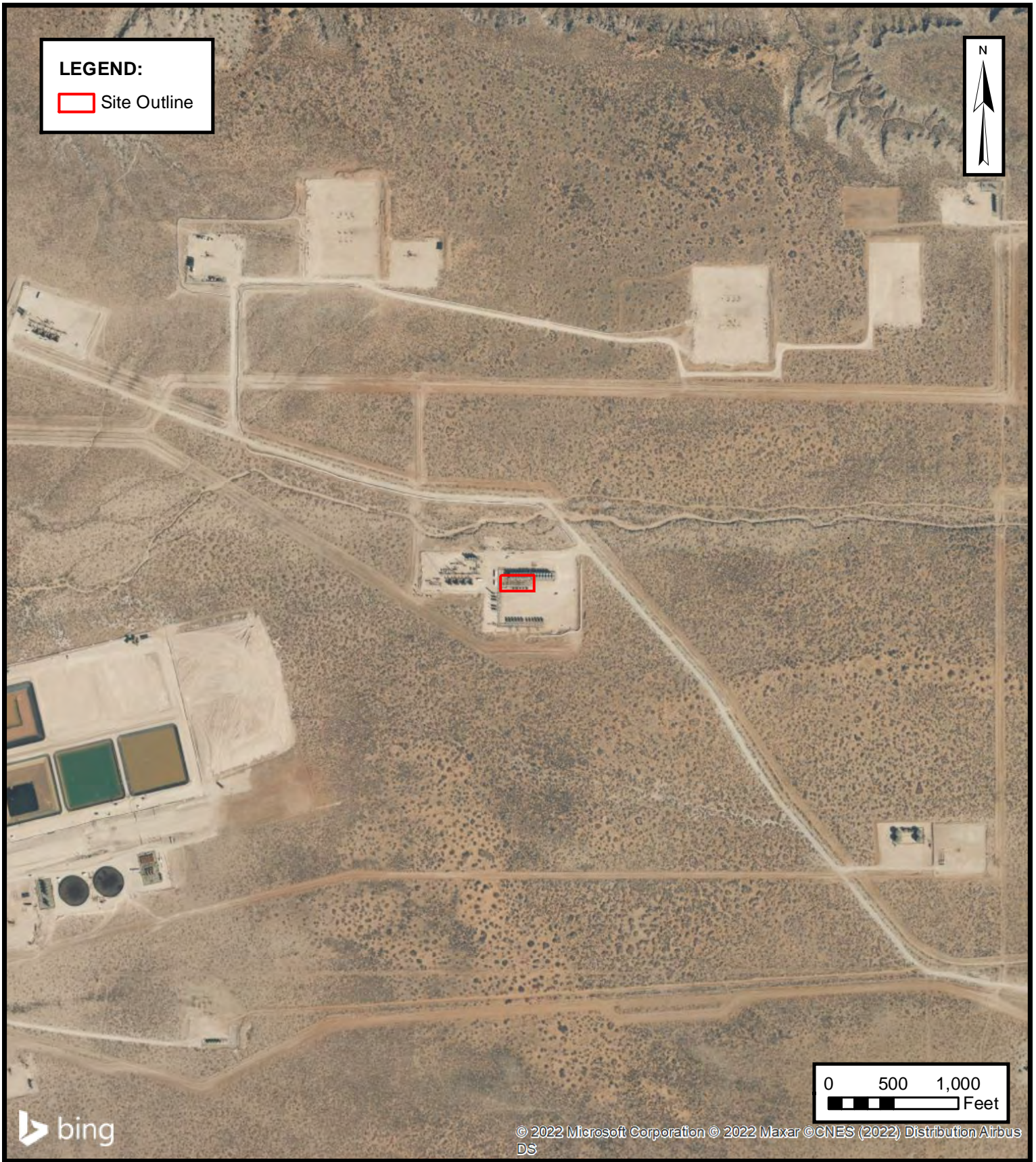
OXY USA INC.  
CORRAL CANYON 36-25 CTB  
Eddy County, New Mexico  
32.158888° N, 103.938374° W

PROJECT NUMBER: 03B1417028

FIGURE

1





**SITE MAP**

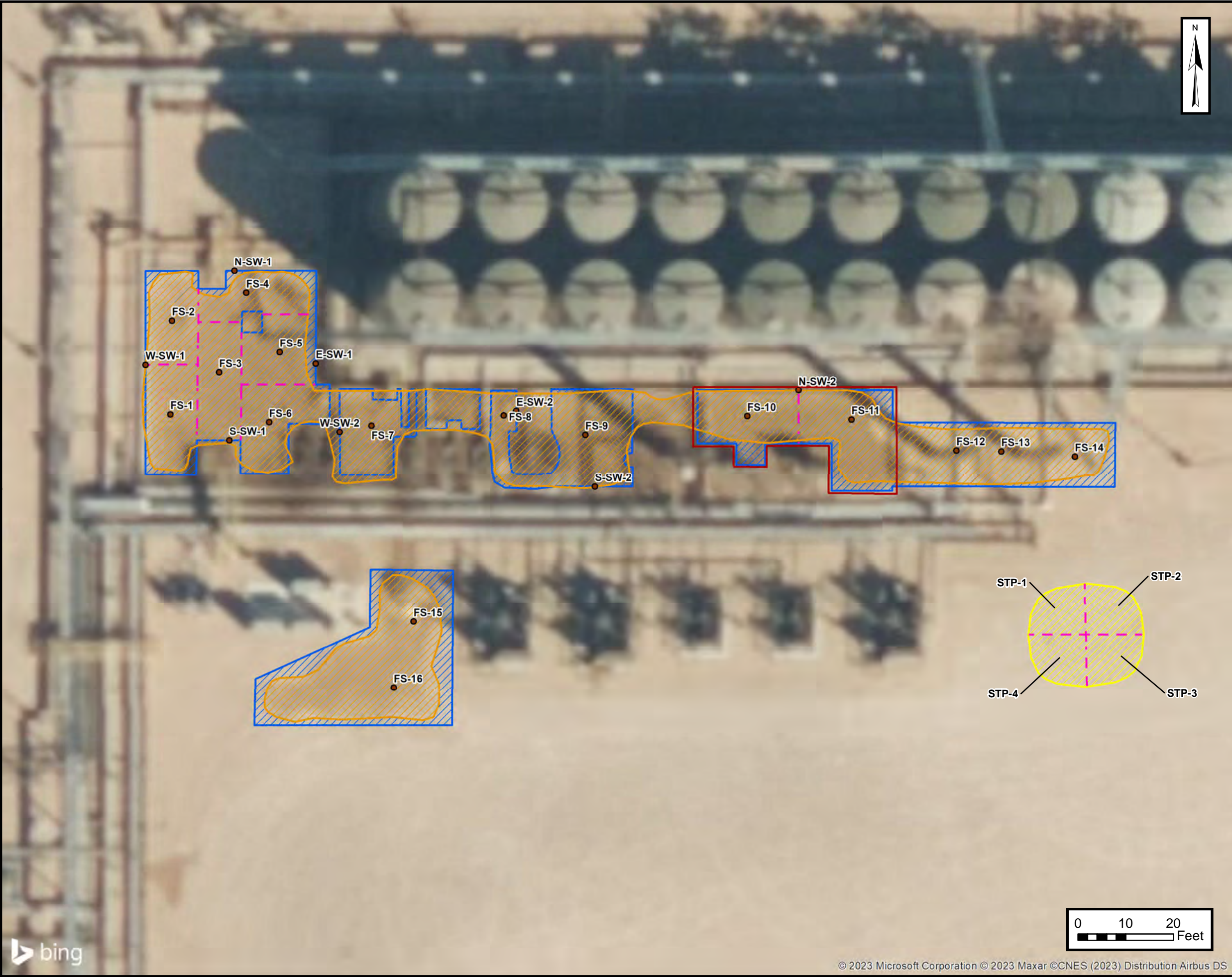
OXY USA INC.  
CORRAL CANYON 36-25 CTB  
Eddy County, New Mexico  
32.158888° N, 103.938374° W

PROJECT NUMBER: 03B1417028

**FIGURE**

**2**





- LEGEND:**
- Composite Soil Sample Location
  - - - Sample Grid Boundary
  - Deferral Area
  - Sample Grid Location
  - Spill Extent
  - Former Stockpile Location



**SITE MAP**

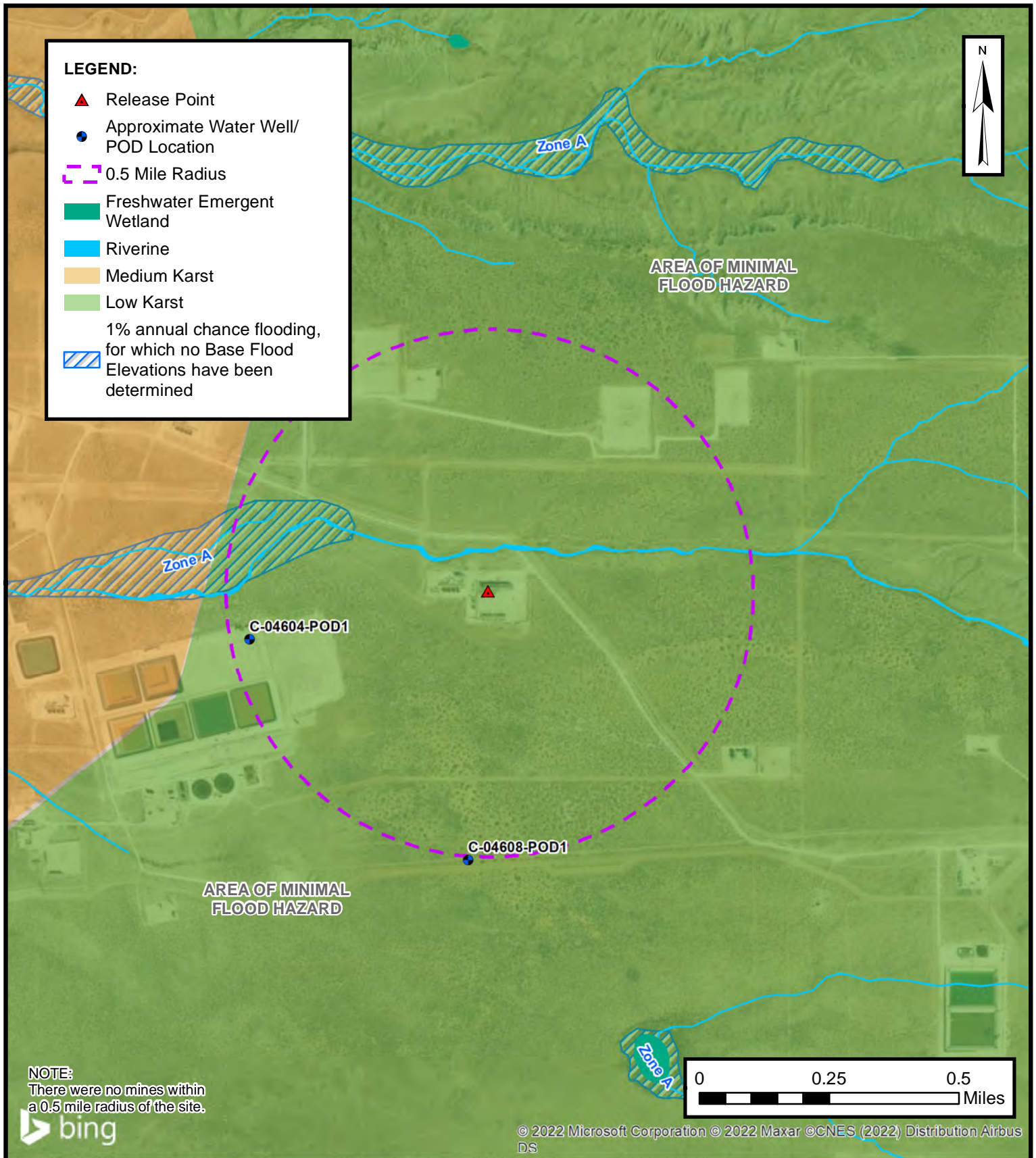
OXY USA INC.  
CORRAL CANYON 36-25 CTB

Eddy County, New Mexico  
32.15888°N, 103.938374° W

**FIGURE 3**

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**CLOSURE CRITERIA MAP**

OXY USA INC.  
CORRAL CANYON 36-25 CTB  
Eddy County, New Mexico  
32.158888° N, 103.938374° W

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**FIGURE**

**4**

**ENSOLUM**  
Environmental, Engineering and  
Hydrogeologic Consultants



## APPENDIX B

### Supporting Documentation

## Beaux Jennings

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**From:** Beaux Jennings  
**Sent:** Tuesday, April 5, 2022 10:30 AM  
**To:** OCD.Enviro@state.nm.us  
**Subject:** Corral Canyon 36-25 CTB (2RP-5221)

Good Morning,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provided notification for sampling activities that will be conducted at the Corral Canyon 36-25 CTB (2RP-5221). The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



**Beaux Jennings**  
Senior Project Manager  
210-219-8858  
**Ensolum, LLC**  
**in f**

## Beaux Jennings

---

**From:** Beaux Jennings  
**Sent:** Monday, August 8, 2022 4:38 PM  
**To:** OCD.Enviro@state.nm.us  
**Subject:** Corral Canyon 36-25 CTB (2RP-5221)

Good afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Corral Canyon 36-25 CTB (2RP-5221) on Friday, August 12<sup>th</sup> at 9am. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



**Beaux Jennings**  
Senior Project Manager  
210-219-8858  
**Ensolum, LLC**  
in f 

## Beaux Jennings

---

**From:** Beaux Jennings  
**Sent:** Monday, October 10, 2022 10:42 AM  
**To:** OCD.Enviro@emnrd.nm.gov  
**Subject:** Corral Canyon 36-25 CTB (2RP-5221)

Good afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Corral Canyon 36-25 CTB (2RP-5221) on Thursday, October 13<sup>th</sup> at 10am. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



**Beaux Jennings**  
Senior Project Manager  
210-219-8858  
**Ensolum, LLC**  
in f 

**Beaux Jennings**

---

**From:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Sent:** Monday, November 14, 2022 5:30 PM  
**To:** Beaux Jennings  
**Cc:** Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD  
**Subject:** RE: [EXTERNAL] Corral Canyon 36-25 CTB (2RP-5221)

[ \*\*EXTERNAL EMAIL\*\* ]

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

**Jocelyn Harimon** • Environmental Specialist  
Environmental Bureau  
EMNRD - Oil Conservation Division  
1220 South St. Francis Drive | Santa Fe, NM 87505  
(505)469-2821 | [Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)  
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



---

**From:** Beaux Jennings <bjennings@ensolum.com>  
**Sent:** Monday, November 14, 2022 4:02 PM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Subject:** [EXTERNAL] Corral Canyon 36-25 CTB (2RP-5221)

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 provide notification for sampling activities that will be conducted at the Corral Canyon 36-25 CTB (2RP-5221) on Thursday, November 17<sup>th</sup> at 1pm. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



**Beaux Jennings**  
Senior Project Manager  
210-219-8858  
**Ensolum, LLC**  
in f t

**Beaux Jennings**

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**From:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Sent:** Tuesday, January 3, 2023 2:05 PM  
**To:** Beaux Jennings  
**Cc:** Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD  
**Subject:** RE: [EXTERNAL] Corral Canyon 36-25 CTB (2RP-5221)

[ \*\*EXTERNAL EMAIL\*\* ]

Beaux,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

**Jocelyn Harimon** • Environmental Specialist  
Environmental Bureau  
EMNRD - Oil Conservation Division  
1220 South St. Francis Drive | Santa Fe, NM 87505  
(505)469-2821 | [Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)  
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



---

**From:** Beaux Jennings <bjennings@ensolum.com>  
**Sent:** Tuesday, January 3, 2023 12:14 PM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Subject:** [EXTERNAL] Corral Canyon 36-25 CTB (2RP-5221)

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 provide notification for sampling activities that will be conducted at the Corral Canyon 36-25 CTB (2RP-5221) on Thursday, January 5<sup>th</sup> at 1300 MST. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



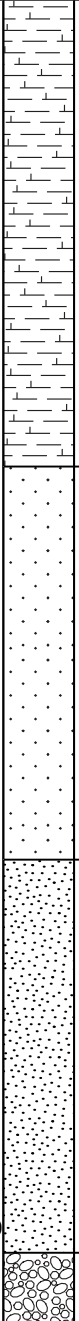
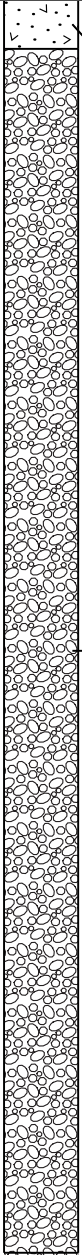

**Beaux Jennings**  
Senior Project Manager  
210-219-8858  
**Ensolum, LLC**  
in f

**PLEASE NOTE OUR NEW CORPORATE ADDRESS:**



Ensolum, LLC  
8330 LBJ Freeway, Ste. 830  
Dallas, TX 75243

## BORING LOG SB-1

<b>PROJECT NUMBER</b> 03B1417028		<b>DRILLING DATE</b> 04/13/2022		<b>COORDINATES</b> 32.157576, -103.945856			
<b>PROJECT NAME</b> Corral Canyon 36-25 CTB		<b>TOTAL DEPTH</b> 108		<b>DRILLED BY</b> WTWWS			
<b>CLIENT</b> Oxy USA Inc.		<b>BOREHOLE DIAMETER</b> 6 3/4"		<b>DRILLER</b> Russel Sutherland			
<b>PROJECT LOCATION</b> Eddy County, NM		<b>CASING DIAMETER</b> NA		<b>SURFACE ELEVATION</b> NA			
<b>PROJECT MANAGER</b> Beaux Jennings		<b>SCREEN</b> NA		<b>BORING METHOD</b> Air Rotary			
<b>COMMENTS</b>				<b>LOGGED BY</b> Beaux Jennings			
				<b>CHECKED BY</b> Liz Scaggs			
PID	Samples	Depth (ft)	Graphic Log	Moisture	Material Description	Well Diagram	
		10		Dry	Caliche, up to one (1) inch limestone fragments, pinkish white, dry, no odor	 <div style="position: absolute; top: 310px; left: 810px;">Concrete</div> <div style="position: absolute; top: 600px; left: 810px;">Soil Cuttings</div>	
		20					
		30					
		40		Dry	Sandstone, fine-grained, brittle, reddish yellow, dry, no odor		
		50					
		60					
		70		Dry	Sand, fine-grained, light brown, dry, no odor		
		80					
		90					
		100					
					Collapsed hole, Total Depth 102 ft after pulling rods.		
		110			Total Depth: 108 ft		

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

Page 1 of 1

No.

C-4604-POD1



## NEW MEXICO OFFICE OF THE STATE ENGINEER

## WR-07 APPLICATION FOR PERMIT TO DRILL

## A WELL WITH NO WATER RIGHT

(check applicable box):

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

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

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

☐ Temporary Request - Requested Start Date: 4/1/22

Requested End Date: 4/15/22

Plugging Plan of Operations Submitted? ☒ Yes ☐ No

## 1. APPLICANT(S)

Name: Oxy USA Inc.	Name: Ensolum, LLC
Contact or Agent: <input type="checkbox"/> check here if Agent Mr. Wade Dittrich	Contact or Agent: <input checked="" type="checkbox"/> check here if Agent Mr. Beaux Jennings
Mailing Address: PO Box 4294	Mailing Address: 705 W. Wadley Ave, Ste 240
City: Houston	City: Midland
State: TX Zip Code: 77210	State: TX Zip Code: 79705
Phone: 575-390-2828 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell Phone (Work):	Phone: 210-219-8858 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell Phone (Work):
E-mail (optional): wade_dittrich@oxy.com	E-mail (optional): bjennings@ensolum.com

FOR OSE INTERNAL USE

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

File No.: C-4604	Tm. No.: 722106	Receipt No.:
Trans Description (optional): MON		
Sub-Basin: CUB	PCW/LOG Due Date: 3/24/23	

Page 1 of 3

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

<b>Location Required:</b> Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), <u>or</u> Latitude/Longitude (Lat/Long - WGS84). District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.			
<input type="checkbox"/> NM State Plane (NAD83) (Feet) <input type="checkbox"/> NM West Zone <input type="checkbox"/> NM East Zone <input type="checkbox"/> NM Central Zone		<input type="checkbox"/> UTM (NAD83) (Meters) <input type="checkbox"/> Zone 12N <input type="checkbox"/> Zone 13N	
<input checked="" type="checkbox"/> Lat/Long (WGS84) (to the nearest 1/10 <sup>th</sup> of second)			
Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
C-4604 PODI SB-1	-103.945856	32.157576	NW 1/4 of SW 1/4 of S1, T25S, R29E
			USE DIT MAR 21 2022 AM 11:36
<b>NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)</b> Additional well descriptions are attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, how many _____			
Other description relating well to common landmarks, streets, or other: Soil boring will be installed approximately 100' due west of on-site oil and gas well.			
Well is on land owned by: State Land Office			
<b>Well Information:</b> <b>NOTE: If more than one (1) well needs to be described, provide attachment.</b> Attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, how many _____			
Approximate depth of well (feet): 110		Outside diameter of well casing (inches): 6	
Driller Name: West Texas Water Well Service - Ronny Keith		Driller License Number: WD-1184	

**3. ADDITIONAL STATEMENTS OR EXPLANATIONS**

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

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: C-4604

Trm No.: 722104

Page 2 of 3



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

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

## ACKNOWLEDGEMENT

USE DIT MAR 21 2022 PM 11:36

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

Print Name(s)

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

Wade Dittrich  
Applicant Signature

Beaux Jennings  
Applicant Signature

## ACTION OF THE STATE ENGINEER

This application is:

☒ approved ☐ partially approved ☐ denied

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

Witness my hand and seal this 24<sup>th</sup> day of March 20 22, for the State Engineer,

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

By: K. Parekh  
Signature

Kashyap Parekh  
Print

Title: Water Resources Manager I  
Print

FOR USE INTERNAL USE

Application for Permit, Form WR-07

File No.: C-4604Trn No.: 722106

Page 3 of 3

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

**SPECIFIC CONDITIONS OF APPROVAL**

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

Trn Desc: C 04604 POD1

File Number: C 04604

Trn Number: 722106

page: 1



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

**SPECIFIC CONDITIONS OF APPROVAL (Continued)**

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

Trn Desc: C 04604 POD1

File Number: C 04604

Trn Number: 722106

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

**SPECIFIC CONDITIONS OF APPROVAL (Continued)**

LOG      The Point of Diversion C 04604 POD1 must be completed and the Well Log filed on or before 03/24/2023.

