

LINER INSPECTION CLOSURE REPORT

Property:

NC Sand Dunes Boo CGL

Eddy County, New Mexico 32.271623° N, 103.815294° W NMOCD Incident ID: nAPP2403238666

> March 1, 2024 Ensolum Project No. 03B1417153

> > Prepared for:

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

Prepared by:

Project Geologist

Heather Holthaus Senior Project Manager



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Ensolum Project No. 03B1417153

1.0 INTRODUCTION

1.1 Executive Summary

- On January 31, 2024, a release of produced water occurred as a result of a tank overflow at the NC Sand Dunes Boo CGL Tanks, hereinafter referred to as the "Site". Approximately 10 barrels (bbls) of produced water were released within the secondary containment, impacting an area approximately 30 feet long by 30 feet wide, with approximately 10 bbls of produced water recovered. The release was wholly contained within the lined secondary containment area. A site map depicting the spill location is included as Figure 3 located in Appendix A.
- The released fluid inside the secondary containment area was removed and taken off-Site for proper disposal.
- The primary objective of the closure activities was to remove the released fluid, then
 conduct an integrity inspection of the liner, as required by New Mexico Energy, Minerals
 and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) Closure
 Criteria for Soils Impacted by a Release using the New Mexico Administrative Code
 (NMAC) 19.15.29 Releases as guidance.
- On February 16, 2024, Ensolum arrived on-Site to conduct a liner inspection to determine
 the integrity of the existing liner within the containment area. Based on visual inspection
 of the liner within the containment area, the liner remained intact and was free of damage.
 Therefore, in accordance with NMAC 19.15.29, collection of confirmation soil samples was
 not necessary. Photographic documentation is provided in Appendix B.
- The spill area was located within the lined secondary containment and does not require reclamation or revegetation at this time.

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



2.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

2.1 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.

2.2 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.

