

#### **REVISED CLOSURE REPORT**

Property:

Sundance SDS 11-1 SWD/BAT

Eddy County, New Mexico 32.240480 N, 103.725720 W NMOCD Incident ID: nAPP2215134499

December 1, 2023 Ensolum Project No. 03B1417042

Prepared for:

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

Prepared by:

Beaux Jennings

Senior Project Manager

Mans

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 Project No. 03B1417042

#### 1.0 INTRODUCTION

#### 1.1 Executive Summary

- On May 1, 2022, a release of crude oil and produced water was reported from a 4-inch Victaulic failure on the Calmon 5 saltwater disposal (SDW) line along with a pinhole release on the steel main line at the Sundance SDS 11-1 SWD/BAT, hereinafter referred to as the "Site". Approximately 35 barrels (bbls) of crude oil and 340 bbls of produced water were released affecting an area approximately 150 feet by 250 feet at the maximum extents. A vacuum truck was brought in and recovered approximately 30 bbls of crude oil and 320 bbls of produced water.
- On May 10, 2022, Ensolum, LLC (Ensolum) arrived on-Site and collected a total of 12 composite pothole soil sampes from three locations (SP-1 through SP-3) at one-foot intervals down to a depth of four feet below ground surface (bgs) within the release area. Additionally, four delineation composite soil samples (North, East, South, and West) were collected from a depth of 0 1 feet bgs to determine the horizontal and vertical extent of the release. A *Remediation Workplan*, dated August 4, 2022, was prepared by Ensolum. The workplan included the results of the May 2022 sampling and stated that the release area would be excavated down to a minimum of four feet bgs, and a soil boring would be installed in the vicinity to determine the depth of groundwater in the area of the Site. Oxy subsequently began excavating the release area with a backhoe and the excavated soils were taken off-Site for proper disposal.
- Due to the unknown depth to groundwater in the 0.5-mile vicinity, a depth to water soil boring (SB-1/C-04672-POD-1) was installed on September 1, 2022 by Ensolum personnel. The soil boring was installed on Oxy property approximately 0.3-mile north of the Site. The soil boring was installed to 110 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 110 feet bgs at the Site.
- On February 13, 2023, Ensolum arrived on-Site and collected 64 composite soil samples from the excavation floor (FS-1 through FS-64) at a depth of feet bgs. In addition, Ensolum collected nine composite soil samples from the excavation sidewalls (SW-1 through SW-9) at a depth of 0-4 feet bgs. Based on laboratory analytical data, further remediation was required at floor sample locations FS-21, FS-26, FS-36 and FS-64 and side wall sample location SW-7.
- On March 2, 2023, Ensolum returned to the Site and collected four additional composite soil samples from the excavation floor (FS-21, FS-26, FS-36 and FS-64) at a depth of four feet bgs, and one additional composite soil sample from the excavation sidewalls (SW-7) at a depth of 0-4 feet 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 EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- The final excavation area measured approximately 240 feet long and 100 feet wide at the maximum extents. The excavation depth was approximately four feet bgs.
- A total of 68 composite soil samples from 64 locations from the excavation floor (FS-1 through FS-64), and 10 composite soil samples from nine locations from the excavation sidewalls (SW-1 through SW-9) were collected.
- On April 18, 2023, a Closure Report was submitted to the New Mexico EMNRD OCD for approval.
- On May 1, 2022, the New Mexico ENMRD 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, composite samples FS-65 through FS-81 as well as SW-10 and SW-11 were collected on September 19, 2023.
- Based on the laboratory analytical results, the final composite soil samples collected from the excavation floor and sidewalls did not exhibit benzene, total benzene, toluene, ethylbenzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO) and/or motor oil range organics (MRO) or chloride concentrations above the applicable NMOCD Closure Criteria. Subsequent to the results of the confirmation soil sampling, the identified impacted 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 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:	Sundance SDS 11-1 SWD/BAT
Location:	32.240480 N, 103.725710 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 May 1, 2022, a release of crude oil and produced water was reported from a 4-inch Victaulic failure on the Calmon 5 SWD line along with a pinhole release on the steel main line at the Site. Approximately 35 bbls of crude oil and 340 bbls of produced water were released affecting an area approximately 150 feet by 250 feet at the maximum extents. A vacuum truck was brought in and recovered approximately 30 bbls of crude oil and 320 bbls of produced water.



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On May 10, 2022, Ensolum arrived on-Site and collected a total of 12 composite pothole soil sampes from three locations (SP-1 through SP-3) at one-foot intervals down to a depth of four feet bgs within the release area. Additionally, four delineation composite soil samples (North, East, South, and West) were collected from a depth of 0 - 1 feet bgs to determine the horizontal and vertical extent of the release.

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.
- 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 not located within an unstable area.

The Site is noted to be located within an area of minimal flood hazard.

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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	EPA Method	Limit									
	Chloride	300.0 or SM4500 Cl B	20,000 mg/kg									
	TPH (GRO+DRO)	SW-846 Method 8015M	1,000 mg/kg									
>100 feet	TPH (GRO+DRO+MRO)	SW-846 Method 8015M	2,500 mg/kg									
	BTEX	SW-846 Method 8021B or 8260B	50 mg/kg									
	Benzene	SW-846 Method 8021B or 8260B	10 mg/kg									

#### 3.0 SOIL REMEDIATION ACTIVITIES

On May 1, 2022, a release of crude oil and produced water was reported from a 4-inch Victaulic failure on the Calmon 5 SDW line along with a pinhole release on the steel main line at the Site. Approximately 35 bbls of crude oil and 340 bbls of produced water were released affecting an area approximately 150 feet by 250 feet at the maximum extents. A vacuum truck was brought in and recovered approximately 30 bbls of crude oil and 320 bbls of produced water.

On May 10, 2022, Ensolum arrived on-Site and collected a total of 12 composite pothole soil sampes from three locations (SP-1 through SP-3) at one-foot intervals down to a depth of four feet bgs within the release area. Additionally, four delineation composite soil samples (North, East, South, and West) were collected from a depth of 0 - 1 feet bgs to determine the horizontal and vertical extent of the release. A *Remediation Workplan*, dated August 4, 2022, was prepared by Ensolum. The workplan included the results of the May 2022 sampling and stated that the release area would be excavated down to a minimum of four feet bgs, and a soil boring would be installed in the vicinity to determine the depth of groundwater in the area of the Site. Oxy subsequently began excavating the release area with a backhoe excavator, and the excavated soils were taken off-Site for proper disposal.

Due to the unknown depth to groundwater in the 0.5-mile vicinity, a depth to water soil boring (SB-1/C-04672-POD-1) was installed on September 1, 2022 by Ensolum personnel. The soil boring was installed on Oxy property approximatley 0.3-mile north of the Site. The soil boring was installed to 110 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 110 feet bgs at the Site.

On February 13, 2023, Ensolum arrived on-Site and collected 64 composite soil samples from the excavation floor (FS-1 through FS-64) at a depth of feet bgs. In addition, Ensolum collected nine composite soil samples from the excavation sidewalls (SW-1 through SW-9) at a depth of 0-4 feet bgs. Based on laboratory analytical data, further remediation was required at floor sample locations FS-21, FS-26, FS-36 and FS-64 and side wall sample location SW-7.

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On March 2, 2023, Ensolum returned to the Site and collected four additional composite soil samples from the excavation floor (FS-21, FS-26, FS-36, and FS-64) at a depth of four feet bgs, and one additional composite soil sample from the excavation sidewalls (SW-7) at a depth of 0-4 feet bgs.

Based on the request from the New Mexico EMNRD OCD, composite samples FS-65 through FS-81 as well as SW-10 and SW-11 were collected on September 19, 2023.

The composite soil samples were analyzed for BTEX, TPH and chloride in accordance with NMOCD Closure Criteria for Soils Impacted by a Release (NMOCD Closure Criteria).

The final excavation area measured approximately 240 feet long and 100 feet wide at the maximum extents. The excavation depth was approximately four feet bgs. The excavated impacted soils were removed and taken off-Site for proper disposal.

The lithology encountered during the completion of sampling activities consisted primarily of a reddish yellow silty sand.

**Figure 3** identifies approximate composite 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 68 composite soil samples from 64 locations from the excavation floor (FS-1 through FS-64), and 10 composite soil samples from nine locations from the excavation sidewalls (SW-1 through SW-9) were collected.

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 collected from the excavation floor and sidewalls (FS-1 through FS-64, and SW-1 through SW-9) to the applicable NMOCD Closure Criteria.

- Laboratory analytical results indicate benzene concentrations for the composite 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 composite soil samples are below the laboratory SDLs, which are below the applicable NMOCD Closure Criteria of 50 mg/kg.

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- Laboratory analytical results indicate combined TPH GRO/DRO concentrations for the final composite soil samples exhibited concentrations ranging from below the laboratory SDLs to 753 mg/kg, which are below the applicable NMOCD Closure Criteria of 1,000 mg/kg for groundwater >100 feet.
- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the final composite soil samples exhibited concentrations ranging from below the laboratory SDLs to 910 mg/kg, which are below the applicable NMOCD Closure Criteria of 2,500 mg/kg for groundwater >100 feet.
- Laboratory analytical results indicate chloride concentrations for the final composite soil samples exhibited chloride concentrations ranging from below the laboratory SDLs to 1,180 mg/kg, which are below the applicable NMOCD Closure Criteria of 20,000 mg/kg for groundwater >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. Once the area was brought back to original grade, a BLM approved seed mixture was sown into the surface area of the backfill for re-vegetation.

#### 8.0 FINDINGS AND RECOMMENDATION

- On May 1, 2022, a release of crude oil and produced water was reported from a 4-inch Victaulic failure on the Calmon 5 SDW line along with a pinhole release on the steel main line at the Site. Approximately 35 bbls of crude oil and 340 bbls of produced water were released affecting an area approximately 150 feet by 250 feet at the maximum extents. A vacuum truck was brought in and recovered approximately 30 bbls of crude oil and 320 bbls of produced water.
- On May 10, 2022, Ensolum arrived on-Site and collected a total of 12 composite pothole soil sampes from three locations (SP-1 through SP-3) at one-foot intervals down to a depth of four feet bgs within the release area. Additionally, four delineation composite soil samples (North, East, South, and West) were collected from a depth of 0 1 feet bgs to determine the horizontal and vertical extent of the release. A *Remediation Workplan*, dated August 4, 2022, was prepared by Ensolum. The workplan included the results of the May 2022 sampling and stated that the release area would be excavated down to a minimum of four feet bgs, and a soil boring would be installed in the vicinity to determine the depth of groundwater in the area of the Site. Oxy subsequently began excavating the release area with a backhoe excavator, and the excavated soils were taken off-Site for proper disposal.
- Due to the unknown depth to groundwater in the 0.5-mile vicinity, a depth to water soil boring (SB-1/C-04672-POD-1) was installed on September 1, 2022 by Ensolum personnel. The soil boring was installed on Oxy property approximately 0.3-mile north of the Site. The soil boring was installed to 110 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 110 feet bgs at the Site.
- On February 13, 2023, Ensolum arrived on-Site and collected 64 composite soil samples from the excavation floor (FS-1 through FS-64) at a depth of feet bgs. In addition, Ensolum collected nine composite soil samples from the excavation sidewalls (SW-1 through SW-9) at a depth of 0-4 feet bgs. Based on laboratory analytical data, further remediation was required at floor sample locations FS-21, FS-26, FS-36 and FS-64 and side wall sample location SW-7.