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

**ACTION OF STATE ENGINEER**

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 03/21/2022	Pub. of Notice Ordered:
Date Returned - Correction:	Affidavit of Pub. Filed:

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

Witness my hand and seal this 24 day of Mar A.D., 2022

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

By:

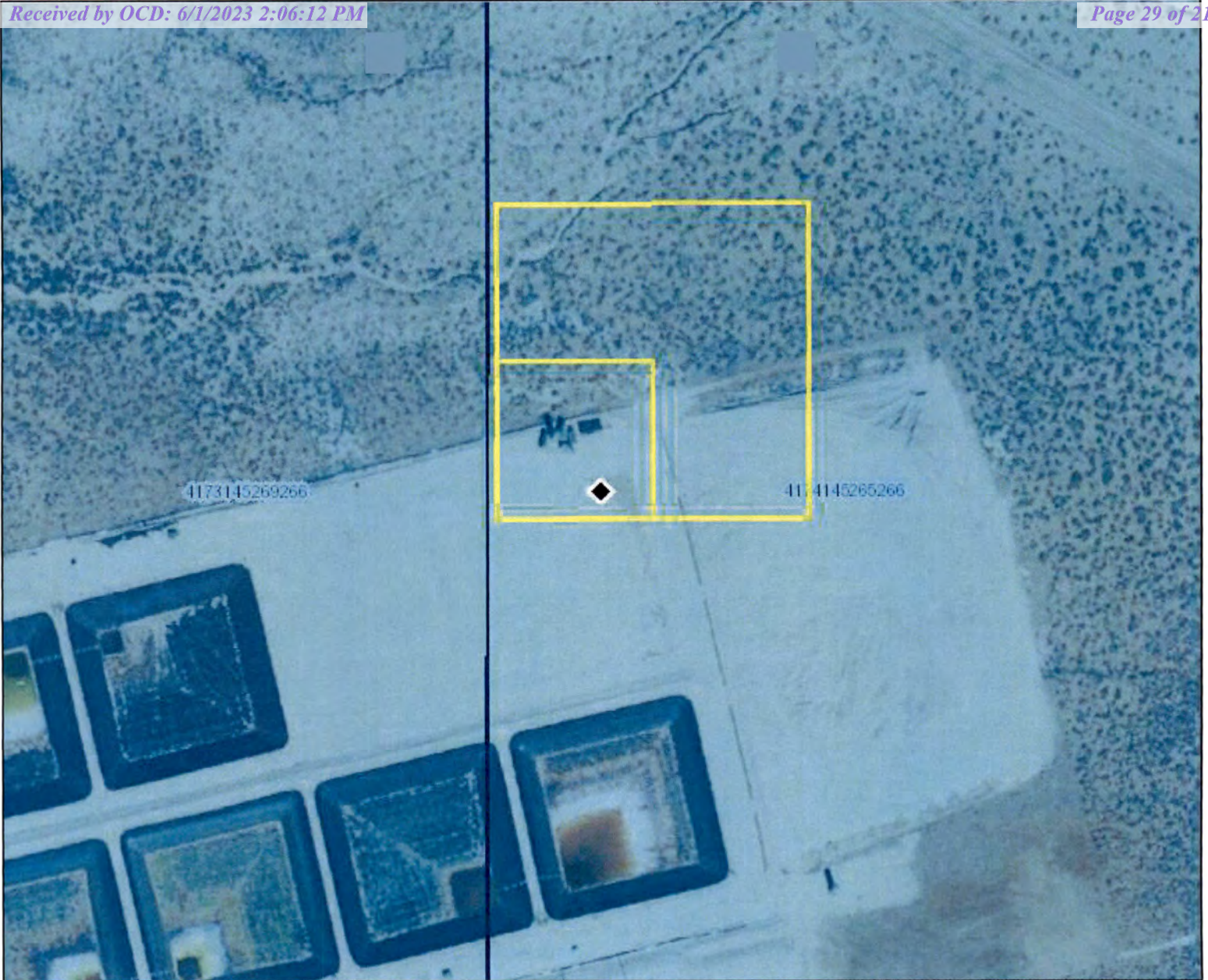
K. Parekh  
KASHYAP PAREKH

Trn Desc: C 04604 POD1

File Number: C 04604  
Trn Number: 722106

page: 3





# NEW MEXICO OFFICE OF THE STATE ENGINEER

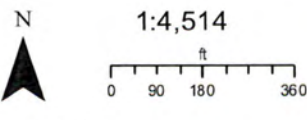


Image Info  
Source: Maxar  
Date: 12/4/2020  
Resolution (m): 0.5  
Accuracy (m): 5

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

Easting 599402.194  
Northing 3558388.167

## State Plane - NAD 83 (f) - Zone E

Easting 661248.228  
Northing 421275.244

## Degrees Minutes Seconds

Latitude 32 : 9 : 27.273600  
Longitude -103 : 56 : 45.081600

Location pulled from Coordinate Search

**Spatial Information**  
OSE Administrative Area: Eddy  
County: Eddy  
Groundwater Basin: Carlsbad  
Abstract Area: Carlsbad 72-12-1  
Carlsbad Underground Basin  
Sub-Basin: Upper Pecos-Black

**Land Grant: Not in Land Grant  
Restrictions:**

NA

## PLSS Description

SWNWNWSW Qtr of Sec 01 of 025S 029E

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

## POD Information

Owner:

File Number:

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose:

Calculated PLSS	● Catron County Parcels 2021	□ Dona Ana County Parcels 2021	□ Lea County Parcels 2021	□ Otero County Parcels 2021	□ San Juan County Parcels 2021
◆ Coord Search Location	□ Chaves County Parcels 2021	□ Eddy County Parcels 2021	□ Lincoln County Parcels 2021	● Quay County Parcels 2021	□ San Miguel County Parcels 2021
— OSE District Boundary	□ Cibola County Parcels 2021	□ Grant County Parcels 2021	□ Los Alamos County Parcels 2021	□ Rio Arriba County Parcels 2021	□ Santa Fe County Parcels 2021
<b>New Mexico State Trust Lands</b>	□ Colfax County Parcels 2021	□ Harding County Parcels 2021	□ Luna County Parcels 2021	□ Roosevelt County Parcels 2021	□ Sierra County Parcels 2021
— Both Estates	□ Curry County Parcels 2021	□ Hidalgo County Parcels 2021	□ McKinley County Parcels 2021	□ Sandoval County Parcels 2021	
— Bernalillo County Parcels 2021	● De Baca County Parcels 2021	● Guadalupe County Parcels 2021	● Mora County Parcels 2021		

3/21/20

This source data was provided to the New Mexico Department of Environment & Natural Resources by the U.S. Geological Survey. It is not a warranty, endorsement, or approval of the quality, accuracy, or reliability of the data. The user assumes all liability for any errors or omissions in the data. The user also assumes all liability for any damages, including consequential damages, resulting from the use of the data. The user agrees to indemnify and hold the New Mexico Department of Environment & Natural Resources harmless from and against all claims, damages, and expenses, including reasonable attorneys' fees, arising from the use of the data.



Mike A. Hamman, P.E.  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

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

Trn Nbr: 722106  
File Nbr: C 04604

Mar. 24, 2022

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

Greetings:

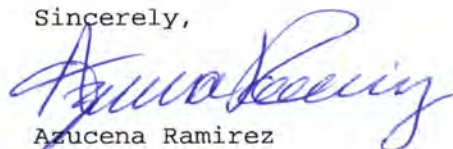
Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during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

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

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

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

Sincerely,

  
Azucena Ramirez  
(575) 622-6521

Enclosure

explore

Mike A. Hamman, P.E.  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

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

Trn Nbr: 722106  
File Nbr: C 04604

Mar. 24, 2022

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

Greetings:

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- \* 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.
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- \* This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

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

Sincerely,

A handwritten signature in blue ink, appearing to read "Azucena Ramirez".

Azucena Ramirez  
(575) 622-6521

Enclosure

explore

Mike A. Hamman, P.E.  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

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

Trn Nbr: 722106  
File Nbr: C 04604

Mar. 24, 2022

MR. BEAUX JENNINGS  
ENSOLUM LLC  
705 W WADLEY AVE STE 240  
MIDLAND, TX 79705

Greetings:

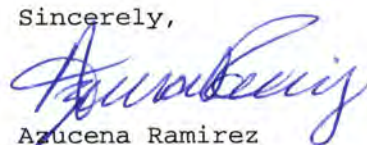
Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during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

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

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

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

Sincerely,

  
Azucena Ramirez  
(575) 622-6521

Enclosure

explore



Mike A. Hamman, P.E.  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

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

Trn Nbr: 722106  
File Nbr: C 04604  
Well File Nbr: C 04604 POD1

May. 04, 2022

MR. BEAUX JENNINGS  
ENSOLUM LLC  
705 W WADLEY AVE STE 240  
MIDLAND, TX 79705

Greetings:

The above numbered permit was issued in your name on 03/24/2022.

The Well Record was received in this office on 05/04/2022, stating that it had been completed on 04/19/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 03/24/2023.

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

Sincerely,

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

Maret Amaral  
(575) 622-6521

drywell



STATE OF NEW MEXICO  
OFFICE OF THE STATE ENGINEER  
ROSWELL

Mike A. Hamman, P.E.  
State Engineer

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

March 22, 2022

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

RE: Well Plugging Plan of Operations for C-4604-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced project. 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.

- (1) Plugging operations shall also be conducted in accordance with NMED, NMOCD, or other State or Federal agencies having oversight for the above described project.*
- (2) Type I/II Neat Cement - No more than 6.0 gallons water per 94-lb sack*
- (3) Any deviation from this plan must obtain an approved variance from this office prior to implementation.*

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,

A handwritten signature in black ink that reads "K. Parekh".

Kashyap Parekh  
Water Resources Manager I



# WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

**Alert!** Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology [geoinfo.nmt.edu/resources/water/cgmn/](http://geoinfo.nmt.edu/resources/water/cgmn/) if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email [nmbg-waterlevels@nmt.edu](mailto:nmbg-waterlevels@nmt.edu), prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

**I. FILING FEE:** There is no filing fee for this form.

**II. GENERAL / WELL OWNERSHIP:** ☐ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: POD1 (SB-1) C-4604-POD1

Name of well owner: Oxy USA Inc.

Mailing address: PO Box 4294

County: Harris

City: Houston

State: TX

Zip code: 77210

Phone number: 575-390-2828

E-mail: wade\_dittrich@oxy.com

## III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: West Texas Water Well Service

New Mexico Well Driller License No.: WD-1184

Expiration Date: October 31, 2023

**IV. WELL INFORMATION:** ☐ Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32 deg, 9 min, 27.273 sec  
Longitude: -103 deg, 56 min, 45.0816 sec, NAD 83

2) Reason(s) for plugging well(s):

Investigation soil boring to determine groundwater level.

3) Was well used for any type of monitoring program? N/A If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? N/A If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: unknown feet below land surface / feet above land surface (circle one)

6) Depth of the well: 110 feet



- 7) Inside diameter of innermost casing: N/A inches.
- 8) Casing material: N/A
- 9) 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): \_\_\_\_\_
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? N/A
- 11) Was the well built with surface casing? No If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? N/A If yes, please describe:
- 12) Has all pumping equipment and associated piping been removed from the well? N/A If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

**V. DESCRIPTION OF PLANNED WELL PLUGGING:** ☐ If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

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.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:  

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.
- 3) Theoretical volume of grout required to plug the well to land surface: 100
- 4) Type of Cement proposed: Type I/II Neat Cement
- 5) Proposed cement grout mix: <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



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

N/A

- 8) Additional notes and calculations:

N/A

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

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

USE OUT MAR 21 2022 PM 11:36

**VIII. SIGNATURE:**

I, Beaux Jennings, say that I have carefully read the foregoing Well Plugging Plan of 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.

*Wade Dittus*

3/16/2022

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 letter.

Witness my hand and official seal this 22<sup>nd</sup> day of March, 2022

Mike A. Hamman  
 John R. D'Antonio Jr., P.E., New Mexico State Engineer

By: K. Parekh  
KASHYAP PAREKH  
W.R.M.I.



WD-08 Well Plugging Plan  
 Version: July 31, 2019  
 Page 3 of 5

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

	<b>Interval 1 – deepest</b>	<b>Interval 2</b>	<b>Interval 3 – most shallow</b>
			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	N/A	On-site
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

USE DTI MAR 21 2022 AM 11:36



# National Flood Hazard Layer FIRMette



103°56'37"W 32°9'47"N



## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



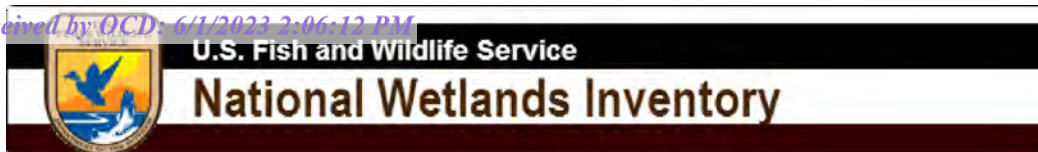
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/12/2023 at 2:42 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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





## Wetlands



January 12, 2023

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond





- Lake
- Other
- Riverine


This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



# Karst Potential

## Legend

-  32.158888, -103.938374
-  High
-  Low
-  Medium

 32.158888, -103.938374

Google Earth



2000 ft

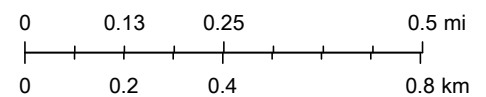


## Active Mines in New Mexico



1/12/2023, 1:28:38 PM

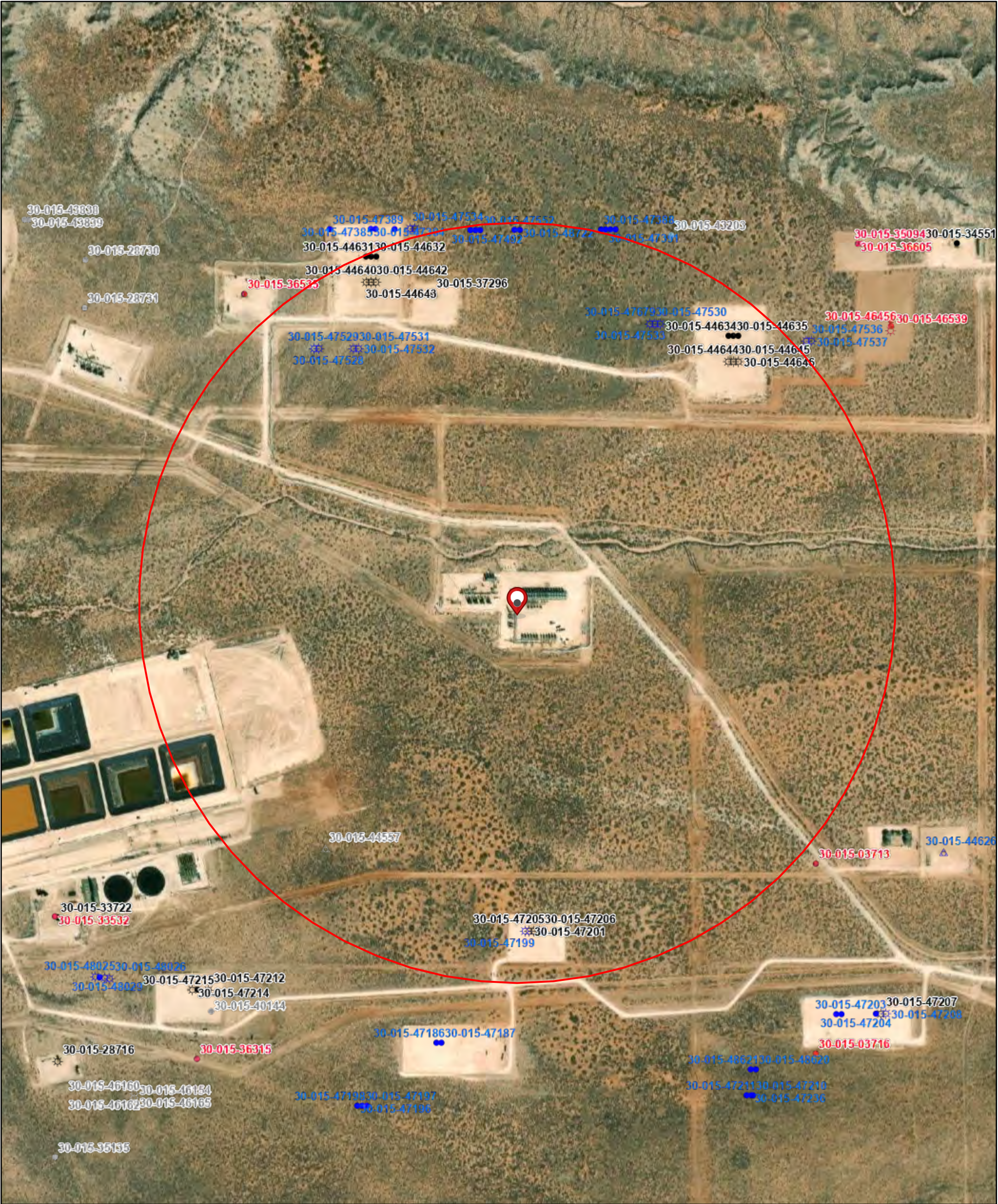
1:18,056

Land Ownership  PLSS Second Division BLM  PLSS First Division S  PLSS Townships

U.S. BLM, Maxar, BLM



# OCD Well Locations

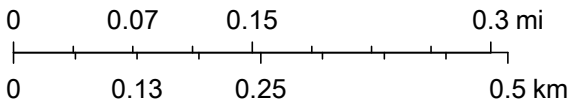


1/12/2023, 1:22:59 PM

Wells - Large Scale

- Oil, Cancelled
- Gas, Active
- Gas, Cancelled
- Gas, New
- Gas, Plugged
- Oil, Active
- Oil, New
- Oil, Plugged
- Salt Water Injection, Cancelled
- Salt Water Injection, New

1:9,028



Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Esri, HERE, Garmin, iPC, Maxar



# OSE POD Locations Map



1/12/2023, 1:59:51 PM

GIS WATERS PODs

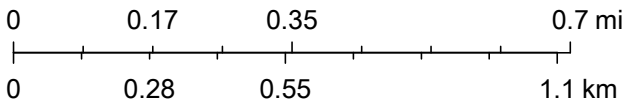
- Active
- Plugged

OSE District Boundary

New Mexico State Trust Lands

- Both Estates
- SiteBoundaries

1:18,056



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



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	NAB1903659101
District RP	2RP-5221
Facility ID	fAB1903657998
Application ID	pAB1903658089

## Release Notification

### Responsible Party

Responsible Party	OXY USA INC.	OGRID	16696
Contact Name	WADE DITTRICH	Contact Telephone	(575) 390-2828
Contact email	WADE_DITTRICH@OXY.COM	Incident # (assigned by OCD)	NAB1903659101
Contact mailing address	PO BOX 4294; HOUSTON, TX 77210		

### Location of Release Source

Latitude N 32.15888 Longitude W-103.93818  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	CORRAL CANYON 36-25 CTB	Site Type	BATTERY
Date Release Discovered	1/22/19	API# (if applicable)	

Unit Letter	Section	Township	Range	County
K	1	25S	29E	EDDY COUNTY, NM

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

\*\*STATE AB

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 100 BBLS	Volume Recovered (bbls) 80 BBLS
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

COMPROMISED SEAL ON CIRCULATING PUMP

Form C-141

State of New Mexico  
Oil Conservation Division

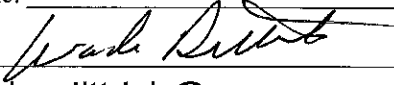

Page 2

Incident ID	NAB1903659101
District RP	2RP-5221
Facility ID	fAB1903657998
Application ID	pAB1903658089

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? <b>THE RELEASE IS GREATER THAN 25 BBLS.</b>
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? <b>YES BY WADE DITTRICH OF OXY TO MIKE BRATCHER AND ROBERT HAMLET OF NMOCD AND SHELLY TUCKER OF THE BLM VIA EMAIL ON 1/23-19 @ 10:11 AM</b>	

**Initial Response**

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:  	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Wade Ditrtrich</u> Signature: <u></u> email: <u>wade_ditrtrich@oxy.com</u>	Title: <u>Environmental Coordinator</u> Date: <u>1-29-19</u> Telephone: <u>(575) 390-2828</u>
<b>OCD Only</b> Received by: <u></u> Date: <u>2/05/2019</u>	



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805  
E-MAIL: cbrunson@bbcinternational.com

## DELINEATION/REMEDiation WORKPLAN

### OXY – CORRAL CANYON 36-25 CTB (Leak Date: 1/22/19)

**Incident ID: NAB1903659101**

This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NAB1903659101.

The following information includes:

1. Appropriate completed and signed C-141 pages.
2. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
3. GPS information for sample points and sample methodology.
4. Depth to groundwater information (i.e., pdf of OSE search results, USGS search results).
5. Watercourse/features map within 1000 feet.
6. BLM Cave Karst map.
7. FEMA National Flood map.
8. Laboratory analysis results summary table and original laboratory analysis reports.
9. Potentially other pertinent information as necessary for site specific purposes.

***Based on the information included in this package and the NMOCD rules, the following remediation is proposed:***

***OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP1 – SP3 (LIGHT BLUE shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP4 (PINK shade on diagram) will be excavated to a depth of 5 feet. The leak area near SP5 (YELLOW shade on diagram) will be excavated to a depth of 3 feet.***

***OXY requests to collect bottom and sidewall confirmation samples every 200 square feet. The estimated amount of soil to be excavated is 411 cubic yards. The remediation will be completed within 90 days of approval.***

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate agency or private surface owner.  
All excavated materials will be disposed of at an NMOCD-approved disposal facility.



Form C-141

State of New Mexico  
Oil Conservation Division

Page 3

Incident ID	NAB1903659101
District RP	
Facility ID	
Application ID	

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

What is the shallowest depth to groundwater beneath the area affected by the release?	264 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

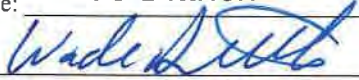
Form C-141

State of New Mexico  
Oil Conservation Division

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Incident ID	NAB1903659101
District RP	
Facility ID	
Application ID	

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

Printed Name: Wade DittrichTitle: Environmental CoordinatorSignature: Date: 5-19-21email: wade\_dittrich@oxy.comTelephone: (575) 390-2828**OCD Only**

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

Date: \_\_\_\_\_

Form C-141

State of New Mexico  
Oil Conservation Division

Page 5

Incident ID	NAB1903659101
District RP	
Facility ID	
Application ID	

## Remediation Plan


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

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** Each of the following items must be confirmed as part of any request for deferral of remediation.

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Wade Dittrich Title: Environmental CoordinatorSignature:  Date: 5-19-21email: wade\_dittrich@oxy.com Telephone: (575) 390-2828**OCD Only**

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

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved


Signature: \_\_\_\_\_ Date: \_\_\_\_\_





# Oxy Corral Canyon 36-25 CTB


Leak Date: 1-22-19  
Eddy County, NM  
Incident ID: NAB1903659101


Legend

 3' EXCAVATION

 3' EXCAVATION - B

 5' EXCAVATION

 Leak area

 SAMPLE POINT







SAMPLE POINTS – CORRAL CANYON 36-25 CTB(1-22-19)

SP1 N 32.158984° W-103.938412°

SP2 N 32.158894° W-103.938373°

SP3 N 32.158889° W-103.938198°

SP4 N 32.158904° W-103.938041°

SP5 N 32.158907° W-103.937873°

SP N N 32.158960° W-103.938199°

SP E N 32.158909° W-103.937789°

SP W N 32.158938° W-103.938475°

SP S N 32.158846° W-103.938186°



Laboratory Analytical Results Summary  
Oxy, CORRAL CANYON 36-25( 1-22-19)

		Sample ID	SP N @ SURFACE	SP E @ SURFACE	SP W @ SURFACE	SP S @ SURFACE
Analyte	Method	Date	4/29/21	4/30/21	5/1/21	5/2/21
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		64.0	96.0	192.0	256.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'
Analyte	Method	Date	4/29/21	4/30/21	5/1/21	5/2/21	5/3/21	5/4/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.059	<0.050	<0.050	<0.050	N/A	N/A
Toluene	BTEX 8021B		1.59	0.124	0.064	<0.050	N/A	N/A
Ethylbenzene	BTEX 8021B		0.931	<0.050	1.24	<0.050	N/A	N/A
Total Xylenes	BTEX 8021B		8.8	4.11	0.202	<0.150	N/A	N/A
Total BTEX	BTEX 8021B		11.4	4.23	1.51	<16.0	N/A	N/A
Chloride	SM4500Cl-B		16.0	<16.0	<16.0	403.0	32.0	32.0
GRO	TPH 8015M		264	107	32.9	<10.0	N/A	N/A
DRO	TPH 8015M		30100	1580	1740	81.2	N/A	N/A
EXT DRO	TPH 8015M		5370	204	232	<10.0	N/A	N/A

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'
Analyte	Method	Date	4/29/21	4/30/21	5/1/21	5/2/21	5/3/21	5/4/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	N/A	N/A
Toluene	BTEX 8021B		0.405	1.19	0.6	<0.050	N/A	N/A
Ethylbenzene	BTEX 8021B		0.319	<0.050	<0.050	<0.050	N/A	N/A
Total Xylenes	BTEX 8021B		2.71	16.2	9.33	<0.150	N/A	N/A
Total BTEX	BTEX 8021B		3.43	17.4	9.93	<0.300	N/A	N/A
Chloride	SM4500Cl-B		16.0	32.0	96.0	16.0	32.0	48.0
GRO	TPH 8015M		108	529	353	<10.0	N/A	N/A
DRO	TPH 8015M		38300	3160	2990	69.5	N/A	N/A
EXT DRO	TPH 8015M		7560	311	313	<10.0	N/A	N/A

