

REVISED CLOSURE REPORT

Property:

Jones Canyon 4 Fed #2

Eddy County, New Mexico 32.41680 N, 104.50244 W NMOCD Incident ID: nLLB0631356160 RP No.: 2RP-524 API No.: 30-015-28779

May 22, 2023 Ensolum Project No. 03B1417035

Prepared for:

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

Prepared by:

Beaux Jennings Senior Project Manager

Chaus

Heather Holthaus Senior Project Manager

Ensolum, LLC | Environmental & Hydrogeologic Consultants 601 N. Marienfeld Street, Suite 400, Midland, Texas 79701 | Office: 972-364-7682

.



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ENSOLUM

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Ensolum Project No. 03B1417035

1.0 INTRODUCTION

1.1 Executive Summary

- On August 10, 2006, a release of produced fluids was reported from a ruptured flowline. Approximately 56 barrels (bbls) of produced fluids were released and mixed with rainwater on-site. A vacuum truck was brought in and recovered approximately 50 bbls of produced fluids and rainwater. Due to the lack of information regarding the release, it is unknown if the impacted soil was remediated at the Jones Canyon 4 Fed #2, hereinafter referred to as the "Site". Based on the lack of remediation information, Oxy USA Inc. (Oxy) contracted Ensolum, LLC (Ensolum) to perform sampling of the approximate spill location at the Site.
- On April 4, 2022, Ensolum arrived on-Site and collected six (6) composite soil samples from three (3) potholes that had been installed in the release area with a backhoe (PH-1, PH-2 and PH-3) at depths of 0.5 to three (3) feet below ground surface (bgs).
- 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 impacted area measured approximately 50 feet long and 12 feet wide at the maximum extents.
 The maximum depth of the impacted area measured approximately two (2) feet bgs.
- A total of six (6) composite soil samples from three (3) locations were collected from the release area. Based on the sample analytical results, composite pothole soil samples PH-1, PH-2 collected at two (2) feet bgs and PH-3 collected at three (3) feet bgs exhibited all results below the applicable NMOCD Closure Criteria, while composite pothole soil samples PH-1, PH-2 and PH-3 collected at 0.5 feet bgs exhibited chloride concentrations above the applicable NMOCD Closure Criteria. Subsequent to the results of the pothole soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal.
- On July 19, 2022, a Closure Report was submitted to the New Mexico EMNRD OCD for approval.
- On February 21, 2023, the New Mexico EMNRD OCD rejected the Closure Report. Steps were subsequently taken by Oxy to address the requirements needed for closure.
- Based on the request from the New Mexico EMNRD OCD, horizontal delineation samples (BG-1 through BG-4) were collected outside of the spill extent on February 27, 2023.

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 In addition, sidewall samples (SW-1 and SW-2) were collected at the request of the New Mexico EMNRD OCD on February 27 and May 1, 2023.

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

1.2 Site Description & Background

Operator:	Oxy USA Inc. (Oxy)
Site Name:	Jones Canyon 4 Fed #2
Location:	32.41680 N, 104.50244 W Eddy County, New Mexico
Property:	Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On August 10, 2006, a release of produced fluids was reported from a ruptured flowline. Approximately 56 bbls of produced fluids were released and mixed with rainwater on-site. A vacuum truck was brought in and recovered approximately 50 bbls of produced fluids and rainwater.

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 ENMRD 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.

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- 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.
- 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 BLM, the Site is located within an unstable area, also referred to as high karst.
- 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					
	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg					
≤ 50 feet	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 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 August 10, 2006, a release of produced fluids was reported from a ruptured flowline. Approximately 56 bbls of produced fluids were released and mixed with rainwater on-site. A vacuum truck was brought in and recovered approximately 50 bbls of produced fluids and rainwater. Due to the lack of information regarding the release, it is unknown if the impacted soil was remediated at the Site. Based on the lack of remediation information, Oxy contracted Ensolum to perform sampling of the approximate spill location at the Site.

On March 24, 2022, Ensolum was contacted by Oxy with the purpose of sampling the area of the release to determine if further excavation was required.

On April 4, 2022, Ensolum arrived on-Site and collected six (6) composite soil samples from three (3) potholes that had been installed in the release area with a backhoe (PH-1, PH-2 and PH-3). The composite soil samples were collected at 0.5 feet bgs, and two (2) or three (3) feet bgs at each pothole location, and were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), motor oil range organics (MRO and chloride in accordance with NMOCD Closure Criteria for Soils Impacted by a Release (NMOCD Closure Criteria). Composite pothole soil samples PH-1, PH-2 and PH-3 collected at 0.5 feet bgs exhibited chloride concentrations above the applicable NMOCD Closure Criteria. Composite pothole soil samples PH-1, PH-2 collected at two (2) feet bgs and PH-3 collected at three (3) feet bgs exhibited all results below the applicable NMOCD Closure Criteria.



Subsequent to the results of the pothole soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal.

On July 19, 2022, a Closure Report was submitted to the New Mexico EMNRD OCD for approval.

On February 21, 2023, the New Mexico EMNRD OCD rejected the Closure Report. Steps were subsequently taken by Oxy to address the requirements needed for closure.

Based on the request from the New Mexico EMNRD OCD, horizontal delineation samples (BG-1 through BG-4) were collected outside of the spill extent on February 27, 2023, at a depth of 0-0.5 foot bgs.

In addition, sidewall samples (SW-1 and SW-2) were collected at the request of the New Mexico EMNRD OCD on February 27 and May 1, 2023. The identified impacted soils were removed and taken off-Site for proper disposal.

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

The impacted area measured approximately 50 feet long and 12 feet wide at the maximum extents. The maximum depth of the impacted area measured approximately two (2) feet bgs.

The lithology encountered during the completion of sampling activities consisted primarily of a well graded silty tan caliche from the surface to two (2) foot bgs, followed by a well graded silty sand from two (2) to three (3) feet bgs.