- On March 2, 2023, Ensolum returned to the Site and collected four additional composite soil samples from the excavation floor (FS-21, FS-26, FS-36 and FS-64) at a depth of four feet bgs, and one additional composite soil sample from the excavation sidewalls (SW-7) at a depth of 0-4 feet bgs.
- On April 18, 2023, a Closure Report was submitted to the New Mexico EMNRD OCD for approval.
- On May 1, 2022, the New Mexico ENMRD 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, composite samples FS-65 through FS-81 as well as SW-10 and SW-11 were collected on September 19, 2023.
- 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 New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- The final excavation area measured approximately 240 feet long and 100 feet wide at the maximum extents. The excavation depth was approximately four feet bgs.
- A total of 81 composite soil samples from 81 locations from the excavation floor (FS-1 through FS-81), and 11 composite soil samples from 11 locations from the excavation sidewalls (SW-1 through SW-11) were collected.
- Based on the laboratory analytical results, the final composite soil samples collected from the
  excavation floor and sidewalls did not exhibit benzene, total BTEX, TPH GRO/DRO/MRO or
  chloride concentrations above the applicable NMOCD Closure Criteria. Subsequent to the results
  of the confirmation soil sampling, the identified impacted 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 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

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Released to Imaging: 12/15/2023 1:29:52 PM



APPENDIX B

Supporting Documentation

#### **Beaux Jennings**

From:	Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov></ocd.enviro@emnrd.nm.gov>
Sent:	Friday, February 17, 2023 9:31 AM
То:	Beaux Jennings
Subject:	FW: [EXTERNAL] Sundance SDS 11-1 SWD/BAT (Incident ID: nAPP2215134499)

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

#### Beaux,

OCD approves your request for a 90-day extension to May 18, 2023 to submit a revised closure report. 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.

Thank you, Jocelyn Harimon

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: Thursday, February 16, 2023 9:38 AM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>
Cc: Dittrich, John W <<u>Wade\_Dittrich@oxy.com</u>>; Pierce, Tyson (Legacy Safety & Consulting LLC)
<<u>Tyson\_Pierce@oxy.com</u>>
Subject: [EXTERNAL] Sundance SDS 11-1 SWD/BAT (Incident ID: nAPP2215134499)

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 request a 90-day extension for the Sundance SDS 11-1 SWD/BAT (Incident ID: nAPP2215134499). Excavation activities are currently being conducted at the site and require more time, due to multiple pipelines within the vicinity of the release. I have attached a few representative photos of the area. Please let us know if you have any questions.

Thank you,

•



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

#### **Beaux Jennings**

From:	Rodgers, Scott, EMNRD <scott.rodgers@emnrd.nm.gov></scott.rodgers@emnrd.nm.gov>
Sent:	Monday, September 18, 2023 2:35 PM
То:	Beaux Jennings
Cc:	Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Subject:	RE: [EXTERNAL] Sundance SDS 11-1 SWD/BAT (Incident ID: nAPP2215134499)

You don't often get email from scott.rodgers@emnrd.nm.gov. Learn why this is important

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

The OCD has received your notification. When reporting sampling, it is required to provide and date and time for each location. 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.

Scott Rodgers • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113 505.469.1830 | <u>scott.rodgers@emnrd.nm.gov</u> http://www.emnrd.nm.gov/ocd\_



From: Beaux Jennings <br/>
Sent: Monday, September 18, 2023 12:39 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Sundance SDS 11-1 SWD/BAT (Incident ID: nAPP2215134499)

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 Sundance SDS 11-1 SWD/BAT (Incident ID: nAPP2215134499) the week of September 18<sup>,</sup> 2023. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



#### **Beaux Jennings**

From:	Beaux Jennings
Sent:	Tuesday, February 28, 2023 7:52 PM
То:	OCD.Enviro@emnrd.nm.gov
Subject:	Sundance SDS 11-1 SWD/BAT (Incident ID: nAPP2215134499)

Good Afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Sundance SDS 11-1 SWD/BAT (Incident ID: nAPP2215134499) on Thursday, March 2<sup>nd</sup>. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



# **OSE POD Locations Map**



### 4/11/2023, 4:04:53 PM GIS WATERS PODs

- Active
- Pending
- Subsurface Estate
  - Both Estates

New Mexico State Trust Lands

- OSE District Boundary SiteBoundaries
- Water Right Regulations

Closure Area

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#### 1:18,056



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



# New Mexico Office of the State Engineer Point of Diversion Summary

		(quarters are smallest to	largest)	(NAD83 UTM in meters)
Well Tag	POD Number	Q64 Q16 Q4 Sec	Tws Rng	X Y
NA	C 04672 POD 1	2 1 4 01	24S 31E	619762 3568286 🌍
Driller Licen	<b>se:</b> 1184	Driller Company:	WEST TEXA	AS WATER WELL SERVICE
Driller Name	RUSSELL SOUT	THERLAND		
Drill Start D	ate: 09/01/2022	Drill Finish Date:	09/01/2022	Plug Date:
Log File Date	e: 09/26/2022	PCW Rcv Date:		Source:
Pump Type:		Pipe Discharge Size:		<b>Estimated Yield:</b>
Casing Size:		Depth Well:	110 feet	Depth Water:

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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POINT OF DIVERSION SUMMARY

	WR File N	umber:	C 046	72		Subbasin: (	CUB	Cross Re	ference:	-	
2	Primary P	urpose:	EXP	EXPI	ORA	ΓΙΟΝ					
et image list	Primary St	tatus:	PMT	PERM	MIT						
	Total Acres	s:				Subfile:	-			Header:	-
	Total Dive	rsion:	0			Cause/Case:	-				
	1	User:	OXYU	USA IN	C.						
	Contact: User:		WADE DITTRICH ENSOLUM LLC								
	Co	ntact:	BEAU	X JENN	VINGS						
ocuments	s on File										
					atus			From/			
20	Trn # Do			1	2	Transaction Desc.		То	Acres	Diversion	Consumptiv
<u>get</u> <u>images</u>	<u>734614 EXP</u>	L 2022-	09-22	PMT	APR	C 04672 POD 1		Т	0	0	
urrent Po	oints of Dive	rsion						A in meters)			

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/11/23 3:06 PM

WATER RIGHT SUMMARY

Client: <u>Oxy USA Inc.</u> Project Name: <u>Mesa Verde 8 Federal #2H FACI</u> Project Location: <u>Eddy County, New Mexico</u> Project Manager: <u>Beaux Jennings</u>	SOIL BORING / WELL LOG							ELL LOG		
DRILLING & SAMPLING INFORMAITON Date Started: 9/1/2022	Soil Boring / Well Number: <u>SB-1 (C-04672-POD-1)</u> . Project #: <u>03B1417051</u>									
Date Completed: <u>9/1/2022</u>	<u>.</u>	Drawn By:								
Drilling Company: West Texas Water Well Services		Approved		-		s				
Driller: Russell Southerland										
Geologist: Shane Diller										
Boring Method: <u>AR</u>	Logged By: Shane	e Diller								
Sampler Type: AR										
	Screen: N/A		_							
	Total Depth: 110									
Well Materials: <u>N/A</u> Surface Completion: <u>N/A</u>								BORING AND		
BORING METHOD HSA - HOLLOW STEM AUGERS CFA - CONTINUOUS FLIGHT AUGERS GP - GEOPROBE AR - AIR ROTARY SOIL CLASSIFICATION				Sample Interval	% Recovery	Groundwater Depth	FID/PID Readings (ppm)	SAMPLING NOTES		
Drill Cuttings- 10' - Sand, very fine grained, pink, dry, no odor 20' - Silty sand, very fine grained, small caliche fragm brown, dry, no odor Drill Cuttings- 39'-40' - Thin sandstone, reddish brown, dry, no odor 40' - Silty sand, weak red, dry, no odor	ents, reddish	10 20 30 40 50								
Drill Cuttings-		70	-							

### E ENSOLUM

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Client: Oxy USA Inc. Project Name: Mesa Verde 8 Federal #2H FACI Project Location: Eddy County, New Mexico Project Manager: Beaux Jennings DRILLING & SAMPLING INFORMAITON Date Started: 9/1/2022 Date Completed: 9/1/2022 Drilling Company: West Texas Water Well Services Driller: Russell Southerland Geologist: Shane Diller Boring Method: AR Sampler Type: AR Bore Hole Diameter: 5/8"	Project #: 03B1417051 Drawn By: Beaux Jennings Approved By: Heather Holthaus Sampler: Shane Diller Logged By: Shane Diller Screen: N/A								
Well Materials: <u>N/A</u> Surface Completion: <u>N/A</u> BORING METHOD SAMPLER TYPE HSA -HOLLOW STEM AUGERS CB - FIVE FOOT CORE BARRE CFA - CONTINUOUS FLIGHT AUGERS SS - DRIVEN SPLIT SPOON GP - GEOPROBE ST - PRESSED SHELBY TUBE AR - AIR ROTARY SOIL CLASSIFICATION				Sample No.	Sample Interval	% Recovery	Groundwater Depth	FID/PID Readings (ppm)	BORING AND SAMPLING NOTES
Drill Cuttings									

### E ENSOLUM

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# Received by OCD: 12/8/2023 12:35:03 PM National Flood Hazard Layer FIRMette



#### Legend

regulatory purposes.

## Page 26 of 168



Releasea to Imaging: 12/15/2023 9.29:52 PM 1,500 2.000

1:6.000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020



Received by OCD: 12/8/2023 12:35:03 PM

# Active Mines in New Mexico



 $\mathbb{R}^{2}$ 

Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

1.5

3 km

0.75

0

U.S. Fish and Wildlife Service



## Sundance SDS 11-1 SWD/BAT



#### August 1, 2022

#### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- **Freshwater Pond**

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

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.

**ATTACHMENT 2** 



### United States Department of Interior Bureau of Land Management Major Undesirable Event Report<sup>1</sup>

Report Type:    Initial 24-Hour    □    15-Day/Final    □    Other/Follow-up										
BLM Field Office: Carlsbad Field Office State: NM										
BLM Contact: Crisha A. Mo	organ			Date of	of this Rep	ort: 5/	18/22			
Company Official Reporting	g to BLM	Wade I	Dittrich							
Operator: Oxy USA Inc.										
Date/Time of Occurrence: 5	/1/22 @ 1	200		Date/	Time BLM	Notif	ied: 5/2/2	2 @ 1430		
Field/Unit Name: Sundance-SDS 11-1 SWD/BATLease Number: 304974										
State: NMCounty: EddyTwp: 24SRng: 31ESec: 1Qtr: SE 1/4										
:Intentionally left blank		1								
Surface Ownership:		Federa	l: 🛛	Indiar	n: 🗆	State	: 🗆	FEE 🗆		
	Тур	e and R	elevant	Detail	s of Event					
Oil Spill □	Oil/W	Vater Spi	ill 🛛		Gas Vent	ing□	Toxic	Fluid Spill 🗆		
Saltwater Spill □	Other	: Spill (S	pecific)		Blowout	$\boxtimes$	Fire [			
Injury 🗆	Fatali	ity 🗆			Property Damage □		Explo	$osion$ $\Box$		
Nature and Cause of Event: 4" Vic on Calmon 5 SWD Line failure along with pinhole on steel main line.										
						-	-			
Environmental Impact: Leal	c in pastu	re/ROW	area ad	jacent t	o 4" line.					
			1							
Time Required to Control E		ırs) :	24hrs							
Volume Discharged or Cons	sumed:		OIL:					GAS:mcf		
Volumes Recovered:			OIL: _		ls WAT					
Net Volume Lost:			OIL: _							
Action Taken to Control Ev	ent: Clear	up initia	ated imr	nediatel	ly upon dis	covery	у.			
Resulting Damage: Approxi	mately 18	3,000 squ	uare fee	t of imp	acted past	ure/RC	OW area.			
Clean-Up Procedures: Exca	vation of i	impacts	as need	ed. Ana	lytical resu	ilts to o	confirm d	elineation.		
	valion or i	inpuets	us need	<i></i>	i j ticui i coc		commu			
Cause/Extent of Personal In	jury: Non	e.								
Actions the operator has tak source of the leak as needed		take to j	prevent	a recur	rence of the	e incid	lent: Repl	ace/repair the		
Agency Notification	Agen	cy Name	e	C	ontact Nar	ne		Date/Time		
	NMOCD			Enviro				@ 1430		
(Federal/State/Local):	BLM			CFO St	oill Email		5/2/22	@ 1430		

<sup>&</sup>lt;sup>1</sup> As required per *Section III*, NTL-3A, Federal Register Notice Vol. 44-No. 7, Wednesday, January 10, 1979, [NTL-3A] Reporting Of Undesirable Events, Notice to Lessees and Operators; P. 2204-2206

# SUNDANCE SDS 11-1 SWD/BAT



5/6/2022, 3:27:11 PM

AREA\_FF00FF001

**OSE** District Boundary

SiteBoundaries



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, U.S. Department of Energy Office of Legacy



# APPENDIX C

Photographic Documentation



View of release point during initial soil sampling activities, facing south.



