

State of Colorado
Energy & Carbon Management Commission

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Receive Date:

Report taken by:

Site Investigation and Remediation Workplan (Supplemental Form)

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. However, this shall not preclude the Operator from taking immediate action to protect public health or safety, the environment, wildlife, or livestock.

This Form 27 describes site conditions as currently understood by the Operator; approval of this Form 27 by ECMC is based on the site conditions accurately described herein; any changes in site conditions identified during or subsequent to the performance of the approved workplan may necessitate additional investigation or remediation which shall be described on a supplemental Form 27.

This Form 27 is intended to provide basic information regarding the proposed site investigation and remediation actions, but the workplan may be more fully described in attached documentation.

Closure request is not available for an Initial Site Investigation and Remediation Workplan.

OPERATOR INFORMATION

Name of Operator: OWN RESOURCES OPERATING LLC	Operator No: 10699	Phone Numbers
Address: 305 S RIDGE STREET #6279		Phone: (713) 6287339
City: BRECKENRIDGE	State: CO	Zip: 80424
Contact Person: Niels Phaf	Email: niels.phaf@ownresources.com	Mobile: (713) 6287339

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 41315 Initial Form 27 Document #: 404240684

PURPOSE INFORMATION

- Rule 913.c.(1): Pit or Cuttings Trench closure.
- Rule 913.c.(2): Buried or partially buried vessel closure, which will be by removal.
- Rule 913.c.(3): Remediation of Spill and Releases pursuant to Rule 912.
- Rule 913.c.(4): Land treatment of Oily Waste pursuant to Rule 905.e.
- Rule 913.c.(5): Closure of Centralized E&P Waste Management Facilities pursuant to Rule 907.h.
- Rule 913.c.(6): Remediation of impacted Groundwater pursuant to Rule 915.e.(3).D, and the contaminant concentrations in Table 915-1.
- Rule 913.c.(7): Investigation and remediation of natural gas in soil or Groundwater.
- Rule 913.c.(8): When requested by the Director due to any potential risk to soil, Groundwater, or surface water.
- Rule 913.c.(9): Decommissioning of Oil and Gas Facilities.
- Rule 913.g: Changes of Operator.
- Rule 915.b: Request to leave elevated inorganics in situ.
- Other: _____

SITE INFORMATION

No Multiple Facilities

Facility Type: SPILL OR RELEASE	Facility ID: 490244	API #: _____	County Name: YUMA
Facility Name: Welp 10-16	Latitude: 39.977430	Longitude: -102.393572	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: SESE	Sec: 10	Twp: 1S	Range: 45W Meridian: 6 Sensitive Area? Yes

SITE CONDITIONS

General soil type - USCS Classifications SM Most Sensitive Adjacent Land Use non crop land

Is domestic water well within 1/4 mile? Yes Is surface water within 1/4 mile? Yes

Is groundwater less than 20 feet below ground surface? Yes

Other Potential Receptors within 1/4 mile

A livestock well approximately 1799' northeast, water depth >43', designated groundwater management area, designated basin, a freshwater emergent approximately 647 feet east, 1692 feet east, 981 feet west and 1690 feet south west, no high priority habitat

SITE INVESTIGATION PLAN

TYPE OF WASTE:

- E&P Waste** **Other E&P Waste** **Non-E&P Waste**
- Produced Water** **Workover Fluids** _____
- Oil** **Tank Bottoms**
- Condensate** **Pigging Waste**
- Drilling Fluids** **Rig Wash**
- Drill Cuttings** **Spent Filters**
- Pit Bottoms**
- Other (as described by EPA)** _____

DESCRIPTION OF IMPACT

Impacted?	Impacted Media	Extent of Impact	How Determined
Yes	SOILS	High	Soil Analysis

INITIAL ACTION SUMMARY

Description of initial action or emergency response measures take to abate, investigate, and/or remediate impacts associated with E&P Waste.

From Form 19 Initial Spill Report Doc#404205805
During regular routine, lease attendant discovered broken valve on produced water line when pulled onto location. Produced water line was isolated, evacuated and valve was replaced. No standing water on surface to be collected

PROPOSED SAMPLING PLAN

Proposed Soil Sampling

Will soil samples be collected as part of this investigation? (Number, type (grab/composite), analyses, and locations of samples):

On May 14, 2025, a total of four soil samples were collected—three from within the impacted area and one background sample taken approximately 60 feet southeast of the spill zone. The attached map identifies the sample locations in relation to the affected area. All samples were submitted for laboratory analysis required per Table 915-1.