Figure 3 identifies approximate pothole 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 six composite soil samples from three locations (PH-1, PH-2 and PH-3) and three composite sidewall samples from two locations (SW-1 and SW-2) from the impacted area. In addition, horizontal delineation samples (BG-1 through BG-4) were also collected outside of the spill extent.

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 an expedited 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 (PH-1, PH-2 and PH-3), final composite sidewall samples (SW-1 and SW-2), and horizontal delineation samples (BG-1 through BG-4) to the applicable NMOCD Closure Criteria.

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- Laboratory analytical results indicate benzene concentrations for the final soil samples are below the laboratory sample detection limits (SDLs), which are below the applicable NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicate that total BTEX concentrations for the final soil samples below the laboratory SDLs, which are below the applicable NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the final soil samples are below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 100 mg/kg from ≤50 feet.
- Laboratory analytical results indicate chloride concentrations for the final soil samples are below the applicable NMOCD Closure Criteria of 600 mg/kg from ≤50 feet.

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

7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the pothole soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal. The excavated area was backfilled with clean fill material, topped with gravel, and then contoured to the original surrounding grade.

8.0 FINDINGS AND RECOMMENDATION

- On August 10, 2006, a release of produced fluids was reported from a ruptured flowline. Approximately 56 bbls of produced fluids were released and mixed with rainwater on-site. A vacuum truck was brought in and recovered approximately 50 bbls of produced fluids and rainwater. Due to the lack of information regarding the release, it is unknown if the impacted soil was remediated at the Jones Canyon 4 Fed #2. Based on the lack of remediation information, Oxy contracted Ensolum to perform sampling of the approximate spill location at the Site.
- On April 4, 2022, Ensolum arrived on-Site and collected six (6) composite soil samples from three (3) potholes that had been installed in the release area with a backhoe (PH-1, PH-2 and PH-3) at depths of 0.5 to three (3) feet bgs.
- 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 impacted area measured approximately 50 feet long and 12 feet wide at the maximum extents.
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- A total of six (6) composite soil samples from three (3) locations were collected from the release area. Based on the sample analytical results, composite pothole soil samples PH-1, PH-2 collected at two (2) feet bgs and PH-3 collected at three (3) feet bgs exhibited all results below the applicable NMOCD Closure Criteria, while composite pothole soil samples PH-1, PH-2 and PH-3 collected at 0.5 feet bgs exhibited chloride concentrations above the applicable NMOCD Closure Criteria. Subsequent to the results of the pothole soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal.
- On July 19, 2022, a Closure Report was submitted to the New Mexico EMNRD OCD for approval.
- On February 21, 2023, the New Mexico EMNRD OCD rejected the Closure Report. Steps were subsequently taken by Oxy to address the requirements needed for closure.



- Based on the request from the New Mexico EMNRD OCD, horizontal delineation samples (BG-1 through BG-4) were collected outside of the spill extent on February 27, 2023.
- In addition, sidewall samples (SW-1 and SW-2) were collected at the request of the New Mexico EMNRD OCD on February 27 and May 1, 2023.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Limitations

