

State of Colorado  
Energy & Carbon Management Commission

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Document Number:  
404629668  
Receive Date:  
04/22/2026  
Report taken by:  
Nick Cholas

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: NOBLE ENERGY INC	Operator No: 100322	<b>Phone Numbers</b>
Address: 1099 18TH STREET SUITE 1500		Phone: (970) 304-5000
City: DENVER State: CO Zip: 80202		Mobile: ( )
Contact Person: Dan Peterson	Email: RBUEUF27@chevron.com	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 38323 Initial Form 27 Document #: 403932497

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

Yes Multiple Facilities

Facility Type: LOCATION	Facility ID: 487630	API #: _____	County Name: WELD
Facility Name: Zabka T5N-R65W-S2 L01 Location	Latitude: 40.433479	Longitude: -104.634379	
	** correct Lat/Long if needed: Latitude: 40.433539	Longitude: -104.634239	
QtrQtr: NENW Sec: 2 Twp: 5N Range: 65W Meridian: 6 Sensitive Area? Yes			
Facility Type: SPILL OR RELEASE	Facility ID: 492530	API #: _____	County Name: WELD
Facility Name: Zabka T5N-R65W-S2 L01	Latitude: 40.433534	Longitude: -104.634452	
	** correct Lat/Long if needed: Latitude: _____	Longitude: _____	
QtrQtr: NENW Sec: 2 Twp: 5N Range: 65W Meridian: 6 Sensitive Area? Yes			

**SITE CONDITIONS**

General soil type - USCS Classifications SW

Most Sensitive Adjacent Land Use Grassland

Is domestic water well within 1/4 mile? No

Is surface water within 1/4 mile? No

Is groundwater less than 20 feet below ground surface? No

**Other Potential Receptors within 1/4 mile**

Residential 0.08/0.09mi N, 0.09mi NW  
Farm Structure 0.02/0.06/0.08mi N, 0.07/0.12/0.13/0.2mi NW, 0.19/0.21/0.23mi W



# SITE INVESTIGATION PLAN

## TYPE OF WASTE:

- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> E&P Waste      | <input type="checkbox"/> Other E&P Waste             | <input type="checkbox"/> Non-E&P Waste |
| <input checked="" type="checkbox"/> Produced Water | <input type="checkbox"/> Workover Fluids             | _____                                  |
| <input checked="" type="checkbox"/> Oil            | <input type="checkbox"/> Tank Bottoms                |  |
| <input checked="" type="checkbox"/> Condensate     | <input type="checkbox"/> Pigging Waste               |  |
| <input type="checkbox"/> Drilling Fluids           | <input type="checkbox"/> Rig Wash                    |  |
| <input type="checkbox"/> Drill Cuttings            | <input type="checkbox"/> Spent Filters               |  |
|  | <input type="checkbox"/> Pit Bottoms                 |  |
|  | <input type="checkbox"/> Other (as described by EPA) | _____                                  |

## DESCRIPTION OF IMPACT

Impacted?	Impacted Media	Extent of Impact	How Determined
UNDETERMINED	GROUNDWATER	NA	Lab analysis and field screening, if encountered
Yes	SOILS	Refer to tables and figures	Lab analysis and field screening

## INITIAL ACTION SUMMARY

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

Pursuant to ECMC Rule 911, a site investigation was conducted pertaining to the Zabka T5N-R65W-S2 L01 facility and tank battery. The facility and tank battery were decommissioned per ECMC rules on 10/01/2025. Grab soil samples were collected at the produced water vessels excavation and the east sidewall of the excavation, the oil-water separators, and the above ground oil tanks. Additionally, soil samples were field screened at the sidewalls of the produced water tank excavation (PWV-SS01, PWV-SS03, PWV-SS04, PWV-SS05), the flare (FLARE01), and the meter houses (MH01, MH02).

## 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 ):

Seven grab confirmation soil samples were collected from the base and the east sidewall of the produced water vessels excavation (PWV01, PWV02, PWV-SS02) beneath the ground oil tanks (AST01, AST02), and at the dump lines of the separators (SEP01-DL, SEP02-DL). In addition, the on-site dump lines located between the separator and tank battery were removed by pulling from either end. Soil samples were analyzed by a certified laboratory for the full extent of ECMC Table 915-1, including but not limited to: TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons) organic compounds in soil per ECMC Table 915-1, and EC, SAR, pH, metals, and boron. All samples collected were analyzed by a certified laboratory using approved ECMC laboratory analysis methods.

### Proposed Groundwater Sampling

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

If groundwater is encountered during site investigation activities, a grab groundwater sample will be collected and analyzed for all organic and inorganic compounds per ECMC Table 915-1.

### Proposed Surface Water Sampling

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

## Additional Investigative Actions

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

Visual inspection of the tank battery area occurred during decommissioning activities. Field personnel screened all disturbed areas using visual and olfactory senses to determine if laboratory confirmation sampling was required.