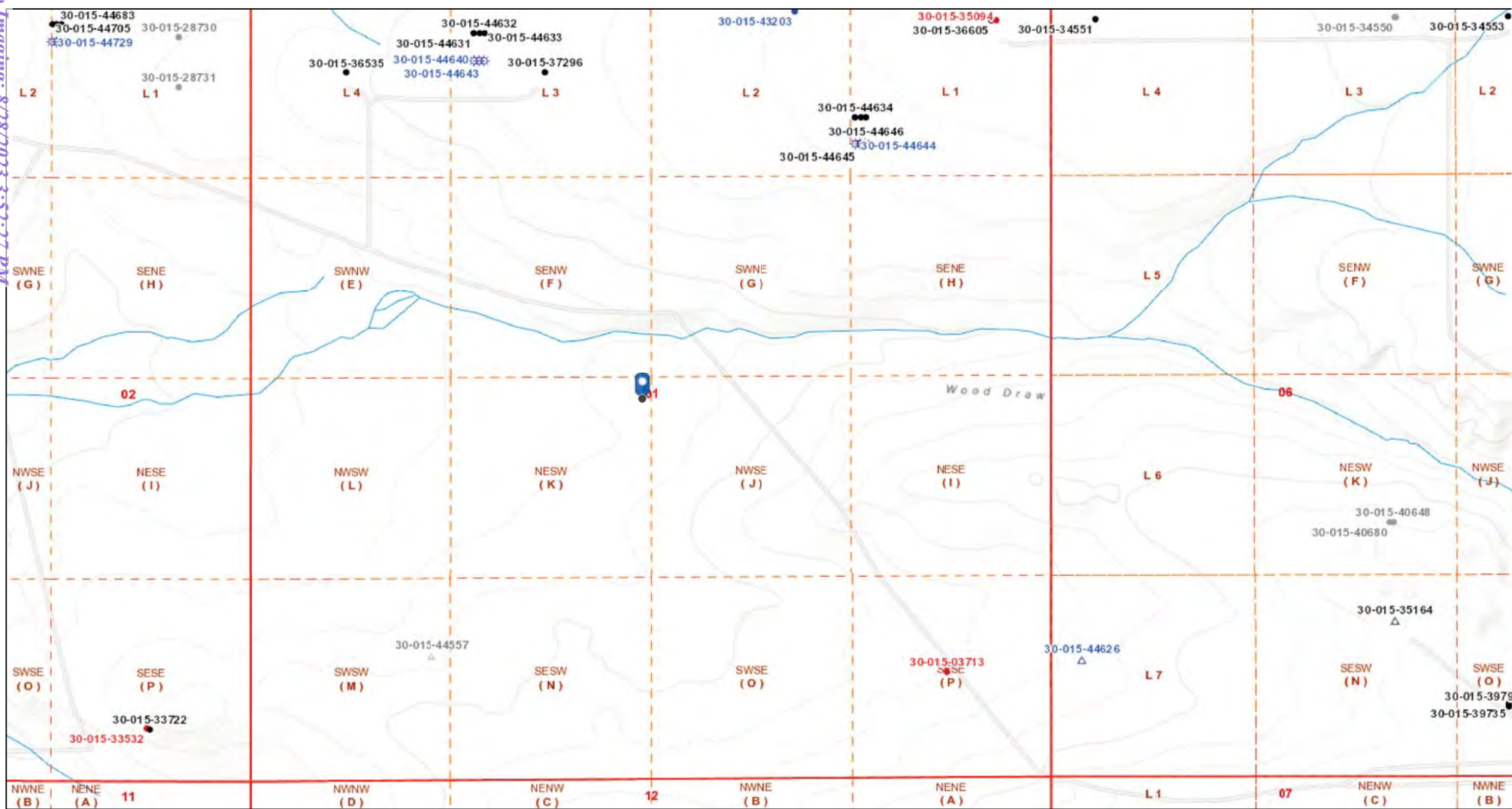
		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'	SP3 @ 6'
Analyte	Method	Date	4/30/21	4/30/21	4/30/21	4/30/21	4/30/21	4/30/21	4/30/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.238	0.701	0.283	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.167	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		1.48	12.6	6.23	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		1.88	13.3	6.51	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32.0	32.0	16.0	32.0	32.0	32.0	16.0
GRO	TPH 8015M		59.7	643	268	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		40100	5730	3170	85.5	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		8340	638	359	<10.0	<10.0	<10.0	<10.0

Laboratory Analytical Results Summary  
Oxy, CORRAL CANYON 36-25( 1-22-19)

		Sample ID	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'	SP4 @ 5'	SP4 @ 6'
Analyte	Method	Date	4/30/21	4/30/21	4/30/21	4/30/21	4/30/21	4/30/21	4/30/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<b>0.34</b>	<b>0.32</b>	<b>0.187</b>	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<b>0.069</b>	<b>3.22</b>	<0.050	<b>2.82</b>	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<b>1.12</b>	<b>5.99</b>	<b>1.35</b>	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<b>4.68</b>	<b>6.31</b>	<b>4.36</b>	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<b>32.0</b>	<b>16.0</b>	<16.0	<16.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<b>139</b>	<b>337</b>	<b>198</b>	<b>12.8</b>	<10.0	<10.0
DRO	TPH 8015M		<b>12700</b>	<b>2950</b>	<b>6080</b>	<b>5160</b>	<b>863</b>	<10.0	<10.0
EXT DRO	TPH 8015M		<b>3090</b>	<b>542</b>	<b>1040</b>	<b>907</b>	<b>164</b>	<10.0	<10.0

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'	SP5 @ 5'
Analyte	Method	Date	4/30/21	4/30/21	4/30/21	4/30/21	4/30/21	4/30/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<b>0.054</b>	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<b>0.076</b>	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<b>0.926</b>	<b>0.341</b>	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<b>1.06</b>	<b>0.341</b>	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		< <b>16.0</b>	<b>64.0</b>	<b>80.0</b>	<b>48.0</b>	<b>16.0</b>	<b>16.0</b>
GRO	TPH 8015M		<b>87.2</b>	<b>22.1</b>	<b>11.1</b>	<10.0	<10.0	<10.0
DRO	TPH 8015M		<b>13200</b>	<b>921</b>	<b>522</b>	<b>59.3</b>	<10.0	<10.0
EXT DRO	TPH 8015M		<b>4570</b>	<b>198</b>	<b>114</b>	<b>10.7</b>	<10.0	<10.0

# Corral Canyon 36-25 CTB, Topo Map with Water Features



1/29/2019 12:45:25 PM

- Well Locations - Small Scale**
- Active
  - New
  - Plugged
  - Cancelled
  - Temporarily Abandoned

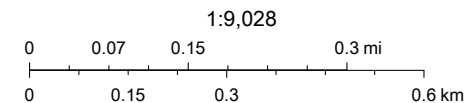
- Well Locations - Large Scale**
- Miscellaneous
  - CO2 Active
  - CO2 Cancelled
  - CO2 New
  - CO2 Plugged
  - CO2 Temporarily Abandoned

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

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

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

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



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





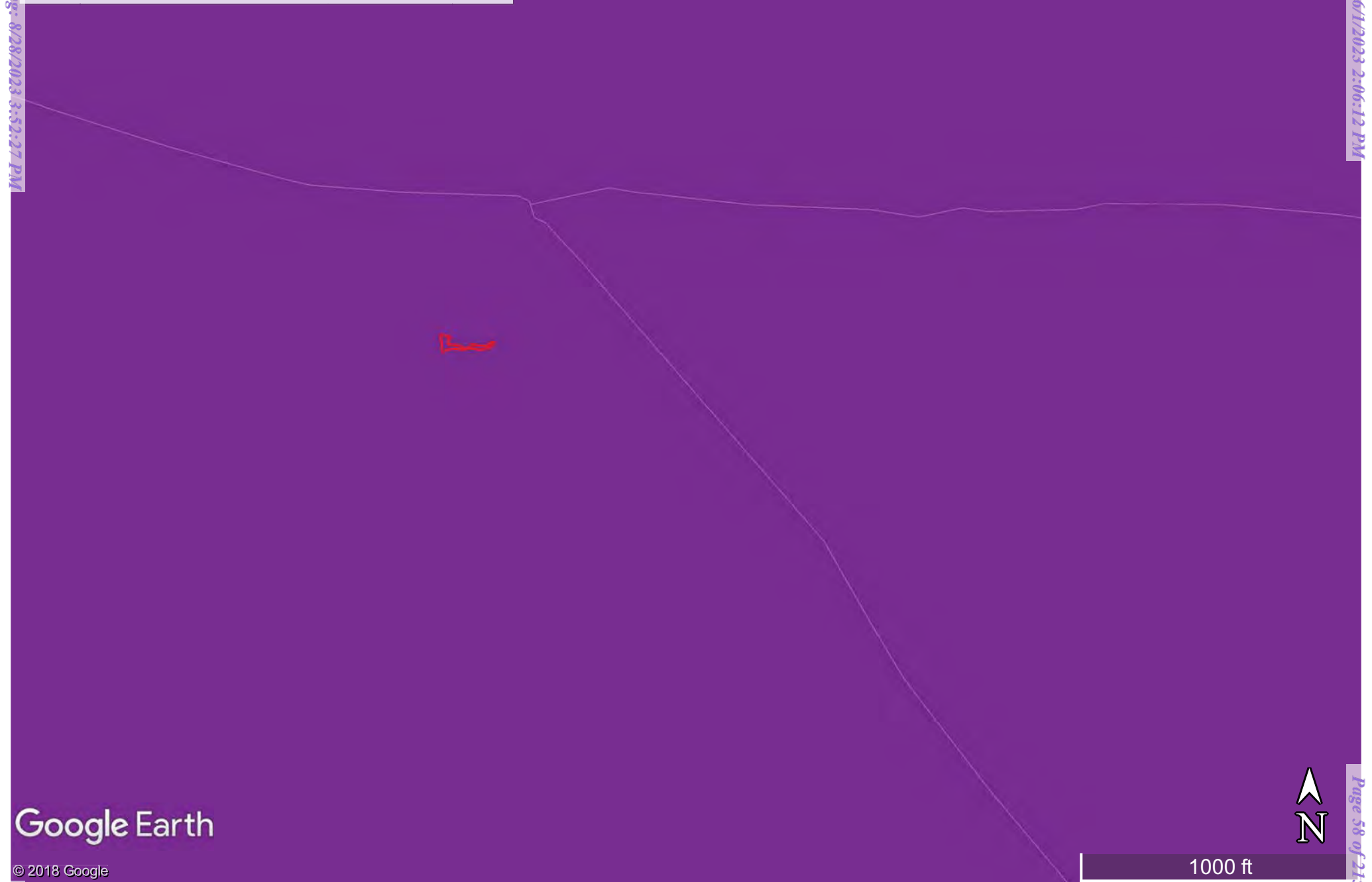
# Oxy, Corral Canyon 36-25 CTB

Leak date: 1/22/19  
Eddy County, NM  
2RP-5221

## BLM CAVE KARST MAP

### Legend

-  Leak area
-  Low potential



# National Flood Hazard Layer FIRMette



### Legend

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

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

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/22/2019 at 12:33:50 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

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MASC 9305009

Received by OCD: 6/7/2023 2:06:12 PM

Page 59 of 215



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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

New Mexico

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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 320857103553301

Minimum number of levels = 1  
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USGS 320857103553301 25S.30E.07.112331

Eddy County, New Mexico  
Latitude 32°08'57", Longitude 103°55'33" NAD27  
Land-surface elevation 3,169 feet above NAVD88  
The depth of the well is 385 feet below land surface.  
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1959-02-05		D	263.63				2		U	
1959-03-07		D	263.30				2		U	
1987-10-20		D	264.25				2		U	
1992-11-06		D	263				0		S	
1998-01-28		D	264.12				2		V	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	0	Water level accuracy to nearest foot
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Method of measurement	V	Calibrated electric-tape measurement.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.



Section	Code	Description
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**Title: Groundwater for New Mexico: Water Levels**  
**URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**



Page Contact Information: [New Mexico Water Data Maintainer](#)  
Page Last Modified: 2019-07-22 12:22:35 EDT  
0.48   0.45 nadww02



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

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May 12, 2021

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CORRAL CANYON 36-25 CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/03/21 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

Method EPA 552.2	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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP N @ SURFACE	H211125-01	Soil	29-Apr-21 10:05	03-May-21 16:30
SP E @ SURFACE	H211125-02	Soil	29-Apr-21 10:16	03-May-21 16:30
SP W @ SURFACE	H211125-03	Soil	29-Apr-21 10:33	03-May-21 16:30
SP S @ SURFACE	H211125-04	Soil	29-Apr-21 10:47	03-May-21 16:30
SP 1 @ SURFACE	H211125-05	Soil	29-Apr-21 11:12	03-May-21 16:30
SP 1 @ 1'	H211125-06	Soil	29-Apr-21 11:21	03-May-21 16:30
SP 1 @ 2'	H211125-07	Soil	29-Apr-21 11:33	03-May-21 16:30
SP 1 @ 3'	H211125-08	Soil	29-Apr-21 11:47	03-May-21 16:30
SP 1 @ 4'	H211125-09	Soil	29-Apr-21 12:07	03-May-21 16:30
SP 1 @ 5'	H211125-10	Soil	29-Apr-21 12:45	03-May-21 16:30
SP 2 @ SURFACE	H211125-11	Soil	29-Apr-21 12:54	03-May-21 16:30
SP 2 @ 1'	H211125-12	Soil	29-Apr-21 13:09	03-May-21 16:30
SP 2 @ 2'	H211125-13	Soil	29-Apr-21 13:18	03-May-21 16:30
SP 2 @ 3'	H211125-14	Soil	29-Apr-21 13:30	03-May-21 16:30
SP 2 @ 4'	H211125-15	Soil	29-Apr-21 13:44	03-May-21 16:30
SP 2 @ 5'	H211125-16	Soil	29-Apr-21 13:53	03-May-21 16:30
SP 3 @ SURFACE	H211125-17	Soil	30-Apr-21 09:45	03-May-21 16:30
SP 3 @ 1'	H211125-18	Soil	30-Apr-21 09:57	03-May-21 16:30
SP 3 @ 2'	H211125-19	Soil	30-Apr-21 10:14	03-May-21 16:30
SP 3 @ 3'	H211125-20	Soil	30-Apr-21 10:26	03-May-21 16:30
SP 3 @ 4'	H211125-21	Soil	30-Apr-21 10:47	03-May-21 16:30
SP 3 @ 5'	H211125-22	Soil	30-Apr-21 11:08	03-May-21 16:30
SP 3 @ 6'	H211125-23	Soil	30-Apr-21 11:19	03-May-21 16:30
SP 4 @ SURFACE	H211125-24	Soil	30-Apr-21 11:30	03-May-21 16:30
SP 4 @ 1'	H211125-25	Soil	30-Apr-21 11:38	03-May-21 16:30
SP 4 @ 2'	H211125-26	Soil	30-Apr-21 11:51	03-May-21 16:30
SP 4 @ 3'	H211125-27	Soil	30-Apr-21 12:46	03-May-21 16:30

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

SP 4 @ 4'	H211125-28	Soil	30-Apr-21 12:54	03-May-21 16:30
SP 4 @ 5'	H211125-29	Soil	30-Apr-21 13:04	03-May-21 16:30
SP 4 @ 6'	H211125-30	Soil	30-Apr-21 13:15	03-May-21 16:30
SP 5 @ SURFACE	H211125-31	Soil	30-Apr-21 13:23	03-May-21 16:30
SP 5 @ 1'	H211125-32	Soil	30-Apr-21 13:30	03-May-21 16:30
SP 5 @ 2'	H211125-33	Soil	30-Apr-21 13:41	03-May-21 16:30
SP 5 @ 3'	H211125-34	Soil	30-Apr-21 13:50	03-May-21 16:30
SP 5 @ 4'	H211125-35	Soil	30-Apr-21 14:03	03-May-21 16:30
SP 5 @ 5'	H211125-36	Soil	30-Apr-21 14:14	03-May-21 16:30

05/12/21 - Client added BTEX and TPH to samples -29 and -30. This is the revised report and will replace the one sent on 05/06/21.

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP N @ SURFACE**  
**H211125-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

**Cardinal Laboratories****Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	1050506	GM	05-May-21	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1050401	MS	04-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1050401	MS	04-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140 1050401 MS 04-May-21 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	1050403	MS	04-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1050403	MS	04-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1050403	MS	04-May-21	8015B	

Surrogate: 1-Chlorooctane 84.6 % 44.3-133 1050403 MS 04-May-21 8015B

Surrogate: 1-Chlorooctadecane 90.2 % 38.9-142 1050403 MS 04-May-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP E @ SURFACE****H211125-02 (Soil)**

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

Chloride	96.0		16.0	mg/kg	4	1050506	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1050401	MS	04-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1050401	MS	04-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 69.9-140 1050401 MS 04-May-21 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	1050403	MS	04-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1050403	MS	04-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1050403	MS	04-May-21	8015B	

Surrogate: 1-Chlorooctane 82.7 % 44.3-133 1050403 MS 04-May-21 8015B

Surrogate: 1-Chlorooctadecane 88.6 % 38.9-142 1050403 MS 04-May-21 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP W @ SURFACE****H211125-03 (Soil)**

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

<b>Chloride</b>	<b>192</b>		16.0	mg/kg	4	1050506	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1050401	MS	04-May-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1050401	MS	04-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	96.4 %	69.9-140	1050401	MS	04-May-21	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	1050403	MS	04-May-21	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1050403	MS	04-May-21	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1050403	MS	04-May-21	8015B

Surrogate: 1-Chlorooctane	85.2 %	44.3-133	1050403	MS	04-May-21	8015B
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Surrogate: 1-Chlorooctadecane	90.8 %	38.9-142	1050403	MS	04-May-21	8015B
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP S @ SURFACE****H211125-04 (Soil)**

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

Chloride	256		16.0	mg/kg	4	1050506	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1050401	MS	04-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1050401	MS	04-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.8 %		69.9-140	1050401	MS	04-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	1050403	MS	04-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1050403	MS	04-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1050403	MS	04-May-21	8015B	

Surrogate: 1-Chlorooctane			89.0 %		44.3-133	1050403	MS	04-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			94.4 %		38.9-142	1050403	MS	04-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 1 @ SURFACE****H211125-05 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	1050506	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	0.059		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Toluene*	1.59		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Ethylbenzene*	0.931		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Total Xylenes*	8.80		0.150	mg/kg	50	1050401	MS	04-May-21	8021B	
Total BTEX	11.4		0.300	mg/kg	50	1050401	MS	04-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	169 %		69.9-140			1050401	MS	04-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID****S-06**

GRO C6-C10*	264		50.0	mg/kg	5	1050405	MS	05-May-21	8015B	
DRO >C10-C28*	30100		50.0	mg/kg	5	1050405	MS	05-May-21	8015B	
EXT DRO >C28-C36	5370		50.0	mg/kg	5	1050405	MS	05-May-21	8015B	

Surrogate: 1-Chlorooctane	175 %		44.3-133			1050405	MS	05-May-21	8015B	
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Surrogate: 1-Chlorooctadecane	1660 %		38.9-142			1050405	MS	05-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 1 @ 1'**  
**H211125-06 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	1050506	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Toluene*	<b>0.124</b>		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	GC-NC1
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	GC-NC1
Total Xylenes*	<b>4.11</b>		0.150	mg/kg	50	1050401	MS	04-May-21	8021B	GC-NC1
Total BTEX	<b>4.23</b>		0.300	mg/kg	50	1050401	MS	04-May-21	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID)			323 %	69.9-140		1050401	MS	04-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID****S-04**

GRO C6-C10*	<b>107</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
DRO >C10-C28*	<b>1580</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
EXT DRO >C28-C36	<b>204</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	

Surrogate: 1-Chlorooctane			112 %	44.3-133		1050405	MS	05-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			150 %	38.9-142		1050405	MS	05-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 1 @ 2'**  
**H211125-07 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	1050506	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Toluene*	<b>0.064</b>		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	GC-NC1
Ethylbenzene*	<b>1.24</b>		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	GC-NC1
Total Xylenes*	<b>0.202</b>		0.150	mg/kg	50	1050401	MS	04-May-21	8021B	GC-NC1
Total BTEX	<b>1.51</b>		0.300	mg/kg	50	1050401	MS	04-May-21	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID)			264 %	69.9-140		1050401	MS	04-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID****S-04**

GRO C6-C10*	<b>32.9</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
DRO >C10-C28*	<b>1740</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
EXT DRO >C28-C36	<b>232</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	

Surrogate: 1-Chlorooctane			84.9 %	44.3-133		1050405	MS	05-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			146 %	38.9-142		1050405	MS	05-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 1 @ 3'**  
**H211125-08 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	1050506	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1050401	MS	04-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1050401	MS	04-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.7 %		69.9-140	1050401	MS	04-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
DRO >C10-C28*	81.2		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	

Surrogate: 1-Chlorooctane			96.8 %		44.3-133	1050405	MS	05-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			107 %		38.9-142	1050405	MS	05-May-21	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397Reported:  
12-May-21 10:32**SP 1 @ 4'**  
**H211125-09 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	1050506	GM	05-May-21	4500-Cl-B	
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**Analytical Results For:**BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397Reported:  
12-May-21 10:32**SP 1 @ 5'**  
**H211125-10 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	1050506	GM	05-May-21	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 2 @ SURFACE****H211125-11 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	1050506	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Toluene*	0.405		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Ethylbenzene*	0.319		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Total Xylenes*	2.71		0.150	mg/kg	50	1050401	MS	04-May-21	8021B	
Total BTEX	3.43		0.300	mg/kg	50	1050401	MS	04-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 120 % 69.9-140 1050401 MS 04-May-21 8021B

**Petroleum Hydrocarbons by GC FID****S-06**

GRO C6-C10*	108		50.0	mg/kg	5	1050405	MS	05-May-21	8015B	
DRO >C10-C28*	38300		50.0	mg/kg	5	1050405	MS	05-May-21	8015B	
EXT DRO >C28-C36	7560		50.0	mg/kg	5	1050405	MS	05-May-21	8015B	

Surrogate: 1-Chlorooctane 133 % 44.3-133 1050405 MS 05-May-21 8015B

Surrogate: 1-Chlorooctadecane 2440 % 38.9-142 1050405 MS 05-May-21 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 2 @ 1'**  
**H211125-12 (Soil)**

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

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	
Toluene*	<b>1.19</b>		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	GC-NC1
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050401	MS	04-May-21	8021B	GC-NC1
<b>Total Xylenes*</b>	<b>16.2</b>		0.150	mg/kg	50	1050401	MS	04-May-21	8021B	GC-NC1
<b>Total BTEX</b>	<b>17.4</b>		0.300	mg/kg	50	1050401	MS	04-May-21	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 333 % 69.9-140 1050401 MS 04-May-21 8021B

**Petroleum Hydrocarbons by GC FID****S-04**

<b>GRO C6-C10*</b>	<b>529</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
<b>DRO &gt;C10-C28*</b>	<b>3160</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>311</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	

Surrogate: 1-Chlorooctane 179 % 44.3-133 1050405 MS 05-May-21 8015B

Surrogate: 1-Chlorooctadecane 206 % 38.9-142 1050405 MS 05-May-21 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 2 @ 2'**  
**H211125-13 (Soil)**

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

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	1050402	MS	05-May-21	8021B	
Toluene*	<b>0.600</b>		0.050	mg/kg	50	1050402	MS	05-May-21	8021B	GC-NC1
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050402	MS	05-May-21	8021B	GC-NC1, QM-07
<b>Total Xylenes*</b>	<b>9.33</b>		0.150	mg/kg	50	1050402	MS	05-May-21	8021B	GC-NC1, QM-07
<b>Total BTEX</b>	<b>9.93</b>		0.300	mg/kg	50	1050402	MS	05-May-21	8021B	GC-NC1
Surrogate: 4-Bromofluorobenzene (PID)			281 %	69.9-140		1050402	MS	05-May-21	8021B	

**Petroleum Hydrocarbons by GC FID****S-04**

<b>GRO C6-C10*</b>	<b>353</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
<b>DRO &gt;C10-C28*</b>	<b>2990</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>313</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
Surrogate: 1-Chlorooctane			170 %	44.3-133		1050405	MS	05-May-21	8015B	
Surrogate: 1-Chlorooctadecane			208 %	38.9-142		1050405	MS	05-May-21	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 2 @ 3'**  
**H211125-14 (Soil)**

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

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1050402	MS	04-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1050402	MS	04-May-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.2 %		69.9-140	1050402	MS	04-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
<b>DRO &gt;C10-C28*</b>	<b>69.5</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			99.2 %		44.3-133	1050405	MS	05-May-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			109 %		38.9-142	1050405	MS	05-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 2 @ 4'**  
**H211125-15 (Soil)**

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

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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**Analytical Results For:**BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397Reported:  
12-May-21 10:32**SP 2 @ 5'**  
**H211125-16 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 3 @ SURFACE****H211125-17 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1050402	MS	05-May-21	8021B	
Toluene*	0.238		0.050	mg/kg	50	1050402	MS	05-May-21	8021B	
Ethylbenzene*	0.167		0.050	mg/kg	50	1050402	MS	05-May-21	8021B	
Total Xylenes*	1.48		0.150	mg/kg	50	1050402	MS	05-May-21	8021B	
Total BTEX	1.88		0.300	mg/kg	50	1050402	MS	05-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140 1050402 MS 05-May-21 8021B

**Petroleum Hydrocarbons by GC FID****S-06**

GRO C6-C10*	59.7		50.0	mg/kg	5	1050405	MS	05-May-21	8015B	
DRO >C10-C28*	40100		50.0	mg/kg	5	1050405	MS	05-May-21	8015B	
EXT DRO >C28-C36	8340		50.0	mg/kg	5	1050405	MS	05-May-21	8015B	

Surrogate: 1-Chlorooctane 119 % 44.3-133 1050405 MS 05-May-21 8015B

Surrogate: 1-Chlorooctadecane 2650 % 38.9-142 1050405 MS 05-May-21 8015B

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 3 @ 1'**  
**H211125-18 (Soil)**

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

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	1050402	MS	05-May-21	8021B	
Toluene*	<b>0.701</b>		0.050	mg/kg	50	1050402	MS	05-May-21	8021B	GC-NC1
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050402	MS	05-May-21	8021B	GC-NC1
<b>Total Xylenes*</b>	<b>12.6</b>		0.150	mg/kg	50	1050402	MS	05-May-21	8021B	GC-NC1
<b>Total BTEX</b>	<b>13.3</b>		0.300	mg/kg	50	1050402	MS	05-May-21	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 366 % 69.9-140 1050402 MS 05-May-21 8021B