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

9.3 Reliance

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

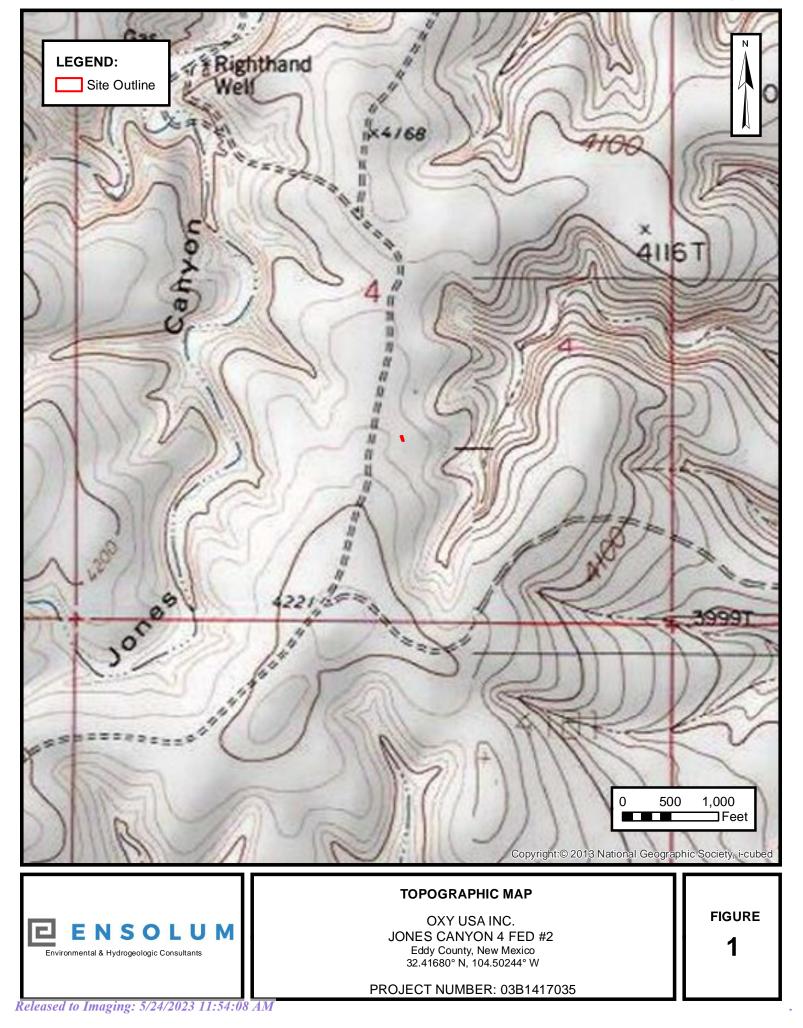


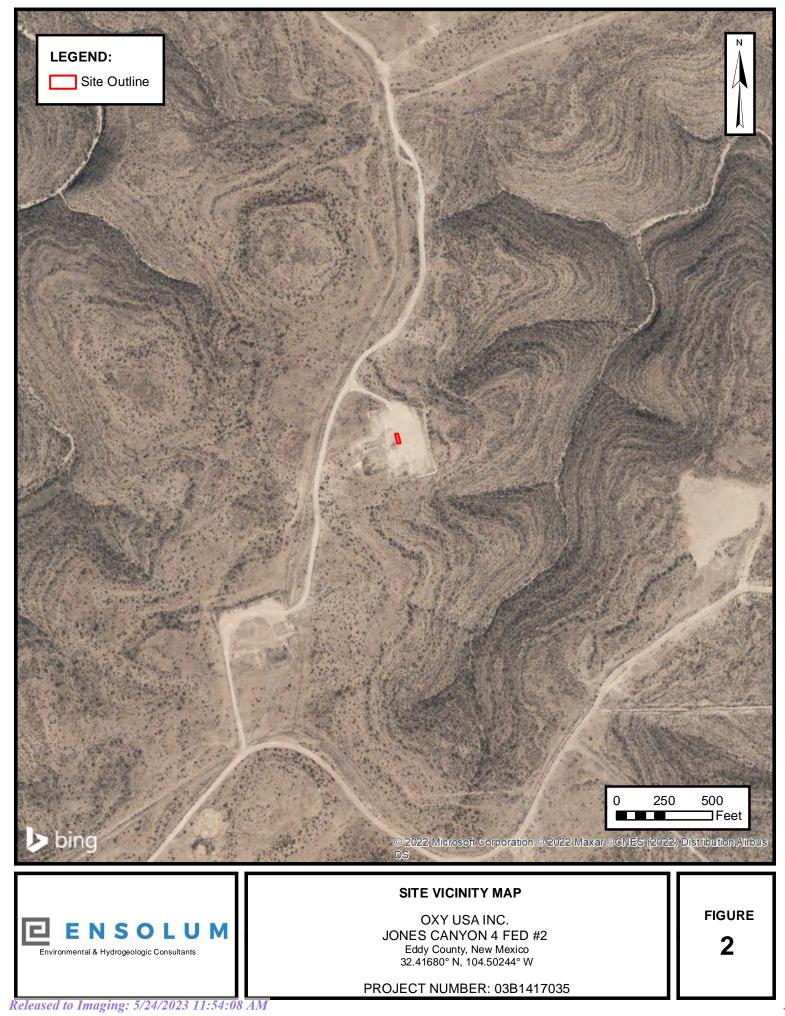
APPENDIX A

Figures

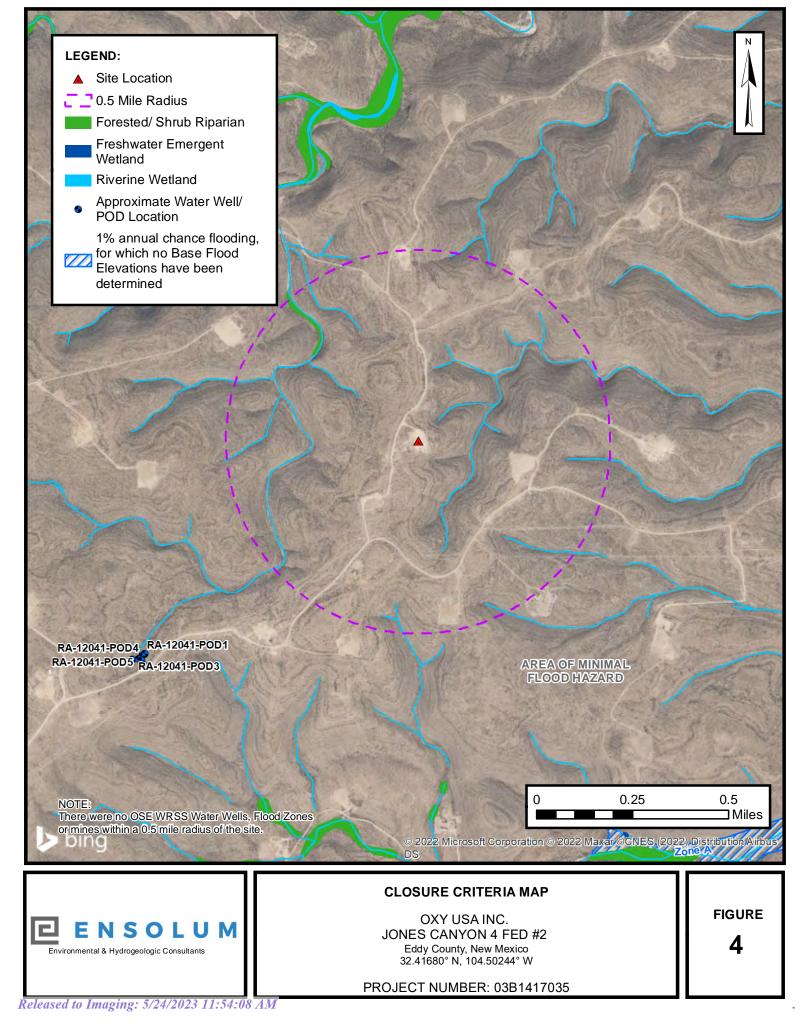
Released to Imaging: 5/24/2023 11:54:08 AM

Received by OCD: 5/22/2023 2:00:30 PM











APPENDIX B

Supporting Documentation

Beaux Jennings

From:	Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov></ocd.enviro@emnrd.nm.gov>
Sent:	Thursday, February 23, 2023 5:13 PM
То:	Beaux Jennings
Subject:	RE: [EXTERNAL] Jones Canyon 4 Federal #2 (2RP-524)

[**EXTERNAL EMAIL**]

Beaux,

As you only provided an RP# and it wasn't associated with an incident, I wasn't sure however there are two open incidents associated with this well. The release I was referring to can be found under <u>NKMW1035650013 2010 MAJOR A SWS @ 30-015-28779</u>. I will go ahead and associate the RP to the incident #.