Proposed Groundwater Sampling

Will groundwater samples be collected as part of this investigation? (Number, analyses, and locations of samples):

No groundwater was encountered

Proposed Surface Water Sampling

Will surface water samples be collected as part of this investigation? (Number, analyses, and locations of samples):

No surface water encountered.

Additional Investigative Actions

Additional alternative investigative actions described in attached Site Investigation Plan (summary):

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil

Number of soil samples collected 4
Number of soil samples exceeding 915-1 3
Was the areal and vertical extent of soil contamination delineated? Yes
Approximate areal extent (square feet) 1069

NA / ND

ND Highest concentration of TPH (mg/kg) _____
-- Highest concentration of SAR 40.9
BTEX > 915-1 No
Vertical Extent > 915-1 (in feet) 1

Groundwater

Number of groundwater samples collected 0
Was extent of groundwater contaminated delineated? No
Depth to groundwater (below ground surface, in feet) _____
Number of groundwater monitoring wells installed _____
Number of groundwater samples exceeding 915-1 _____

_____ Highest concentration of Benzene (µg/l) _____
_____ Highest concentration of Toluene (µg/l) _____
_____ Highest concentration of Ethylbenzene (µg/l) _____
_____ Highest concentration of Xylene (µg/l) _____
_____ Highest concentration of Methane (mg/l) _____

Surface Water

0 Number of surface water samples collected
_____ Number of surface water samples exceeding 915-1
If surface water is impacted, other agency notification may be required.

OTHER INVESTIGATION INFORMATION

Were impacts to adjacent property or offsite impacts identified?

Were background samples collected as part of this site investigation?

One background soil sample was collected from an undisturbed area with native soils, located approximately 60 feet southeast of the spill area. The sample was analyzed for soil suitability and in accordance with Table 915-1. This background sample will serve as a baseline reference for evaluating soil conditions throughout the remainder of the reclamation project

Was investigation derived waste (IDW) generated as part of this investigation?

Volume of solid waste (cubic yards) _____ Volume of liquid waste (barrels) _____

Is further site investigation required?

REMEDIAL ACTION PLAN

Does this Supplemental Form 27A include changes to a previously approved Remedial Action Plan? No

SOURCE REMOVAL SUMMARY

Describe how source is to be removed.

Analytical results from soil samples indicate elevated levels on EC, SAR, pH, boron on all samples except background are above applicable thresholds. Arsenic was high on all samples but it is comparable to background levels. The impacted area will be addressed through in-place treatment.

REMEDICATION SUMMARY

Describe how remediation of existing impacts to soil and groundwater is to be accomplished (i.e. summarize remedial action plan). Provide a brief narrative description including: technical justification, schedule for implementation, estimated time to attain NFA status, plus plans and specifications for the selected remedial action technology.

In April, the spill site was treated with gypsum for EC and SAR at a rate of 1,000 lbs./acre to displace sodium and improving soil structure and with Soft Soil at a rate of 1 quart/acres treatment to dilute elevated constituents and help buffer pH and Boron levels. The soil amendments were incorporated into the soil using a rototiller to a depth of approximately 8 to 12 inches to reduce compaction, and promote soil health and remediation.

Arsenic – Request for No Further Action- results indicate that arsenic concentrations in the impacted area (Sample #1: 2.52 mg/kg), (Sample #2: 2.49 mg/kg), (Sample #3: 2.38 mg/kg) are comparable to the background level (2.06 mg/kg). Although all values exceed the Table 915-1 threshold, the minimal difference between the samples and background suggests that the arsenic is naturally occurring. No treatment is proposed for arsenic at this time.

One confirmation soil sample will be collected in Qrt.-2 2026 to verify levels, sample will be analyzed for soil suitability for reclamation

Soil Remediation Summary

<input checked="" type="checkbox"/> In Situ	<input type="checkbox"/> Ex Situ
_____ Bioremediation (or enhanced bioremediation)	_____ Excavate and offsite disposal
_____ Chemical oxidation	_____ If Yes: Estimated Volume (Cubic Yards) _____
_____ Air sparge / Soil vapor extraction	_____ Name of Licensed Disposal Facility or ECMC Facility ID # _____
Yes _____ Natural Attenuation	_____ Excavate and onsite remediation
Yes _____ Other _____ Gypsum and Soft Soil _____	_____ Land Treatment
	_____ Bioremediation (or enhanced bioremediation)
	_____ Chemical oxidation
	_____ Other _____

Groundwater Remediation Summary

_____ Bioremediation (or enhanced bioremediation)

_____ Chemical oxidation

_____ Air sparge / Soil vapor extraction

_____ Natural Attenuation

_____ Other _____

GROUNDWATER MONITORING

If groundwater has been impacted, describe proposed monitoring plan, including # of wells or sample points, monitoring schedule, analytical methods, points of compliance. Attach a groundwater monitoring location diagram.