**Petroleum Hydrocarbons by GC FID****S-04**

<b>GRO C6-C10*</b>	<b>643</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
<b>DRO &gt;C10-C28*</b>	<b>5730</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>638</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	

Surrogate: 1-Chlorooctane 228 % 44.3-133 1050405 MS 05-May-21 8015B

Surrogate: 1-Chlorooctadecane 298 % 38.9-142 1050405 MS 05-May-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 3 @ 2'**  
**H211125-19 (Soil)**

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

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	1050402	MS	05-May-21	8021B	
Toluene*	<b>0.283</b>		0.050	mg/kg	50	1050402	MS	05-May-21	8021B	GC-NC1
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050402	MS	05-May-21	8021B	GC-NC1
Total Xylenes*	<b>6.23</b>		0.150	mg/kg	50	1050402	MS	05-May-21	8021B	GC-NC1
Total BTEX	<b>6.51</b>		0.300	mg/kg	50	1050402	MS	05-May-21	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 243 % 69.9-140 1050402 MS 05-May-21 8021B

**Petroleum Hydrocarbons by GC FID****S-04**

GRO C6-C10*	<b>268</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
DRO >C10-C28*	<b>3170</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
EXT DRO >C28-C36	<b>359</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	

Surrogate: 1-Chlorooctane 149 % 44.3-133 1050405 MS 05-May-21 8015B

Surrogate: 1-Chlorooctadecane 206 % 38.9-142 1050405 MS 05-May-21 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 3 @ 3'**  
**H211125-20 (Soil)**

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

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1050402	MS	04-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1050402	MS	04-May-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.5 %		69.9-140	1050402	MS	04-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
<b>DRO &gt;C10-C28*</b>	<b>85.5</b>		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			96.1 %		44.3-133	1050405	MS	05-May-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %		38.9-142	1050405	MS	05-May-21	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 3 @ 4'**  
**H211125-21 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1050402	MS	04-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1050402	MS	04-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.3 %		69.9-140	1050402	MS	04-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	

Surrogate: 1-Chlorooctane			88.2 %		44.3-133	1050405	MS	05-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			94.9 %		38.9-142	1050405	MS	05-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397Reported:  
12-May-21 10:32**SP 3 @ 5'**  
**H211125-22 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 3 @ 6'**  
**H211125-23 (Soil)**

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

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1050402	MS	04-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1050402	MS	04-May-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.9 %	69.9-140		1050402	MS	04-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1050405	MS	05-May-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.4 %	44.3-133		1050405	MS	05-May-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			100 %	38.9-142		1050405	MS	05-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 4 @ SURFACE****H211125-24 (Soil)**

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

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Ethylbenzene*	<b>0.069</b>		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1050402	MS	04-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1050402	MS	04-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		1050402	MS	04-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID****S-06**

GRO C6-C10*	<50.0		50.0	mg/kg	5	1050502	MS	05-May-21	8015B	
DRO >C10-C28*	<b>12700</b>		50.0	mg/kg	5	1050502	MS	05-May-21	8015B	QM-07, QR-03
EXT DRO >C28-C36	<b>3090</b>		50.0	mg/kg	5	1050502	MS	05-May-21	8015B	

Surrogate: 1-Chlorooctane			98.4 %	44.3-133		1050502	MS	05-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			923 %	38.9-142		1050502	MS	05-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 4 @ 1'**  
**H211125-25 (Soil)**

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

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Toluene*	<b>0.340</b>		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	GC-NC1
Ethylbenzene*	<b>3.22</b>		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	GC-NC1
Total Xylenes*	<b>1.12</b>		0.150	mg/kg	50	1050402	MS	04-May-21	8021B	GC-NC1
Total BTEX	<b>4.68</b>		0.300	mg/kg	50	1050402	MS	04-May-21	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 344 % 69.9-140 1050402 MS 04-May-21 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>139</b>		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	
<b>DRO &gt;C10-C28*</b>	<b>2950</b>		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	QM-07
<b>EXT DRO &gt;C28-C36</b>	<b>542</b>		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	

Surrogate: 1-Chlorooctane 94.9 % 44.3-133 1050503 MS 05-May-21 8015B

Surrogate: 1-Chlorooctadecane 142 % 38.9-142 1050503 MS 05-May-21 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 4 @ 2'**  
**H211125-26 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Toluene*	<b>0.320</b>		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	GC-NC1
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	GC-NC1
Total Xylenes*	<b>5.99</b>		0.150	mg/kg	50	1050402	MS	04-May-21	8021B	GC-NC1
Total BTEX	<b>6.31</b>		0.300	mg/kg	50	1050402	MS	04-May-21	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 404 % 69.9-140 1050402 MS 04-May-21 8021B

**Petroleum Hydrocarbons by GC FID****S-04**

GRO C6-C10*	<b>337</b>		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	
DRO >C10-C28*	<b>6080</b>		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	
EXT DRO >C28-C36	<b>1040</b>		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	

Surrogate: 1-Chlorooctane 193 % 44.3-133 1050503 MS 05-May-21 8015B

Surrogate: 1-Chlorooctadecane 219 % 38.9-142 1050503 MS 05-May-21 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 4 @ 3'**  
**H211125-27 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Toluene*	<b>0.187</b>		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	GC-NC1
Ethylbenzene*	<b>2.82</b>		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	GC-NC1
Total Xylenes*	<b>1.35</b>		0.150	mg/kg	50	1050402	MS	04-May-21	8021B	GC-NC1
Total BTEX	<b>4.36</b>		0.300	mg/kg	50	1050402	MS	04-May-21	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID)			359 %	69.9-140		1050402	MS	04-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID****S-04**

GRO C6-C10*	<b>198</b>		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	
DRO >C10-C28*	<b>5160</b>		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	
EXT DRO >C28-C36	<b>907</b>		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	

Surrogate: 1-Chlorooctane			135 %	44.3-133		1050503	MS	05-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			185 %	38.9-142		1050503	MS	05-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 4 @ 4'**  
**H211125-28 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1050402	MS	04-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1050402	MS	04-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		1050402	MS	04-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	12.8		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	
DRO >C10-C28*	863		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	
EXT DRO >C28-C36	164		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	

Surrogate: 1-Chlorooctane			82.2 %	44.3-133		1050503	MS	05-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			95.4 %	38.9-142		1050503	MS	05-May-21	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 4 @ 5'**  
**H211125-29 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1050612	MS	07-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1050612	MS	07-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050612	MS	07-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1050612	MS	07-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1050612	MS	07-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.1 %	69.9-140		1050612	MS	07-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	1050704	MS	07-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1050704	MS	07-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1050704	MS	07-May-21	8015B	

Surrogate: 1-Chlorooctane			98.3 %	44.3-133		1050704	MS	07-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			94.3 %	38.9-142		1050704	MS	07-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 4 @ 6'**  
**H211125-30 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1050612	MS	07-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1050612	MS	07-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050612	MS	07-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1050612	MS	07-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1050612	MS	07-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			92.5 %		69.9-140	1050612	MS	07-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	1050704	MS	07-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1050704	MS	07-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1050704	MS	07-May-21	8015B	

Surrogate: 1-Chlorooctane			91.3 %		44.3-133	1050704	MS	07-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			89.9 %		38.9-142	1050704	MS	07-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 5 @ SURFACE****H211125-31 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	1050507	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Toluene*	<b>0.054</b>		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Ethylbenzene*	<b>0.076</b>		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Total Xylenes*	<b>0.926</b>		0.150	mg/kg	50	1050402	MS	04-May-21	8021B	
Total BTEX	<b>1.06</b>		0.300	mg/kg	50	1050402	MS	04-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	69.9-140		1050402	MS	04-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID****S-06**

GRO C6-C10*	<b>87.2</b>		50.0	mg/kg	5	1050503	MS	05-May-21	8015B	
DRO >C10-C28*	<b>13200</b>		50.0	mg/kg	5	1050503	MS	05-May-21	8015B	
EXT DRO >C28-C36	<b>4570</b>		50.0	mg/kg	5	1050503	MS	05-May-21	8015B	

Surrogate: 1-Chlorooctane			93.2 %	44.3-133		1050503	MS	05-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			577 %	38.9-142		1050503	MS	05-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 5 @ 1'**  
**H211125-32 (Soil)**

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

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	1050508	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	GC-NC1
<b>Total Xylenes*</b>	<b>0.341</b>		0.150	mg/kg	50	1050402	MS	04-May-21	8021B	GC-NC1
<b>Total BTEX</b>	<b>0.341</b>		0.300	mg/kg	50	1050402	MS	04-May-21	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140 1050402 MS 04-May-21 8021B

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>22.1</b>		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	
<b>DRO &gt;C10-C28*</b>	<b>921</b>		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>198</b>		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	

Surrogate: 1-Chlorooctane 95.0 % 44.3-133 1050503 MS 05-May-21 8015B

Surrogate: 1-Chlorooctadecane 110 % 38.9-142 1050503 MS 05-May-21 8015B

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 5 @ 2'**  
**H211125-33 (Soil)**

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

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	1050508	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1050402	MS	04-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1050402	MS	04-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	100 %		69.9-140			1050402	MS	04-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>11.1</b>		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	
<b>DRO &gt;C10-C28*</b>	<b>522</b>		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>114</b>		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	

Surrogate: 1-Chlorooctane	82.2 %		44.3-133			1050503	MS	05-May-21	8015B	
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Surrogate: 1-Chlorooctadecane	90.2 %		38.9-142			1050503	MS	05-May-21	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 5 @ 3'**  
**H211125-34 (Soil)**

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

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	1050508	GM	05-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1050402	MS	04-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1050402	MS	04-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1050402	MS	04-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.6 %	69.9-140		1050402	MS	04-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	
DRO >C10-C28*	<b>59.3</b>		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	
EXT DRO >C28-C36	<b>10.7</b>		10.0	mg/kg	1	1050503	MS	05-May-21	8015B	

Surrogate: 1-Chlorooctane			85.0 %	44.3-133		1050503	MS	05-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			88.0 %	38.9-142		1050503	MS	05-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397Reported:  
12-May-21 10:32**SP 5 @ 4'**  
**H211125-35 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	1050508	GM	05-May-21	4500-Cl-B	
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\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

**SP 5 @ 5'**  
**H211125-36 (Soil)**

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

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	1050508	GM	05-May-21	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1050506 - 1:4 DI Water</b>										
<b>Blank (1050506-BLK1)</b>				Prepared & Analyzed: 05-May-21						
Chloride	ND	16.0	mg/kg							
<b>LCS (1050506-BS1)</b>				Prepared & Analyzed: 05-May-21						
Chloride	416	16.0	mg/kg	400		104	80-120			
<b>LCS Dup (1050506-BSD1)</b>				Prepared & Analyzed: 05-May-21						
Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20	
<b>Duplicate (1050506-DUP1)</b>				<b>Source: H211123-02</b>		Prepared & Analyzed: 05-May-21				
Chloride	864	16.0	mg/kg		912			5.41	20	
<b>Matrix Spike (1050506-MS1)</b>				<b>Source: H211123-02</b>		Prepared & Analyzed: 05-May-21				
Chloride	1330	16.0	mg/kg	400	912	104	80-120			
<b>Batch 1050507 - 1:4 DI Water</b>										
<b>Blank (1050507-BLK1)</b>				Prepared & Analyzed: 05-May-21						
Chloride	ND	16.0	mg/kg							
<b>LCS (1050507-BS1)</b>				Prepared & Analyzed: 05-May-21						
Chloride	416	16.0	mg/kg	400		104	80-120			
<b>LCS Dup (1050507-BSD1)</b>				Prepared & Analyzed: 05-May-21						
Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20	
<b>Duplicate (1050507-DUP1)</b>				<b>Source: H211125-12</b>		Prepared & Analyzed: 05-May-21				
Chloride	32.0	16.0	mg/kg		32.0			0.00	20	

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1050507 - 1:4 DI Water****Matrix Spike (1050507-MS1)****Source: H211125-12**

Prepared &amp; Analyzed: 05-May-21

Chloride	448	16.0	mg/kg	400	32.0	104	80-120
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**Batch 1050508 - 1:4 DI Water****Blank (1050508-BLK1)**

Prepared &amp; Analyzed: 05-May-21

Chloride	ND	16.0	mg/kg
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**LCS (1050508-BS1)**

Prepared &amp; Analyzed: 05-May-21

Chloride	400	16.0	mg/kg	400	100	80-120
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**LCS Dup (1050508-BSD1)**

Prepared &amp; Analyzed: 05-May-21

Chloride	416	16.0	mg/kg	400	104	80-120	3.92	20
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**Duplicate (1050508-DUP1)****Source: H211125-32**

Prepared &amp; Analyzed: 05-May-21

Chloride	64.0	16.0	mg/kg	64.0	0.00	20
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**Matrix Spike (1050508-MS1)****Source: H211125-32**

Prepared &amp; Analyzed: 05-May-21

Chloride	448	16.0	mg/kg	400	64.0	96.0	80-120
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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1050401 - Volatiles****Blank (1050401-BLK1)**

Prepared &amp; Analyzed: 04-May-21

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)	ND		mg/kg	0.0500		95.6	69.9-140			

**LCS (1050401-BS1)**

Prepared &amp; Analyzed: 04-May-21

Benzene	2.00	0.050	mg/kg	2.00		100	89.9-120			
Toluene	1.94	0.050	mg/kg	2.00		97.2	90.8-117			
Ethylbenzene	1.89	0.050	mg/kg	2.00		94.3	88.9-116			
m,p-Xylene	3.75	0.100	mg/kg	4.00		93.8	85.5-118			
o-Xylene	1.84	0.050	mg/kg	2.00		91.9	85.5-118			
Total Xylenes	5.59	0.150	mg/kg	6.00		93.2	85.5-118			
Surrogate: 4-Bromofluorobenzene (PID)	0.0465		mg/kg	0.0500		93.1	69.9-140			

**LCS Dup (1050401-BSD1)**

Prepared &amp; Analyzed: 04-May-21

Benzene	2.19	0.050	mg/kg	2.00		109	89.9-120	8.68	10.3	
Toluene	2.14	0.050	mg/kg	2.00		107	90.8-117	9.67	10.5	
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	88.9-116	8.89	10.8	
m,p-Xylene	4.04	0.100	mg/kg	4.00		101	85.5-118	7.44	10.7	
o-Xylene	2.01	0.050	mg/kg	2.00		100	85.5-118	8.80	10.7	
Total Xylenes	6.05	0.150	mg/kg	6.00		101	85.5-118	7.89	10.7	
Surrogate: 4-Bromofluorobenzene (PID)	0.0471		mg/kg	0.0500		94.1	69.9-140			

**Matrix Spike (1050401-MS1)**

Source: H211123-01

Prepared &amp; Analyzed: 04-May-21

Benzene	1.88	0.050	mg/kg	2.00	ND	93.8	79.3-125			
Toluene	1.84	0.050	mg/kg	2.00	0.006	91.8	71.7-129			
Ethylbenzene	1.79	0.050	mg/kg	2.00	ND	89.4	64.4-135			
m,p-Xylene	3.55	0.100	mg/kg	4.00	ND	88.9	61.2-136			
o-Xylene	1.74	0.050	mg/kg	2.00	ND	86.8	61.2-136			
Total Xylenes	5.29	0.150	mg/kg	6.00	ND	88.2	61.2-136			

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1050401 - Volatiles****Matrix Spike (1050401-MS1)**

Source: H211123-01

Prepared &amp; Analyzed: 04-May-21

Surrogate: 4-Bromofluorobenzene (PID) 0.0467 mg/kg 0.0500 93.4 69.9-140

**Matrix Spike Dup (1050401-MSD1)**

Source: H211123-01

Prepared &amp; Analyzed: 04-May-21

Benzene	1.94	0.050	mg/kg	2.00	ND	97.0	79.3-125	3.43	13.4
Toluene	1.90	0.050	mg/kg	2.00	0.006	94.6	71.7-129	3.04	13.1
Ethylbenzene	1.85	0.050	mg/kg	2.00	ND	92.6	64.4-135	3.51	13.9
m,p-Xylene	3.68	0.100	mg/kg	4.00	ND	91.9	61.2-136	3.37	15.3
o-Xylene	1.79	0.050	mg/kg	2.00	ND	89.7	61.2-136	3.31	15.3
Total Xylenes	5.47	0.150	mg/kg	6.00	ND	91.2	61.2-136	3.35	15.3

Surrogate: 4-Bromofluorobenzene (PID) 0.0472 mg/kg 0.0500 94.3 69.9-140

**Batch 1050402 - Volatiles****Blank (1050402-BLK1)**

Prepared &amp; Analyzed: 04-May-21

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) ND mg/kg 0.0500 95.1 69.9-140

**LCS (1050402-BS1)**

Prepared &amp; Analyzed: 04-May-21

Benzene	2.03	0.050	mg/kg	2.00	102	89.9-120
Toluene	1.98	0.050	mg/kg	2.00	98.8	90.8-117
Ethylbenzene	1.92	0.050	mg/kg	2.00	95.8	88.9-116
m,p-Xylene	3.81	0.100	mg/kg	4.00	95.3	85.5-118
o-Xylene	1.86	0.050	mg/kg	2.00	92.9	85.5-118
Total Xylenes	5.67	0.150	mg/kg	6.00	94.5	85.5-118

Surrogate: 4-Bromofluorobenzene (PID) 0.0465 mg/kg 0.0500 93.1 69.9-140

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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1050402 - Volatiles****LCS Dup (1050402-BSD1)**

Prepared &amp; Analyzed: 04-May-21

Benzene	2.23	0.050	mg/kg	2.00		112	89.9-120	9.39	10.3	
Toluene	2.18	0.050	mg/kg	2.00		109	90.8-117	9.71	10.5	
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	88.9-116	10.1	10.8	
m,p-Xylene	4.19	0.100	mg/kg	4.00		105	85.5-118	9.56	10.7	
o-Xylene	2.08	0.050	mg/kg	2.00		104	85.5-118	11.1	10.7	QR-04
Total Xylenes	6.27	0.150	mg/kg	6.00		104	85.5-118	10.1	10.7	
Surrogate: 4-Bromofluorobenzene (PID)	0.0474		mg/kg	0.0500		94.9	69.9-140			

**Matrix Spike (1050402-MS1)**

Source: H211125-13

Prepared: 04-May-21 Analyzed: 05-May-21

Benzene	2.04	0.050	mg/kg	2.00	ND	102	79.3-125			
Toluene	2.42	0.050	mg/kg	2.00	0.600	90.7	71.7-129			
Ethylbenzene	3.07	0.050	mg/kg	2.00	ND	153	64.4-135			QM-07
m,p-Xylene	8.19	0.100	mg/kg	4.00	6.20	49.8	61.2-136			QM-07
o-Xylene	2.68	0.050	mg/kg	2.00	3.13	NR	61.2-136			QM-07
Total Xylenes	10.9	0.150	mg/kg	6.00	9.33	25.7	61.2-136			QM-07
Surrogate: 4-Bromofluorobenzene (PID)	0.133		mg/kg	0.0500		267	69.9-140			S-04

**Matrix Spike Dup (1050402-MSD1)**

Source: H211125-13

Prepared: 04-May-21 Analyzed: 05-May-21

Benzene	2.13	0.050	mg/kg	2.00	ND	106	79.3-125	4.35	13.4	
Toluene	2.54	0.050	mg/kg	2.00	0.600	96.8	71.7-129	4.92	13.1	
Ethylbenzene	3.24	0.050	mg/kg	2.00	ND	162	64.4-135	5.37	13.9	QM-07
m,p-Xylene	8.45	0.100	mg/kg	4.00	6.20	56.2	61.2-136	3.08	15.3	QM-07
o-Xylene	2.73	0.050	mg/kg	2.00	3.13	NR	61.2-136	1.80	15.3	QM-07
Total Xylenes	11.2	0.150	mg/kg	6.00	9.33	30.8	61.2-136	2.77	15.3	QM-07
Surrogate: 4-Bromofluorobenzene (PID)	0.134		mg/kg	0.0500		269	69.9-140			S-04

**Batch 1050612 - Volatiles****Blank (1050612-BLK1)**

Prepared: 06-May-21 Analyzed: 07-May-21

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1050612 - Volatiles****Blank (1050612-BLK1)**

Prepared: 06-May-21 Analyzed: 07-May-21

Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		93.1	69.9-140			

**LCS (1050612-BS1)**

Prepared: 06-May-21 Analyzed: 07-May-21

Benzene	2.12	0.050	mg/kg	2.00		106	89.9-120			
Toluene	2.09	0.050	mg/kg	2.00		105	90.8-117			
Ethylbenzene	2.05	0.050	mg/kg	2.00		102	88.9-116			
m,p-Xylene	4.06	0.100	mg/kg	4.00		102	85.5-118			
o-Xylene	1.99	0.050	mg/kg	2.00		99.5	85.5-118			
Total Xylenes	6.05	0.150	mg/kg	6.00		101	85.5-118			
Surrogate: 4-Bromofluorobenzene (PID)	0.0463		mg/kg	0.0500		92.5	69.9-140			

**LCS Dup (1050612-BSD1)**

Prepared: 06-May-21 Analyzed: 07-May-21

Benzene	2.16	0.050	mg/kg	2.00		108	89.9-120	2.06	10.3	
Toluene	2.13	0.050	mg/kg	2.00		106	90.8-117	1.70	10.5	
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	88.9-116	1.77	10.8	
m,p-Xylene	4.13	0.100	mg/kg	4.00		103	85.5-118	1.62	10.7	
o-Xylene	2.02	0.050	mg/kg	2.00		101	85.5-118	1.31	10.7	
Total Xylenes	6.15	0.150	mg/kg	6.00		102	85.5-118	1.52	10.7	
Surrogate: 4-Bromofluorobenzene (PID)	0.0454		mg/kg	0.0500		90.9	69.9-140			

**Matrix Spike (1050612-MS1)**

Source: H211161-14

Prepared: 06-May-21 Analyzed: 07-May-21

Benzene	2.01	0.050	mg/kg	2.00	ND	100	79.3-125			
Toluene	1.99	0.050	mg/kg	2.00	0.006	99.7	71.7-129			
Ethylbenzene	1.97	0.050	mg/kg	2.00	ND	98.4	64.4-135			
m,p-Xylene	3.92	0.100	mg/kg	4.00	ND	98.1	61.2-136			
o-Xylene	1.89	0.050	mg/kg	2.00	ND	94.3	61.2-136			
Total Xylenes	5.81	0.150	mg/kg	6.00	ND	96.8	61.2-136			
Surrogate: 4-Bromofluorobenzene (PID)	0.0449		mg/kg	0.0500		89.8	69.9-140			

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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1050612 - Volatiles****Matrix Spike Dup (1050612-MSD1)****Source: H211161-14**

Prepared: 06-May-21 Analyzed: 07-May-21

Benzene	2.15	0.050	mg/kg	2.00	ND	107	79.3-125	6.84	13.4	
Toluene	2.11	0.050	mg/kg	2.00	0.006	106	71.7-129	5.89	13.1	
Ethylbenzene	2.08	0.050	mg/kg	2.00	ND	104	64.4-135	5.31	13.9	
m,p-Xylene	4.13	0.100	mg/kg	4.00	ND	103	61.2-136	4.99	15.3	
o-Xylene	2.00	0.050	mg/kg	2.00	ND	100	61.2-136	6.04	15.3	
Total Xylenes	6.13	0.150	mg/kg	6.00	ND	102	61.2-136	5.33	15.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0446		mg/kg	0.0500		89.2	69.9-140			

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Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1050403 - General Prep - Organics****Blank (1050403-BLK1)**

Prepared &amp; Analyzed: 04-May-21

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	45.6		mg/kg	50.0		91.3	44.3-133			
Surrogate: 1-Chlorooctadecane	46.7		mg/kg	50.0		93.3	38.9-142			

**LCS (1050403-BS1)**

Prepared &amp; Analyzed: 04-May-21

GRO C6-C10	204	10.0	mg/kg	200		102	83.4-129			
DRO >C10-C28	200	10.0	mg/kg	200		99.8	84.3-133			
Total TPH C6-C28	404	10.0	mg/kg	400		101	85.3-130			
Surrogate: 1-Chlorooctane	52.4		mg/kg	50.0		105	44.3-133			
Surrogate: 1-Chlorooctadecane	51.4		mg/kg	50.0		103	38.9-142			

**LCS Dup (1050403-BSD1)**

Prepared &amp; Analyzed: 04-May-21

GRO C6-C10	206	10.0	mg/kg	200		103	83.4-129	0.721	12.6	
DRO >C10-C28	207	10.0	mg/kg	200		104	84.3-133	3.88	12.1	
Total TPH C6-C28	413	10.0	mg/kg	400		103	85.3-130	2.30	11.6	
Surrogate: 1-Chlorooctane	53.1		mg/kg	50.0		106	44.3-133			
Surrogate: 1-Chlorooctadecane	52.7		mg/kg	50.0		105	38.9-142			

