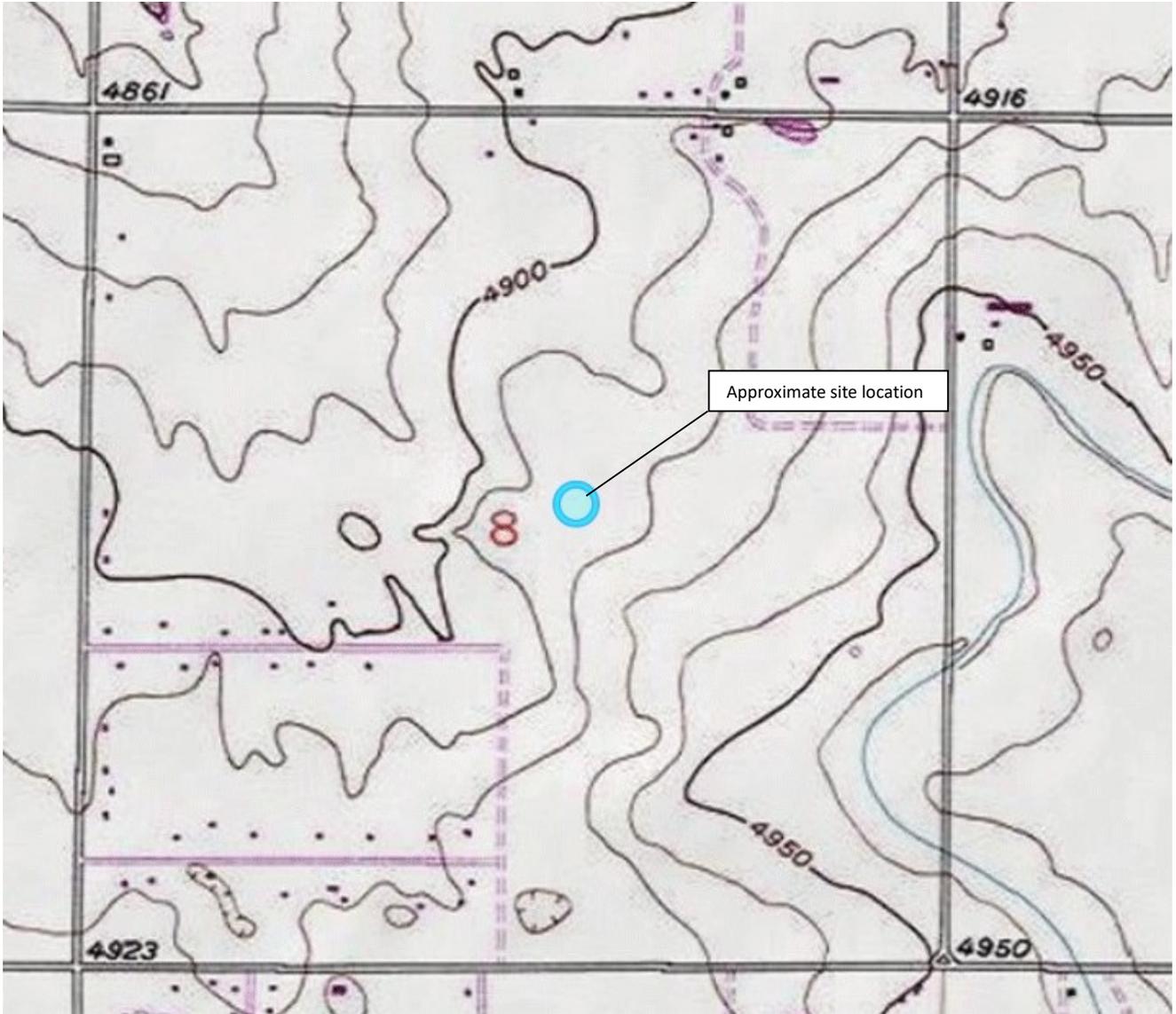


FIGURES



Approximate site location



Figure 1

Site Location Map
Kerr-McGee Oil and Gas Onshore LP
Sater 24C,40N,24N,25C-5HZ O SA Facility
SWNE Sec. 8-T2N-R67W
Weld County, Colorado



Source: USGS 7.5 Minute Topographic Map, Gowanda, CO Quadrangle

Drawn By: AM Date: 12/20/2023



Legend

-  Approximate dig area
-  Approximate extent of the release
-  Approximate soil sample location

Notes

All locations are approximate unless otherwise noted.