View of release area during initial soil sampling activities, facing northwest.



View of release area during initial soil sampling activities, facing northwest.



View of release area during initial soil sampling activities, facing northeast.



View of release area during initial soil sampling activities, facing southwest.



View of release area during initial soil sampling activities, facing northeast.



#### View of final excavation area, facing northwest.



View of final excavation area, facing southwest.


View of final excavation area, facing north.



View of final excavation area, facing northeast.



## APPENDIX D

Tables

## E N S O L U M

										ENSV	
					SAMPLE AN Sundance S Oxy	DS 11-1 SWD USA Inc. ity, New Mexi	BAT				
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+DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
	il Conservation Soils Impacted (> 100 feet)	Division Closure by a Release	10	NE	NE	NE	50	1,000	NE	2,500	20,000
				(	Composite Soil Sa	mple Analytical	Results				
FS-1	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	64.0
FS-2	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-3	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-4	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-5	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	80.0
FS-6	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	80.0
FS-7	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
FS-8	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-9	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-10	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	128
FS-11	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	313	109	422	112
FS-12	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	96.0
FS-13	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-14	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
FS-15	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	44.9	<10.0	44.9	176
FS-16	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	124	23.4	147	176
FS-17	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	112
FS-18	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-19	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-20	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	260	50.7	311	288
FS-21	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	2,630	477	3,107	1,310
	3/2/2023	4			NS		-	139	48.9	188	NS
FS-22	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	440	70.6	511	1,090
FS-23	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
FS-24	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-25	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	62.0	10.4	72.4	64.0
FS-26	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	1,080	227	1,307	96.0
	3/2/2023	4		-	NS	-		<10.0	<10.0	<10.0	NS
FS-27	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	753	157	910	80.0
FS-28	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	52.8	<10.0	52.8	208
FS-29	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	224
FS-30	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	181	42.8	224	80.0
FS-31	2/13/2023	4	< 0.050	<0.050	<0.050	<0.150	<0.300	113	34.7	148	80.0
FS-32	2/13/2023	4	< 0.050	<0.050	<0.050	<0.150	<0.300	208	58.5	267	64.0
FS-33	2/13/2023	4	< 0.050	< 0.050	< 0.050	< 0.150	<0.300	68.0	14.1	82.1	176
FS-34	2/13/2023	4	< 0.050	< 0.050	< 0.050	<0.150	<0.300	27.0	<10.0	27.0	272
FS-35	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	496
FS-36	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	1,152	231	1,383	672
F0	3/2/2023	4			NS			334	83.7	418	NS
FS-37	2/13/2023	4	< 0.050	< 0.050	< 0.050	< 0.150	<0.300	70.6	24.0	94.6	208
FS-38	2/13/2023	4	< 0.050	< 0.050	< 0.050	< 0.150	<0.300	30.5	<10.0	30.5	464
FS-39	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	102	26.5	129	1,150

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<b></b>											
					TA	BLE 1					
				SOI	SAMPLE AN	ALYTICAL	RESULTS				
					Sundance SI						
						USA Inc.					
						ty, New Mex	ico				
					Ensolum Proje						
	Sample	Sample Depth	Benzene	Toluene	Ethylbenzene	Total	Total	TPH GRO+DRO	TPH MRO	Total TPH	Chloride
Sample I.D.	Date	(feet bgs)	(mg/kg)	(mg/kg)	(mg/kg)	Xylenes	BTEX	(mg/kg)	(mg/kg)	(GRO+DRO+MRO)	(mg/kg)
		(		( 3 3/	( 3 3/	(mg/kg)	(mg/kg)	( 3 3,	( 3 3/	(mg/kg)	( 3 3)
		Division Closure									
Criteria for S	Soils Impacted	by a Release	10	NE	NE	NE	50	1,000	NE	2,500	20,000
	(> 100 feet)	1									
FS-40	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
FS-41	2/13/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	17.2	<10.0	17.2	208
FS-42	2/13/2023	4	<0.050	0.136	<0.050	<0.150	<0.300	12.6	<10.0	12.6	144
FS-43	2/13/2023	4	< 0.050	< 0.050	< 0.050	<0.150	<0.300	49.9	12.6	62.5	336
FS-44	2/13/2023	4	< 0.050	<0.050	<0.050	<0.150	<0.300	116	29.5	146	320
FS-45	2/13/2023	4	< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
FS-46	2/13/2023	4	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	48.0
FS-47	2/13/2023	4	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	55.9	11.6	67.5	656
FS-48	2/13/2023	4	< 0.050	< 0.050	< 0.050	<0.150	<0.300	42.0	11.4	53.4	336
FS-49	2/13/2023	4	<0.050	< 0.050	< 0.050	<0.150	< 0.300	16.0	<10.0	16.0	128
FS-50	2/13/2023	4	<0.050	< 0.050	< 0.050	<0.150	< 0.300	57.9 460	10.9	68.8	208
FS-51	2/13/2023	4	< 0.050	< 0.050	< 0.050	<0.150	<0.300		80.7	541	608
FS-52	2/13/2023	4	< 0.050	< 0.050	< 0.050	<0.150	<0.300	248	46.9	295	128
FS-53	2/13/2023	4	< 0.050	< 0.050	< 0.050	<0.150	<0.300	19.0	<10.0	19.0	32.0
FS-54	2/13/2023	4	< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	272
FS-55	2/13/2023	4	< 0.050	< 0.050	< 0.050	<0.150	<0.300	14.7 454	<10.0	14.7	32.0
FS-56	2/13/2023	4	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	454 378	141	595	48.0
FS-57	2/13/2023	4	< 0.050	<0.050 <0.050	<0.050 <0.050	<0.150	<0.300	378 190	92.1	470 240	288
FS-58 FS-59	2/13/2023 2/13/2023	4	<0.050 <0.050	<0.050	<0.050	<0.150 <0.150	<0.300 <0.300	190	49.9 32.1	240	160 48.0
		4 4						418	-		
FS-60	2/13/2023		< 0.050	<0.050	< 0.050	<0.150	<0.300		86.5	505	112
FS-61	2/13/2023	4	< 0.050	<0.050	< 0.050	<0.150	< 0.300	13.8 17.9	15.6	29.4	1,180
FS-62 FS-63	2/13/2023	4 4	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	<0.300	<10.0	<10.0 <10.0	<b>17.9</b> <10.0	112 96.0
F3-03	2/13/2023	4	<0.050	<0.050	<0.050	<0.150 0.455	<0.300 0.455	2,015	<10.0 250	<10.0 2,265	32.0
FS-64	2/13/2023 3/2/2023	4	<0.050	<0.050	<0.050 NS	0.455	0.455	2,015	250 43.0		<u> </u>
FS-65	3/2/2023 9/19/2023	4 4	<0.050	<0.050	<0.050	<0.150	<0.300	35.2	<b>43.0</b> <10.0	260 35.2	NS 80.0
FS-65 FS-66	9/19/2023	4 4	<0.050	<0.050	<0.050	<0.150	< 0.300	<b>35.2</b> <10.0	<10.0	35.2 <10.0	64.0
FS-66 FS-67		4 4	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	832
FS-67 FS-68	9/19/2023 9/19/2023	4 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	832
FS-68 FS-69	9/19/2023	4 4	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	800
FS-69 FS-70	9/19/2023	4	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	1,650
FS-70 FS-71	9/19/2023	4	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	320
FS-71 FS-72	9/19/2023	4 4	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	144
FS-72 FS-73	9/19/2023	4	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	1,090
FS-74	9/19/2023	4 4	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	624
FS-74	9/19/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	208
FS-76	9/19/2023	4 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	320
FS-77	9/19/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
FS-78	9/19/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	48.0
FS-79	9/19/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	912
FS-80	9/19/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	1,090
FS-81	9/19/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	96.0
10-01	0/10/2023	+	-0.000	-0.000	-0.000	-0.100	-0.000	-10.0	-10.0	-10.0	30.0

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Received by OCD: 12/8/2023 12:35:03 PM

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					SAMPLE AN Sundance S Oxy	DS 11-1 SWD USA Inc. ty, New Mexi	BAT					
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 MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
	Conservation Soils Impacted (> 100 feet)	Division Closure by a Release	10	NE	NE	NE	50	1,000	D	NE	2,500	20,000
				Comp	osite Sidewall So	oil Sample Analy	tical Results					
SW-1	2/13/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	D	<10.0	<10.0	64.0
SW-2	2/13/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	D	23.2	23.2	288
SW-3	2/13/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	D	<10.0	<10.0	64.0
SW-4	2/13/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	D	<10.0	<10.0	<16.0
SW-5	2/13/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	D	<10.0	<10.0	16.0
SW-6	2/13/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	D	<10.0	<10.0	32.0
SW-7	2/13/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	2,604	4	534	3,138	576
300-7	3/2/2023	0 - 4			NS			<10.0	D	<10.0	<10.0	NS
SW-8	2/13/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	D	<10.0	<10.0	<16.0
SW-9	2/13/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	D	<10.0	<10.0	288
SW-10	9/19/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	D	<10.0	<10.0	16.0
SW-11	9/19/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	D	<10.0	<10.0	32.0
				Comp	osite Pothole So	il Sample Analy	ical Results					
		0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	828		213	1,041	3,160
SP-1	5/10/2022	1-2	<0.050	<0.050	<0.050	<0.150	<0.300	93.9		30.1	124	3,520
3F-1	5/10/2022	2 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	49.5		12.0	61.5	4,400
		3 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	26.7		<10.0	26.7	8,000
		0 - 1	<0.050	<0.050	0.160	1.63	1.79	3,947	7	835	4,782	7,600
SP-2	5/10/2022	1-2	<0.050	<0.050	<0.050	<0.150	<0.300	523		154	677	1,700
0F=2	5/10/2022	2 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	224		62.9	287	288
		3 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	321		65.3	386	272
		0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	1,170	0	302	1,472	3,440
SP-3	5/10/2022	1 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	445		119	564	2,960
35-3	J1 10/2022	2 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	104		30.9	135	3,680
		3-4	<0.050	<0.050	<0.050	<0.150	<0.300	31.4		<10.0	31.4	5,760
				Com	oosite Delineation	n Sample Analyt	ical Results					
North	5/10/2022	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
East	5/10/2022	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
South	5/10/2022	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
West	5/10/2022	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0

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

Over Excavated and/or Re-Sampled

bgs: below ground surface

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

Received by OCD: 12/8/2023 12:35:03 PM



# APPENDIX E

Laboratory Data Sheets and Chain-of-Custody Documentation



February 20, 2023

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

RE: SUNDANCE SDS 11-1 SWD/BAT

Enclosed are the results of analyses for samples received by the laboratory on 02/13/23 15:18.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 1 4' (H230667-01)

BTEX 8021B	mg,	/kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	1.85	92.3	2.00	2.46	
Toluene*	<0.050	0.050	02/17/2023	ND	2.20	110	2.00	9.08	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.40	120	2.00	6.62	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.15	119	6.00	3.88	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	149	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/15/2023	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	02/16/2023	ND	212	106	200	2.67	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	194	96.9	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	99.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

#### 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 2 4' (H230667-02)

BTEX 8021B	mg/kg		Analyzed By: ZZZ					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	1.85	92.3	2.00	2.46	
Toluene*	<0.050	0.050	02/17/2023	ND	2.20	110	2.00	9.08	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.40	120	2.00	6.62	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.15	119	6.00	3.88	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	143 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	02/15/2023	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	02/16/2023	ND	212	106	200	2.67	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	194	96.9	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 3 4' (H230667-03)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	1.85	92.3	2.00	2.46	
Toluene*	<0.050	0.050	02/17/2023	ND	2.20	110	2.00	9.08	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.40	120	2.00	6.62	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.15	119	6.00	3.88	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	148 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	02/15/2023	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	02/16/2023	ND	212	106	200	2.67	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	194	96.9	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	92.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.9	% 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 4 4' (H230667-04)