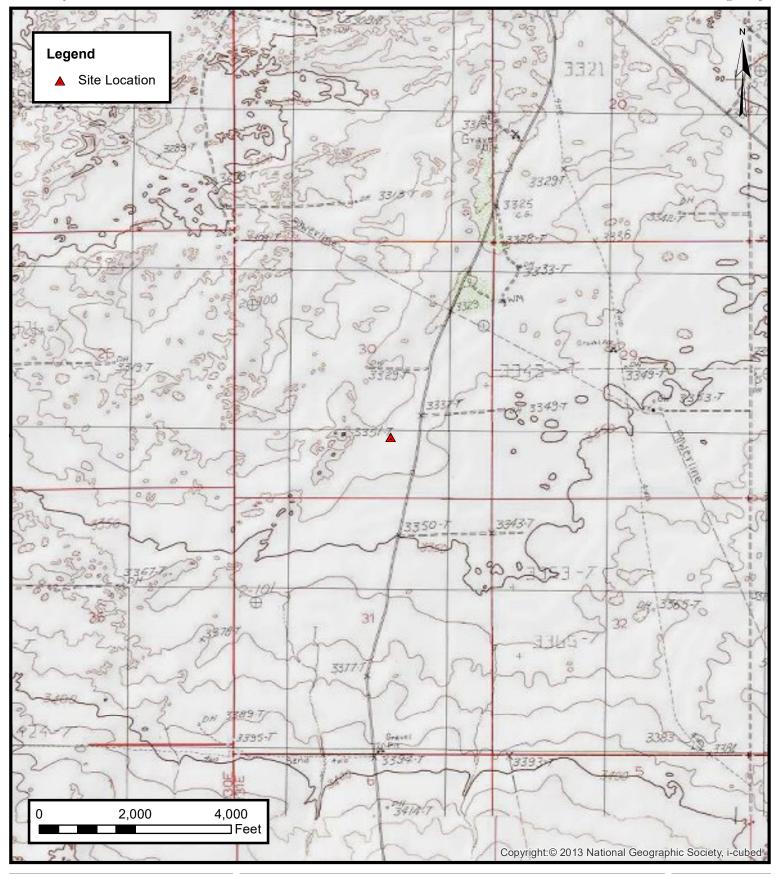
2.3 Reliance

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

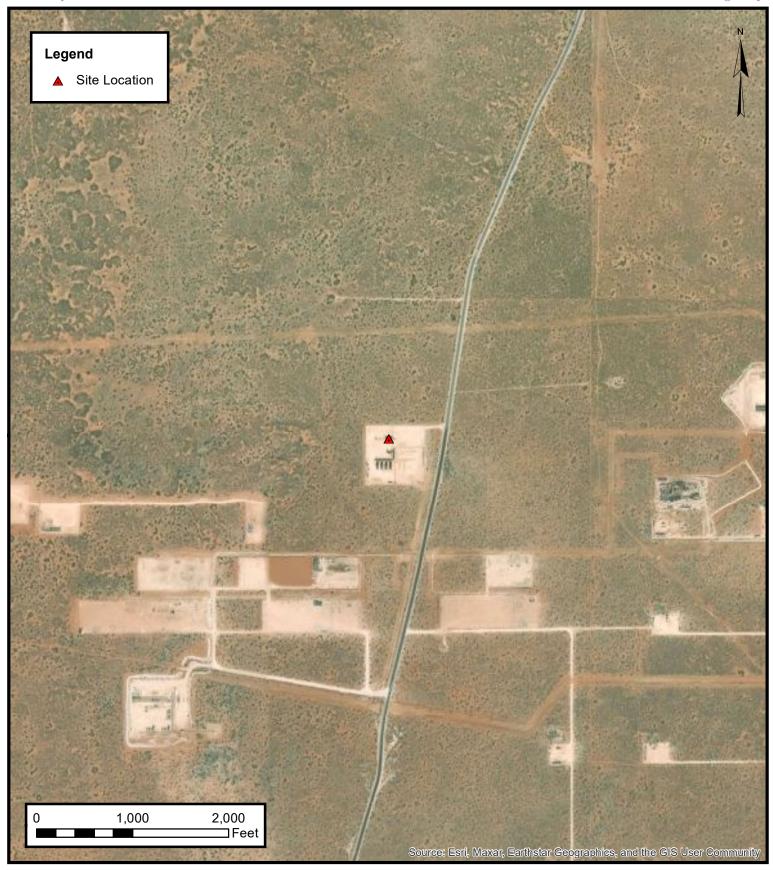




Topgraphic MapOXY USA Inc.

OXY USA Inc. NC Sand Dunes Boo CGL 32.271623° N, 103.815294° W Eddy County, New Mexico

PROJECT NUMBER: 03B1417153

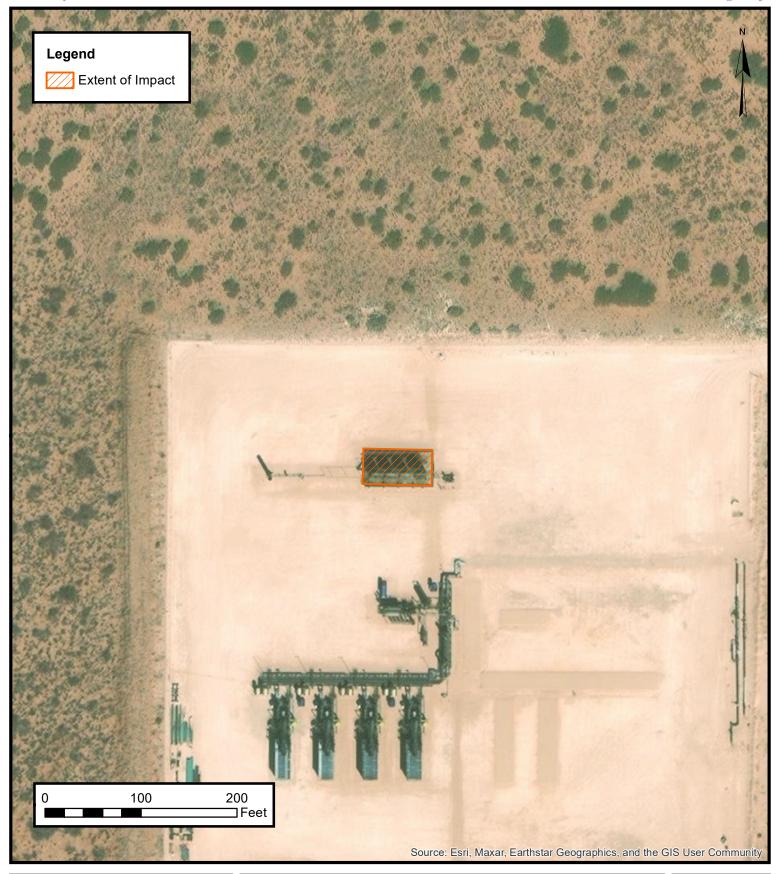




Site Vicinity Map

OXY USA Inc.
NC Sand Dunes Boo CGL
32.271623° N, 103.815294° W
Eddy County, New Mexico