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

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 http:// www.emnrd.nm.gov



From: Beaux Jennings <bjennings@ensolum.com>
Sent: Thursday, February 23, 2023 9:53 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Jones Canyon 4 Federal #2 (2RP-524)

This one should be Incident # nLLB0631356160. I can't seem to find anything on Incident # NKMW1035650013. Is that an Oxy spill as well?



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

From: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>
Sent: Thursday, February 23, 2023 9:08 AM
To: Beaux Jennings <<u>bjennings@ensolum.com</u>>
Subject: RE: [EXTERNAL] Jones Canyon 4 Federal #2 (2RP-524)

[**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. Is this Release associated with Incident # NKMW1035650013. Thank you for your help.

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 http:// www.emnrd.nm.gov



From: Beaux Jennings <<u>bjennings@ensolum.com</u>> Sent: Wednesday, February 22, 2023 1:40 PM To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>> Subject: [EXTERNAL] Jones Canyon 4 Federal #2 (2RP-524)

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 Jones Canyon 4 Federal #2 (2RP-524) on Monday, February 27, 2023. 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></ocd.enviro@emnrd.nm.gov>
Sent:	Monday, March 20, 2023 11:46 AM
То:	Beaux Jennings
Cc:	Maxwell, Ashley, EMNRD; Bratcher, Michael, EMNRD
Subject:	RE: [EXTERNAL] Jones Canyon 4 Federal #2 (Incident ID # nLLB0631356160)

[**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 http:// www.emnrd.nm.gov



From: Beaux Jennings <bjennings@ensolum.com>
Sent: Friday, March 17, 2023 8:49 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Jones Canyon 4 Federal #2 (Incident ID # nLLB0631356160)

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 Jones Canyon 4 Federal #2 (Incident ID # nLLB0631356160) on Thursday, March 23rd. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



Beaux Jennings

From: Sent:	Hamlet, Robert, EMNRD <robert.hamlet@state.nm.us> Tuesday, April 5, 2022 9:06 AM</robert.hamlet@state.nm.us>
То:	Beaux Jennings
Cc:	Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; Velez, Nelson, EMNRD; Nobui, Jennifer, EMNRD
Subject:	RE: [EXTERNAL] Jones Canyon 4 Federal #2 (2RP-524)

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.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 811 S. First Street | Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Friday, April 1, 2022 3:00 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>
Subject: Fw: [EXTERNAL] Jones Canyon 4 Federal #2 (2RP-524)

From: Beaux Jennings <<u>bjennings@ensolum.com</u>> Sent: Friday, April 1, 2022 2:10 PM To: Enviro, OCD, EMNRD <<u>OCD.Enviro@state.nm.us</u>> Subject: [EXTERNAL] Jones Canyon 4 Federal #2 (2RP-524)

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 provided notification for characterization sampling activities that will be conducted at the Jones Canyon 4 Federal #2 (2RP-524). The characterization samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



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

Beaux Jennings

From:	Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov></ocd.enviro@emnrd.nm.gov>
Sent:	Friday, April 14, 2023 10:44 AM
То:	Beaux Jennings
Cc:	Bratcher, Michael, EMNRD; Maxwell, Ashley, EMNRD
Subject:	RE: [EXTERNAL] Jones Canyon 4 Federal #2 (Incident ID # nLLB0631356160)

[**EXTERNAL EMAIL**]

Beaux,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JΗ

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 http:// www.emnrd.nm.gov



From: Beaux Jennings <bjennings@ensolum.com>
Sent: Friday, April 14, 2023 9:27 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Jones Canyon 4 Federal #2 (Incident ID # nLLB0631356160)

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

Good Morning,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Jones Canyon 4 Federal #2 (Incident ID # nLLB0631356160) on Tuesday, April 18th. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



Beaux Jennings

From:	Dittrich, John W <wade_dittrich@oxy.com></wade_dittrich@oxy.com>
Sent:	Tuesday, February 21, 2023 2:21 PM
То:	Beaux Jennings
Subject:	FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 126941

[**EXTERNAL EMAIL**]

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, February 21, 2023 12:38 PM
To: Dittrich, John W <Wade_Dittrich@oxy.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 126941

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

To whom it may concern (c/o Wade Dittrich for OXY USA INC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nLLB0631356160, for the following reasons:

- Horizontal delineation submitted was incomplete and did not meet the requirements of 19.15.29.11 NMAC. The values for determination of horizontal impact are derived by either approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less. This is especially important for "on-pad" releases to ensure the release did not extend to the "off-pad"/pasture area. A visual footprint on the surface is not sufficient to assess the horizontal extent of the release. Laboratory data must be provided as evidence of delineation efforts. Any sample exceeding approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less requires additional samples for horizontal delineation.
- Confirmation sidewall samples of the excavation are not included in the submitted report.
- Submit a report via the OCD permitting portal by 5/26/2023.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 126941. Please review and make the required correction(s) prior to resubmitting. If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you, Ashley Maxwell Projects Environmental Specialist - A 505-635-5000 Ashley.Maxwell@emnrd.nm.gov

.

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



APPENDIX C

Photographic Documentation



View of release area prior to pothole installation, facing northwest.



View of pothole installations (PH-1, PH-2 and PH-3) within the release area, facing northwest.



View of the final excavation of impacted soils from the release area, facing northwest.



View of the backfilled excavation area, facing northwest.