BTEX 8021B	mg/	′kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	1.85	92.3	2.00	2.46	
Toluene*	<0.050	0.050	02/17/2023	ND	2.20	110	2.00	9.08	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.40	120	2.00	6.62	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.15	119	6.00	3.88	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	146 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	02/15/2023	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	02/16/2023	ND	212	106	200	2.67	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	194	96.9	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	98.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 5 4' (H230667-05)

BTEX 8021B	mg/	/kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	1.85	92.3	2.00	2.46	
Toluene*	<0.050	0.050	02/17/2023	ND	2.20	110	2.00	9.08	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.40	120	2.00	6.62	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.15	119	6.00	3.88	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	150 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	80.0	16.0	02/15/2023	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	02/16/2023	ND	212	106	200	2.67	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	194	96.9	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	97.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 6 4' (H230667-06)

BTEX 8021B	mg/	′kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	1.85	92.3	2.00	2.46	
Toluene*	<0.050	0.050	02/17/2023	ND	2.20	110	2.00	9.08	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.40	120	2.00	6.62	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.15	119	6.00	3.88	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	155 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	80.0	16.0	02/15/2023	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	02/16/2023	ND	212	106	200	2.67	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	194	96.9	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	97.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 7 4' (H230667-07)

BTEX 8021B	mg/	′kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	1.85	92.3	2.00	2.46	
Toluene*	<0.050	0.050	02/17/2023	ND	2.20	110	2.00	9.08	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.40	120	2.00	6.62	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.15	119	6.00	3.88	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	158 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	02/15/2023	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	02/16/2023	ND	212	106	200	2.67	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	194	96.9	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	99.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 8 4' (H230667-08)

BTEX 8021B	mg/	′kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	1.85	92.3	2.00	2.46	
Toluene*	<0.050	0.050	02/17/2023	ND	2.20	110	2.00	9.08	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.40	120	2.00	6.62	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.15	119	6.00	3.88	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	149 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	02/15/2023	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	02/16/2023	ND	212	106	200	2.67	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	194	96.9	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 9 4' (H230667-09)

BTEX 8021B	mg/	′kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	1.85	92.3	2.00	2.46	
Toluene*	<0.050	0.050	02/17/2023	ND	2.20	110	2.00	9.08	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.40	120	2.00	6.62	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.15	119	6.00	3.88	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	153 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	02/15/2023	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	02/16/2023	ND	212	106	200	2.67	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	194	96.9	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.8	% 49.1-14	8						

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 10 4' (H230667-10)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	1.85	92.3	2.00	2.46	
Toluene*	<0.050	0.050	02/17/2023	ND	2.20	110	2.00	9.08	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.40	120	2.00	6.62	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.15	119	6.00	3.88	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	154 %	% 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	128	16.0	02/15/2023	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	02/15/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					
Surrogate: 1-Chlorooctane	114 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131 9	49.1-14	8						

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 11 4' (H230667-11)

BTEX 8021B	mg/	/kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	1.85	92.3	2.00	2.46	
Toluene*	<0.050	0.050	02/17/2023	ND	2.20	110	2.00	9.08	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.40	120	2.00	6.62	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.15	119	6.00	3.88	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	152 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/15/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d 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	02/16/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	313	10.0	02/16/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	109	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	160 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 12 4' (H230667-12)

BTEX 8021B	mg/	′kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	1.85	92.3	2.00	2.46	
Toluene*	<0.050	0.050	02/17/2023	ND	2.20	110	2.00	9.08	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.40	120	2.00	6.62	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.15	119	6.00	3.88	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	157 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	96.0	16.0	02/15/2023	ND	448	112	400	3.64	
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	02/16/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 13 4' (H230667-13)

BTEX 8021B	mg/	′kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	1.85	92.3	2.00	2.46	
Toluene*	<0.050	0.050	02/17/2023	ND	2.20	110	2.00	9.08	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.40	120	2.00	6.62	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.15	119	6.00	3.88	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	161 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	02/15/2023	ND	448	112	400	3.64	
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	02/16/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 14 4' (H230667-14)

BTEX 8021B	mg/	′kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	1.85	92.3	2.00	2.46	
Toluene*	<0.050	0.050	02/17/2023	ND	2.20	110	2.00	9.08	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.40	120	2.00	6.62	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.15	119	6.00	3.88	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	158 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	02/15/2023	ND	448	112	400	3.64	
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	02/16/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 15 4' (H230667-15)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	1.85	92.3	2.00	2.46	
Toluene*	<0.050	0.050	02/17/2023	ND	2.20	110	2.00	9.08	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.40	120	2.00	6.62	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.15	119	6.00	3.88	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	153 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	176	16.0	02/15/2023	ND	448	112	400	3.64	
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	02/16/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	44.9	10.0	02/16/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	103 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

#### Sample ID: FS - 16 4' (H230667-16)

BTEX 8021B	mg/	'kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	1.85	92.3	2.00	2.46	
Toluene*	<0.050	0.050	02/17/2023	ND	2.20	110	2.00	9.08	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.40	120	2.00	6.62	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.15	119	6.00	3.88	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	155 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	176	16.0	02/15/2023	ND	448	112	400	3.64	
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	02/16/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	124	10.0	02/16/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	23.4	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	90.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 17 4' (H230667-17)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	1.85	92.3	2.00	2.46	
Toluene*	<0.050	0.050	02/17/2023	ND	2.20	110	2.00	9.08	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.40	120	2.00	6.62	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.15	119	6.00	3.88	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	172 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	112	16.0	02/15/2023	ND	448	112	400	3.64	
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	02/16/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	110 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 18 4' (H230667-18)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	1.85	92.3	2.00	2.46	
Toluene*	<0.050	0.050	02/17/2023	ND	2.20	110	2.00	9.08	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.40	120	2.00	6.62	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.15	119	6.00	3.88	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	168 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	02/15/2023	ND	448	112	400	3.64	
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	02/16/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	102 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 19 4' (H230667-19)

BTEX 8021B	mg/	′kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	143 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	02/15/2023	ND	448	112	400	3.64	
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	02/16/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 20 4' (H230667-20)

BTEX 8021B	mg,	′kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	140	% 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	288	16.0	02/15/2023	ND	448	112	400	3.64	
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	02/16/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	260	10.0	02/16/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	50.7	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	95.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 21 4' (H230667-21)

BTEX 8021B	mg,	/kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	152	% 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	1310	16.0	02/15/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d 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	02/16/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	2630	10.0	02/16/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	477	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	190	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 22 4' (H230667-22)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	135 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	1090	16.0	02/15/2023	ND	448	112	400	3.64	
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	02/16/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	440	10.0	02/16/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	70.6	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	112 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	136 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 23 4' (H230667-23)

BTEX 8021B	mg/	/kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	142 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	02/15/2023	ND	448	112	400	3.64	
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	02/16/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 24 4' (H230667-24)

BTEX 8021B	mg/	/kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	142 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	02/15/2023	ND	448	112	400	3.64	
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	02/16/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 25 4' (H230667-25)

BTEX 8021B	mg/	/kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	141 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	64.0	16.0	02/15/2023	ND	448	112	400	3.64	
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	02/16/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	62.0	10.0	02/16/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	10.4	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

#### Sample ID: FS - 26 4' (H230667-26)

BTEX 8021B	mg/	/kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	GC-NC
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	146 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	96.0	16.0	02/15/2023	ND	448	112	400	3.64	
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	02/16/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	1080	10.0	02/16/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	227	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	142 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

#### Sample ID: FS - 27 4' (H230667-27)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	139 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	80.0	16.0	02/15/2023	ND	448	112	400	3.64	
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	02/16/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	753	10.0	02/16/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	157	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	104 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	137 9	6 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 28 4' (H230667-28)

BTEX 8021B	mg/	′kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	145 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	208	16.0	02/15/2023	ND	448	112	400	3.64	
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	02/16/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	52.8	10.0	02/16/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	98.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 29 4' (H230667-29)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	152 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/15/2023	ND	448	112	400	3.64	
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	02/16/2023	ND	196	97.8	200	1.19	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	203	101	200	0.753	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	115 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123 9	6 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 30 4' (H230667-30)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	139 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	80.0	16.0	02/15/2023	ND	448	112	400	3.64	
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	02/15/2023	ND	207	104	200	5.65	
DRO >C10-C28*	181	10.0	02/15/2023	ND	209	104	200	4.50	QM-07
EXT DRO >C28-C36	42.8	10.0	02/15/2023	ND					
Surrogate: 1-Chlorooctane	97.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	6 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 31 4' (H230667-31)

BTEX 8021B	mg/	′kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	148 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	80.0	16.0	02/15/2023	ND	448	112	400	7.41	
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	02/15/2023	ND	207	104	200	5.65	
DRO >C10-C28*	113	10.0	02/15/2023	ND	209	104	200	4.50	
EXT DRO >C28-C36	34.7	10.0	02/15/2023	ND					
Surrogate: 1-Chlorooctane	90.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 32 4' (H230667-32)

BTEX 8021B	mg,	′kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	151	% 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	64.0	16.0	02/15/2023	ND	448	112	400	7.41	
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	02/15/2023	ND	207	104	200	5.65	
DRO >C10-C28*	208	10.0	02/15/2023	ND	209	104	200	4.50	
EXT DRO >C28-C36	58.5	10.0	02/15/2023	ND					
Surrogate: 1-Chlorooctane	127	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	139	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 33 4' (H230667-33)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	149 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	176	16.0	02/15/2023	ND	448	112	400	7.41	
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	02/15/2023	ND	207	104	200	5.65	
DRO >C10-C28*	68.0	10.0	02/15/2023	ND	209	104	200	4.50	
EXT DRO >C28-C36	14.1	10.0	02/15/2023	ND					
Surrogate: 1-Chlorooctane	99.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 34 4' (H230667-34)

BTEX 8021B	mg/	/kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	147 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	272	16.0	02/15/2023	ND	448	112	400	7.41	
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	02/15/2023	ND	207	104	200	5.65	
DRO >C10-C28*	27.0	10.0	02/15/2023	ND	209	104	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 35 4' (H230667-35)

BTEX 8021B	mg,	/kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	151	% 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	496	16.0	02/15/2023	ND	448	112	400	7.41	
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	02/15/2023	ND	207	104	200	5.65	
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	209	104	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.7	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 36 4' (H230667-36)

BTEX 8021B	mg,	′kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	GC-NC
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	173	% 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	672	16.0	02/15/2023	ND	448	112	400	7.41	
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*	11.8	10.0	02/15/2023	ND	207	104	200	5.65	
DRO >C10-C28*	1140	10.0	02/15/2023	ND	209	104	200	4.50	
EXT DRO >C28-C36	231	10.0	02/15/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	141	% 49.1-14	8						

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Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 37 4' (H230667-37)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	148 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	208	16.0	02/15/2023	ND	448	112	400	7.41	
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	02/15/2023	ND	207	104	200	5.65	
DRO >C10-C28*	70.6	10.0	02/15/2023	ND	209	104	200	4.50	
EXT DRO >C28-C36	24.0	10.0	02/15/2023	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

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Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 38 4' (H230667-38)

BTEX 8021B	mg,	/kg	Analyze	d By: ZZZ					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.01	100	2.00	1.75	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	1.99	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.39	120	2.00	3.05	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	7.33	122	6.00	3.77	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	141	% 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	464	16.0	02/15/2023	ND	448	112	400	7.41	
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	02/15/2023	ND	207	104	200	5.65	
DRO >C10-C28*	30.5	10.0	02/15/2023	ND	209	104	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

### Sample ID: FS - 39 4' (H230667-39)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	1150	16.0	02/15/2023	ND	448	112	400	7.41	
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	02/15/2023	ND	207	104	200	5.65	
DRO >C10-C28*	102	10.0	02/15/2023	ND	209	104	200	4.50	
EXT DRO >C28-C36	26.5	10.0	02/15/2023	ND					
Surrogate: 1-Chlorooctane	97.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 40 4' (H230667-40)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	02/15/2023	ND	448	112	400	7.41	
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	02/15/2023	ND	207	104	200	5.65	
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	209	104	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 41 4' (H230667-41)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	208	16.0	02/15/2023	ND	448	112	400	7.41	
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	02/15/2023	ND	207	104	200	5.65	
DRO >C10-C28*	17.2	10.0	02/15/2023	ND	209	104	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 42 4' (H230667-42)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	0.136	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	144	16.0	02/15/2023	ND	448	112	400	7.41	
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	02/15/2023	ND	207	104	200	5.65	
DRO >C10-C28*	12.6	10.0	02/15/2023	ND	209	104	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					
Surrogate: 1-Chlorooctane	96.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.2	% 49.1-14	8						