**Matrix Spike (1050403-MS1)**

Source: H211119-01

Prepared &amp; Analyzed: 04-May-21

GRO C6-C10	203	10.0	mg/kg	200	ND	102	65.4-129			
DRO >C10-C28	1320	10.0	mg/kg	200	1140	89.7	46.9-157			
Total TPH C6-C28	1520	10.0	mg/kg	400	1140	95.7	53.9-146			
Surrogate: 1-Chlorooctane	57.3		mg/kg	50.0		115	44.3-133			
Surrogate: 1-Chlorooctadecane	83.1		mg/kg	50.0		166	38.9-142			S-04

**Matrix Spike Dup (1050403-MSD1)**

Source: H211119-01

Prepared &amp; Analyzed: 04-May-21

GRO C6-C10	186	10.0	mg/kg	200	ND	93.1	65.4-129	8.85	35.1	
DRO >C10-C28	1410	10.0	mg/kg	200	1140	134	46.9-157	39.6	58.3	
Total TPH C6-C28	1600	10.0	mg/kg	400	1140	114	53.9-146	17.1	68.4	
Surrogate: 1-Chlorooctane	51.2		mg/kg	50.0		102	44.3-133			

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1050403 - General Prep - Organics****Matrix Spike Dup (1050403-MSD1)**

Source: H211119-01

Prepared &amp; Analyzed: 04-May-21

Surrogate: 1-Chlorooctadecane	82.1		mg/kg	50.0		164	38.9-142			S-04
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**Batch 1050405 - General Prep - Organics****Blank (1050405-BLK1)**

Prepared &amp; Analyzed: 04-May-21

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	47.2		mg/kg	50.0		94.5	44.3-133			
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Surrogate: 1-Chlorooctadecane	51.9		mg/kg	50.0		104	38.9-142			
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**LCS (1050405-BS1)**

Prepared &amp; Analyzed: 04-May-21

GRO C6-C10	194	10.0	mg/kg	200		97.2	83.4-129			
DRO >C10-C28	208	10.0	mg/kg	200		104	84.3-133			
Total TPH C6-C28	402	10.0	mg/kg	400		101	85.3-130			

Surrogate: 1-Chlorooctane	52.7		mg/kg	50.0		105	44.3-133			
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Surrogate: 1-Chlorooctadecane	55.7		mg/kg	50.0		111	38.9-142			
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**LCS Dup (1050405-BSD1)**

Prepared &amp; Analyzed: 04-May-21

GRO C6-C10	190	10.0	mg/kg	200		94.9	83.4-129	2.37	12.6	
DRO >C10-C28	192	10.0	mg/kg	200		95.9	84.3-133	8.15	12.1	
Total TPH C6-C28	382	10.0	mg/kg	400		95.4	85.3-130	5.31	11.6	

Surrogate: 1-Chlorooctane	52.5		mg/kg	50.0		105	44.3-133			
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Surrogate: 1-Chlorooctadecane	56.0		mg/kg	50.0		112	38.9-142			
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**Matrix Spike (1050405-MS1)**

Source: H211120-01

Prepared: 04-May-21 Analyzed: 05-May-21

GRO C6-C10	177	10.0	mg/kg	200	ND	88.7	65.4-129			
DRO >C10-C28	287	10.0	mg/kg	200	ND	143	46.9-157			
Total TPH C6-C28	464	10.0	mg/kg	400	ND	116	53.9-146			

Surrogate: 1-Chlorooctane	47.5		mg/kg	50.0		95.0	44.3-133			
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Surrogate: 1-Chlorooctadecane	54.2		mg/kg	50.0		108	38.9-142			
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1050405 - General Prep - Organics**

Matrix Spike Dup (1050405-MSD1)		Source: H211120-01			Prepared: 04-May-21 Analyzed: 05-May-21					
GRO C6-C10	177	10.0	mg/kg	200	ND	88.6	65.4-129	0.173	35.1	
DRO >C10-C28	173	10.0	mg/kg	200	ND	86.3	46.9-157	49.8	58.3	
Total TPH C6-C28	350	10.0	mg/kg	400	ND	87.4	53.9-146	28.2	68.4	
Surrogate: 1-Chlorooctane	43.0		mg/kg	50.0		86.1	44.3-133			
Surrogate: 1-Chlorooctadecane	45.4		mg/kg	50.0		90.7	38.9-142			

**Batch 1050502 - General Prep - Organics**

Blank (1050502-BLK1)		Prepared & Analyzed: 05-May-21								
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	46.6		mg/kg	50.0		93.2	44.3-133			
Surrogate: 1-Chlorooctadecane	49.3		mg/kg	50.0		98.5	38.9-142			

LCS (1050502-BS1)		Prepared & Analyzed: 05-May-21								
GRO C6-C10	196	10.0	mg/kg	200		97.9	83.4-129			
DRO >C10-C28	203	10.0	mg/kg	200		101	84.3-133			
Total TPH C6-C28	399	10.0	mg/kg	400		99.6	85.3-130			
Surrogate: 1-Chlorooctane	52.9		mg/kg	50.0		106	44.3-133			
Surrogate: 1-Chlorooctadecane	54.5		mg/kg	50.0		109	38.9-142			

LCS Dup (1050502-BSD1)		Prepared & Analyzed: 05-May-21								
GRO C6-C10	182	10.0	mg/kg	200		90.8	83.4-129	7.47	12.6	
DRO >C10-C28	186	10.0	mg/kg	200		93.2	84.3-133	8.45	12.1	
Total TPH C6-C28	368	10.0	mg/kg	400		92.0	85.3-130	7.97	11.6	
Surrogate: 1-Chlorooctane	47.7		mg/kg	50.0		95.4	44.3-133			
Surrogate: 1-Chlorooctadecane	50.4		mg/kg	50.0		101	38.9-142			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1050502 - General Prep - Organics**

Matrix Spike (1050502-MS1)		Source: H211125-24			Prepared & Analyzed: 05-May-21					
GRO C6-C10	186	50.0	mg/kg	200	ND	92.9	65.4-129			
DRO >C10-C28	14700	50.0	mg/kg	200	12700	NR	46.9-157			QM-07
Total TPH C6-C28	14900	50.0	mg/kg	400	12700	551	53.9-146			QM-07
Surrogate: 1-Chlorooctane	53.2		mg/kg	50.0		106	44.3-133			
Surrogate: 1-Chlorooctadecane	515		mg/kg	50.0		NR	38.9-142			S-06

Matrix Spike Dup (1050502-MSD1)		Source: H211125-24			Prepared & Analyzed: 05-May-21					
GRO C6-C10	198	50.0	mg/kg	200	ND	98.8	65.4-129	6.21	35.1	
DRO >C10-C28	16500	50.0	mg/kg	200	12700	NR	46.9-157	61.8	58.3	QM-07, QR-03
Total TPH C6-C28	16700	50.0	mg/kg	400	12700	NR	53.9-146	58.4	68.4	QM-07
Surrogate: 1-Chlorooctane	55.2		mg/kg	50.0		110	44.3-133			
Surrogate: 1-Chlorooctadecane	573		mg/kg	50.0		NR	38.9-142			S-06

**Batch 1050503 - General Prep - Organics**

Blank (1050503-BLK1)		Prepared & Analyzed: 05-May-21								
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	39.6		mg/kg	50.0		79.2	44.3-133			
Surrogate: 1-Chlorooctadecane	37.3		mg/kg	50.0		74.6	38.9-142			

LCS (1050503-BS1)		Prepared & Analyzed: 05-May-21								
GRO C6-C10	197	10.0	mg/kg	200		98.3	83.4-129			
DRO >C10-C28	208	10.0	mg/kg	200		104	84.3-133			
Total TPH C6-C28	404	10.0	mg/kg	400		101	85.3-130			
Surrogate: 1-Chlorooctane	42.4		mg/kg	50.0		84.9	44.3-133			
Surrogate: 1-Chlorooctadecane	39.5		mg/kg	50.0		79.0	38.9-142			

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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1050503 - General Prep - Organics****LCS Dup (1050503-BSD1)**

Prepared &amp; Analyzed: 05-May-21

GRO C6-C10	194	10.0	mg/kg	200		97.0	83.4-129	1.39	12.6	
DRO >C10-C28	204	10.0	mg/kg	200		102	84.3-133	1.63	12.1	
Total TPH C6-C28	398	10.0	mg/kg	400		99.5	85.3-130	1.51	11.6	
Surrogate: 1-Chlorooctane	41.2		mg/kg	50.0		82.4	44.3-133			
Surrogate: 1-Chlorooctadecane	38.5		mg/kg	50.0		77.0	38.9-142			

**Matrix Spike (1050503-MS1)**

Source: H211125-25

Prepared &amp; Analyzed: 05-May-21

GRO C6-C10	327	10.0	mg/kg	200	139	94.1	65.4-129			
DRO >C10-C28	3340	10.0	mg/kg	200	2950	194	46.9-157			QM-07
Total TPH C6-C28	3670	10.0	mg/kg	400	3090	144	53.9-146			
Surrogate: 1-Chlorooctane	53.4		mg/kg	50.0		107	44.3-133			
Surrogate: 1-Chlorooctadecane	73.8		mg/kg	50.0		148	38.9-142			S-04

**Matrix Spike Dup (1050503-MSD1)**

Source: H211125-25

Prepared &amp; Analyzed: 05-May-21

GRO C6-C10	319	10.0	mg/kg	200	139	90.3	65.4-129	4.10	35.1	
DRO >C10-C28	3180	10.0	mg/kg	200	2950	114	46.9-157	52.0	58.3	
Total TPH C6-C28	3500	10.0	mg/kg	400	3090	102	53.9-146	34.1	68.4	
Surrogate: 1-Chlorooctane	59.8		mg/kg	50.0		120	44.3-133			
Surrogate: 1-Chlorooctadecane	75.5		mg/kg	50.0		151	38.9-142			S-04

**Batch 1050704 - General Prep - Organics****Blank (1050704-BLK1)**

Prepared &amp; Analyzed: 07-May-21

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	42.9		mg/kg	50.0		85.7	44.3-133			
Surrogate: 1-Chlorooctadecane	41.6		mg/kg	50.0		83.2	38.9-142			

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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: CORRAL CANYON 36-25 CTB  
Project Number: ( 1-22 - 19 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
12-May-21 10:32

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1050704 - General Prep - Organics****LCS (1050704-BS1)**

Prepared &amp; Analyzed: 07-May-21

GRO C6-C10	212	10.0	mg/kg	200		106	83.4-129			
DRO >C10-C28	226	10.0	mg/kg	200		113	84.3-133			
Total TPH C6-C28	438	10.0	mg/kg	400		110	85.3-130			
Surrogate: 1-Chlorooctane	46.4		mg/kg	50.0		92.8	44.3-133			
Surrogate: 1-Chlorooctadecane	45.5		mg/kg	50.0		91.1	38.9-142			

**LCS Dup (1050704-BS1)**

Prepared &amp; Analyzed: 07-May-21

GRO C6-C10	208	10.0	mg/kg	200		104	83.4-129	1.94	12.6	
DRO >C10-C28	223	10.0	mg/kg	200		111	84.3-133	1.46	12.1	
Total TPH C6-C28	431	10.0	mg/kg	400		108	85.3-130	1.69	11.6	
Surrogate: 1-Chlorooctane	45.9		mg/kg	50.0		91.8	44.3-133			
Surrogate: 1-Chlorooctadecane	45.1		mg/kg	50.0		90.3	38.9-142			

**Matrix Spike (1050704-MS1)**

Source: H211125-29

Prepared &amp; Analyzed: 07-May-21

GRO C6-C10	214	10.0	mg/kg	200	2.20	106	65.4-129			
DRO >C10-C28	222	10.0	mg/kg	200	1.45	111	46.9-157			
Total TPH C6-C28	436	10.0	mg/kg	400	3.65	108	53.9-146			
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	44.3-133			
Surrogate: 1-Chlorooctadecane	53.8		mg/kg	50.0		108	38.9-142			

**Matrix Spike Dup (1050704-MSD1)**

Source: H211125-29

Prepared: 07-May-21 Analyzed: 08-May-21

GRO C6-C10	224	10.0	mg/kg	200	2.20	111	65.4-129	4.68	35.1	
DRO >C10-C28	236	10.0	mg/kg	200	1.45	118	46.9-157	6.06	58.3	
Total TPH C6-C28	460	10.0	mg/kg	400	3.65	114	53.9-146	5.41	68.4	
Surrogate: 1-Chlorooctane	51.5		mg/kg	50.0		103	44.3-133			
Surrogate: 1-Chlorooctadecane	55.1		mg/kg	50.0		110	38.9-142			

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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager







# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

Company Name: BBC International, Inc.				<b>BILL TO</b>												<b>ANALYSIS REQUEST</b>											
Project Manager: Cliff Brunson				P.O. #:																							
Address: P.O. Box 805				Company: OXY																							
City: Hobbs		State: NM Zip: 88241		Attn: WADE																							
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																							
Project #:		Project Owner: Oxy		City:																							
Project Name: CORRAL CANYON 36-25 CTB(1-22-19)				State: Zip:																							
Project Location:				Phone #:																							
Sampler Name: SIMON RENDON				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(GIRAB OR (C)OMP # CONTAINERS		MATRIX		PRESERV.		SAMPLING																	
						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:				DATE		TIME		CL		BTEX		TPH		EXT					
H211125																											
11		SP2 @ SURFACE		G								4/29/21		12:54		✓		✓		✓							
12		SP2 @ 1'										4/29/21		1:09		✓		✓		✓							
13		SP2 @ 2'										4/29/21		1:18		✓		✓		✓							
14		SP2 @ 3'										4/29/21		1:30		✓		✓		✓							
15		SP2 @ 4'										4/29/21		1:44		✓											
16		SP2 @ 5'										4/29/21		1:53		✓											
17		SP3 @ SURFACE										4/30/21		9:45		✓		✓		✓							
18		SP3 @ 1'										4/30/21		9:57		✓		✓		✓							
19		SP3 @ 2'										4/30/21		10:14		✓		✓		✓							
20		SP3 @ 3'										4/30/21		10:26		✓		✓		✓							

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Relinquished By: <i>Simon Rendon</i>		Date: 5-3-21		Received By: <i>Israel Pena</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: 8:00 AM						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <i>Israel Pena</i>		Date: 5-3-21		Received By: <i>Samara Alvarado</i>		REMARKS:			
Time: 4:30 PM									
Delivered By: (Circle One)		Sample Condition		CHECKED BY:					
Sampler - UPS - Bus - Other: - 2.2e #113		Cool Intact		(Initials)					
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<i>YO</i>					

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





## • CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>(505) 593-2328 FAX (505) 593-2470</b>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																		
Company Name: BBC International, Inc.				P.O. #:																						
Project Manager: Cliff Brunson				Company: OXY																						
Address: P.O. Box 805				Attn: WADE																						
City: Hobbs		State: NM Zip: 88241		Address:																						
Phone #: 575-397-6388		Fax #: 575-397-0397		City:																						
Project #:		Project Owner: Oxy		State:				Zip:																		
Project Name: CORRAL CANYON 36-25 CTB(1-22-19)				Phone #:																						
Project Location:				Fax #:																						
Sampler Name: SIMON RENDON																										
FOR LAB USE ONLY				MATRIX				PRESERV.	SAMPLING																	
Lab I.D.	Sample I.D.	GIRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CL	BTEX	TPH	EXT								
H211125																										
21	SP3 @ 4'	G	I										4/30/21	10:47	✓	✓	✓									
22	SP3 @ 5'												4/30/21	11:08	✓											
23	SP3 @ 6'												4/30/21	11:19	✓	✓	✓									
24	SP4 @ SURFACE												4/30/21	11:30	✓	✓	✓									
25	SP4 @ 1'												4/30/21	11:38	✓	✓	✓									
26	SP4 @ 2'												4/30/21	11:51	✓	✓	✓									
27	SP4 @ 3'												4/30/21	12:46	✓	✓	✓									
28	SP4 @ 4'												4/30/21	12:54	✓	✓	✓									
29	SP4 @ 5'												4/30/21	1:04	✓	X	X		added 5/16/21 Ch							
30	SP4 @ 6'												4/30/21	1:15	✓	X	X									

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Relinquished By: 	Date: 5-3-21 Time: 8:00 AM	Received By: 	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
REMARKS:				

Relinquished By: 	Date: 5-3-21 Time: 7:30 PM	Received By: 	CHECKED BY: (Initials) Y.B.
	Delivered By: (Circle One) Sampler - UPS - Bus - Other: - 2-2: #113		

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





# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																													
Project Manager: Cliff Brunson				P.O. #:																																	
Address: P.O. Box 805				Company: OXY																																	
City: Hobbs		State: NM		Zip: 88241		Attn: WADE																															
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:		City:																															
Project #:		Project Owner: Oxy		State:		Zip:																															
Project Name: CORRAL CANYON 36-25 CTB(1-22-19)				Phone #:		Fax #:																															
Project Location:																																					
Sampler Name: SIMON RENDON																																					
FOR LAB USE ONLY																																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME		CL		BTX		TPH		EXT	
H211125																																					
31		SP5 @ SURFACE		G		1																				4/30/21		1:23		✓		✓		✓			
32		SP5 @ 1'																								4/30/21		1:30		✓		✓		✓			
33		SP5 @ 2'																								4/30/21		1:41		✓		✓		✓			
34		SP5 @ 3'																								4/30/21		1:50		✓		✓		✓			
35		SP5 @ 4'																								4/30/21		2:03		✓							
36		SP5 @ 5'		✓		✓																				4/30/21		2:14		✓							

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Relinquished By: <i>Simon Rendon</i>		Date: 5-3-21		Received By: <i>Israel Peña</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 8:00 AM				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <i>Israel Peña</i>		Date: 5-3-21		Received By: <i>Tamara</i>		REMARKS:			
		Time: 4:30 PM							
Delivered By: (Circle One)				Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other: - 2.2c #113				Cool Intact		✓			
				Yes No					

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



# Micro-Blaze®

Emergency Liquid Spill Control

## PRODUCT INFORMATION



## EMERGENCY LIQUID SPILL CONTROL (ELSC)

**REMIEDIATES (LIST NOT EXHAUSTIVE)**

- Acetone
- Acrylonitrile
- AFFF Waste
- Anti-Freeze
- Aviation Fuels
- Benzene & Benzene Compounds
- Crude Oil
- Diesel Fuel
- Dimethylformamide
- Fats
- Gasoline
- Grease
- Glycols
- Hydrocarbon Waste
- Kerosene
- Methanol
- Methyl Tertiary Butyl Ether (MTBE)
- Motor Oil
- Odor
- Organic Chemical Waste
- Organic Waste
- Paint Sludge
- Pipeline Condensation
- Polyurethane Resin Waste
- Sludge
- Toluene

# Micro-Blaze®

## Emergency Liquid Spill Control

Micro-Blaze® Emergency Liquid Spill Control is a safe, non-toxic, microbial formulation used for the bioremediation of hydrocarbons and other organic compounds. It breaks down, degrades, and digests organic waste while also suppressing vapors and eliminating flammability. The proprietary combination of wetting agents, nutrients, and microbes makes it an ideal formulation for use on many pollutants found in spills and contaminated sites.

Our microbes are naturally occurring, not genetically engineered, and found in soils and waters all over the earth. These microbes have been carefully researched, tested, and chosen for their affinity to degrade hydrocarbons and other organic waste.

**USES**

- Clean up hydrocarbon spills/leaks
- Soil bioremediation
- Vapor suppression
- Equipment, tank, and pipeline cleaning

**BENEFITS**

- Safe and cost-effective method for in-situ bioremediation of contaminated soils and water
- Elimination of vapors and LELs, creating a safe working environment
- Residue and runoff can be safely sent to industrial and municipal WWTPs
- 10-year shelf life and easy to use concentrate make it convenient to maintain on hand for future emergencies or everyday usage
- Listed on EPA NCP List as a bioremediation agent for 30 years\*

*\* This listing does not mean the EPA approves, recommends, licenses, certifies or authorizes the use of Micro-Blaze® Emergency Liquid Spill Control or any other product on an oil discharge. This listing only means that data has been submitted to EPA as required by subpart J of the NCP §300.915.*

**Product Details****Appearance:**

Cream to tan, opaque liquid, perfumed

**pH:**

7.0 - 8.0

**Shelf Life:**

10 Years

**Storage:**

Avoid temperatures over 48°C for long periods of time. Avoid prolonged freezing.

**CAUTION: KEEP OUT OF REACH OF CHILDREN.**  
Do not take internally. Avoid contact with eyes. Wash thoroughly after handling. Avoid breathing mist. Contains surfactants (soaps) which may irritate eyes or respiratory system. Use with adequate ventilation.

# APPLICATION

Micro-Blaze® is a liquid concentrate and must be diluted before application.

## DILUTION

Dilute with water between a 3% solution (3 parts Micro-Blaze®, 97 parts water) and a 10% solution (10 parts Micro-Blaze®, 90 parts water). Shake well before dilution and before application.

## APPLICATION

Spray the diluted Micro-Blaze® directly onto the contamination with as much agitation as possible until the area is completely saturated. You can use any delivery system/sprayer, such as hand-held sprayers, fire extinguishers, power washers, CAFS systems, and water trucks.

For soil remediation, tilling the soil after application will help in achieving optimal results, though it is not required where not feasible.

## HOW MUCH MICRO-BLAZE® DO I NEED?

1 gallon of Micro-Blaze® concentrate, after diluted, will treat either of the following:

- 10 gallons of spilled contamination
- 500 – 700 square feet of contaminated surface
- 5 – 7 cubic yards of contaminated soil

Contact a Micro-Blaze® sales representative for any additional application questions:  
[technical@micro-blaze.com](mailto:technical@micro-blaze.com)

# PRODUCT SIZES & SPECS



**1 Gallon Pail**

SKU	MBELSC-1
Dimensions	8" x 8" x 12"
Weight	9 lbs



**5 Gallon Pail**

SKU	MBELSC-5
Dimensions	12" x 12" x 15"
Weight	47 lbs
	36 pails /pallet



**55 Gallon Drum**

SKU	MBELSC-55
Dimensions	24" x 24" x 35"
Weight	500 lbs
	4 drums/pallet



**275 Gallon Tote**

SKU	MBELSC-275
Dimensions	40" x 48" x 45"
Weight	2,500 lbs



**330 Gallon Tote**

SKU	MBELSC-330
Dimensions	40" x 48" x 54"
Weight	3,000 lbs

## RELATED PRODUCTS:

### CONCRETE STAIN REMOVER (CSR)



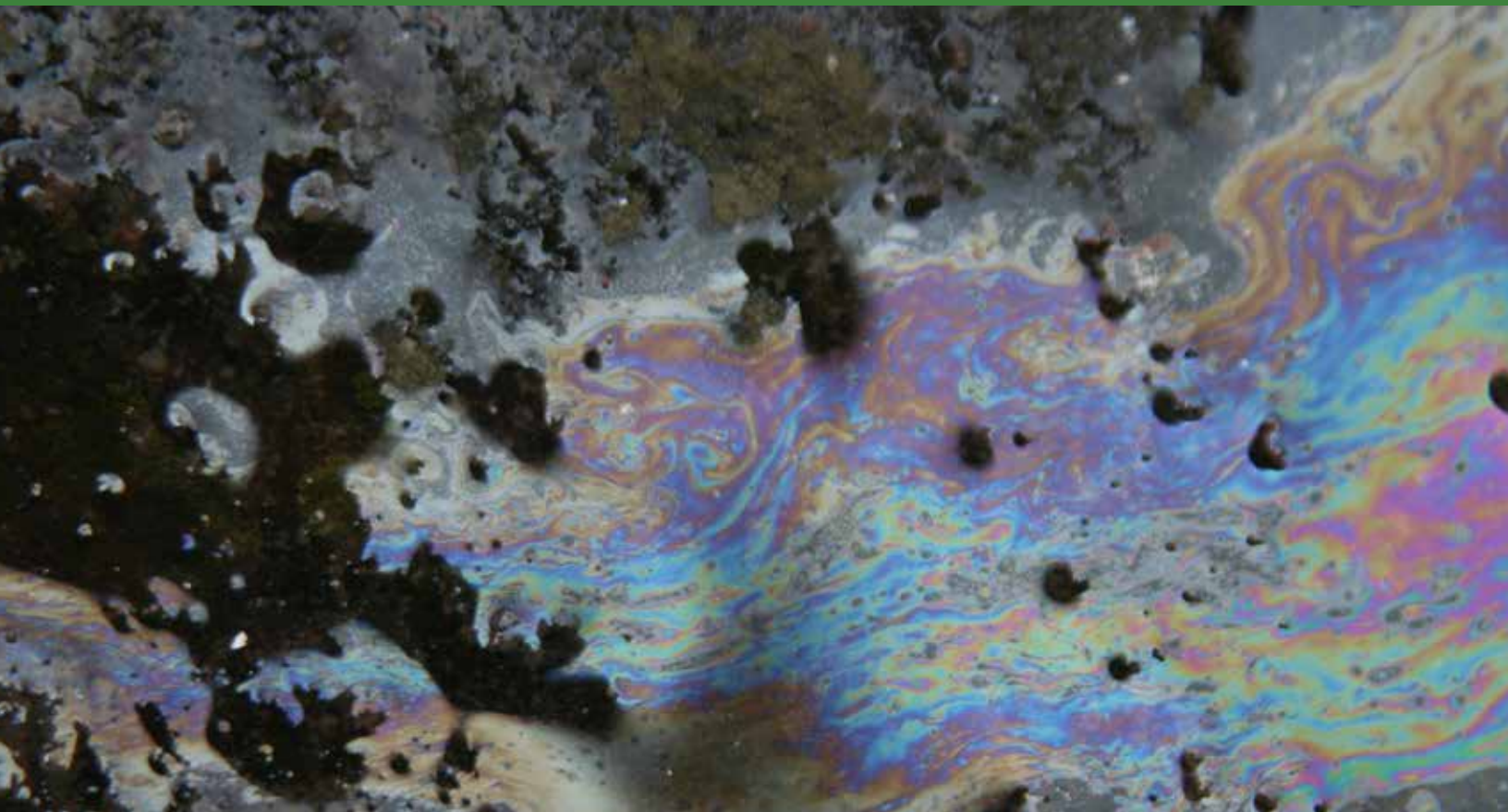
### NON-FORMULATED



SCAN FOR MSDS  
FOR ALL PRODUCTS

# PARTNERING WITH NATURE

## FOR A CLEANER TOMORROW



**Verde Environmental, Inc.**  
9223 Eastex Freeway  
Houston, TX 77093

Office: 713.691.6468  
Toll Free: 800.626.6598

[www.micro-blaze.com](http://www.micro-blaze.com)



Version 0522



## APPENDIX C

### Photographic Documentation





View of the release area during remediation activities, facing north (March 29, 2022).