APPENDIX D

Tables

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Jones Canyon 4 Fed #2 Oxy USA Inc. Eddy County, New Mexico Ensolum Project No. 03B1417035												
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
	Conservation Soils Impacted (≤ 50 feet)	Division Closure by a Release	10	NE	NE	NE	50	NE	NE	NE	100	600
					Pothole	Sample Analyti	cal Results					
PH-1	4/4/2022	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.9	<10.0	16.9	3,760
111-1	4/4/2022	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	469
PH-2	4/4/2022	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	9,330
111-2	-1/-1/2022	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	352
PH-3	4/4/2022	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	3,600
111-5	-1/-1/2022	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	432
	-				Sidewall	Sample Analyt	cal Results					
SW-1	2/27/2023	NA	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	656
911-1	5/1/2023	NA					NS					176
SW-2	2/27/2023	NA	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
Background Sample Analytical Results												
BG-1	2/27/2023	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
BG-2	2/27/2023	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
BG-3	2/27/2023	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
BG-4	2/27/2023	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0

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

Over Ecavated and/or Re-Sampled

bgs: below ground surface

mg/kg: milligrams per kilogram

NA: Not Applicable

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

Received by OCD: 5/22/2023 2:00:30 PM



APPENDIX E

Laboratory Data Sheets and Chain-of-Custody Documentation



April 08, 2022

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

RE: JONES CANYON 4 FED #2

Enclosed are the results of analyses for samples received by the laboratory on 04/06/22 11:40.

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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	04/06/2022	Sampling Date:	04/04/2022
Reported:	04/08/2022	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #2	Sampling Condition:	Cool & Intact
Project Number:	03B1417035	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: PH - 1 0.5' (H221371-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	04/08/2022	ND	1.97	98.7	2.00	8.08	
Toluene*	<0.050	0.050	04/08/2022	ND	1.95	97.3	2.00	8.20	
Ethylbenzene*	<0.050	0.050	04/08/2022	ND	1.84	92.1	2.00	8.69	
Total Xylenes*	<0.150	0.150	04/08/2022	ND	5.74	95.7	6.00	8.61	
Total BTEX	<0.300	0.300	04/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	04/07/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2022	ND	181	90.5	200	0.0127	
DRO >C10-C28*	16.9	10.0	04/07/2022	ND	187	93.3	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2022	ND					
Surrogate: 1-Chlorooctane	90.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	98.5	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/06/2022	Sampling Date:	04/04/2022
Reported:	04/08/2022	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #2	Sampling Condition:	Cool & Intact
Project Number:	03B1417035	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: PH - 1 2' (H221371-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2022	ND	1.97	98.7	2.00	8.08	
Toluene*	<0.050	0.050	04/08/2022	ND	1.95	97.3	2.00	8.20	
Ethylbenzene*	<0.050	0.050	04/08/2022	ND	1.84	92.1	2.00	8.69	
Total Xylenes*	<0.150	0.150	04/08/2022	ND	5.74	95.7	6.00	8.61	
Total BTEX	<0.300	0.300	04/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	04/07/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2022	ND	181	90.5	200	0.0127	
DRO >C10-C28*	<10.0	10.0	04/07/2022	ND	187	93.3	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2022	ND					
Surrogate: 1-Chlorooctane	107	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	118	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/06/2022	Sampling Date:	04/04/2022
Reported:	04/08/2022	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #2	Sampling Condition:	Cool & Intact
Project Number:	03B1417035	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: PH - 2 0.5' (H221371-03)

BTEX 8021B	mg/	′kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2022	ND	1.97	98.7	2.00	8.08	
Toluene*	<0.050	0.050	04/08/2022	ND	1.95	97.3	2.00	8.20	
Ethylbenzene*	<0.050	0.050	04/08/2022	ND	1.84	92.1	2.00	8.69	
Total Xylenes*	<0.150	0.150	04/08/2022	ND	5.74	95.7	6.00	8.61	
Total BTEX	<0.300	0.300	04/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9330	16.0	04/07/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2022	ND	181	90.5	200	0.0127	
DRO >C10-C28*	<10.0	10.0	04/07/2022	ND	187	93.3	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2022	ND					
Surrogate: 1-Chlorooctane	93.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	103 9	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/06/2022	Sampling Date:	04/04/2022
Reported:	04/08/2022	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #2	Sampling Condition:	Cool & Intact
Project Number:	03B1417035	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: PH - 2 2' (H221371-04)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2022	ND	1.97	98.7	2.00	8.08	
Toluene*	<0.050	0.050	04/08/2022	ND	1.95	97.3	2.00	8.20	
Ethylbenzene*	<0.050	0.050	04/08/2022	ND	1.84	92.1	2.00	8.69	
Total Xylenes*	<0.150	0.150	04/08/2022	ND	5.74	95.7	6.00	8.61	
Total BTEX	<0.300	0.300	04/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	04/07/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2022	ND	181	90.5	200	0.0127	
DRO >C10-C28*	<10.0	10.0	04/07/2022	ND	187	93.3	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2022	ND					
Surrogate: 1-Chlorooctane	108	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	119 9	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/06/2022	Sampling Date:	04/04/2022
Reported:	04/08/2022	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #2	Sampling Condition:	Cool & Intact
Project Number:	03B1417035	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: PH - 3 0.5' (H221371-05)

BTEX 8021B	mg/	′kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2022	ND	1.97	98.7	2.00	8.08	
Toluene*	<0.050	0.050	04/08/2022	ND	1.95	97.3	2.00	8.20	
Ethylbenzene*	<0.050	0.050	04/08/2022	ND	1.84	92.1	2.00	8.69	
Total Xylenes*	<0.150	0.150	04/08/2022	ND	5.74	95.7	6.00	8.61	
Total BTEX	<0.300	0.300	04/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	04/07/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2022	ND	181	90.5	200	0.0127	
DRO >C10-C28*	<10.0	10.0	04/07/2022	ND	187	93.3	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2022	ND					
Surrogate: 1-Chlorooctane	105 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	114 9	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/06/2022	Sampling Date:	04/04/2022
Reported:	04/08/2022	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #2	Sampling Condition:	Cool & Intact
Project Number:	03B1417035	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: PH - 3 3' (H221371-06)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2022	ND	1.97	98.7	2.00	8.08	
Toluene*	<0.050	0.050	04/08/2022	ND	1.95	97.3	2.00	8.20	
Ethylbenzene*	<0.050	0.050	04/08/2022	ND	1.84	92.1	2.00	8.69	
Total Xylenes*	<0.150	0.150	04/08/2022	ND	5.74	95.7	6.00	8.61	
Total BTEX	<0.300	0.300	04/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	04/07/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2022	ND	181	90.5	200	0.0127	
DRO >C10-C28*	<10.0	10.0	04/07/2022	ND	187	93.3	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2022	ND					
Surrogate: 1-Chlorooctane	106	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	117 9	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