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 43 4' (H230667-43)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	336	16.0	02/15/2023	ND	448	112	400	7.41	
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	02/16/2023	ND	207	104	200	5.65	
DRO >C10-C28*	49.9	10.0	02/16/2023	ND	209	104	200	4.50	
EXT DRO >C28-C36	12.6	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 44 4' (H230667-44)

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	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	320	16.0	02/15/2023	ND	448	112	400	7.41	
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	02/16/2023	ND	207	104	200	5.65	
DRO >C10-C28*	116	10.0	02/16/2023	ND	209	104	200	4.50	
EXT DRO >C28-C36	29.5	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 45 4' (H230667-45)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	02/15/2023	ND	448	112	400	7.41	
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	02/16/2023	ND	207	104	200	5.65	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	209	104	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	114 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

### Sample ID: FS - 46 4' (H230667-46)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	02/15/2023	ND	448	112	400	7.41	
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	02/16/2023	ND	207	104	200	5.65	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	209	104	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 47 4' (H230667-47)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	02/15/2023	ND	448	112	400	7.41	
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	02/16/2023	ND	207	104	200	5.65	
DRO >C10-C28*	55.9	10.0	02/16/2023	ND	209	104	200	4.50	
EXT DRO >C28-C36	11.6	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	104 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

### Sample ID: FS - 48 4' (H230667-48)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	336	16.0	02/15/2023	ND	448	112	400	7.41	
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	02/16/2023	ND	207	104	200	5.65	
DRO >C10-C28*	42.0	10.0	02/16/2023	ND	209	104	200	4.50	
EXT DRO >C28-C36	11.4	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	125 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

### Sample ID: FS - 49 4' (H230667-49)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	128	16.0	02/15/2023	ND	448	112	400	7.41	
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	02/16/2023	ND	207	104	200	5.65	
DRO >C10-C28*	16.0	10.0	02/16/2023	ND	209	104	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	113 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 50 4' (H230667-50)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	208	16.0	02/15/2023	ND	448	112	400	7.41	
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	02/15/2023	ND	213	107	200	4.62	
DRO >C10-C28*	57.9	10.0	02/15/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	10.9	10.0	02/15/2023	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 51 4' (H230667-51)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	02/15/2023	ND	416	104	400	3.77	QM-07
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2023	ND	213	107	200	4.62	
DRO >C10-C28*	460	10.0	02/15/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	80.7	10.0	02/15/2023	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 52 4' (H230667-52)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	213	107	200	4.62	
DRO >C10-C28*	248	10.0	02/16/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	46.9	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 53 4' (H230667-53)

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	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	213	107	200	4.62	
DRO >C10-C28*	19.0	10.0	02/16/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

### Sample ID: FS - 54 4' (H230667-54)

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	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 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	272	16.0	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	213	107	200	4.62	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

### Sample ID: FS - 55 4' (H230667-55)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	213	107	200	4.62	
DRO >C10-C28*	14.7	10.0	02/16/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 56 4' (H230667-56)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	213	107	200	4.62	
DRO >C10-C28*	454	10.0	02/16/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	141	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	109 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 57 4' (H230667-57)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	288	16.0	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	213	107	200	4.62	
DRO >C10-C28*	378	10.0	02/16/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	92.1	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 58 4' (H230667-58)

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	02/17/2023	ND	2.08	104	2.00	5.06	
Toluene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.87	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	2.08	104	2.00	4.65	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	6.23	104	6.00	4.38	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	160	16.0	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	213	107	200	4.62	
DRO >C10-C28*	190	10.0	02/16/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	49.9	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 59 4' (H230667-59)

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	02/17/2023	ND	2.05	103	2.00	3.69	
Toluene*	<0.050	0.050	02/17/2023	ND	2.02	101	2.00	3.68	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	1.96	98.1	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	5.97	99.5	6.00	3.58	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	213	107	200	4.62	
DRO >C10-C28*	112	10.0	02/16/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	32.1	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

### Sample ID: FS - 60 4' (H230667-60)

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	02/17/2023	ND	2.05	103	2.00	3.69	
Toluene*	<0.050	0.050	02/17/2023	ND	2.02	101	2.00	3.68	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	1.96	98.1	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	5.97	99.5	6.00	3.58	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	112	16.0	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	213	107	200	4.62	
DRO >C10-C28*	418	10.0	02/16/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	86.5	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	142 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 61 4' (H230667-61)

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	02/17/2023	ND	2.05	103	2.00	3.69	
Toluene*	<0.050	0.050	02/17/2023	ND	2.02	101	2.00	3.68	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	1.96	98.1	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	5.97	99.5	6.00	3.58	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	1180	16.0	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	213	107	200	4.62	
DRO >C10-C28*	13.8	10.0	02/16/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	15.6	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	115 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 62 4' (H230667-62)

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	02/17/2023	ND	2.05	103	2.00	3.69	
Toluene*	<0.050	0.050	02/17/2023	ND	2.02	101	2.00	3.68	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	1.96	98.1	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	5.97	99.5	6.00	3.58	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	112	16.0	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	213	107	200	4.62	
DRO >C10-C28*	17.9	10.0	02/16/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 63 4' (H230667-63)

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	02/17/2023	ND	2.05	103	2.00	3.69	
Toluene*	<0.050	0.050	02/17/2023	ND	2.02	101	2.00	3.68	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	1.96	98.1	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	5.97	99.5	6.00	3.58	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	96.0	16.0	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	213	107	200	4.62	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 64 4' (H230667-64)

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	02/17/2023	ND	2.05	103	2.00	3.69	
Toluene*	<0.050	0.050	02/17/2023	ND	2.02	101	2.00	3.68	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	1.96	98.1	2.00	4.10	
Total Xylenes*	0.455	0.150	02/17/2023	ND	5.97	99.5	6.00	3.58	
Total BTEX	0.455	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	131	% 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	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	54.6	10.0	02/16/2023	ND	213	107	200	4.62	
DRO >C10-C28*	1960	10.0	02/16/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	250	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: SW - 1 0-4' (H230667-65)

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	02/17/2023	ND	2.05	103	2.00	3.69	
Toluene*	<0.050	0.050	02/17/2023	ND	2.02	101	2.00	3.68	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	1.96	98.1	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	5.97	99.5	6.00	3.58	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	64.0	16.0	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	213	107	200	4.62	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	108 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: SW - 2 0-4' (H230667-66)

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	02/17/2023	ND	2.05	103	2.00	3.69	
Toluene*	<0.050	0.050	02/17/2023	ND	2.02	101	2.00	3.68	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	1.96	98.1	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	5.97	99.5	6.00	3.58	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	288	16.0	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	213	107	200	4.62	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	23.2	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	115 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: SW - 3 0-4' (H230667-67)

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	02/17/2023	ND	2.05	103	2.00	3.69	
Toluene*	<0.050	0.050	02/17/2023	ND	2.02	101	2.00	3.68	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	1.96	98.1	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	5.97	99.5	6.00	3.58	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	64.0	16.0	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	213	107	200	4.62	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: SW - 4 0-4' (H230667-68)

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	02/17/2023	ND	2.05	103	2.00	3.69	
Toluene*	<0.050	0.050	02/17/2023	ND	2.02	101	2.00	3.68	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	1.96	98.1	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	5.97	99.5	6.00	3.58	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	<16.0	16.0	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	213	107	200	4.62	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	104 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: SW - 5 0-4' (H230667-69)

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	02/17/2023	ND	2.05	103	2.00	3.69	
Toluene*	<0.050	0.050	02/17/2023	ND	2.02	101	2.00	3.68	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	1.96	98.1	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	5.97	99.5	6.00	3.58	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	16.0	16.0	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	213	107	200	4.62	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	206	103	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	106 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	6 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: SW - 6 0-4' (H230667-70)

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	02/17/2023	ND	2.05	103	2.00	3.69	
Toluene*	<0.050	0.050	02/17/2023	ND	2.02	101	2.00	3.68	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	1.96	98.1	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	5.97	99.5	6.00	3.58	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	202	101	200	0.302	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	180	89.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: SW - 7 0-4' (H230667-71)

BTEX 8021B	mg/	kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2023	ND	2.05	103	2.00	3.69	
Toluene*	<0.050	0.050	02/17/2023	ND	2.02	101	2.00	3.68	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	1.96	98.1	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	5.97	99.5	6.00	3.58	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	135 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	576	16.0	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	44.0	10.0	02/16/2023	ND	202	101	200	0.302	
DRO >C10-C28*	2560	10.0	02/16/2023	ND	180	89.9	200	5.34	
EXT DRO >C28-C36	534	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	49.1-14	8						

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Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: SW - 8 0-4' (H230667-72)

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	02/17/2023	ND	2.05	103	2.00	3.69	
Toluene*	<0.050	0.050	02/17/2023	ND	2.02	101	2.00	3.68	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	1.96	98.1	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	5.97	99.5	6.00	3.58	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	<16.0	16.0	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	202	101	200	0.302	
DRO >C10-C28*	<10.0	10.0	02/17/2023	ND	180	89.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: SW - 9 0-4' (H230667-73)

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	02/17/2023	ND	2.05	103	2.00	3.69	
Toluene*	<0.050	0.050	02/17/2023	ND	2.02	101	2.00	3.68	
Ethylbenzene*	<0.050	0.050	02/17/2023	ND	1.96	98.1	2.00	4.10	
Total Xylenes*	<0.150	0.150	02/17/2023	ND	5.97	99.5	6.00	3.58	
Total BTEX	<0.300	0.300	02/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 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	288	16.0	02/15/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	202	101	200	0.302	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	180	89.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					
Surrogate: 1-Chlorooctane	116 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 9	% 49.1-14	8						

## 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.
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-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose site to the services interruptors, loss of profits incurred by client, its subsidiaries, afflictes or successor arising out of or related to the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Delivered By: (Circle One) Sampler - UPS - Bus - Ott	Relinquished By:	lip	Relinquished By:	analyses. All claims including service. In no event shall Car affiliates or successors arising	( O LEASE NOTE: Liability and Dan	0	Ā	7	6	v	4	w	ىو		Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name: Sundance	Project #: 63 B	Phone #: 210-21	City: Midland	Address: 601 N	Project Manager:	Company Name:	
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Verbal Result: 
Yes No Add'I Phone #:
All Results are emailed. Please provide Email address: BJennings@ensolum.com

made in writing and received by Cardinal within 30 days after completion of the applicable ness interruptions, loss of use, or loss of prolits incurred by client. Its a having helps are how -

such claim is based upon any of the above state

pt verbal changes. Please email changes to celey.keene@cardinallabsnm.com ol Intact Yes Yes No No No Bacteria (only) Sample Condition Cool Intact Observed Temp. Yes Yes Nc No Corrected Temp.