View of the release area during remediation activities, facing northeast (March 29, 2022).



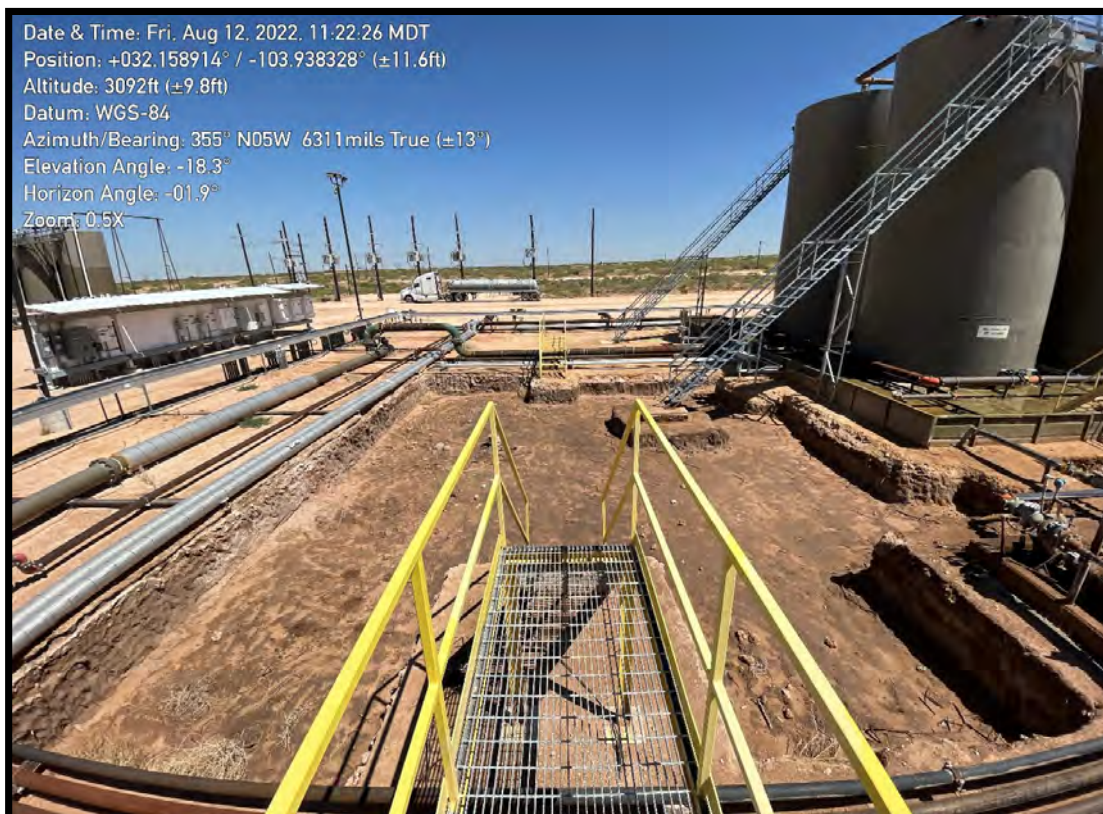


View of the release area during remediation activities, facing southeast (March 29, 2022).



View of the soil stockpile during remediation activities, facing southeast (March 29, 2022).





View of the release area during remediation activities, facing north (August 12, 2022).



View of the release area during remediation activities, facing northeast (August 12, 2022).





View of the soil stockpile plastic liner prior remediation activities, facing east.



View of the soil stockpile during remediation activities, facing southeast.





## APPENDIX D

### Tables

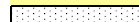
**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Corral Canyon 36 - 25 CTB  
 Oxy USA Inc.  
 Eddy County, New Mexico  
 Ensolum Project No. 03B1417028

Sample Designation	Date	Depth (inches 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 (> 100 feet)			10	NE	NE	NE	50	1,000		NE	2,500	20,000
Composite Floor Sample Analytical Results												
FS-1	4/7/2022	36	<0.050	0.055	<0.050	0.231	<0.300	2,951		577	3,528	32.0
	6/10/2022	36	NS					2,500		566	3,066	NS
	8/12/2022	36	NS					87.3		<10.0	87.3	NS
FS-2	4/7/2022	36	<0.050	<0.050	<0.050	<0.150	<0.300	191		68.5	260	32.0
FS-3	4/7/2022	36	<0.050	<0.050	<0.050	0.525	0.525	4,679		1,010	5,689	16.0
	6/10/2022	36	NS					3,289		684	3,973	NS
	8/12/2022	36	NS					89.0		<10.0	89.0	NS
FS-4	4/7/2022	36	<0.050	<0.050	<0.050	<0.150	<0.300	3,084		657	3,741	16.0
	6/10/2022	36	NS					2,170		514	2,684	NS
	8/12/2022	36	NS					16.0		<10.0	16.0	NS
FS-5	4/7/2022	36	<0.050	0.067	<0.050	<0.150	<0.300	2,948		697	3,645	48.0
	6/10/2022	36	NS					3,271		702	3,973	NS
	8/12/2022	36	NS					53.6		<10.0	53.6	NS
FS-6	4/7/2022	36	<0.050	<0.050	<0.050	0.465	0.465	4,627		1,010	5,637	32.0
	6/10/2022	36	NS					4,797		1,020	5,817	NS
	8/12/2022	36	NS					68.3		<10.0	68.3	NS
FS-7	4/7/2022	36	<0.050	<0.050	<0.050	<0.150	<0.300	2,690		601	3,291	96.0
	6/10/2022	36	NS					2,780		644	3,424	NS
	8/12/2022	36	NS					281		52.3	333	NS
FS-8	4/7/2022	24	<0.050	<0.050	<0.050	0.289	<0.300	968		218	1,186	48.0
FS-9	4/7/2022	12	<0.050	<0.050	0.054	0.617	0.672	4,097		884	4,981	144
	6/10/2022	12	NS					4,090		1,140	5,230	NS
	8/12/2022	12	NS					3,900		879	4,779	NS
	10/13/2022	12	NS					14,800		6,140	20,940	NS
	11/17/2022	12	NS					1,500		428	1,928	NS
FS-10	1/5/2023	12	NS					570		201	771	NS
	4/7/2022	6	<0.050	<0.050	<0.050	0.560	0.560	1,258		248	1,506	32.0
	6/10/2022	6	NS					11,300		3,120	14,420	NS
	8/12/2022	6	NS					2,080		583	2,663	NS
	10/13/2022	6	NS					<10.0		<10.0	<10.0	NS
FS-11	4/7/2022	6	<0.050	<0.050	<0.050	1.36	1.36	5,989		1,200	7,189	80.0
	6/10/2022	6	NS					6,297		1,320	7,617	NS
	8/12/2022	6	NS					199		36.0	235	NS
FS-12	4/7/2022	2	<0.050	<0.050	<0.050	<0.150	<0.300	598		266	864	1,090
FS-13	4/7/2022	2	<0.050	<0.050	<0.050	<0.150	<0.300	14.3		<10.0	14.3	704
FS-14	4/7/2022	2	<0.050	<0.050	<0.050	<0.150	<0.300	28.8		<10.0	28.8	336
FS-15	4/7/2022	3	<0.100	3.90	1.51	14.8	20.2	4,855		1,470	6,325	304
	6/10/2022	3	NS					5,190		1,520	6,710	NS
	8/12/2022	3	NS					1,060		286	1,346	NS
	10/13/2022	3	NS					188		85.0	273	NS
FS-16	4/7/2022	3	<0.050	<0.050	<0.050	0.371	0.371	6,359		1,300	7,659	48.0
	6/10/2022	3	NS					5,550		1,460	7,010	NS
	8/12/2022	3	NS					1,980		461	2,441	NS
	10/13/2022	3	NS					297		121	418	NS

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Corral Canyon 36 - 25 CTB  
 Oxy USA Inc.  
 Eddy County, New Mexico  
 Ensolum Project No. 03B1417028

Sample Designation	Date	Depth (inches 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 (> 100 feet)			10	NE	NE	NE	50	1,000		NE	2,500	20,000
Sidewall Sample Analytical Results												
N-SW-1	4/7/2022	0 - 36	<0.050	<b>0.060</b>	<0.050	<0.150	<0.300	<b>1,190</b>		279	<b>1,469</b>	<b>80.0</b>
	6/10/2022	0 - 36			NS			<b>588</b>		184	<b>772</b>	NS
N-SW-2	4/7/2022	0 - 6	<0.050	<0.050	<0.050	<0.150	<0.300	<b>2,700</b>		772	<b>3,472</b>	288
	6/10/2022	0 - 6			NS			<b>7,661</b>		1,630	<b>9,291</b>	NS
	8/12/2022	0 - 6			NS			<b>4,380</b>		1,010	<b>5,390</b>	NS
	10/13/2022	0 - 6			NS			<b>345</b>		115	<b>460</b>	NS
E-SW-1	4/7/2022	0 - 36	<0.050	<0.050	<0.050	<0.150	<0.300	<b>2,031</b>		531	<b>2,562</b>	<b>32.0</b>
	6/10/2022	0 - 36			NS			<b>617</b>		154	<b>771</b>	NS
E-SW-2	4/7/2022	0 - 24	<0.050	<0.050	<0.050	<b>0.867</b>	<b>0.867</b>	<b>5,085</b>		1,070	<b>6,155</b>	<b>64.0</b>
	6/10/2022	0 - 24			NS			<b>5,182</b>		1,120	<b>6,302</b>	NS
	8/12/2022	0 - 24			NS			<b>925</b>		193	<b>1,118</b>	NS
S-SW-1	4/7/2022	0 - 36	<0.050	<0.050	<b>0.066</b>	<b>0.771</b>	<b>0.837</b>	<b>1,931</b>		417	<b>2,348</b>	<b>32.0</b>
	6/10/2022	0 - 36			NS			<b>913</b>		198	<b>1,111</b>	NS
S-SW-2	4/7/2022	0 - 12	<0.050	<b>0.062</b>	<0.050	<b>0.818</b>	<b>0.880</b>	<b>8,840</b>		1,950	<b>10,790</b>	<b>48.0</b>
	6/10/2022	0 - 12			NS			<b>3,172</b>		693	<b>3,865</b>	NS
	8/12/2022	0 - 12			NS			<b>3,170</b>		706	<b>3,876</b>	NS
	10/13/2022	0 - 12			NS			<b>1,330</b>		570	<b>1,900</b>	NS
	11/17/2022	0 - 12			NS			<b>1,770</b>		487	<b>2,257</b>	NS
	1/5/2023	0 - 12			NS			<b>111</b>		26.1	<b>137</b>	NS
W-SW-1	4/7/2022	0 - 36	<0.050	<0.050	<0.050	<0.150	<0.300	<b>1,600</b>		493	<b>2,093</b>	<b>96.0</b>
	6/10/2022	0 - 36			NS			<b>128</b>		35.1	<b>163</b>	NS
W-SW-2	4/7/2022	0 - 36	<0.050	<0.050	<0.050	<b>0.155</b>	<0.300	<b>3,489</b>		869	<b>4,358</b>	<b>80.0</b>
	6/10/2022	0 - 36			NS			<b>2,850</b>		649	<b>3,499</b>	NS
	8/12/2022	0 - 36			NS			<b>524</b>		107	<b>631</b>	NS
Former Stockpile Location Sample Analytical Results												
STP-1	3/29/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		10.7	<b>10.7</b>	<b>80.0</b>
STP-2	3/29/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<b>23.1</b>		<10.0	<b>23.1</b>	<b>96.0</b>
STP-3	3/29/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0		<10.0	<10.0	<b>144</b>
STP-4	3/29/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<b>12.7</b>		<10.0	<b>12.7</b>	<b>96.0</b>

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

 Additional Excavation Conducted and/or Re-Sampled

bgs: below ground surface

J: The target analyte was positively identified below the quantitation limit and above the detection limit.

mg/kg: milligrams per kilogram

NE: Not Established

NS: Not Sampled

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon





## APPENDIX E

### Laboratory Data Sheets and Chain-of-Custody Documentation



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

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April 14, 2022

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

RE: CORRAL CANYON 36 - 25 CTB

Enclosed are the results of analyses for samples received by the laboratory on 04/08/22 9:31.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 1 3' (H221435-01)**

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2022	ND	1.91	95.4	2.00	8.47	
Toluene*	0.055	0.050	04/12/2022	ND	1.91	95.3	2.00	8.59	
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	1.82	90.8	2.00	8.70	
Total Xylenes*	0.231	0.150	04/12/2022	ND	5.66	94.3	6.00	8.59	
Total BTEX	<0.300	0.300	04/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/12/2022	ND	416	104	400	0.00		

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	20.9	10.0	04/12/2022	ND	189	94.7	200	0.117	
DRO >C10-C28*	2930	10.0	04/12/2022	ND	187	93.4	200	2.88	
EXT DRO >C28-C36	577	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 182 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 2 3' (H221435-02)**

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2022	ND	1.91	95.4	2.00	8.47		
Toluene*	<0.050	0.050	04/12/2022	ND	1.91	95.3	2.00	8.59		
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	1.82	90.8	2.00	8.70		
Total Xylenes*	<0.150	0.150	04/12/2022	ND	5.66	94.3	6.00	8.59		
Total BTEX	<0.300	0.300	04/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/12/2022	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	04/12/2022	ND	189	94.7	200	0.117	
DRO >C10-C28*	191	10.0	04/12/2022	ND	187	93.4	200	2.88	
EXT DRO >C28-C36	68.5	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 98.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 3 3' (H221435-03)**

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2022	ND	1.91	95.4	2.00	8.47	
Toluene*	<0.050	0.050	04/12/2022	ND	1.91	95.3	2.00	8.59	
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	1.82	90.8	2.00	8.70	
Total Xylenes*	0.525	0.150	04/12/2022	ND	5.66	94.3	6.00	8.59	
Total BTEX	0.525	0.300	04/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/12/2022	ND	416	104	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	38.9	10.0	04/12/2022	ND	189	94.7	200	0.117	
DRO >C10-C28*	4640	10.0	04/12/2022	ND	187	93.4	200	2.88	
EXT DRO >C28-C36	1010	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 156 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 4 3' (H221435-04)**

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2022	ND	1.91	95.4	2.00	8.47		
Toluene*	<0.050	0.050	04/12/2022	ND	1.91	95.3	2.00	8.59		
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	1.82	90.8	2.00	8.70		
Total Xylenes*	<0.150	0.150	04/12/2022	ND	5.66	94.3	6.00	8.59		
Total BTX	<0.300	0.300	04/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/12/2022	ND	416	104	400	0.00		

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	14.2	10.0	04/12/2022	ND	189	94.7	200	0.117	
DRO >C10-C28*	3070	10.0	04/12/2022	ND	187	93.4	200	2.88	
EXT DRO >C28-C36	657	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 201 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 5 3' (H221435-05)**

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2022	ND	1.91	95.4	2.00	8.47		
<b>Toluene*</b>	<b>0.067</b>	0.050	04/12/2022	ND	1.91	95.3	2.00	8.59		
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	1.82	90.8	2.00	8.70		
Total Xylenes*	<0.150	0.150	04/12/2022	ND	5.66	94.3	6.00	8.59		
Total BTEX	<0.300	0.300	04/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/12/2022	ND	416	104	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	18.2	10.0	04/12/2022	ND	189	94.7	200	0.117	
DRO >C10-C28*	2930	10.0	04/12/2022	ND	187	93.4	200	2.88	
EXT DRO >C28-C36	697	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 312 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 6 3' (H221435-06)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2022	ND	1.91	95.4	2.00	8.47		
Toluene*	<0.050	0.050	04/12/2022	ND	1.91	95.3	2.00	8.59		
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	1.82	90.8	2.00	8.70		
Total Xylenes*	0.465	0.150	04/12/2022	ND	5.66	94.3	6.00	8.59		
Total BTEx	0.465	0.300	04/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/12/2022	ND	416	104	400	0.00		

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	47.0	10.0	04/12/2022	ND	189	94.7	200	0.117	
DRO >C10-C28*	4580	10.0	04/12/2022	ND	187	93.4	200	2.88	
EXT DRO >C28-C36	1010	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 128 % 66.9-136

Surrogate: 1-Chlorooctadecane 328 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
BEAUX JENNINGS  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received: 04/08/2022  
Reported: 04/14/2022  
Project Name: CORRAL CANYON 36 - 25 CTB  
Project Number: 03B1417028  
Project Location: OXY

Sampling Date: 04/07/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 7 3' (H221435-07)**

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2022	ND	1.91	95.4	2.00	8.47		
Toluene*	<0.050	0.050	04/12/2022	ND	1.91	95.3	2.00	8.59		
Ethylbenzene*	<0.050	0.050	04/12/2022	ND	1.82	90.8	2.00	8.70		
Total Xylenes*	<0.150	0.150	04/12/2022	ND	5.66	94.3	6.00	8.59		
Total BTX	<0.300	0.300	04/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2022	ND	205	102	200	6.56	
DRO >C10-C28*	2690	10.0	04/12/2022	ND	217	108	200	2.94	QM-07
EXT DRO >C28-C36	601	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 91.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 324 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 8 2' (H221435-08)**

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.79	
Toluene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.33	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.01	101	2.00	1.85	
<b>Total Xylenes*</b>	<b>0.289</b>	0.150	04/13/2022	ND	6.26	104	6.00	1.24	
Total BTEX	<0.300	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2022	ND	205	102	200	6.56	
DRO >C10-C28*	968	10.0	04/12/2022	ND	217	108	200	2.94	
EXT DRO >C28-C36	218	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 97.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 177 % 59.5-142

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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 9 1' (H221435-09)**

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.79	
Toluene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.33	
Ethylbenzene*	0.054	0.050	04/13/2022	ND	2.01	101	2.00	1.85	
Total Xylenes*	0.617	0.150	04/13/2022	ND	6.26	104	6.00	1.24	
Total BTEX	0.672	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/12/2022	ND	416	104	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	26.6	10.0	04/12/2022	ND	205	102	200	6.56	
DRO >C10-C28*	4070	10.0	04/12/2022	ND	217	108	200	2.94	
EXT DRO >C28-C36	884	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 431 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 10 6" (H221435-10)**

BTEx 8021B		mg/kg	Analyzed By: MS/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.79	
Toluene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.33	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.01	101	2.00	1.85	
<b>Total Xylenes*</b>	<b>0.560</b>	0.150	04/13/2022	ND	6.26	104	6.00	1.24	
<b>Total BTEX</b>	<b>0.560</b>	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 149 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	04/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>17.7</b>	10.0	04/12/2022	ND	205	102	200	6.56	
<b>DRO &gt;C10-C28*</b>	<b>1240</b>	10.0	04/12/2022	ND	217	108	200	2.94	
<b>EXT DRO &gt;C28-C36</b>	<b>248</b>	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 87.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 193 % 59.5-142

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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 11 6" (H221435-11)**

BTEx 8021B		mg/kg	Analyzed By: MS/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.79	
Toluene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.33	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.01	101	2.00	1.85	
<b>Total Xylenes*</b>	<b>1.36</b>	0.150	04/13/2022	ND	6.26	104	6.00	1.24	
<b>Total BTEX</b>	<b>1.36</b>	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 168 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	04/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>68.9</b>	10.0	04/12/2022	ND	205	102	200	6.56	
<b>DRO &gt;C10-C28*</b>	<b>5920</b>	10.0	04/12/2022	ND	217	108	200	2.94	
<b>EXT DRO &gt;C28-C36</b>	<b>1200</b>	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 140 % 66.9-136

Surrogate: 1-Chlorooctadecane 623 % 59.5-142

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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 12 2" (H221435-12)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.79		
Toluene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.33		
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.01	101	2.00	1.85		
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.26	104	6.00	1.24		
Total BTEX	<0.300	0.300	04/13/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	04/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2022	ND	205	102	200	6.56	
DRO >C10-C28*	598	10.0	04/12/2022	ND	217	108	200	2.94	
EXT DRO >C28-C36	266	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 80.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 166 % 59.5-142

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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 13 2" (H221435-13)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.79		
Toluene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.33		
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.01	101	2.00	1.85		
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.26	104	6.00	1.24		
Total BTEX	<0.300	0.300	04/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	04/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2022	ND	205	102	200	6.56	
DRO >C10-C28*	14.3	10.0	04/12/2022	ND	217	108	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 73.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.4 % 59.5-142

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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 14 2" (H221435-14)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.79		
Toluene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.33		
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.01	101	2.00	1.85		
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.26	104	6.00	1.24		
Total BTEX	<0.300	0.300	04/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2022	ND	205	102	200	6.56	
DRO >C10-C28*	28.8	10.0	04/12/2022	ND	217	108	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 77.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.3 % 59.5-142

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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 15 3" (H221435-15)**

BTEx 8021B		mg/kg	Analyzed By: MS/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	04/13/2022	ND	2.11	105	2.00	1.79	
Toluene*	3.90	0.100	04/13/2022	ND	2.11	105	2.00	1.33	
Ethylbenzene*	1.51	0.100	04/13/2022	ND	2.01	101	2.00	1.85	
Total Xylenes*	14.8	0.300	04/13/2022	ND	6.26	104	6.00	1.24	
Total BTEX	20.2	0.600	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 144 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	255	10.0	04/13/2022	ND	189	94.7	200	0.117	
DRO >C10-C28*	4600	10.0	04/13/2022	ND	187	93.4	200	2.88	
EXT DRO >C28-C36	1470	10.0	04/13/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 173 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 16 3" (H221435-16)**

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.79		
Toluene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.33		
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.01	101	2.00	1.85		
Total Xylenes*	0.371	0.150	04/13/2022	ND	6.26	104	6.00	1.24		
Total BTEX	0.371	0.300	04/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 131 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/12/2022	ND	400	100	400	3.92		

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	28.8	10.0	04/12/2022	ND	205	102	200	6.56	
DRO >C10-C28*	6330	10.0	04/12/2022	ND	217	108	200	2.94	
EXT DRO >C28-C36	1300	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 370 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
BEAUX JENNINGS  
705 W WADLEY AVE.  
MIDLAND TX, 79705  
Fax To:

Received: 04/08/2022  
Reported: 04/14/2022  
Project Name: CORRAL CANYON 36 - 25 CTB  
Project Number: 03B1417028  
Project Location: OXY

Sampling Date: 04/07/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: N - SW - 1 0-3' (H221435-17)**

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.79		
<b>Toluene*</b>	<b>0.060</b>	0.050	04/13/2022	ND	2.11	105	2.00	1.33		
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.01	101	2.00	1.85		
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.26	104	6.00	1.24		
Total BTEX	<0.300	0.300	04/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2022	ND	205	102	200	6.56	
DRO >C10-C28*	1190	10.0	04/12/2022	ND	217	108	200	2.94	
EXT DRO >C28-C36	279	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 136 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: E - SW - 1 0-3' (H221435-18)**

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.79	
Toluene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.33	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.01	101	2.00	1.85	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.26	104	6.00	1.24	
Total BTEX	<0.300	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/12/2022	ND	400	100	400	3.92	

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.5	10.0	04/12/2022	ND	189	94.7	200	0.117	
DRO >C10-C28*	2020	10.0	04/12/2022	ND	187	93.4	200	2.88	
EXT DRO >C28-C36	531	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 95.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 155 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W - SW - 1 0-3' (H221435-19)**

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.79		
Toluene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.33		
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.01	101	2.00	1.85		
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.26	104	6.00	1.24		
Total BTX	<0.300	0.300	04/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2022	ND	189	94.7	200	0.117	
DRO >C10-C28*	1600	10.0	04/12/2022	ND	187	93.4	200	2.88	
EXT DRO >C28-C36	493	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 133 % 59.5-142