aborator D D D D **JES**

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (5/5) 393-24/0		RILLTO		ANALYSIS	REQUEST
Company Name: ENSOLUM			-			
Project Manager: BEANX JENNINGS	INGS	9	P.O. #:			
Address: 705 W WADLEY AVE	VE, SUITE 240	C	Company: ロメヤ			
City: MIDLAND	State: TX Zip:	20797	Attn: WADE DITIELCH			
Phone #: (210) 219 - 8858	Fax #:	A	Address:			
0381417	Project Owner:	C	City:			
	N 4 FED #2	S	State: Zip:)	
on:		P	Phone #: (575) 390- 2). 0	
Sampler Name: GILBERT MORENO	ENO	F	Fax #:	m)	300	
0		MATRIX	PRESERV. SAMPLING	- /	(3	
Lab I.D. Sample I.D.	کر ہے۔ G)RAB OR (C)OMP.	CONTAINERS CONTAINERS CONTAINER CONT	ACID/BASE: CE / COOL DTHER :	M TPH (8015 BTEX	CHLOPHDES (
1-Hd / bH-1	0	2	2	12:20 / /		
2 PH-1	2' 0	- <	v 4-4-22	12:25 J V		
Z-Hd C	0.51 C	-	J 4-4-22	12:30 1 1	<	-
4 PH-2	2' C	-	v 4-4-22	13:40 / /	<	
5 PH-3	0.5' C	-	V 4-4-22	12:40 V V	<	
¢ PH-3	3" C	V	V H-4-22	12:45 V V	<	
			Creal (4.4.22		
PLEASE NOTE: Lability and Damages. Cardinaits liability and client's exclusive remedy for any client arising whether based in contract or tort, shall be limited to the amount paid by the client or the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deneed waved unless made in writing and received by Cardinai within 30 days after completion of the applicable analyses. All claims including those for negligence and any other causes whatsoever shall be deneed waved unless made in writing and received by Cardinai within 30 days after completion of the applicable analyses. All claims including those for negligence and any other causes whatsoever shall be deneed waved unless made in writing and received by Cardinai within 30 days after completion of the applicable analyses. All claims including those for negligence and any other causes whatsoever analyses. All claims including those for negligence and any other causes whatsoever analyses. All claims including those for negligence and any other causes whatsoever analyses. All claims including those for negligence and any other causes whatsoever analyses. All claims including those for negligence and any other causes whatsoever analyses. All claims including those for negligence and any other causes whatsoever analyses interviewer analyses. All claims including the should be analyses. All claims including the should be analyses and any other causes whatsoever analyses and any other causes and any other causes whatsoever analyses. All claims including the should be analyses and any other causes whatsoever analyses and any other causes and any other causes whatsoever analyses and any other causes and any other causes what analyses and any other causes and any other cause	and client's exclusive remedy for any claim rother cause whatsoever shall be deemed	n arising whether based in contract or d waived unless made in writing and re it limitation, business interruptions, loss	tort, shall be limited to the amount paid sceived by Cardinal within 30 days after s of use, or loss of profits incurred by cli	by the client for the applicable completion of the applicable ant, its subsidiaries,		
affiliates or successors arising out of or related to the performance Relinquished By:	mance of services hereunder by Cardinal, Date: / Re	Received By:	regardless of whether such claim is based upon any or the advice service res	Verbal Result: Ves	Verbal Result:	
Cul Sai o	Time; 140	A wrong	Ilda bal	BJENNINGS	S @ ENSOLUM . COM	COM, WADE DITTRICH
Relinquished By:	Date: Re	Received By:	.)	REMARKS:		
	Time:				Q	Racteria (only) Sample Condition
Delivered By: (Circle One)	Observed Temp. °C 4.	.6 Sample Condition Cool Intact	(Initials)		Rush Cool Intact	ntact Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C 3,	Yes Yes		Correction Factor -0.5°C	No	No No Corrected Temp. °C

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



March 02, 2023

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

RE: JONES CANYON 4 FED #2

Enclosed are the results of analyses for samples received by the laboratory on 02/28/23 10:08.

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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	02/28/2023	Sampling Date:	02/27/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #2	Sampling Condition:	Cool & Intact
Project Number:	03B1417035	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.41680, -104.50244		

Sample ID: BG - 1 0 - 0.5' (H230920-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/02/2023	ND	2.09	105	2.00	0.931	
Toluene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	1.27	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.24	112	2.00	1.30	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.88	115	6.00	0.803	
Total BTEX	<0.300	0.300	03/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/01/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	222	111	200	5.30	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	219	109	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					
Surrogate: 1-Chlorooctane	77.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.0	% 49.1-14	0						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/28/2023	Sampling Date:	02/27/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #2	Sampling Condition:	Cool & Intact
Project Number:	03B1417035	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.41680, -104.50244		

Sample ID: BG - 2 0 - 0.5' (H230920-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.09	105	2.00	0.931	
Toluene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	1.27	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.24	112	2.00	1.30	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.88	115	6.00	0.803	
Total BTEX	<0.300	0.300	03/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/01/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2023	ND	222	111	200	5.30	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	219	109	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					
Surrogate: 1-Chlorooctane	83.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/28/2023	Sampling Date:	02/27/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #2	Sampling Condition:	Cool & Intact
Project Number:	03B1417035	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.41680, -104.50244		

Sample ID: BG - 3 0 - 0.5' (H230920-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.09	105	2.00	0.931	
Toluene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	1.27	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.24	112	2.00	1.30	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.88	115	6.00	0.803	
Total BTEX	<0.300	0.300	03/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/01/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	216	108	200	6.33	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	208	104	200	7.05	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					
Surrogate: 1-Chlorooctane	92.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.8	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/28/2023	Sampling Date:	02/27/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #2	Sampling Condition:	Cool & Intact
Project Number:	03B1417035	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.41680, -104.50244		