Is additional groundwater monitoring to be conducted? _____

Operator shall comply with the ECMC 1000-Series Reclamation Requirements for all impacted and disturbed areas.

RECLAMATION PLAN

RECLAMATION PLANNING

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing.

To ensure the gypsum and soft soil were properly mixed into the soil profile, the spill area was rototilled to a depth of approximately 8 to 12 inches. The treated area has been leveled and shows visible furrowing consistent with deep tillage to promote infiltration, alleviate compaction, and support soil root development (see photobook in attachments). The location will be monitored visually following the treatment.

Is the described reclamation complete? No

Does the reclamation described herein constitute interim or final reclamation of the Oil and Gas Location?

Interim Final

Did the Surface Owner provide the seed mix? No

If YES, does the seed mix comply with local soil conservation district recommendations? _____

Did the local soil conservation district provide the seed mix? No

SITE RECLAMATION DATES

Proposed date of commencement of Reclamation. 05/16/2025

Proposed date of completion of Reclamation. 06/30/2027

IMPLEMENTATION SCHEDULE

Per Rule 913.d.(2): Any change from the approved implementation schedule will be requested at least 14 days in advance, and the Operator may not make the change without the Director's approval.

PRIOR DATES

Date of Surface Owner notification/consultation, if required. 05/13/2025

Actual Spill or Release date, or date of discovery. 06/13/2025

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 05/13/2025

Proposed site investigation commencement. 05/13/2025

Proposed completion of site investigation. 05/16/2025

REMEDIAL ACTION DATES

Proposed start date of Remediation. 06/16/2025

Proposed date of completion of Remediation. 12/01/2026

Per Rule 913.d.(2): Any change from the approved implementation schedule will be requested at least 14 days in advance, and the Operator may not make the change without the Director's approval.

Change from approved implementation schedule per Rule 913.d.(2).

Basis for change in implementation schedule:

OPERATOR COMMENT

This update is for quarterly reporting. No significant work has been done since last Form 27 I submission. COA's from doc#404240684 are addressed below:

- 1. Lateral and vertical impact were fully delineated by the 3 samples within the area and 1 background sample. Sample map shows lateral and vertical impact of the spill area and the 4 sample points distributed across the full spill area and the background.
- 2. The closest water wells are to the northeast, one is ~1000' away and was drilled to a depth of 380' with perforated casing between 360' – 380', lithology from cuttings in this well indicate multiple clay layers forming an impermeable barrier and preventing anything from surface to migrate to the deeper water bearing zones. While no static water level was mentioned, it is likely that it was deep given the depth of the well and the depth of the casing penetration points. The other water well further away is ~1800 northeast. This well noted static water level at 43'. Multiple relatively thick clay zones (8-10', 16-25', 28-35') were mentioned in the lithology while the well was drilled. These multiple thick clay zones form an impermeable barrier and prevent anything from the surface from migrating to the deeper water bearing zone. No groundwater and surface water was encountered at the location.
- 3. The selected remedial methods are recommendations from a local agronomist and are appropriate for the soils in the area. As a remediation method for the boron exceedance SOIL SOFT was applied for soil conditioning. This was incorporated into the soil using a rototiller to a depth of approximately 12 to 18 inches to reduce compaction and promote soil health, promote water infiltration and remediation.
- 4. Operator will re-sample sample 1, 2 and 3 for Soil suitability only in 2Q2026 to verify levels (noted NFA for Arsenic in environmental comments on Doc# 404240684). Noted on the alternative remediation should analytes still exceed table 915-1 in May 2027.

Operator is requesting to provide semi-annual updates on progress to make updates more substantial.

I hereby certify all statements made in this form are to the best of my knowledge true, correct, and complete.

Signed: Azucena Torres

Title: Remediation & Reclamation

Submit Date: _____

Email: azucena.torres@ownresources.com

Based on the information provided herein, this Application for Site Investigation and Remediation Workplan complies with ECMC Rules and applicable orders and is hereby approved.

ECMC Approved: _____

Date: _____

Remediation Project Number: 41315

COA Type

Description

0 COA	
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ATTACHMENT LIST

Upon approval, the approved Form 27 and all listed attachments will be indexed to the Remediation Project file. Only the approved Form 27 will also be indexed to the related Facilities.

Att Doc Num

Name

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Total Attach: 0 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)