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ample Condition

CHECKED BY: lininals 0

Turnaround Time:

Rush Standard

Observed Temp. °C Corrected Temp. °C

Thermometer ID #113

rraction Factor

REMARKS:

City:

Midland

Address:

Project Manager: Company Name:

Phone #: 210-219-8858

Page 77 of 83

Received by OCD: 12/8/2023 12:35:03 PM

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## CARDINAL

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager: Beaux Jennings Address: 601 N Marienfeld Street, City: Midland	Project Manager: Beaux Jennings Address: 601 N Marienfeld Street, Suite 400 City: Midland Stai	Suite 400 State: TX	Zip	Zip: 79701	701					P.O. Com	npa	ny:		P.O. #: Company: Oxy USA Inc Attn: Wade Dittrich					/								-			
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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Page 79 of 83

Company Name	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: Ensolum, LLC	Hobbs, NM 88 AX (575) 393-2	240	1		1				- C					2	1 70			6	0		5 00 0				6	0		2	ΞI		i l	1
Company Maine	: Ensolum, LLC									+		1			12	BILL TO			1	1			N	Ň	E	ANALYSIS	S	R	REQUEST	č	l 1 1 1	1 <sup>4</sup>	1.1
Project Manage	Project Manager: Beaux Jennings									-	P.O.	0	*									/	_		-				_		_		
Address: 601 N	Address: 601 N Marienfeld Street, Suite 400	ite 400			1					-	8	ă.	par	IV:	0	Company: Oxy USA Inc	5					-	_										
City: Midland		State: TX	Zip: 79701	79	701					-	A	ä	\$	ad	Ê	Attn: Wade Dittrich						-	2		_				_				
Phone #: 210-219-8858	9-8858	Fax #:								_	A	9	Address:								-		/		-		_		_				
Project #: 02	03R/417042	Project Owner:	ä							-	City:	2						- 1					_	/	T	77	-						
Project Name:	Sundance St	11-1 SWA	NIB	2	1					-	Sta	State:				Zio:						-	_	1	_				_				
Project Location:		NIN								-	3	9	0		3	Phone #: 575-390-2828							_		/		-						
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LEASE NOTE: Liability and natyses. All claims including ervice. In no event shell Car fillates or successors arising	(EASE NOTE: Lability into Damages, Cardina's lability and client's actuave remoty for any claim ativing whether based in contract or fort, shall be limited to the amount paid by the client for the malyees. All claims including hose for negligance and any other cause whatboewer shall be denoted valued unleas made in writing and neowed by Cardinal within 30 days after completion of the applicable nervice. In no event hall Cardinal Se liable for incidential or consequential damages, including without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, limites or successors anishing 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 other-wes.	nî's exclusive remedy for any claim arising whether ause whatboever shall be deemed walwed unless r puental damages, including without limitation, buain of services hereunder by Cardinal, regardese of w	ny claim a deemed w 3 without li ardinal, re	irising valved mitatio	whet unles on, bu	her bu sa ma sines sines	de in s inte	writin mupt	ntrac figns, dain	loss loss	ort, of L	shai ed b lite, lite,	or lo on ar	rdina es of	prof the	seed in contract or fort, shall be limited to the amount paid by the client for 8 do in writing and neoelved by Cardinal writin 30 days after completion of the a Interruptions, loss of use, or joss of profile incurred by client, its subsidiaries ther such claim is based upon any of the above stated reasons or offerwise ther such claim is based upon any of the above stated reasons or offerwise there such claim.	by the clies completion ent, its sub	nt for i sidiari	he spplicab	ō									1		-		- 1
celinquished By:		SS	Received By		1 Ka		O I	~	6	6	2	2	2	leigne		5	Verbal Result:   Ye All Results are emailed.	ults	are er	□ Yes nailed.	0	No [Add'] Phone #: Please provide Email address:	A	En	Ph	ado	re #	ŝ					
telinq <del>tiished</del> By:		Date: Time:	Received By:	eive	d	SY:										9	REMARKS:	RKS															

Re Rama service Sampler - UPS - Bus - Other: Т T Delivered By: (Circle One) Т Corr Observed Temp 807ed † Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com Temp ĉ 0 r Sample Condition Yes Yes CHECKED BY: (Initials) Thermometer ID #113 Correction Factor -0.5°C Turnaround Time: Ò Standard 6 C Bacteria (only) Sample Condition Cool Intact Observed Temp. Vet Yes Nc No Corrected Temp. Corrected Temp, °C Observed Temp. °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

aboratories ARDINAL

	(575) 393-2326 FAX (575) 393-2476	(575) 393-2326 FAX (575) 393-2476	476									C					
Company Name: Ensolum, LLC	Ensolum, LLC							BILL TO				0	ANAL	ANALYSIS REC	REQUEST		
Project Manager: Beaux Jennings	Beaux Jennings					P.O.	*			4	$\neg$	-				-	
Address: 601 N Marienfeld Street, Suite 400	arienfeld Street,	Suite 400				Com	pany:	Company: Oxy USA Inc.	ę		_	/					
City: Midland		State: TX	Zip:	Zip: 79701	71	Attn:	Wade	Attn: Wade Dittrich			_	_			_		
Phone #: 210-219-8858	8858	Fax #:				Address:	ess:					5	/	_			
Project #: 037	03814170412	Project Owner:	a			City:							/		_		
Project Name:	Sundande	11-11 SDS	SW	SWD/	BAT	State:	ñ	Zip:		_	_			NG	_		
Project Location:	Edy G	anty NM				Phon	10 # 5	Phone #: 575-390-2828		_	_	_		2	5		
Sampler Name:	KS SAM	24				Fax #:	74					_		12	2/13/2/5		
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LEASE NOTE: Lability and Damages. Cardinal's liability and mayees. All claims including those for negligence and any oth envice. In no event shall Cardinal be liable for incidential or co	amages. Cardinal's liability and cli lose for negligence and any other liable for incidental or conse	client's exclusive rem er cause whatsoever nsequental damages.	edy for any claim an shall be deemed wa including without lim	arising w waived u	g whether based in contract or fort, shall a d unless made in writing and received by ton, business interruptions, loss of use, or	r tort, shu received	all be filmite by Cardina or loss of	I be limited to the amount paid by the client for the y Cardinal within 30 days after completion of the or loss of profits incurred by client, its subaldarise	It paid by the client for the rs after completion of the applicable d by client, its subsidiaries.	pplicable	ł	ć				ł	
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LOKW-POD K	3.2 10/07/21	+ Cardinal o	annot	ACC	Cardinal cannot accept verbal changes. Please email changes to celev keene@cardinallabsnm.com	-	1		Correction	alov koonoli		linallabe			Consciencial Talliby C		

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Laboratories	ID F	Q	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	Г
101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	88240 3-2476		-	
Company Name: Ensolum, LLC		BILL TO	ANALYSIS REQUEST	1
Project Manager: Beaux Jennings	P.O. #:	. #:		_
Address: 601 N Marienfeld Street, Suite 400	Con	Company: Oxy USA Inc.		
City: Midland State: TX	Zip: 79701 Attn	Attn: Wade Dittrich		_
-219-8858		Address:		_
Project #: GRR 14/7042 Project Owner:	vner: City:	'n		
me: Sundance SDS 11-1	VIBAT	te: Zip:		_
on: Elly landy why		Phone #: 575-390-2828		
KS SIANA	Fax #:			_
2	MATRIX	PRESERV. SAMPLING		
Lab I.D. Sample I.D. (feet)	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER : DATE	BTEX TPH Chlorides	
10 65-61 4	- 1 × ×	x 2/13/23	13/2 X X X 13/8 X X X	
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PLEASE NOTE: Liability and Damages, Cardinar'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 may other cause whotsoever shall be deemed waived unless made in witting and received by Cardinal within 30 days after completion of the applicable analyses. In no went 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, aeroke. In no went 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,	edy for any claim anising whether based in contract or tort, shall be deemed waived unless made in writing and receit including without limitation, business interruptions, loss of	or or tort, shall be limited to the amount paid by the client for the and received by Cardinal within 30 days after completion of the ar- e, loss of use, or loss of profils incurred by client, its subsidiaries	y the client for the completion of the applicable or it is subsidiarities.	
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Relinquished By: Date: Time:	Received By:		REMARKS:	
(Circle O	Sample Condition	CHECKED BY:	me:     Standard     Bacteria (only) S       Rush     Cool Intact       #113     Image: Cool Intact	
Sampler - UPS - Dus - Ourer. Corresses 100		0 Plases smail char	keene@cardinallabsnm.cc	ĺ

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	aborz 01 East Marland	and, Hobbs, NM 88240	240 N		IC		Ra.	RE. S & S	
-	01 East Marland (575) 393-2326	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	240				Rs.	0 ~ 0	
Company Name: Ensolum, LLC	Ensolum, LLC				BILL TO		ANA	ANALYSIS REQUEST	
Project Manager: Beaux Jennings	Beaux Jennings			P.O. #:					
ddress: 601 N M	Address: 601 N Marienfeld Street, Suite 400	Suite 400		Compan	Company: Oxy USA Inc.				
City: Midland		State: TX	Zip: 79701	Attn: Wa	Attn: Wade Dittrich		/		
Phone #: 210-219-8858	-8858	Fax #:		Address:					
Project #: 0.34	38/4/2042	Project Owner:	er:	City:					
ame:	Sundance S	TX 11-1 SUD	DIBAT	State:	Zip:		_	NEE	
Project Location:		NIN		Phone #	Phone #: 575-390-2828		_	/	
Sampler Name:	KS SA			Fax #:					4
FOR LAB USE ONLY			R	MATRIX	ERV, SAMPLING	ING	<i>e</i> 8	AICITY A	0
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER	SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL	OTHER :	TIME BTEX TP4	Chloride		jum /KS
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10	UNP 1	0	·		CRACK.				
PLEASE NOTE: Liability and Dam analyses. All claims including those service. In no event shall Cardinal I	PLEASE NOTE: Liability and Damages. Cardinal's liability and analyses. All claims including those for negligence and any ofh service. In no event shall Cardinal be liable for incidental or con	동 역 음	ent's exclusive remedy for any claim arising whether ba cause whatsoever shall be deemed valved unless ma quental damages, including without limitation, busines	sther based in contract or tort, shall be limited to the amount pad by the client for the sea made in writing and necesived by Cardinal within 30 days after completion of the vulnieses interruptions, loss of use, or loss of profils insurred by client, its subsidiaries of unema and days in a knowed upon any of the above stated research or otherwise.	timited to the amount paid ardinal within 30 days after loss of profits incurred by clipses any of the above stated real	rt, skall be limited to the amount paid by the client for the weed by Cardinal within 30 days after completion of the applicable of use, or less of profils incurred to client, its subsidiaries, and unon any of the about stated reasons or otherwise.			
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Relinquished By:		Daté: Time:	Received By:	0	C	REMARKS:			
Delivered By: (Circle One) Sampler - UPS - Bus - Ot	lircle One) Bus - Other:	Observed Temp. *( Corrected Temp. *	Samp	le Condition Intact es Z Yes	CHECKED BY:	Turnaround Time: Thermometer ID #113	Rush D.102	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Ves Yes Corrected Temp. °C	ample Condition Observed Temp. °C
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March 06, 2023

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

RE: SUNDANCE SDS 11-1 SWD/BAT

Enclosed are the results of analyses for samples received by the laboratory on 03/02/23 10:58.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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:	03/02/2023	Sampling Date:	03/02/2023
Reported:	03/06/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: SW - 7 0 - 4' (H230974-01)

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	03/03/2023	ND	185	92.4	200	3.52	
DRO >C10-C28*	<10.0	10.0	03/03/2023	ND	195	97.7	200	0.0686	
EXT DRO >C28-C36	<10.0	10.0	03/03/2023	ND					
Surrogate: 1-Chlorooctane	76.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.8	% 49.1-14	8						

## Sample ID: FS - 21 4' (H230974-02)

TPH 8015M	mg/l	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	03/03/2023	ND	185	92.4	200	3.52	
DRO >C10-C28*	139	10.0	03/03/2023	ND	195	97.7	200	0.0686	
EXT DRO >C28-C36	48.9	10.0	03/03/2023	ND					
Surrogate: 1-Chlorooctane	72.5 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.2 %	6 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:	03/02/2023	Sampling Date:	03/02/2023
Reported:	03/06/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 26 4' (H230974-03)

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	03/03/2023	ND	185	92.4	200	3.52	
DRO >C10-C28*	<10.0	10.0	03/03/2023	ND	195	97.7	200	0.0686	
EXT DRO >C28-C36	<10.0	10.0	03/03/2023	ND					
Surrogate: 1-Chlorooctane	93.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.9	% 49.1-14	8						

## Sample ID: FS - 36 4' (H230974-04)

TPH 8015M	mg/l	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	03/03/2023	ND	185	92.4	200	3.52	
DRO >C10-C28*	334	10.0	03/03/2023	ND	195	97.7	200	0.0686	
EXT DRO >C28-C36	83.7	10.0	03/03/2023	ND					
Surrogate: 1-Chlorooctane	91.6%	48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 %	6 49.1-14	8						

## **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:	03/02/2023	Sampling Date:	03/02/2023
Reported:	03/06/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Tamara Oldaker
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 64 4' (H230974-05)