PROJECT NUMBER: 03B1417153

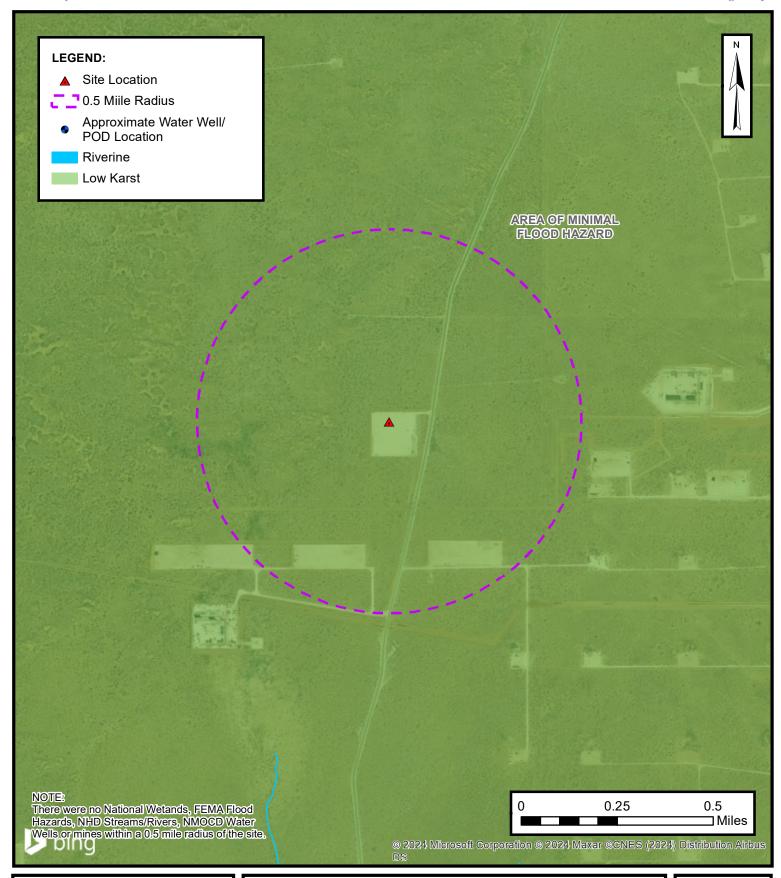




Site Map OXY USA Inc.

OXY USA Inc.
NC Sand Dunes Boo CGL
32.271623° N, 103.815294° W
Eddy County, New Mexico

PROJECT NUMBER: 03B1417153





Closure Criteria Map

Oxy USA Inc. NC Sand Dunes Boo CGL 32.271623° N, 103.815294° W Eddy County, New Mexico

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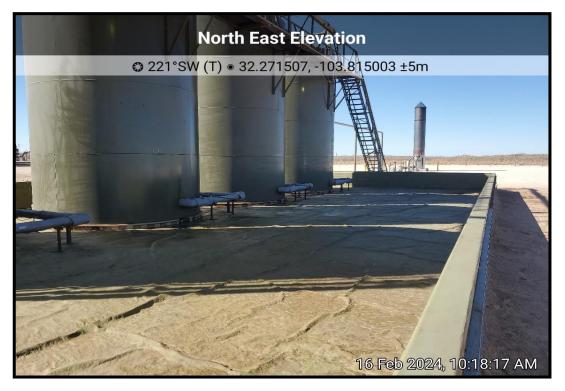
APPENDIX B

Photographic Documentation

Project: NC Sand Dunes Boo CGL

Entity: Oxy USA Inc. Project #: 03B1417153





View of liner, facing southwest (02/16/2024).