Soil and soil vapor screening locations may be adjusted based on field observations.

Additional samples may be collected if impacted soils or groundwater are encountered during closure activities.

0 ft. 30 ft. 60 ft. 

Image Source: Google Earth 06/2021

DATE: December 20, 2023

DESIGNED BY: D. Coloccia

DRAWN BY: A. McNall



Kerr-McGee Oil and Gas Onshore LP
Sater 24C,40N,24N,25C-5HZ O SA Production Facility
 SWNE Sec. 8-T2N-R67W
 Weld County, Colorado

Screening and Sample Location Map

Figure 2

TABLES

TABLE 2
SATER 24C,40N,24N,25C-5HZ O SA
SOIL SAMPLE RESULTS SUMMARY TABLE - VOCs
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Naphthalene (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
<i>ECMC standards for soil (mg/kg)</i> ⁽¹⁾		0.0026	0.69	0.78	9.9	500			0.0038	0.0081	0.0087
<i>ECMC standards for soil (mg/kg)</i> ⁽²⁾		1.2	490	5.8	58	500			2	30	27
Initial Waste Characterization @ 6"	12/19/23	116	427	74.6	616	11200	36900	12000	31.7	204	89.8

Notes:

⁽¹⁾ ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC = Energy & Carbon Management Commission

< = Analytical result is less than the laboratory reporting limit

mg/kg = milligrams per kilogram

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-ORO = Total petroleum hydrocarbons - oil range organics

TMB = Trimethylbenzene

TABLE 3
 SATER 24C,40N,24N,25C-5HZ O SA
 SOIL SAMPLE RESULTS SUMMARY TABLE - PAHs
 KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	1-Methyl-naphthalene (mg/kg)	2-Methyl-naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)-fluoranthene (mg/kg)	Benzo(k)-fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)-anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Ideno(1,2,3-cd)-pyrene (mg/kg)	Pyrene (mg/kg)
<i>ECMC standards for soil (mg/kg)⁽¹⁾</i>		0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3
<i>ECMC standards for soil (mg/kg)⁽²⁾</i>		18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180
Initial Waste Characterization @ 6"	12/19/23	62.4	89.0	6.39	0.518	0.134	<0.200	<0.200	<0.200	0.711	<0.200	0.228	9.19	<0.200	0.401

Notes:

⁽¹⁾ Standards are taken from ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ Standards for soil are taken from ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC = Energy & Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

PAH = Polycyclic Aromatic Hydrocarbons

Values presented in **BOLD** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations

**ATTACHMENT A
FIELD NOTES AND PHOTOLOG**



Tank Battery Closure Checklist 2

Additional Attachments (Optional)

Site Name & COGCC Facility Number	Sater 24C 40N 24N 25C-5
Remediation Project #	
Date	12/19/2023

Site Information

Associated Wells

Location

Latitude	40.153301
Longitude	-104.913144

General Condition of Site	Active release BG-01@6" & BG-02@6" were collected within the berm of the facility. BG-03@6" and BG-04@6" were collected just outside of the facility pad.
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USCS Soil Type	<i>Fine Sandy Loam / Fine Sndy Lm</i>
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Estimated Depth to Groundwater	<20'
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Hydrocarbon Impacted Soils / Spills	Yes - active release
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Salt Crusted Soils or Impacted Vegetation	None observed
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Soil Samples