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	03/03/2023	ND	185	92.4	200	3.52	
DRO >C10-C28*	217	10.0	03/03/2023	ND	195	97.7	200	0.0686	
EXT DRO >C28-C36	43.0	10.0	03/03/2023	ND					
Surrogate: 1-Chlorooctane	97.1 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 %	6 49.1-14	8						

## Cardinal Laboratories

\*=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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Hobbe NM 88240

Project Manager: Beaux Jennings P.O. #:	0	BILL TO	ANALYSIS REQUEST
	: Beaux Jennings		
Address: 601 N. Marienfeld St. STE 400 Company:	I. Marienfeld St. STE 400	ipany: Oxy USA, Inc.	
lidland State: TX Zip: 79701 Attn:	State: TX Zip: 79701	: Wade Dittrich	
Phone #: 210-219-8858 Fax #: Address:	Fax #:	ress:	
Chotiniciso	SJD1417042 Project Owner:		
me: Sundance SIDS 11-1 SWID/BAT	Sundarie SIDS 11-1 SUID/BAT	e: Zip:	
32,240,480,-103,725,720	32.240 480, -103, 725 220	#: 575-390-2828	
	Kailee Smith		
MATRIX	MATRIX	PRESERV. SAMPLING	
H230974 Sample I.D. (feet) (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE:	Sample I.D. (feet) SPRAB OR (C)OMP CONTAINERS ROUNDWATER ASTEWATER DIL LUDGE THER :		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	# G S O S O S O	1 322 0852 4	
r 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 ×		
FS-26		7 3-2-23 0854 7	
FS-36 4' +	FS-26 U' 0 # 0 % 8 0 8 0	3-2-230	
FS-UU U' X	Sw-7 0-41 0 * 0 * 0 * 0 * 0	3-2-23 0854	
NAC.	Sw-7 0-11 0 # 0 % 50 0 50 0 50 0 50 0 50 0 50 0 5	3-2-23 0854 3-2-23 0856 3-2-23 0856	
55/-	$   \begin{array}{ccccccccccccccccccccccccccccccccccc$	3-2-23 0854 3-2-23 0856 3-2-23 0858	
y claim arising whether based in leemed waived unless made in w without limitation, business interr	4 4 4 4 4 4 4 4 4 4 4 4 4 4	3-2-23 0854 3-2-23 0856 3-2-23 0460	
Time: < 2 Received By:	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	pplicable	
	Image: Contracts tablity and clearity an	X     3-2-73     0854     1       K     3-7-73     0858     4       X     3-7-73     0858     4       X     3-7-73     0858     4       X     3-7-73     0868     4       Y     0498     14     14       X     1400     14     14	0854     1       0856     1       0857     1       0858     1       19     1       19     1       19     1       19     1       19     1       19     1       19     1       19     1       19     1       19     1       19     1       19     1       19     1       19     1       10     1
Delivered By: (Circle One)     Observed Temp, *C 2,8     Sample Condition     CHECKED BY:       Sampler - UPS - Bus - Other:     Corrected Temp, *C 2,3     Cool Intact, (Initials)     (Initials)	If     Swith     Signal	X     3-2-73     0854     1       X     3-2-73     0858     4       X     3-2-73     0858     4       X     3-2-73     0858     4       X     3-2-73     0868     4       X     3-2-73     0868     4       X     3-2-73     0868     4       X     3-2-73     0868     4       Y     3-2-73     0868     4       Y     3-2-73     0868     4       Y     3-2-73     0868     4       Y     3-2-73     0968     4       Y     1     1     1       Jupper state     1     1     1       Jupper state     Y     1     1       Jupper state     1 <td>C No Add' Phone #:</td>	C No Add' Phone #:

Received by OCD: 12/8/2023 12:35:03 PM

**CARDINAL** Laboratories



September 25, 2023

BEAUX JENNINGS ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SUNDANCE SDS 11-1 SWD/BAT

Enclosed are the results of analyses for samples received by the laboratory on 09/19/23 14:21.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Dionica Hinojos
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 65 4' (H235080-01)

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	09/20/2023	ND	2.07	103	2.00	1.08	
Toluene*	<0.050	0.050	09/20/2023	ND	2.10	105	2.00	0.772	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.07	103	2.00	1.06	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.30	105	6.00	0.404	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/20/2023	ND	416	104	400	7.41	
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	09/20/2023	ND	186	92.9	200	4.70	
DRO >C10-C28*	35.2	10.0	09/20/2023	ND	179	89.3	200	0.937	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	79.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.5	% 49.1-14	8						

## 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:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Dionica Hinojos
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 66 4' (H235080-02)

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	09/20/2023	ND	2.17	109	2.00	3.50	
Toluene*	<0.050	0.050	09/20/2023	ND	2.15	108	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.30	115	2.00	3.54	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.85	114	6.00	2.15	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	64.0	16.0	09/20/2023	ND	416	104	400	7.41	
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	09/20/2023	ND	186	92.9	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	179	89.3	200	0.937	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	77.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.9	% 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:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Dionica Hinojos
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 67 4' (H235080-03)

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	09/20/2023	ND	2.17	109	2.00	3.50	
Toluene*	<0.050	0.050	09/20/2023	ND	2.15	108	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.30	115	2.00	3.54	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.85	114	6.00	2.15	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 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	832	16.0	09/20/2023	ND	416	104	400	7.41	
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	09/20/2023	ND	186	92.9	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	179	89.3	200	0.937	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	88.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.3	% 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:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Dionica Hinojos
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 68 4' (H235080-04)

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	09/20/2023	ND	2.17	109	2.00	3.50	
Toluene*	<0.050	0.050	09/20/2023	ND	2.15	108	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.30	115	2.00	3.54	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.85	114	6.00	2.15	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	800	16.0	09/20/2023	ND	416	104	400	7.41	
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	09/20/2023	ND	186	92.9	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	179	89.3	200	0.937	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	67.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.3	% 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:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Dionica Hinojos
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 69 4' (H235080-05)

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	09/20/2023	ND	2.17	109	2.00	3.50	
Toluene*	<0.050	0.050	09/20/2023	ND	2.15	108	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.30	115	2.00	3.54	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.85	114	6.00	2.15	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 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	816	16.0	09/20/2023	ND	416	104	400	7.41	
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	09/20/2023	ND	186	92.9	200	4.70	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	179	89.3	200	0.937	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	72.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.0	% 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:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Dionica Hinojos
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 70 4' (H235080-06)

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	09/20/2023	ND	2.17	109	2.00	3.50	
Toluene*	<0.050	0.050	09/20/2023	ND	2.15	108	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.30	115	2.00	3.54	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.85	114	6.00	2.15	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 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	1650	16.0	09/20/2023	ND	416	104	400	7.41	
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	09/20/2023	ND	201	101	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	204	102	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.9	% 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:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Dionica Hinojos
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 71 4' (H235080-07)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	2.17	109	2.00	3.50	
Toluene*	<0.050	0.050	09/20/2023	ND	2.15	108	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.30	115	2.00	3.54	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.85	114	6.00	2.15	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	320	16.0	09/20/2023	ND	416	104	400	7.41	
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	09/20/2023	ND	201	101	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	204	102	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	86.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 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:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Dionica Hinojos
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 72 4' (H235080-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	2.17	109	2.00	3.50	
Toluene*	<0.050	0.050	09/20/2023	ND	2.15	108	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.30	115	2.00	3.54	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.85	114	6.00	2.15	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 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	144	16.0	09/25/2023	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	09/20/2023	ND	201	101	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	204	102	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 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:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Dionica Hinojos
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 73 4' (H235080-09)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	2.17	109	2.00	3.50	
Toluene*	<0.050	0.050	09/20/2023	ND	2.15	108	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.30	115	2.00	3.54	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.85	114	6.00	2.15	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	1090	16.0	09/25/2023	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	09/20/2023	ND	201	101	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	204	102	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	85.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.7	% 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:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Dionica Hinojos
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 74 4' (H235080-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	2.17	109	2.00	3.50	
Toluene*	<0.050	0.050	09/20/2023	ND	2.15	108	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.30	115	2.00	3.54	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.85	114	6.00	2.15	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 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	624	16.0	09/25/2023	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	09/20/2023	ND	201	101	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	204	102	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	75.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.4	% 49.1-14	8						

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

Received:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Dionica Hinojos
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 75 4' (H235080-11)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	2.17	109	2.00	3.50	
Toluene*	<0.050	0.050	09/20/2023	ND	2.15	108	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.30	115	2.00	3.54	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.85	114	6.00	2.15	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 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	208	16.0	09/25/2023	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	09/20/2023	ND	201	101	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	204	102	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	85.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.2	% 49.1-14	8						

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

Received:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Dionica Hinojos
Project Location:	OXY-EDDY COUNTY, NM		

## Sample ID: FS - 76 4' (H235080-12)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	2.17	109	2.00	3.50	
Toluene*	<0.050	0.050	09/20/2023	ND	2.15	108	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.30	115	2.00	3.54	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.85	114	6.00	2.15	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/25/2023	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	09/20/2023	ND	201	101	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	204	102	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	88.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager


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

Received:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Dionica Hinojos
Project Location:	OXY-EDDY COUNTY, NM		

### Sample ID: FS - 77 4' (H235080-13)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	2.17	109	2.00	3.50	
Toluene*	<0.050	0.050	09/20/2023	ND	2.15	108	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.30	115	2.00	3.54	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.85	114	6.00	2.15	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	09/25/2023	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	09/20/2023	ND	201	101	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	204	102	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	84.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.7	% 49.1-14	8						

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

Received:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Dionica Hinojos
Project Location:	OXY-EDDY COUNTY, NM		

### Sample ID: FS - 78 4' (H235080-14)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	2.17	109	2.00	3.50	
Toluene*	<0.050	0.050	09/20/2023	ND	2.15	108	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.30	115	2.00	3.54	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.85	114	6.00	2.15	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 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	09/25/2023	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	09/20/2023	ND	201	101	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	204	102	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	86.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Received:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Dionica Hinojos
Project Location:	OXY-EDDY COUNTY, NM		

### Sample ID: FS - 79 4' (H235080-15)

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	09/20/2023	ND	2.17	109	2.00	3.50	
Toluene*	<0.050	0.050	09/20/2023	ND	2.15	108	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.30	115	2.00	3.54	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.85	114	6.00	2.15	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	912	16.0	09/25/2023	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	09/20/2023	ND	201	101	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	204	102	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	89.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Dionica Hinojos
Project Location:	OXY-EDDY COUNTY, NM		

### Sample ID: FS - 80 4' (H235080-16)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	2.17	109	2.00	3.50	
Toluene*	<0.050	0.050	09/20/2023	ND	2.15	108	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.30	115	2.00	3.54	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.85	114	6.00	2.15	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 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	1090	16.0	09/25/2023	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	09/20/2023	ND	201	101	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	204	102	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	89.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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

Received:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Dionica Hinojos
Project Location:	OXY-EDDY COUNTY, NM		

### Sample ID: FS - 81 4' (H235080-17)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	2.17	109	2.00	3.50	
Toluene*	<0.050	0.050	09/20/2023	ND	2.15	108	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.30	115	2.00	3.54	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.85	114	6.00	2.15	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 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	96.0	16.0	09/25/2023	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	09/20/2023	ND	201	101	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	204	102	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	87.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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

Received:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Dionica Hinojos
Project Location:	OXY-EDDY COUNTY, NM		

### Sample ID: SW - 10 0'-4' (H235080-18)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	2.17	109	2.00	3.50	
Toluene*	<0.050	0.050	09/20/2023	ND	2.15	108	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.30	115	2.00	3.54	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.85	114	6.00	2.15	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 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	16.0	16.0	09/25/2023	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	09/20/2023	ND	201	101	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	204	102	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	87.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/19/2023	Sampling Date:	09/19/2023
Reported:	09/25/2023	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD/BAT	Sampling Condition:	Cool & Intact
Project Number:	03B1417042	Sample Received By:	Dionica Hinojos
Project Location:	OXY-EDDY COUNTY, NM		