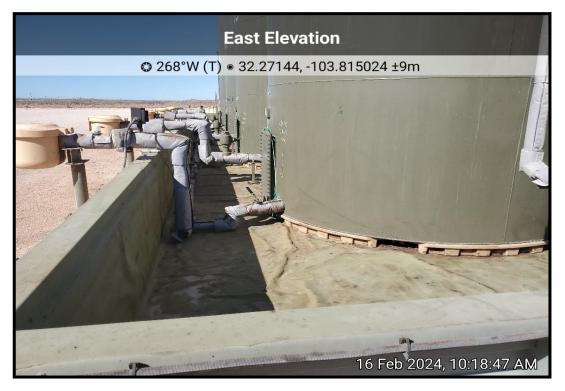


View of liner, facing southeast (02/16/2024).

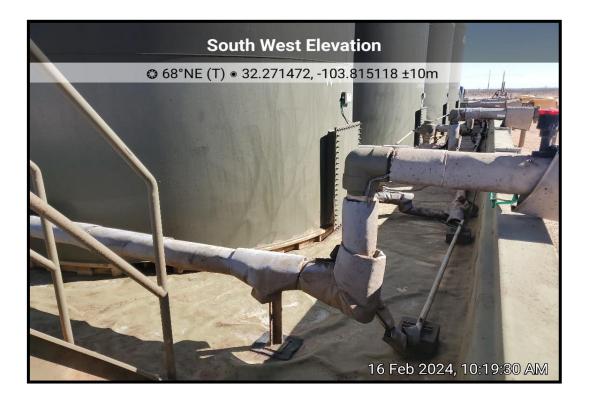
Project: NC Sand Dunes Boo CGL

Entity: Oxy USA Inc. Project #: 03B1417153





View of liner, facing west (02/16/2024).



View of liner, facing northeast (02/16/2024).

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

QUESTIONS

Action 319325

QUESTIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	319325
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2403238666
Incident Name	NAPP2403238666 NC SAND DUNES BOO CGL @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source		
Please answer all the questions in this group.		
Site Name	NC Sand Dunes Boo CGL	
Date Release Discovered	01/31/2024	
Surface Owner	Federal	

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

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Tank (Any) Produced Water Released: 10 BBL Recovered: 10 BBL Lost: 0 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	No	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Released into a lined secondary containment.	

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<u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

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QUESTIONS, Page 2

Action 319325

Phone:(505) 476-3470 Fax:(505) 476-3462			
QUESTIONS (continued)			
Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696 Action Number: 319325 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	No		
Reasons why this would be considered a submission for a notification of a major release	Unavailable.		
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.		
Initial Response			
The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.		
The source of the release has been stopped	True		
The impacted area has been secured to protect human health and the environment	True		
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	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.		
	i lation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of svaluation in the follow-up C-141 submission.		
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to	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 it 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: 03/01/2024

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QUESTIONS, Page 3

QUESTIONS (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	319325
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Between ½ and 1 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between ½ and 1 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Between 1 and 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Between 1 and 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	Yes	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	01/31/2024	
On what date will (or did) the final sampling or liner inspection occur	02/16/2024	
On what date will (or was) the remediation complete(d)	01/31/2024	
What is the estimated surface area (in square feet) that will be remediated	900	
What is the estimated volume (in cubic yards) that will be remediated	0	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

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

Released to Imaging: 4/10/2024 4:54:08 PM

Action 319325

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QUESTIONS, Page 4

Action 319325

QUESTIONS (continued)

Operator:	OGRID:
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P.O. Box 4294	Action Number:
Houston, TX 772104294	319325
	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.)		
Is (or was) there affected material present needing to be removed	No	
Is (or was) there a power wash of the lined containment area (to be) performed	Yes	
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.		

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 the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement

Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 03/01/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

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

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QUESTIONS, Page 6

Action 319325

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P.O. Box 4294	Action Number:
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	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Liner Inspection Information		
Last liner inspection notification (C-141L) recorded	313399	
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	02/16/2024	
Was all the impacted materials removed from the liner	Yes	
What was the liner inspection surface area in square feet	2450	

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	Yes			
What was the total surface area (in square feet) remediated	900			
What was the total volume (cubic yards) remediated	0			
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 o 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: 03/01/2024

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CONDITIONS

Action 319325

CONDITIONS

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P.O. Box 4294	Action Number:
Houston, TX 772104294	319325
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created B	y Condition	Condition Date
scwells	None	4/10/2024