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Other Visual	Olfactory	Other Olfactory	Equipment Type	Other Equipment Type
R1	12/19/2023	01:30 PM	Initial waste characterization @ 6"	1223.3	HC Staining		HC Odor		Separator	
R2	12/19/2023	01:45 PM	BG-01 @ 6"	14.9	N.S		N.O		Background	
R3	12/19/2023	01:50 PM	BG-02 @ 6"	17.9	N.S		N.O		Background	
R4	12/19/2023	02:00 PM	BG-03 @ 6"	4.3	N.S		N.O		Background	
R5	12/19/2023	02:10 PM	BG-04 @ 6"	7.7	N.S		N.O		Background	

Photo(s)

R1 - P1



Initial waste characterization @ 6"

Looking northwest

R2 - P1



BG-01 @ 6"

Looking east

R3 - P1



BG-02 @ 6"

Looking north

R4 - P1



BG-03 @ 6"

Looking northeast

R5 - P1



Looking southwest

Other observations regarding tanks

Summary

Was impacted soil identified? Yes - less than 10 cubic yards

Total number of soil samples field screened 5

Total number of soil samples collected 5

Highest PID Reading 1223.3

Total number of soil samples submitted to lab for analysis 5

Was groundwater encountered during the investigation? No

Measured depth to groundwater

Was remedial groundwater removal conducted?

Date Groundwater was encountered

Commencement date of removal

Sheen on groundwater?

Free product observed?

Volume of groundwater removed prior to sampling

Volume of groundwater removed post sampling

Total volume of groundwater removed

Total number of groundwater samples collected

Total number of groundwater samples submitted to lab for analysis

**ATTACHMENT B
STATE NOTIFICATION**

From: Ochoa, Ariana

Sent: Tuesday, December 19, 2023 1:06 PM

To: Kari.oakman@state.co.us; Jason Maxey <jmaxey@weldgov.com>; Roy Rudisill (rrudisill@co.weld.co.us) <rrudisill@co.weld.co.us>

Cc: Hamilton, Gregory <Gregory_Hamilton@oxy.com>; Scranton, Lynna <Lynna_Scranton@oxy.com>; Mickelson, Erik <Erik_Mickelson@oxy.com>; Rowley, Taylor <Taylor_Rowley@oxy.com>; Bugarin, Eve M <Eve_Bugarin@oxy.com>; Lytle, Andy <Andrew_Lytle@oxy.com>; Jobe, Don <Don_Jobe@oxy.com>; Grage, Mark <Mark_Grage@oxy.com>; Bartoszek, Jaron <Jaron_Bartoszek@oxy.com>; Brice, Jennifer <Jennifer_Brice@oxy.com>; Neely, Dewey (Platteville) <Dewey_Neely2@oxy.com>; Coleman, Julie <Julie_Coleman@oxy.com>; Riemer, Joseph <Joseph_Riemer@oxy.com>; Wells, Matt <Matthew_Wells@oxy.com>; Mathes, Robert <Robert_Mathes@oxy.com>; Hamlin, Mark G <Mark_Hamlin@oxy.com>; Wells, Matt <Matthew_Wells@oxy.com>

Subject: State Reportable Release 24 Hour Notification - SATER 24C,40N,24N,25C-5HZ O SA

Good afternoon,

We identified a state reportable release due to fluid daylighting from the subsurface from an oil gathering line. The release has been controlled and the line has been shut-in. Clean-up activities are currently in process. A Form 19 Release Report is forthcoming. This release did not threaten Waters of the State, Public Water System, residences or occupied structures, livestock, wildlife, air quality, or publicly-maintained roads.

The following have been notified via specified method below:

- Weld County contacted via electronic mail
- Surface Owner notification in process

The Environmental Release/Incident Report Hotline and Colorado Parks and Wildlife were not contacted as this release did not trigger notification requirements per 912.b.(2)B.

Location Details:

- Facility Name: SATER 24C,40N,24N,25C-5HZ O SA
- Location: SWNE 8 2N 67W
- Latitude/Longitude: 40.15343, -104.91296
- Location ID: 417800

Please let me know if you have any questions.

Thank you,

Ariana Ochoa

Sr. HSE Advisor

Occidental Petroleum Corporation

t: (713) 350-4906