### Sample ID: SW - 11 0'-4' (H235080-19)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2023	ND	2.17	109	2.00	3.50	
Toluene*	<0.050	0.050	09/20/2023	ND	2.15	108	2.00	2.55	
Ethylbenzene*	<0.050	0.050	09/20/2023	ND	2.30	115	2.00	3.54	
Total Xylenes*	<0.150	0.150	09/20/2023	ND	6.85	114	6.00	2.15	
Total BTEX	<0.300	0.300	09/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 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	09/25/2023	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	09/20/2023	ND	201	101	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	204	102	200	0.717	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	90.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

		BILL TO	ANALYSIS REQUEST
Project Manager: Beaux Jennings		P.O. #:	
Address: 601 N Marienfeld Street, Suite 400	uite 400	Company: Oxy USA Inc.	
City: Midland	State: TX Zip: 79701	Attn: Wade Dittrich	
Phone #: 210-219-8858	Fax #:	Address:	
Project #: NZRIWIZNUS	Project Owner:	City:	
DANK HAN	11-1 SILID RAT	State: Zip:	
There		Phone #: 575-390-2828	2
Project Locanon - Carton 10	2	Fax #:	N
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FOR LAB USE ONLY		PRESERV. SAME LING	80
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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(575) 393-2326 FAX (575) 393-2476	(575) 393-2326 FAX (575) 393-2476	BILL TO	ANALYSIS REQUEST
Project Manager: Beaux Jennings		P.O. #:	
Address: 601 N Marienfeld Street, Suite 400	Suite 400	Company: Oxy USA Inc.	
City: Midland	State: TX Zip: 79701	Attn: Wade Dittrich	
Phone #: 210-219-8858	Fax #:	Address:	
Project #: 03BIUHDUR	Project Owner:	City:	
Project Name: C Janle SV	5 11-1 51 50 BAT	State: Zip:	>
Project Location: Elly (	MM .	Phone #: 575-390-2828	
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# APPENDIX F

C-141

Released to Imaging: 12/15/2023 1:29:52 PM



State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	nAPP2215134499
District RP	
Facility ID	1 1 1 1 1
Application ID	

# **Release Notification**

## **Responsible Party**

Responsible Party: Oxy USA Inc.	OGRID: 16696	
Contact Name: Tyson Pierce	Contact Telephone: 575-390-3610	
Contact email: Tyson_Pierce@oxy.com	Incident # nAPP2215134499	

## **Location of Release Source**

Latitude 32.240587

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Sundance-SDS 11-1 SWD/BAT	Site Type: Oil/Produced Water Gathering Line
Date Release Discovered: 5/1/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
Р	1	24S	31E	Eddy

Surface Owner: State Federal Tribal Private (Name:

# Nature and Volume of Release

🛛 Crude Oil	Volume Released (bbls): 35	Volume Recovered (bbls): 30
Produced Water	Volume Released (bbls): 340	Volume Recovered (bbls): 320
	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: Victaulic failure on the Calmon 5 SWD line along with a pinhole release on the steel main line.

rm C-141	State of New Mexico	Incident ID	nAPP2215134499
ge 2 Oil Conse	Oil Conservation Division	District RP	
		Facility ID	
		Application I	D
rm C-141 e 2 Was this a major release as defined by 19.15.29.7(A) NMAC? Yes No If YES, was immediate r Yes by Wade Dittrich o	If YES, for what reason(s) does the responsible Release is greater than 25 barrels.	party consider this a major rele	ease?
If YES, was immediate r Yes, by Wade Dittrich o	notice given to the OCD? By whom? To whom? f Oxy via email to <u>OCD.enviro@state.nm.us</u> and ]	When and by what means (pho BLM_NM_CFO_Spill@blm.gc	one, email, etc)? <u>w</u> on 5/1/2022 at 1430.
	Initial Respo	nse	
The responsible	e party must undertake the following actions immediately unles	s they could create a safety hazard tha	t would result in injury
The source of the rel	lease has been stopped.		
The impacted area h	has been secured to protect human health and the e	nvironment.	
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State of New Mexico Oil Conservation Division

Incident ID	nAPP2215134499
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?	<u>&gt;100</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?	Yes 🗌 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 <sup>1</sup>/<sub>2</sub>-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

the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation an. 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 0.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

orm C-141	State of New Mexico	Incident ID	nAPP2215134499
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Addition, OCD acceptance of and/or regulations. Printed Name: <u>Tyson Pie</u> Signature: <u></u> email: tyson_pierce@ox	Title: Env Date: 4	ironmental Specialist	

Form C-141	State of New Mexico	Incident ID	nAPP2215134499
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	Closure		
r directives of the OCD. Including a scaled site maghain of custody documents	ast attach information demonstrating they have complied This demonstration should be in the form of a comprehe p, sampling diagrams, relevant field notes, photographs on the final sampling, and a narrative of the remedial act	nsive report (electronic submitt of any excavation prior to backfi ivities. Refer to 19.15.29.12 N	als in .pdf format are preferred illing, laboratory data includir MAC.
Closure Report Attach	ment Checklist: Each of the following items must be	included in the closure report.	
A scaled site and sa	mpling diagram as described in 19.15.29.11 NMAC		
	remediated site prior to backfill or photos of the liner in prior to liner inspection)	ntegrity if applicable (Note: applicable (Note: applicable)	propriate OCD District office
Laboratory analyses	s of final sampling (Note: appropriate ODC District offic	ce must be notified 2 days prior	r to final sampling)
Description of reme	ediation activities		
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and regulations all operat may endanger public hea should their operations ha human health or the envir compliance with any othe restore, reclaim, and re-ve accordance with 19.15.29 Printed Name: <u>Tyson Pie</u> Signature:	tors are required to report and/or file certain release noti         th or the environment. The acceptance of a C-141 report         ave failed to adequately investigate and remediate contate         ronment. In addition, OCD acceptance of a C-141 report         egetate the impacted surface area to the conditions that of 0.13 NMAC including notification to the OCD when reconstruction         rce       Title: Envi	fications and perform correctiv rt by the OCD does not relieve mination that pose a threat to g rt does not relieve the operator sponsible party acknowledges existed prior to the release or the lamation and re-vegetation are ronmental Specialist (18/23	e actions for releases which the operator of liability roundwater, surface water, of responsibility for they must substantially their final land use in complete.

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District III

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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

QUESTIONS

Action 292751

QUESTIONS		
Operator:	OGRID:	
OXY USA INC	16696	
P.O. Box 4294	Action Number:	
Houston, TX 772104294	292751	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2215134499
Incident Name	NAPP2215134499 SUNDANCE-SDS 11-1 SWD/BAT @ 0
Incident Type	Release Other
Incident Status	Remediation Closure Report Received

#### Location of Release Source

Please answer all the questions in this group.	
Site Name	SUNDANCE-SDS 11-1 SWD/BAT
Date Release Discovered	05/01/2022
Surface Owner	Federal

### Incident Details

Please answer all the questions in this group.	
Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

## Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Cause: Corrosion   Pipeline (Any)   Crude Oil   Released: 35 BBL   Recovered: 30 BBL   Lost: 5 BBL.	
Produced Water Released (bbls) Details	Cause: Corrosion   Pipeline (Any)   Produced Water   Released: 340 BBL   Recovered: 320 BBL   Lost: 20 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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

QUESTIONS, Page 2

Action 292751

QUESTIONS (continued)		
Operator:	OGRID:	
OXY USA INC	16696	
P.O. Box 4294	Action Number:	
Houston, TX 772104294	292751	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	. gas only) are to be submitted on the C-129 form.

Initial	Res	ponse

The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	Тгие
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 12/08/2023

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

QUESTIONS, Page 3

Action 292751

QUESTIONS (continued)		
Operator:	OGRID:	
OXY USA INC	16696	
P.O. Box 4294	Action Number:	
Houston, TX 772104294	292751	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

### QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date. st depth to aroundwater beneath the area affected by the Т What is the aballa

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release an	d the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

#### **Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
an approval with this submission	Yes
onstrating the lateral and vertical extents of soil contaminatio	n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
extents of contamination been fully delineated	Yes
tained within a lined containment area	No
(Provide the highest observable value for each, in m	illigrams per kilograms.)
(EPA 300.0 or SM4500 CI B)	8000
(EPA SW-846 Method 8015M)	4782
(EPA SW-846 Method 8015M)	3947
(EPA SW-846 Method 8021B or 8260B)	1.8
(EPA SW-846 Method 8021B or 8260B)	0
IAC unless the site characterization report includes complete ines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 02/13/2023
ines for beginning and completing the remediation.	
ines for beginning and completing the remediation.	02/13/2023
ines for beginning and completing the remediation. the remediation commence final sampling or liner inspection occur	09/19/2023
ines for beginning and completing the remediation. the remediation commence final sampling or liner inspection occur e remediation complete(d)	02/13/2023 09/19/2023 09/19/2023
ines for beginning and completing the remediation. the remediation commence final sampling or liner inspection occur e remediation complete(d) e area (in square feet) that will be reclaimed	02/13/2023 09/19/2023 09/19/2023 37500
ines for beginning and completing the remediation. the remediation commence final sampling or liner inspection occur e remediation complete(d) e area (in square feet) that will be reclaimed e (in cubic yards) that will be reclaimed	02/13/2023 09/19/2023 09/19/2023 37500 5555
	extents of contamination been fully delineated tained within a lined containment area (Provide the highest observable value for each, in m (EPA 300.0 or SM4500 Cl B) (EPA SW-846 Method 8015M) (EPA SW-846 Method 8015M) (EPA SW-846 Method 8021B or 8260B)

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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

QUESTIONS, Page 4

Action 292751

QUESTIONS (continued)			
Operator:	OGRID:		
OXY USA INC	16696		
P.O. Box 4294	Action Number:		
Houston, TX 772104294	292751		
	Action Type:		
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)		

#### QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: (Select all answers below that apply.) (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) Yes Which OCD approved facility will be used for off-site disposal LEA LAND LANDFILL [fEEM0112342028] OR which OCD approved well (API) will be used for off-site disposal Not answered. OR is the off-site disposal site, to be used, out-of-state Not answered. OR is the off-site disposal site, to be used, an NMED facility Not answered. (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) Not answered (In Situ) Soil Vapor Extraction

(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) Not answered. (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) Not answered. (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) Not answered. Ground Water Abatement pursuant to 19.15.30 NMAC Not answered. OTHER (Non-listed remedial process) Not answered. Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by

Not answered.

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

	Name: Wade Dittrich	
I hereby agree and sign off to the above statement	Title: Environmental Coordinator	
Thereby agree and sign on to the above statement	Email: wade_dittrich@oxy.com	
	Date: 12/08/2023	
The OCD recognized that prevented intermediation measures may have to be minimally edivated in considered with the physical realities encountered during remediation. If the recognized the		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required

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

QUESTIONS, Page 5

Action 292751

QUESTIONS (continued)		
Operator: OXY USA INC	OGRID: 16696	
P.O. Box 4294 Houston, TX 772104294	Action Number: 292751	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

## QUESTIONS

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

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

QUESTIONS, Page 6

Action 292751

QUESTIONS (continued)		
Operator:	OGRID:	
OXY USA INC	16696	
P.O. Box 4294	Action Number:	
Houston, TX 772104294	292751	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	290901	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/19/2023	
What was the (estimated) number of samples that were to be gathered	92	
What was the sampling surface area in square feet	37500	

**Remediation Closure Request** 

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	37500	
What was the total volume (cubic yards) remediated	5555	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	37500	
What was the total volume (in cubic yards) reclaimed	5555	
Summarize any additional remediation activities not included by answers (above)	None	
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater. surface		

water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete 

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 12/08/2023
--	---

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

QUESTIONS, Page 7

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Action 292751

QUESTIONS (continued)		
Operator: OXY USA INC	OGRID: 16696	
P.O. Box 4294 Houston, TX 772104294	Action Number: 292751	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS		
Poplamation Penert		

Only answer the questions in this group if all reclamation steps have been completed.			
No			

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

CONDITIONS

Action 292751

CONDITIONS		
Operator:	OGRID:	
OXY USA INC	16696	
P.O. Box 4294	Action Number:	
Houston, TX 772104294	292751	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

### CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2215134499 SUNDANCE-SDS 11-1 SWD/BAT, thank you. This Remediation Closure Report is approved. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc, will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	