Sample ID: BG - 4 0 - 0.5' (H230920-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.09	105	2.00	0.931	
Toluene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	1.27	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.24	112	2.00	1.30	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.88	115	6.00	0.803	
Total BTEX	<0.300	0.300	03/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/01/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	216	108	200	6.33	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	208	104	200	7.05	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					
Surrogate: 1-Chlorooctane	104 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/28/2023	Sampling Date:	02/27/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #2	Sampling Condition:	Cool & Intact
Project Number:	03B1417035	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.41680, -104.50244		

Sample ID: SW - 1 (H230920-05)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.09	105	2.00	0.931	
Toluene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	1.27	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.24	112	2.00	1.30	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.88	115	6.00	0.803	
Total BTEX	<0.300	0.300	03/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	03/01/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	216	108	200	6.33	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	208	104	200	7.05	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					
Surrogate: 1-Chlorooctane	113 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/28/2023	Sampling Date:	02/27/2023
Reported:	03/02/2023	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #2	Sampling Condition:	Cool & Intact
Project Number:	03B1417035	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.41680, -104.50244		

Sample ID: SW - 2 (H230920-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2023	ND	2.09	105	2.00	0.931	
Toluene*	<0.050	0.050	03/02/2023	ND	2.10	105	2.00	1.27	
Ethylbenzene*	<0.050	0.050	03/02/2023	ND	2.24	112	2.00	1.30	
Total Xylenes*	<0.150	0.150	03/02/2023	ND	6.88	115	6.00	0.803	
Total BTEX	<0.300	0.300	03/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/01/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2023	ND	216	108	200	6.33	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	208	104	200	7.05	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					
Surrogate: 1-Chlorooctane	101 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.9	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240 aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Sampler - UPS - Bus - Other: Cor	Delivered By: (Circle One) Obs		Relinquished By:	J.K.		Relinguished By:	service. In no event shall Cardinal be liable for incidental or consequential damages, including without invitation; business interruptions, toss of use, or loss of profils incurred by chart, its subsidiaries, affiliates or successors arisino out of or related to the performance of services hereunder by Cardinal, recordiess of whother such chain is based upon any of the above stated reasons or otherwise.	PLEASE NOTE: Lobidity and Domages. Carditral's liability and client's exclusive remedy for any claim arriang whether based in contract or tort, shall be limited to the amount pold by the client for the analyses. All claims including those for negligence and any other cause whatboever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable		(A)	1000	1 and	6 5002	1 my S	mus h	5 003	2 30-2	1 36-1	Lab I.D. Sample I.D.	FOR LABUSE ONLY	Sampler Name: Kaileesmith	Project Location: 32.41690	Project Name: Jones Canyon	Project #: 6381417035	Phone # 210-219-8858	city: Midland	AA	Project Manager: Beaux Jen	Company Name: Ensolum, LUC	(575) 393-2326 FAX (575) 393-2476
E P	Observed Temp. °C / Sample Condition	Time:	Date: Received By:	8		Date: S Dt Received By:	juental damages, including without limitation, tusiness interruptions of services hereunder by Cardinal, recordless of whether such clair	nt's exclusive romedy for any claim ansing whether based in contra ause whatsoever shall be deemed waived unless made in writing a	+				C 1 1	CIX	0-0.5 6 1 1	0.0.5' 6 1 1	0-0.51 61 1	0-0.51 61 1	CG)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	. MATRIX		1-10-1, 50244	4 FAS FED #2	Project Owner:	Fax #:	State: TX Zip: 79,701	SI. STE400	Sennings	¢	VX (575) 393-2476
4	CHECKED BY:		REM	NAT MAND D		Man Verb	h loss of use, or loss of profils incurred by client, its sum is based upon any of the above stated reasons or o	ct or tort, shall be limited to the amount paid by the cl ind received by Cardinal within 30 days after completi					14 242-7 7	-	0111 412-2 Y	onstarr >	oor letter y	× 2-27-23 1150	OTHER : ACID/BASE: ICE / COOL OTHER : DATE	PRESERV. SAMPLING	Fax #:	Phone # 575-340-2828	State: Zip:	City:	Address:	Attn: Weule B: Hrich	Company: OX4 USA, TAC	P.O. #:	BILL TO	
Ves Yes	Turnaround Time: Standard N- Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C		REMARKS:		emailed. Please provi	Verbal Result: Ves B-No Add'I Phone #:	subsidiaries, otherwise	client for the lefon of the applicable					1540 + + + OH-1	JU X VX	10 + 7 ×			50 × 7 ×	Chloride BTEX 8 TPH 80	5	16	15	00	2			nc .		ANALYSIS REQUEST	

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

No Corrected Temp. °C

No No



May 04, 2023

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

RE: JONES CANYON 4 FED #2

Enclosed are the results of analyses for samples received by the laboratory on 05/01/23 12:31.

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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	05/01/2023	Sampling Date:	05/01/2023
Reported:	05/04/2023	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #2	Sampling Condition:	Cool & Intact
Project Number:	03B1417035	Sample Received By:	Tamara Oldaker
Project Location:	OXY 32.41680, -104.50244		

Sample ID: SW - 1 (H232127-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/02/2023	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

ratories

101 East Marland, Hobbs, NM 88240

C

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Sampler - UPS - Bus - Other:

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

City: Midland	State: TX Zip: 79701	Attn: wade Dimici	
Phone #: 210-219-8858	Fax #:	Address:	
Project #: 63 13/1/17035	Project Owner:	City:	>
Project Name: Sones Canyon 4	, y FEDAL	State: Zip:	
on: 32 .0	10.	Phone #: 575-390-2828	
		Fax #:	
FOR LAB USE ONLY	P. MATRIX	PRESERV.	
Lab I.D. Sample I.D.	(feet) (feet) B)RAB OR (C)OMF CONTAINERS ROUNDWATER VASTEWATER OIL DIL LUDGE	DTHER : CID/BASE: CE / COOL DTHER :	
1-512 1 212-1	-	× 5.1-23	1018 × 8101
PLEASE NOTE: Lability and Damages. Cardinat's liability an analyses. All claims including those for negligence and any or service. In no event shall Cardinal be liable for incidental or or service.	PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client is subsidiaries, analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved 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 damagers, including without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequential damagers, including without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, including without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, including without limitation, business interruptions, business and any of the above stated reasons or otherwise.	ct or tort, shall be limited to the amount paid and received by Cardinal within 30 days after s, loss of use, or loss of profits incurred by cl m is based upon any of the above stated rea	pplicable
affinites or successors a mining out or or related to the period. Relinquished By:	Relinquished By: Time: 7 2 Time: 7 2 Acceived By: All Results All R	Soffaller.	Verbal Result: U Yes U NO ANU FRIME TOTOR 7. All Results are emailed. Please provide Email address: BJennings@ensolum.com
Relinquished By:	Date: Received By:	- allow	REMARKS:
Delivered By: (Circle One)	Observed Temp. °C S, / Sample Condition	t CHECKED BY: (Initials)	Turnaround Time: Standard D Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrocted Temp. °C 4,5 Pres Pres	No AO	Corrected Temp. °C

Received by OCD: 5/22/2023 2:00:30 PM

Company Name:

Project Manager:

Address:

601 N. Marienfeld St. STE 400

Ensolum, LLC Beaux Jennings

P.O. #: Company:

Oxy USA, Inc.

BILL TO

ANALYSIS

REQUEST



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

Page 52 of 57

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	nLLB0631356160
District RP	2RP-524
Facility ID	
Application ID	

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) nLLB0631356160
Contact mailing address: PO Box 4294, Houston, TX 77210	

Location of Release Source

Latitude 32.41680

Longitude -104.50244 (NAD 83 in decimal degrees to 5 decimal places)

Site Name: Jones Canyon 4 Fed #2	Site Type: Well Pad	
Date Release Discovered: 8/10/2006	API# 30-015-28779	

Unit Letter	Section	Township	Range	County
J	4	228	24E	Eddy

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Crude Oil	Volume Released (bbls):	Volume Recovered (bbls):	
Produced Water	Volume Released (bbls): 56	Volume Recovered (bbls): 50	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No	
Condensate	Volume Released (bbls)	Volume Recovered (bbls)	
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)	
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)	
Cause of Release: Eme	rgency shutdown switch failed and ruptured flow line.		

Received by OCD: 5/22/202	3 2:00:30 PM	AND	Page 53 of 57
Form C-141 Page 2	State of New Mexico Oil Conservation Division	Incident ID District RP	nLLB0631356160 2RP-524
		Facility ID Application ID	-
Was this a major release as defined by 19.15.29.7(A) NMAC? ∑ Yes □ No	If YES, for what reason(s) does the responsible par Release over 25 bbls.	ty consider this a major release?	
If YES, was immediate n Unknown.	otice given to the OCD? By whom? To whom? Wh	nen and by what means (phone, e	email, etc)?
The responsible	Initial Respons party must undertake the following actions immediately unless the		'd result in injury
The impacted area hatReleased materials hat	ease has been stopped. s been secured to protect human health and the envir ave been contained via the use of berms or dikes, abso	orbent pads, or other containmen	nt devices.
	ecoverable materials have been removed and manage d above have <u>not</u> been undertaken, explain why:		
has begun, please attach	AC the responsible party may commence remediation a narrative of actions to date. If remedial efforts has narrative of actions to date. NMAC), please attains	we been successfully completed	l or if the release occurred
regulations all operators are	rmation given above is true and complete to the best of my required to report and/or file certain release notifications a nent. The acceptance of a C-141 report by the OCD does	nd perform corrective actions for re	leases which may endanger

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 Signature:

Title: Environmental Specialist

Date: 5-22-2-3

Telephone: <u>575-390-2828</u>

OCD Only

Received by: _____ Date: _____

email: wade_dittrich@oxy.com

Form C-141

State of New Mexico Oil Conservation Division

Incident ID	nLLB0631356160
District RP	2RP-524
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?	<u>N/A</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 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)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 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?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	Ves 🕅 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 ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps

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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 for the release, the report must include a proposed remediation for the release, the report must include a proposed remediation for the release, the report must include a proposed remediation for the release, the report must include a proposed remediation for the release, the report must include a proposed remediation for the release, the report must include a proposed remediation for the release, the report must include a proposed remediation for the release are contained in Table 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

11:54:08 AM

Form C-141 age 4	State of New Mexico		Incident ID	nLLB0631356160	
ige 4	Oil Conservation Divis	Oil Conservation Division		2RP-524	
			Facility ID		
			Application ID		
	igate and remediate contamination that pose of a C-141 report does not relieve the opera				
Printed Name: <u>Wade D</u> Signature: email: <u>wade_dittrich@c</u>	listito		<u>mental Specialist</u> <u>JQ-23</u> 25-390-2828		

Form C-141 Page 6

6

State of New Mexico **Oil Conservation Division**

Incident ID	nLLB0631356160
District RP	2RP-524
Facility ID	
Application ID	

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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

Printed Name: Wade Dittrich hall All Signature: _

OCD

Title: Environmental Specialist

Date: 5-22-23

email: wade_dittrich@oxy.com

Telephone: 575-390-2828

OCD Only

Received by:

5/22/2023 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. Released to Imaging: 5/24/2023 11:54:08 .

Closure Approved by: Ashley Maxwell	Date:5/24/2023
Closure Approved by: <u>Ashley Mafwell</u> Printed Name: <u>Ashley Maxwell</u>	Title: Environmental Specialist
5/22/20	
00D::	
(p)	
Received	

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

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	219370
	Action Type:
	[C-141] Release Corrective Action (C-141)
	-

CONDITIONS

Created By		Condition Date
amaxwell	None	5/24/2023

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