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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - SW - 1 0-3' (H221435-20)**

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.79	
Toluene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.33	
Ethylbenzene*	0.066	0.050	04/13/2022	ND	2.01	101	2.00	1.85	
Total Xylenes*	0.771	0.150	04/13/2022	ND	6.26	104	6.00	1.24	
Total BTEX	0.837	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	31.1	10.0	04/12/2022	ND	189	94.7	200	0.117	
DRO >C10-C28*	1900	10.0	04/12/2022	ND	187	93.4	200	2.88	
EXT DRO >C28-C36	417	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 85.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 138 % 59.5-142

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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W - SW - 2 0-3' (H221435-21)**

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.79	
Toluene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.33	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.01	101	2.00	1.85	
<b>Total Xylenes*</b>	<b>0.155</b>	0.150	04/13/2022	ND	6.26	104	6.00	1.24	
Total BTEX	<0.300	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	18.9	10.0	04/12/2022	ND	189	94.7	200	0.117	
DRO >C10-C28*	3470	10.0	04/12/2022	ND	187	93.4	200	2.88	
EXT DRO >C28-C36	869	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 99.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 137 % 59.5-142

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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: E - SW - 2 0-2' (H221435-22)**

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.79		
Toluene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.33		
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.01	101	2.00	1.85		
Total Xylenes*	0.867	0.150	04/13/2022	ND	6.26	104	6.00	1.24		
Total BTEX	0.867	0.300	04/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/12/2022	ND	400	100	400	3.92		

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	55.4	10.0	04/12/2022	ND	189	94.7	200	0.117	
DRO >C10-C28*	5030	10.0	04/12/2022	ND	187	93.4	200	2.88	
EXT DRO >C28-C36	1070	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 169 % 59.5-142

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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - SW - 2 0-1' (H221435-23)**

BTEx 8021B		mg/kg	Analyzed By: MS/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.79	
<b>Toluene*</b>	<b>0.062</b>	0.050	04/13/2022	ND	2.11	105	2.00	1.33	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.01	101	2.00	1.85	
<b>Total Xylenes*</b>	<b>0.818</b>	0.150	04/13/2022	ND	6.26	104	6.00	1.24	
<b>Total BTEX</b>	<b>0.880</b>	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 161 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	04/12/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>100</b>	10.0	04/12/2022	ND	189	94.7	200	0.117	
<b>DRO &gt;C10-C28*</b>	<b>8740</b>	10.0	04/12/2022	ND	187	93.4	200	2.88	
<b>EXT DRO &gt;C28-C36</b>	<b>1950</b>	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 138 % 66.9-136

Surrogate: 1-Chlorooctadecane 605 % 59.5-142

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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 04/08/2022  
 Reported: 04/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY

Sampling Date: 04/07/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: N - SW - 2 0-6" (H221435-24)**

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.79	
Toluene*	<0.050	0.050	04/13/2022	ND	2.11	105	2.00	1.33	
Ethylbenzene*	<0.050	0.050	04/13/2022	ND	2.01	101	2.00	1.85	
Total Xylenes*	<0.150	0.150	04/13/2022	ND	6.26	104	6.00	1.24	
Total BTX	<0.300	0.300	04/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	04/12/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2022	ND	193	96.6	200	1.42	
DRO >C10-C28*	2700	10.0	04/12/2022	ND	207	104	200	3.08	QM-07
EXT DRO >C28-C36	772	10.0	04/12/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 129 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> <i>Enbolum, LLC</i> <b>Project Manager:</b> <i>Kevin Sammons</i> <b>Address:</b> <i>705 W. Woodley Ave</i> <b>City:</b> <i>Midland</i> <b>State:</b> <i>TX</i> <b>Zip:</b> <i>79705</i> <b>Phone #:</b> <i>210 219 8858</i> <b>Fax #:</b> _____ <b>Project #:</b> <i>03B1417028</i> <b>Project Owner:</b> _____ <b>Project Name:</b> <i>Coma1 Canyon 36-25 CTB</i> <b>Project Location:</b> _____ <b>Sampler Name:</b> <i>Arran Macque</i> <b>Fax #:</b> _____				<b>BILL TO</b> <b>P.O. #:</b> <i>03B1417028</i> <b>Company:</b> <i>Enbolum, LLC</i> <b>Attn:</b> _____ <b>Address:</b> <i>705 W. Woodley</i> <b>City:</b> <i>Midland</i> <b>State:</b> <i>TX</i> <b>Zip:</b> <i>79705</i> <b>Phone #:</b> <i>210 219 8858</i> <b>Fax #:</b> _____				<b>ANALYSIS REQUEST</b>			
FOR LAB USE ONLY											
<b>Lab I.D.</b> <b>Sample I.D.</b> <i>#081435</i> 1 2 3 4 5 6 7 8 9 10	FS-1	FS-2	FS-3	FS-4	FS-5	FS-6	FS-7	FS-8	FS-9	FS-10	
	Depth: 3'										
	(G)RAB OR (C)OMP										
	# CONTAINERS										
	GROUNDWATER										
	WASTEWATER										
	SOIL										
	OIL										
	SLUDGE										
	OTHER :										
	ACID/BASE:										
ICE / COOL											
OTHER :											
DATE	TIME	BTX #8021B		TPH #8015M		Chloride #4500					
4-7-22	1344	X	X	X							
	1357	X	X	X							
	1345	X	X	X							
	1400	X	X	X							
	1408	X	X	X							
	1347	X	X	X							
	1448	X	X	X							
	1509	X	X	X							
	1526	X	X	X							
	1530	X	X	X							

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<b>Relinquished By:</b> <i>[Signature]</i> <b>Date:</b> <i>4-8-23</i> <b>Time:</b> <i>0831</i> <b>Relinquished By:</b> <i>[Signature]</i>	<b>Received By:</b> <i>[Signature]</i> <b>Date:</b> <i>04-08-23</i> <b>Time:</b> <i>0831</i> <b>Received By:</b> <i>[Signature]</i>	<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> _____ <b>All Results are emailed. Please provide Email address:</b> _____ <b>REMARKS:</b> _____
--	--	--

<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other: _____ <b>Observed Temp. °C:</b> <i>35.2</i> <b>Corrected Temp. °C:</b> <i>3.02</i> <b>Sample Condition:</b> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <b>CHECKED BY:</b> <i>[Signature]</i> (Initials) <b>Turnaround Time:</b> _____ <b>Thermometer ID #113</b> <b>Correction Factor -0.5°C</b>	<b>Standard</b> <input checked="" type="checkbox"/> <b>Bacteria (only)</b> <input type="checkbox"/> <b>Rush</b> <input type="checkbox"/> <b>Cool Intact</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> <b>Sample Condition</b> Observed Temp. °C _____ Corrected Temp. °C _____
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com





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(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> <u>Medium, LLC</u> <b>Project Manager:</b> <u>Beaur Jennings</u> <b>Address:</b> <u>765 W. Woodley Ave</u> <b>City:</b> <u>Midland</u> <b>State:</b> <u>TX</u> <b>Zip:</b> <u>79705</u> <b>Phone #:</b> <u>210 219 8858</u> <b>Fax #:</b> _____ <b>Project #:</b> <u>03B/417028</u> <b>Project Owner:</b> _____ <b>Project Name:</b> <u>Lornal Canyon 36-25 CTB</u> <b>Project Location:</b> _____ <b>Sampler Name:</b> <u>Karon Mayquez</u> <b>FOR LAB USE ONLY</b>		<b>BILL TO</b> <b>P.O. #:</b> <u>03B/417028</u> <b>Company:</b> <u>Medium, LLC</u> <b>Attn:</b> _____ <b>Address:</b> <u>765 W. Woodley Ave</u> <b>City:</b> <u>Midland</u> <b>State:</b> <u>TX</u> <b>Zip:</b> <u>79705</u> <b>Phone #:</b> <u>210 219 8858</u> <b>Fax #:</b> _____	
<b>Lab I.D.</b> <u>HBX435</u> <b>Sample I.D.</b> _____ <b>DEPT #</b> _____ <b>DATE</b> <u>4-7-22</u> <b>TIME</b> <u>1535</u>		<b>MATRIX</b> <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER : _____ <b>ACID/BASE:</b> _____ <b>ICE / COOL</b> _____ <b>OTHER :</b> _____ <b>PRESERV.</b> _____ <b>SAMPLING</b> _____	
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<b>Relinquished By:</b> <u>[Signature]</u> <b>Date:</b> <u>4-8-22</u> <b>Time:</b> <u>0931</u> <b>Received By:</b> <u>[Signature]</u> <b>Date:</b> _____ <b>Time:</b> _____		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> _____ <b>All Results are emailed. Please provide Email address:</b> _____ <b>REMARKS:</b> _____	
<b>Delivered By:</b> (Circle One) Sampler - UPS - Bus - Other: _____ <b>Observed Temp. °C</b> <u>3.50</u> <b>Corrected Temp. °C</b> <u>3.02</u> <b>Sample Condition</b> <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <b>CHECKED BY:</b> <u>[Signature]</u> <b>Turnaround Time:</b> _____ <b>Thermometer ID #113</b> <b>Correction Factor -0.5°C</b> <b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/> <b>Bacteria (only) Sample Condition</b> <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Observed Temp. °C</b> _____ <b>Corrected Temp. °C</b> _____		<b>FOR LAB USE ONLY</b>	

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

<b>Company Name:</b> ENSOLUN, LLC <b>Project Manager:</b> Beau Jennings <b>Address:</b> 705 W. Woodley Ave <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79705 <b>Phone #:</b> 210 219 8858 <b>Fax #:</b> <b>Project #:</b> 03B1417028 <b>Project Owner:</b> <b>Project Name:</b> Loma Canyon 36-25 C113 <b>Project Location:</b> <b>Sampler Name:</b> Dawn Morqueez		<b>BILL TO</b> <b>P.O. #:</b> 03B1417028 <b>Company:</b> ENSOLUN, LLC <b>Address:</b> 705 W. Woodley Ave <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79705 <b>Phone #:</b> 210 219 8858 <b>Fax #:</b>		<b>ANALYSIS REQUEST</b>	
<b>FOR LAB USE ONLY</b> <b>Lab I.D.</b> <b>Sample I.D.</b>		<b>MATRIX</b> (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		<b>PRESERV.</b> ACID/BASE: ICE / COOL OTHER:	
Date: 4-8-22 Time: 0931 Relinquished By: [Signature] Received By: [Signature]		DATE TIME		ANALYSIS REQUEST	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: 3.52 Corrected Temp. °C: 3.02		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Turnaround Time:		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Observed Temp. °C:	
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:		All Results are emailed. Please provide Email address:		Corrected Temp. °C:	



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June 14, 2022

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

RE: CORRAL CANYON 36 - 25 CTB

Enclosed are the results of analyses for samples received by the laboratory on 06/10/22 13:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/10/2022  
 Reported: 06/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 06/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 1 36" (H222495-01)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2022	ND	196	97.8	200	0.461	
<b>DRO &gt;C10-C28*</b>	<b>2500</b>	10.0	06/11/2022	ND	190	95.1	200	0.158	
<b>EXT DRO &gt;C28-C36</b>	<b>566</b>	10.0	06/11/2022	ND					

Surrogate: 1-Chlorooctane 123 % 66.9-136

Surrogate: 1-Chlorooctadecane 200 % 59.5-142

**Sample ID: FS - 3 36" (H222495-02)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	19.3	10.0	06/11/2022	ND	196	97.8	200	0.461	
<b>DRO &gt;C10-C28*</b>	<b>3270</b>	10.0	06/11/2022	ND	190	95.1	200	0.158	
<b>EXT DRO &gt;C28-C36</b>	<b>684</b>	10.0	06/11/2022	ND					

Surrogate: 1-Chlorooctane 123 % 66.9-136

Surrogate: 1-Chlorooctadecane 222 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/10/2022  
 Reported: 06/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 06/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 4 36" (H222495-03)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2022	ND	196	97.8	200	0.461	
<b>DRO &gt;C10-C28*</b>	<b>2170</b>	10.0	06/11/2022	ND	190	95.1	200	0.158	
<b>EXT DRO &gt;C28-C36</b>	<b>514</b>	10.0	06/11/2022	ND					
Surrogate: 1-Chlorooctane	107 %	66.9-136							
Surrogate: 1-Chlorooctadecane	172 %	59.5-142							

**Sample ID: FS - 5 36" (H222495-04)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	20.7	10.0	06/11/2022	ND	196	97.8	200	0.461	
<b>DRO &gt;C10-C28*</b>	<b>3250</b>	10.0	06/11/2022	ND	190	95.1	200	0.158	
<b>EXT DRO &gt;C28-C36</b>	<b>702</b>	10.0	06/11/2022	ND					
Surrogate: 1-Chlorooctane	140 %	66.9-136							
Surrogate: 1-Chlorooctadecane	394 %	59.5-142							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/10/2022  
 Reported: 06/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 06/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 6 36" (H222495-05)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	26.7	10.0	06/11/2022	ND	196	97.8	200	0.461	
DRO >C10-C28*	4770	10.0	06/11/2022	ND	190	95.1	200	0.158	
EXT DRO >C28-C36	1020	10.0	06/11/2022	ND					

Surrogate: 1-Chlorooctane 147 % 66.9-136

Surrogate: 1-Chlorooctadecane 294 % 59.5-142

**Sample ID: FS - 7 36" (H222495-06)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2022	ND	192	96.1	200	0.639	
DRO >C10-C28*	2780	10.0	06/10/2022	ND	185	92.4	200	6.33	QM-07
EXT DRO >C28-C36	644	10.0	06/10/2022	ND					

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 217 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/10/2022  
 Reported: 06/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 06/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 9 12" (H222495-07)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2022	ND	192	96.1	200	0.639	
<b>DRO &gt;C10-C28*</b>	<b>4090</b>	10.0	06/10/2022	ND	185	92.4	200	6.33	
<b>EXT DRO &gt;C28-C36</b>	<b>1140</b>	10.0	06/10/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 297 % 59.5-142

**Sample ID: FS - 10 6" (H222495-08)**

TPH 8015M	mg/kg	Analyzed By: MS						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	06/13/2022	ND	192	96.1	200	0.639	
<b>DRO &gt;C10-C28*</b>	<b>11300</b>	50.0	06/13/2022	ND	185	92.4	200	6.33	
<b>EXT DRO &gt;C28-C36</b>	<b>3120</b>	50.0	06/13/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 1200 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/10/2022  
 Reported: 06/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 06/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 11 6" (H222495-09)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	26.9	10.0	06/10/2022	ND	192	96.1	200	0.639	
DRO >C10-C28*	6270	10.0	06/10/2022	ND	185	92.4	200	6.33	
EXT DRO >C28-C36	1320	10.0	06/10/2022	ND					

Surrogate: 1-Chlorooctane 126 % 66.9-136

Surrogate: 1-Chlorooctadecane 191 % 59.5-142

**Sample ID: FS - 15 3" (H222495-10)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2022	ND	192	96.1	200	0.639	
DRO >C10-C28*	5190	10.0	06/10/2022	ND	185	92.4	200	6.33	
EXT DRO >C28-C36	1520	10.0	06/10/2022	ND					

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 343 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/10/2022  
 Reported: 06/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 06/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS - 16 3" (H222495-11)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2022	ND	192	96.1	200	0.639	
<b>DRO &gt;C10-C28*</b>	<b>5550</b>	10.0	06/10/2022	ND	185	92.4	200	6.33	
<b>EXT DRO &gt;C28-C36</b>	<b>1460</b>	10.0	06/10/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 191 % 59.5-142

**Sample ID: N - SW - 1 0-36" (H222495-12)**

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	06/10/2022	ND	192	96.1	200	0.639	
<b>DRO &gt;C10-C28*</b>	<b>588</b>	10.0	06/10/2022	ND	185	92.4	200	6.33	
<b>EXT DRO &gt;C28-C36</b>	<b>184</b>	10.0	06/10/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/10/2022  
 Reported: 06/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 06/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: N - SW - 2 0-6" (H222495-13)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>21.1</b>	10.0	06/10/2022	ND	192	96.1	200	0.639	
<b>DRO &gt;C10-C28*</b>	<b>7640</b>	10.0	06/10/2022	ND	185	92.4	200	6.33	
<b>EXT DRO &gt;C28-C36</b>	<b>1630</b>	10.0	06/10/2022	ND					

Surrogate: 1-Chlorooctane 130 % 66.9-136

Surrogate: 1-Chlorooctadecane 223 % 59.5-142

**Sample ID: E - SW - 1 0-36" (H222495-14)**

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	06/10/2022	ND	192	96.1	200	0.639	
<b>DRO &gt;C10-C28*</b>	<b>617</b>	10.0	06/10/2022	ND	185	92.4	200	6.33	
<b>EXT DRO &gt;C28-C36</b>	<b>154</b>	10.0	06/10/2022	ND					

Surrogate: 1-Chlorooctane 123 % 66.9-136

Surrogate: 1-Chlorooctadecane 122 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/10/2022  
 Reported: 06/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 06/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: E - SW - 2 0-24" (H222495-15)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	21.5	10.0	06/10/2022	ND	192	96.1	200	0.639	
DRO >C10-C28*	5160	10.0	06/10/2022	ND	185	92.4	200	6.33	
EXT DRO >C28-C36	1120	10.0	06/10/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 309 % 59.5-142

**Sample ID: S - SW - 1 0-36" (H222495-16)**

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	06/10/2022	ND	192	96.1	200	0.639	
DRO >C10-C28*	913	10.0	06/10/2022	ND	185	92.4	200	6.33	
EXT DRO >C28-C36	198	10.0	06/10/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 128 % 59.5-142

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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/10/2022  
 Reported: 06/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 06/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - SW - 2 0-12" (H222495-17)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.6	10.0	06/10/2022	ND	192	96.1	200	0.639	
DRO >C10-C28*	3160	10.0	06/10/2022	ND	185	92.4	200	6.33	
EXT DRO >C28-C36	693	10.0	06/10/2022	ND					

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 239 % 59.5-142

**Sample ID: W - SW - 1 0-36" (H222495-18)**

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	06/11/2022	ND	192	96.1	200	0.639	
DRO >C10-C28*	128	10.0	06/11/2022	ND	185	92.4	200	6.33	
EXT DRO >C28-C36	35.1	10.0	06/11/2022	ND					

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 125 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/10/2022  
 Reported: 06/14/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 06/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W - SW - 2 0-36" (H222495-19)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2022	ND	192	96.1	200	0.639	
<b>DRO &gt;C10-C28*</b>	<b>2850</b>	10.0	06/11/2022	ND	185	92.4	200	6.33	
<b>EXT DRO &gt;C28-C36</b>	<b>649</b>	10.0	06/11/2022	ND					
Surrogate: 1-Chlorooctane	119 %	66.9-136							
Surrogate: 1-Chlorooctadecane	214 %	59.5-142							

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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written in a cursive style.

Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUIREMENTS

192

<b>Company Name:</b> Ensolum, LLC <b>Project Manager:</b> Beaux Jennings <b>Address:</b> 601 N Marlenfeld Street, Suite 400 <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79701 <b>Phone #:</b> 210-219-8858 <b>Fax #:</b> - <b>Project #:</b> 03B1417028 <b>Project Owner:</b> - <b>Project Name:</b> Corral Canyon 36-25 CTB <b>Project Location:</b> Eckly County, NM <b>Sample Name:</b> Kelly Jennings <b>FOR LAB USE ONLY</b>				<b>P.O. #:</b> - <b>Company:</b> Oxy USA Inc. <b>Attn:</b> Wade Dittich <b>Address:</b> - <b>City:</b> - <b>State:</b> - <b>Zip:</b> - <b>Phone #:</b> 575-390-2828 <b>Fax #:</b> -				<b>BILL TO</b> <b>ANALYSIS REQUEST</b>									
<b>Lab I.D.</b> H030495		<b>Sample I.D.</b>		<b>Depth (feet)</b> inches		(G)RAB OR (C)OMP. # CONTAINERS		<b>MATRIX</b> GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		<b>PRESERV.</b> <b>SAMPLING</b>		<b>DATE</b> <b>TIME</b>		TPH 8015 m  N= 06/19/2012 KZ			
<b>PLEASE NOTE:</b> Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																	
<b>Relinquished By:</b> [Signature]				<b>Date:</b> 06/10/2012 <b>Time:</b> 1330				<b>Received By:</b> [Signature]				<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:					
<b>Relinquished By:</b> [Signature]				<b>Date:</b> <b>Time:</b>				<b>Received By:</b>				<b>REMARKS:</b> Jenningsensolum.com					
<b>Delivered By:</b> (Circle One) Sampler - UPS - Bus - Other:				<b>Observed Temp. °C</b> Corrected Temp. °C				<b>Sample Condition</b> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>				<b>CHECKED BY:</b> (Initials)					
<b>Turnaround Time:</b>				<b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/>				<b>Bacteria (only)</b> <input type="checkbox"/> <b>Sample Condition</b> <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>				<b>Thermometer ID #13</b> Correction Factor -0.5°C					



Environment Testing  
TestAmerica

1002262

### Custody Seal

DATE \_\_\_\_\_

SIGNATURE



Environment Testing  
TestAmerica





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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

২০২০

Company Name: Ensolum, LLC						P.O. #: -		ANALYSIS REQUEST							
Project Manager: Beaux Jennings						Company: Oxy USA Inc.									
Address: 601 N Marlenfeld Street, Suite 400						Attn: Wade Dittich									
City: Midland						State: TX Zip: 79701									
Phone #: 210-219-8858						Address: -									
Fax #:						City: -									
Project #: 03B14170A8						Project Owner: -									
Project Name: Lancel Canyon						State: - Zip: -									
Project Location: Eddy County, NM						Phone #: 575-390-2828									
Fax #:						Sample Name: Kelly Lowery									
FOR LAB USE ONLY						(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING	
Lab I.D.						Sample I.D.		Depth (feet) inches		GROUNDWATER		WASTEWATER		SOIL	
										OIL		SLUDGE		OTHER :	
										ACID/BASE:		ICE / COOL		OTHER :	
										DATE		TIME			
H222495						AS-16		3		C 1		X		6-10-22 1046 X TPH 8015 M	
18						M-SW-1		D-36		C 1		X		6-10-22 1045 X	
13						M-SW-2		E-36		C 1		X		6-10-22 1055 X	
14						E-SW-1		O-36		C 1		X		6-10-22 1050 X	
15						E-SW-2		O-24		C 1		X		6-10-22 1053 X	
16						S-SW-1		O-36		C 1		X		6-10-22 1100 X	
17						S-SW-2		O-12		C 1		X		6-10-22 1105 X	
18						M-SW-1		O-36		C 1		X		6-10-22 1110 X	
19						M-SW-2		O-36		C 1		X		6-10-22 1115 X	
						NITE		6-10-22							
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Relinquished By:						Time: 1330		Signature: [Handwritten]		All Results are emailed. Please provide Email address:		REMARKS:		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Delivered By: (Circle One)						Observed Temp.: 24°C		Cool Intact <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Sample Condition <input checked="" type="checkbox"/> Intact <input type="checkbox"/>		CHECKED BY: [Handwritten]		Thermometer ID #113		Bacteria (only) <input checked="" type="checkbox"/> Bacteria <input type="checkbox"/>	
Sampler - UPS - Bus - Other:						Corrected Temp.: 24°C		Cool Intact <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Sample Condition <input checked="" type="checkbox"/> Intact <input type="checkbox"/>		Observed Temp.: 24°C		Corrected Temp.: 24°C		Observed Temp.: 24°C	



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

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August 16, 2022

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

RE: CORRAL CANYON 36 - 25 CTB

Enclosed are the results of analyses for samples received by the laboratory on 08/12/22 14:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 08/12/2022  
 Reported: 08/16/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 08/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 1 36" (H223695-01)**

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	08/16/2022	ND	214	107	200	0.783	
<b>DRO &gt;C10-C28*</b>	<b>87.3</b>	10.0	08/16/2022	ND	245	122	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 76.5 % 43-149

Surrogate: 1-Chlorooctadecane 87.3 % 42.5-161

**Sample ID: FS - 3 36" (H223695-02)**

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	08/16/2022	ND	214	107	200	0.783	
<b>DRO &gt;C10-C28*</b>	<b>89.0</b>	10.0	08/16/2022	ND	245	122	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 89.4 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 08/12/2022  
 Reported: 08/16/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 08/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 4 36" (H223695-03)**

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	08/16/2022	ND	214	107	200	0.783	
<b>DRO &gt;C10-C28*</b>	<b>16.0</b>	10.0	08/16/2022	ND	245	122	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	76.0 %	43-149							
Surrogate: 1-Chlorooctadecane	82.7 %	42.5-161							

**Sample ID: FS - 5 36" (H223695-04)**

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	08/16/2022	ND	214	107	200	0.783	
<b>DRO &gt;C10-C28*</b>	<b>53.6</b>	10.0	08/16/2022	ND	245	122	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					
Surrogate: 1-Chlorooctane	87.0 %	43-149							
Surrogate: 1-Chlorooctadecane	103 %	42.5-161							

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 08/12/2022  
 Reported: 08/16/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 08/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 6 36" (H223695-05)**

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	08/16/2022	ND	214	107	200	0.783	
<b>DRO &gt;C10-C28*</b>	<b>68.3</b>	10.0	08/16/2022	ND	245	122	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					
Surrogate: 1-Chlorooctane	88.9 %	43-149							
Surrogate: 1-Chlorooctadecane	108 %	42.5-161							

**Sample ID: FS - 7 36" (H223695-06)**

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	08/16/2022	ND	214	107	200	0.783	
<b>DRO &gt;C10-C28*</b>	<b>281</b>	10.0	08/16/2022	ND	245	122	200	2.68	
<b>EXT DRO &gt;C28-C36</b>	<b>52.3</b>	10.0	08/16/2022	ND					
Surrogate: 1-Chlorooctane	96.0 %	43-149							
Surrogate: 1-Chlorooctadecane	123 %	42.5-161							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 08/12/2022  
 Reported: 08/16/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 08/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 9 12" (H223695-07)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	ND	214	107	200	0.783	
<b>DRO &gt;C10-C28*</b>	<b>3900</b>	10.0	08/16/2022	ND	245	122	200	2.68	
<b>EXT DRO &gt;C28-C36</b>	<b>879</b>	10.0	08/16/2022	ND					
Surrogate: 1-Chlorooctane	101 %	43-149							
Surrogate: 1-Chlorooctadecane	254 %	42.5-161							

**Sample ID: FS - 10 6" (H223695-08)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	ND	214	107	200	0.783	
<b>DRO &gt;C10-C28*</b>	<b>2080</b>	10.0	08/16/2022	ND	245	122	200	2.68	
<b>EXT DRO &gt;C28-C36</b>	<b>583</b>	10.0	08/16/2022	ND					
Surrogate: 1-Chlorooctane	92.2 %	43-149							
Surrogate: 1-Chlorooctadecane	177 %	42.5-161							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 08/12/2022  
 Reported: 08/16/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 08/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 11 6" (H223695-09)**

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	08/16/2022	ND	214	107	200	0.783	
<b>DRO &gt;C10-C28*</b>	<b>199</b>	10.0	08/16/2022	ND	245	122	200	2.68	
<b>EXT DRO &gt;C28-C36</b>	<b>36.0</b>	10.0	08/16/2022	ND					
Surrogate: 1-Chlorooctane	100 %	43-149							
Surrogate: 1-Chlorooctadecane	122 %	42.5-161							

**Sample ID: FS - 15 3" (H223695-10)**

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	08/16/2022	ND	214	107	200	0.783	
<b>DRO &gt;C10-C28*</b>	<b>1060</b>	10.0	08/16/2022	ND	245	122	200	2.68	
<b>EXT DRO &gt;C28-C36</b>	<b>286</b>	10.0	08/16/2022	ND					
Surrogate: 1-Chlorooctane	92.8 %	43-149							
Surrogate: 1-Chlorooctadecane	156 %	42.5-161							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 08/12/2022  
 Reported: 08/16/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 08/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 16 3" (H223695-11)**

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	ND	214	107	200	0.783	
<b>DRO &gt;C10-C28*</b>	<b>1980</b>	10.0	08/16/2022	ND	245	122	200	2.68	
<b>EXT DRO &gt;C28-C36</b>	<b>461</b>	10.0	08/16/2022	ND					
Surrogate: 1-Chlorooctane	98.9 %	43-149							
Surrogate: 1-Chlorooctadecane	182 %	42.5-161							

**Sample ID: N - SW - 2 0-6" (H223695-12)**

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	ND	214	107	200	0.783	
<b>DRO &gt;C10-C28*</b>	<b>4380</b>	10.0	08/16/2022	ND	245	122	200	2.68	
<b>EXT DRO &gt;C28-C36</b>	<b>1010</b>	10.0	08/16/2022	ND					
Surrogate: 1-Chlorooctane	100 %	43-149							
Surrogate: 1-Chlorooctadecane	449 %	42.5-161							

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 08/12/2022  
 Reported: 08/16/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 08/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E - SW - 2 0-24" (H223695-13)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	ND	214	107	200	0.783	
<b>DRO &gt;C10-C28*</b>	<b>925</b>	10.0	08/16/2022	ND	245	122	200	2.68	
<b>EXT DRO &gt;C28-C36</b>	<b>193</b>	10.0	08/16/2022	ND					
Surrogate: 1-Chlorooctane	97.7 %	43-149							
Surrogate: 1-Chlorooctadecane	165 %	42.5-161							

**Sample ID: W - SW - 2 0-36" (H223695-14)**

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	08/16/2022	ND	214	107	200	0.783	
<b>DRO &gt;C10-C28*</b>	<b>524</b>	10.0	08/16/2022	ND	245	122	200	2.68	
<b>EXT DRO &gt;C28-C36</b>	<b>107</b>	10.0	08/16/2022	ND					
Surrogate: 1-Chlorooctane	104 %	43-149							
Surrogate: 1-Chlorooctadecane	134 %	42.5-161							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 08/12/2022  
 Reported: 08/16/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 08/12/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - SW - 2 0-12" (H223695-15)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	ND	214	107	200	0.783	
<b>DRO &gt;C10-C28*</b>	<b>3170</b>	10.0	08/16/2022	ND	245	122	200	2.68	
<b>EXT DRO &gt;C28-C36</b>	<b>706</b>	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 92.4 % 43-149

Surrogate: 1-Chlorooctadecane 196 % 42.5-161

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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

---

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Ensolum, LLC <b>Project Manager:</b> Beaux Jennings <b>Address:</b> 601 N Marientfield Street, Suite 400 <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79701 <b>Phone #:</b> 210-219-8858 <b>Fax #:</b> <b>Project #:</b> 03B1417028 <b>Project Owner:</b> <b>Project Name:</b> Corral Canyon 36-25 CTB <b>Project Location:</b> Eddy County <b>Sampler Name:</b> Samantha Markowitz <small>FOR LAB USE ONLY</small>				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Oxy USA Inc. <b>Attn:</b> Wade Dittrich <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> 575-390-2828 <b>Fax #:</b>				<b>ANALYSIS REQUEST</b>							
<b>Lab I.D.</b> H223685	<b>Sample I.D.</b>	<b>Depth (feet)</b> inches	<b>(G)RAB OR (C)OMP.</b>	<b># CONTAINERS</b>	<b>MATRIX</b>				<b>PRESERV.</b>	<b>SAMPLING</b>	<b>DATE</b>	<b>TIME</b>	<b>ANALYSIS REQUEST</b>		
					GROUNDWATER	WASTEWATER	SOIL	OIL						SLUDGE	OTHER :
1	FS-1	36	C	1	X							8/12/12	1146	X	<div style="text-align: center;"> TPH 8015 M  -NEF  8/12/12  SUN </div>
2	FS-3	36	C	1	X							8/12/12	1123	X	
3	FS-4	36	C	1	X							8/12/12	1127	X	
4	FS-5	36	C	1	X							8/12/12	1130	X	
5	FS-6	36	C	1	X							8/12/12	1132	X	
6	FS-7	36	C	1	X							8/12/12	1140	X	
7	FS-9	12	C	1	X							8/12/12	1142	X	
8	FS-10	6	C	1	X							8/12/12	1133	X	
9	FS-11	6	C	1	X							8/12/12	1125	X	
10	FS-15	3	C	1	X							8/12/12	1146	X	
<small>PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>															
<b>Relinquished By:</b> <i>[Signature]</i>				<b>Received By:</b> <i>[Signature]</i>				<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: <b>All Results are emailed. Please provide Email address:</b>							
<b>Relinquished By:</b> <i>[Signature]</i>				<b>Received By:</b> <i>[Signature]</i>				<b>REMARKS:</b>							
<b>Delivered By: (Circle One)</b> <b>Sampler - UPS - Bus - Other:</b>				<b>Observed Temp. °C</b> 3.1 <b>Corrected Temp. °C</b> 25				<b>Sample Condition</b> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> <b>Checked By:</b> <i>[Signature]</i> <b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> <b>Thermometer ID #113</b> <b>Corrosion Factor</b> -0.3°C <input checked="" type="checkbox"/> 0.3°C <input type="checkbox"/> <b>Bacteria (only)</b> <input checked="" type="checkbox"/> <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> <b>Sample Condition</b> Observed Temp. °C Corrected Temp. °C							

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



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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>BILL TO</b>		<b>P.O. #:</b>	<b>ANALYSIS REQUEST</b>
<b>Company Name:</b> Ensolum, LLC			
<b>Project Manager:</b> Beaux Jennings			
<b>Address:</b> 601 N Marinfeld Street, Suite 400		<b>Company:</b> Oxy USA Inc.	
<b>City:</b> Midland		<b>Attn:</b> Wade Dittich	
<b>State:</b> TX <b>Zip:</b> 79701			
<b>Phone #:</b> 210-219-8858		<b>Fax #:</b>	
<b>Project #:</b> 03BILV308X		<b>Project Owner:</b>	
<b>Project Name:</b> Corral Canyon 36-25 QTB		<b>City:</b>	
<b>Project Location:</b> Eddy County		<b>State:</b> <b>Zip:</b>	
<b>Sample Name:</b> Sewerline Muckpile		<b>Phone #:</b> 575-390-2828	
<b>FOR LAB USE ONLY</b>		<b>Fax #:</b>	

Lab I.D.	Sample I.D.	Depth <del>(Feet)</del> Inch	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX						DATE	TIME	TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H23A5												
11	FS-16	3	C1	X					8/12/22	1150	X	
12	N-Sw-2	0-6	C1	X					8/12/22	1146	X	
13	E-Sw-2	0-24	C1	X					8/12/22	1153	X	
14	N-Sw-2	0-36	C1	X					8/12/22	1138	X	
15	S-Sw-2	0-12	C1	X					8/12/22	1144	X	
	MFE	8/12/22										

PLEASE NOTE: Liability and Damages. Contractor's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims involving those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: 	Date: 8/12-22 Time: 1412	Received By: 
Relinquished By: 	Date: _____ Time: _____	Received By: 

REMARKS:

Turnaround Time: Standard ☒ Rush ☐

Thermometer ID #113 Correction Factor -0.5°C

Temperature: 70.8/12/22 Bacteria (only) Sample Condition Cool Intact Yes No Corrected Temp. °C

Verbal Result: ☐ Yes ☐ No Add'l Phone #: \_\_\_\_\_

All Results are emailed. Please provide Email address: \_\_\_\_\_



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

October 18, 2022

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

RE: CORRAL CANYON 36 - 25 CTB

Enclosed are the results of analyses for samples received by the laboratory on 10/13/22 13:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 10/13/2022  
 Reported: 10/18/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 10/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 9 12" (H224840-01)**

TPH 8015M	mg/kg	Analyzed By: MS						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	10/18/2022	ND	209	105	200	4.72	
<b>DRO &gt;C10-C28*</b>	<b>14800</b>	100	10/18/2022	ND	190	95.0	200	3.29	
<b>EXT DRO &gt;C28-C36</b>	<b>6140</b>	100	10/18/2022	ND					

Surrogate: 1-Chlorooctane 111 % 45.3-161

Surrogate: 1-Chlorooctadecane 1280 % 46.3-178

**Sample ID: FS - 10 6" (H224840-02)**

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	10/18/2022	ND	209	105	200	4.72	
DRO >C10-C28*	<10.0	10.0	10/18/2022	ND	190	95.0	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	10/18/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161

Surrogate: 1-Chlorooctadecane 137 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 10/13/2022  
 Reported: 10/18/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 10/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 15 3" (H224840-03)**

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	10/17/2022	ND	209	105	200	4.72	
<b>DRO &gt;C10-C28*</b>	<b>188</b>	10.0	10/17/2022	ND	190	95.0	200	3.29	
<b>EXT DRO &gt;C28-C36</b>	<b>85.0</b>	10.0	10/17/2022	ND					
Surrogate: 1-Chlorooctane	102 %	45.3-161							
Surrogate: 1-Chlorooctadecane	143 %	46.3-178							

**Sample ID: FS - 16 3" (H224840-04)**

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	10/17/2022	ND	209	105	200	4.72	
DRO >C10-C28*	297	10.0	10/17/2022	ND	190	95.0	200	3.29	
EXT DRO >C28-C36	121	10.0	10/17/2022	ND					
Surrogate: 1-Chlorooctane	94.5 %	45.3-161							
Surrogate: 1-Chlorooctadecane	144 %	46.3-178							

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 10/13/2022  
 Reported: 10/18/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 10/13/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: N - SW - 2 0-6" (H224840-05)**

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	10/17/2022	ND	209	105	200	4.72	
<b>DRO &gt;C10-C28*</b>	<b>345</b>	10.0	10/17/2022	ND	190	95.0	200	3.29	
<b>EXT DRO &gt;C28-C36</b>	<b>115</b>	10.0	10/17/2022	ND					
Surrogate: 1-Chlorooctane	98.3 %	45.3-161							
Surrogate: 1-Chlorooctadecane	144 %	46.3-178							

**Sample ID: S - SW - 2 0-12" (H224840-06)**

TPH 8015M	mg/kg	Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2022	ND	209	105	200	4.72	
<b>DRO &gt;C10-C28*</b>	<b>1330</b>	10.0	10/17/2022	ND	190	95.0	200	3.29	
<b>EXT DRO &gt;C28-C36</b>	<b>570</b>	10.0	10/17/2022	ND					
Surrogate: 1-Chlorooctane	102 %	45.3-161							
Surrogate: 1-Chlorooctadecane	196 %	46.3-178							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



**(575) 393-2326 FAX (575) 393-2476**

[illegible]

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B.lennings@ensolum.com
REMARKS:

Turnaround Time:	Standard	<input checked="" type="checkbox"/>	Bacteria (only)	Sample Condition
	Rush	<input type="checkbox"/>	Cool intact	Observed Temp. °C
		<input type="checkbox"/>	Yes	

Thermometer ID #719				
Correction Factor -0.5°C	T <sub>a</sub> -16/13/22	<input type="checkbox"/> Yes	No	Corrected Temp. °C



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

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November 22, 2022

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

RE: CORRAL CANYON 36 - 25 CTB

Enclosed are the results of analyses for samples received by the laboratory on 11/18/22 12:32.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene  
Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 11/18/2022  
 Reported: 11/22/2022  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 9 (H225458-01)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2022	ND	189	94.4	200	1.33	
DRO >C10-C28*	1500	10.0	11/18/2022	ND	196	97.9	200	3.50	
EXT DRO >C28-C36	428	10.0	11/18/2022	ND					
Surrogate: 1-Chlorooctane	76.1 %	45.3-161							
Surrogate: 1-Chlorooctadecane	126 %	46.3-178							

**Sample ID: S - SW - 2 (H225458-02)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2022	ND	189	94.4	200	1.33	
DRO >C10-C28*	1770	10.0	11/18/2022	ND	196	97.9	200	3.50	
EXT DRO >C28-C36	487	10.0	11/18/2022	ND					
Surrogate: 1-Chlorooctane	77.5 %	45.3-161							
Surrogate: 1-Chlorooctadecane	134 %	46.3-178							

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Emsblum, LLC <b>Project Manager:</b> Beau Swearing <b>Address:</b> 601 N. Mainfield St, Suite 400 <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79701 <b>Phone #:</b> 210-219-8858 <b>Fax #:</b> <b>Project #:</b> 03B1417028 <b>Project Owner:</b> Dry USA, Inc <b>Project Name:</b> Canal Canyon 36-25 CTB <b>Project Location:</b> Eddy Co., New Mexico <b>Sampler Name:</b> Beau Swearing				<b>P.O. #:</b> <b>Company:</b> Dry USA, Inc. <b>Attn:</b> Wade D. Hirsch <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>											
<b>FOR LAB USE ONLY</b>				<b>LAB I.D.</b>				<b>Sample I.D.</b>							
(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :				MATRIX				PRESERV				SAMPLING			
				DATE				TIME							
Delivered By: (Circle One) Sampler, UPS - Bus - Other:				Observed Temp. °C 4.4 Corrected Temp. °C 3.8				Sample Condition <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: (Initials) T.D.			
Relinquished By: [Signature] Date: 11/18/22 Time: 0905				Received By: [Signature] Date: 11/18/22 Time: 1525				Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:				All Results are emailed. Please provide Email address:			
Relinquished By: [Signature] Date: 11/18/22 Time: 1532				Received By: [Signature] Date: 11/18/22 Time: 1527				REMARKS:				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 Correction Factor -0.5°C			



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

January 06, 2023

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: CORRAL CANYON 36 - 25 CTB

Enclosed are the results of analyses for samples received by the laboratory on 01/05/23 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 01/05/2023  
 Reported: 01/06/2023  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 01/05/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS - 9 12" (H230063-01)**

TPH 8015M	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	227	113	200	4.22	
<b>DRO &gt;C10-C28*</b>	<b>570</b>	10.0	01/06/2023	ND	203	102	200	2.26	
<b>EXT DRO &gt;C28-C36</b>	<b>201</b>	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 161 % 49.1-148

**Sample ID: S - SW - 2 0-12" (H230063-02)**

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	01/06/2023	ND	227	113	200	4.22	
<b>DRO &gt;C10-C28*</b>	<b>111</b>	10.0	01/06/2023	ND	203	102	200	2.26	
<b>EXT DRO &gt;C28-C36</b>	<b>26.1</b>	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Ensolum, LLC <b>Project Manager:</b> Beaux Jennings <b>Address:</b> 601 N Marlenfield Street, Suite 400 <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79701 <b>Phone #:</b> 210-219-8858 <b>Fax #:</b> <b>Project #:</b> 0381417028 <b>Project Owner:</b> B & V <b>Project Name:</b> Corral Canyon 36-25 CBT <b>Project Location:</b> Eddy Co NM <b>Sampler Name:</b> Shana Diller <b>FOR LAB USE ONLY</b>				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Oxy USA Inc. <b>Attn:</b> Wade Dittich <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> 575-390-2828 <b>Fax #:</b>				<b>ANALYSIS REQUEST</b>											
<b>Lab I.D.</b> H2300163		<b>Sample I.D.</b> FS-9 5-SW-2		<b>Depth (feet)</b> 12" 0-12"		<b>(G)RAB OR (C)OMP.</b> C 1 C 1		<b># CONTAINERS</b> 1 1		<b>MATRIX</b> GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		<b>PRESERV.</b> ACID/BASE: ICE / COOL OTHER:		<b>SAMPLING</b> DATE 1-5-23 1-5-23 1-5-23		TIME 1200 1205		TPH 8015m	
<b>Relinquished By:</b> [Signature]		<b>Date:</b> 1-5-23		<b>Time:</b> 1400		<b>Received By:</b> [Signature]		<b>Date:</b> 1-5-23		<b>Time:</b> 1400		<b>Received By:</b> [Signature]		<b>Date:</b> 1-5-23		<b>Time:</b> 1400		<b>Received By:</b> [Signature]	
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:		<b>Observed Temp. °C</b> 22		<b>Corrected Temp. °C</b> 1.6		<b>Sample Condition</b> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		<b>CHECKED BY:</b> (Initials) TS		<b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		<b>Thermometer ID #113</b> Corrected Factor: -0.5°C		<b>Standard</b> Rush		<b>Bacteria (only)</b> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		<b>Sample Condition</b> Observed Temp. °C Corrected Temp. °C	
<b>REMARKS:</b> All Results are emailed. Please provide Email address:																			

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



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

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April 03, 2023

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

RE: CORRAL CANYON 36 - 25 CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/29/23 11:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received:	03/29/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	CORRAL CANYON 36 - 25 CTB	Sampling Condition:	Cool & Intact
Project Number:	03B1417028	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

**Sample ID: STP - 1 0-0.25' (H231425-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	1.88	93.9	2.00	3.23		
Toluene*	<0.050	0.050	03/30/2023	ND	1.85	92.6	2.00	2.63		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.84	91.8	2.00	0.769		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	5.42	90.3	6.00	0.0711		
Total BTEX	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/30/2023	ND	384	96.0	400	8.00		

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	03/30/2023	ND	215	107	200	4.75	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	221	111	200	12.0	
EXT DRO >C28-C36	10.7	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/29/2023  
 Reported: 04/03/2023  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/29/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: STP - 2 0-0.25' (H231425-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	1.88	93.9	2.00	3.23		
Toluene*	<0.050	0.050	03/30/2023	ND	1.85	92.6	2.00	2.63		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.84	91.8	2.00	0.769		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	5.42	90.3	6.00	0.0711		
Total BTEx	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/30/2023	ND	384	96.0	400	8.00		

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	03/31/2023	ND	171	85.5	200	3.94	
DRO >C10-C28*	23.1	10.0	03/31/2023	ND	169	84.3	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/29/2023  
 Reported: 04/03/2023  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/29/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: STP - 3 0-0.25' (H231425-03)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2023	ND	1.88	93.9	2.00	3.23	
Toluene*	<0.050	0.050	03/30/2023	ND	1.85	92.6	2.00	2.63	
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.84	91.8	2.00	0.769	
Total Xylenes*	<0.150	0.150	03/30/2023	ND	5.42	90.3	6.00	0.0711	
Total BTX	<0.300	0.300	03/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/30/2023	ND	384	96.0	400	8.00	

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	03/30/2023	ND	207	103	200	19.4	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	217	108	200	17.4	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 BEAUX JENNINGS  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 03/29/2023  
 Reported: 04/03/2023  
 Project Name: CORRAL CANYON 36 - 25 CTB  
 Project Number: 03B1417028  
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/29/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: STP - 4 0-0.25' (H231425-04)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/30/2023	ND	1.88	93.9	2.00	3.23		
Toluene*	<0.050	0.050	03/30/2023	ND	1.85	92.6	2.00	2.63		
Ethylbenzene*	<0.050	0.050	03/30/2023	ND	1.84	91.8	2.00	0.769		
Total Xylenes*	<0.150	0.150	03/30/2023	ND	5.42	90.3	6.00	0.0711		
Total BTX	<0.300	0.300	03/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/30/2023	ND	384	96.0	400	8.00		

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	03/31/2023	ND	171	85.5	200	3.94	
DRO >C10-C28*	12.7	10.0	03/31/2023	ND	169	84.3	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





---

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---

### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
A-01	CCV failed high. All samples ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



## APPENDIX F

C-141

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	nAB1903659101
District RP	2RP-5221
Facility ID	fAB1903657998
Application ID	pAB1903658089

## Release Notification

### Responsible Party

Responsible Party: Oxy USA Inc.	OGRID: 16696
Contact Name: Wade Dittrich	Contact Telephone: 575-390-2828
Contact email: wade_dittrich@oxy.com	Incident # nAB1903659101
Contact mailing address: PO Box 4294, Houston, TX 77210	

### Location of Release Source

Latitude 32.15888

Longitude -103.93818

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Corral Canyon 36-25 CTB	Site Type: Central Tank Battery
Date Release Discovered: 01/22/2019	API# (if applicable)

Unit Letter	Section	Township	Range	County
K	I	25S	29E	Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls): 100	Volume Recovered (bbls): 80
<input type="checkbox"/> Produced Water	Volume Released (bbls):	Volume Recovered (bbls):
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Compromised seal on circulating pump.



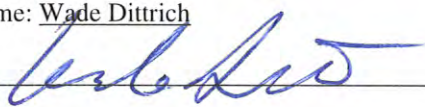
State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2109159441
District RP	2RP-5221
Facility ID	fAB1903657998
Application ID	pAB1903658089

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Yes, the release is greater than 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Wade Dittrich of Oxy to Mike Bratcher and Robert Hamlet of the NMOCD and Shelly Tucker of the BLM via email on 01/23/2019 at 1011.	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Wade Dittrich</u>	Title: <u>Environmental Specialist</u>
Signature: <u></u>	Date: <u>6-1-23</u>
email: <u>wade_dittrich@oxy.com</u>	Telephone: <u>575-390-2828</u>
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____

Incident ID	nAPP2109159441
District RP	2RP-5221
Facility ID	fAB1903657998
Application ID	pAB1903658089

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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



State of New Mexico  
Oil Conservation Division

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Printed Name: Wade Dittrich

Title: Environmental Specialist

Signature: 

Date: 6-1-23

email: wade\_dittrich@oxy.com

Telephone: 575-390-2828

**OCD Only**

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

Date: \_\_\_\_\_

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## Remediation Plan

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

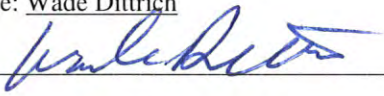
- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: Wade Dittrich Title: Environmental Specialist

Signature:  Date: 6-1-23

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

**OCD Only**

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

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



State of New Mexico  
Oil Conservation Division

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## Closure

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

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

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

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

Printed Name: Wade Dittrich

Title: Environmental Specialist

Signature: \_\_\_\_\_

Date: 6-1-23

email: wade\_dittrich@oxy.com

Telephone: 575-390-2828

**OCD Only**

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

Date: \_\_\_\_\_

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

Closure Approved by: \_\_\_\_\_

Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 222951

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 222951
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral request approved.	8/28/2023