# SITE INVESTIGATION REPORT

## SAMPLE SUMMARY

Soil

NA / ND

Number of soil samples collected 7 ND Highest concentration of TPH (mg/kg) \_\_\_\_\_  
 Number of soil samples exceeding 915-1 2 -- Highest concentration of SAR 1.39  
 Was the areal and vertical extent of soil contamination delineated? No BTEX > 915-1 No  
 Approximate areal extent (square feet) 200 Vertical Extent > 915-1 (in feet) 5

**Groundwater**

Number of groundwater samples collected 0 Highest concentration of Benzene (µg/l) \_\_\_\_\_  
 Was extent of groundwater contaminated delineated? Yes Highest concentration of Toluene (µg/l) \_\_\_\_\_  
 Depth to groundwater (below ground surface, in feet) \_\_\_\_\_ Highest concentration of Ethylbenzene (µg/l) \_\_\_\_\_  
 Number of groundwater monitoring wells installed \_\_\_\_\_ Highest concentration of Xylene (µg/l) \_\_\_\_\_  
 Number of groundwater samples exceeding 915-1 \_\_\_\_\_ 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?  
 During the initial decommissioning on 10/01/2025, twelve background samples were collected from three soil borings (BKG01-BKG03). The backgrounds were collected between approximately 0-6 inches (in) to 5 feet below ground surface (ft bgs). All background samples collected were analyzed for ECMC Table 915-1 inorganics and metals. The maximum background concentration for pH was reported at 8.43 standard units. The maximum background concentrations for arsenic, barium, and selenium including the 1.25 multiplier were calculated to be 17.00 mg/kg, 220.0 mg/kg, and 1.662 mg/kg, respectively. The analyzed samples were within ECMC Table 915-1 standards/maximum background levels except for in soil sample location SEP02-DL@2' for selenium (2.120 mg/kg).

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?  
 The benzo(a)anthracene and benzo(a)pyrene exceedances observed at soil sample location PWV01@5' during the initial facility/tank battery decommissioning conducted on 10/01/2025, will be removed through a remedial excavation and the impacted soil will be segregated for proper off-site disposal. Remedial excavation confirmation soil samples will be collected and analyzed for full ECMC Table 915-1 constituents. A Supplemental Site Investigation (SSI) will be completed to vertically and horizontally delineate the selenium exceedance identified at sample location SEP02-DL@2' during the initial decommissioning. The delineation soil samples will be submitted for full ECMC Table 915-1 analysis. Concurrently with the SSI, additional background soil samples (5+) will be collected and submitted for ECMC Table 915-1 inorganic and metal analysis to determine if the selenium exceedance is attributed to native soil conditions at the site. The remedial excavation and site investigation will be completed per the proposed remedial excavation and soil sample location figure attached to the Form 27 (Doc. #404470815), currently "In Process" on webforms.

**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.  
 The benzo(a)anthracene and benzo(a)pyrene exceedances observed at soil sample location PWV01@5' during the initial facility/tank battery decommissioning conducted on 10/01/2025 will be removed through a remedial excavation. The impacted soil will be segregated for proper off-site disposal. The excavation is anticipated to be 10 feet (ft) x 10 ft x 7 ft. Remedial excavation confirmation soil samples will be collected from the base and sidewalls and analyzed for full ECMC Table 915-1. The proposed remedial excavation and sample locations are depicted in the figure attached to the Form 27 (Doc. #404470815), currently "In Process" on webforms.

**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.

The benzo(a)anthracene and benzo(a)pyrene exceedances observed at soil sample location PWV01@5' during the initial facility/tank battery decommissioning conducted on 10/01/2025, will be removed through a remedial excavation and the impacted soil will be segregated for proper off-site disposal. Remedial excavation confirmation soil samples will be collected and analyzed for full ECMC Table 915-1 constituents. An SSI will be completed to vertically and horizontally delineate the selenium exceedance identified at sample location SEP02-DL@2' during the initial decommissioning. The delineation soil samples will be submitted for full ECMC Table 915-1 analysis. Concurrently with the SSI, additional background soil samples (5+) will be collected and submitted for ECMC Table 915-1 inorganic and metal analysis to determine if the selenium exceedance is attributed to native soil conditions at the site. The remedial excavation and site investigation will be completed per the proposed remedial excavation and soil sample location figure attached to the Form 27 (Doc. #404470815), currently "In Process" on webforms.

**Soil Remediation Summary**

In Situ

Ex Situ

- \_\_\_\_\_ Bioremediation ( or enhanced bioremediation )
- \_\_\_\_\_ Chemical oxidation
- \_\_\_\_\_ Air sparge / Soil vapor extraction
- \_\_\_\_\_ Natural Attenuation
- \_\_\_\_\_ Other \_\_\_\_\_

- \_\_\_\_\_ Excavate and offsite disposal
- \_\_\_\_\_ If Yes: Estimated Volume (Cubic Yards) \_\_\_\_\_
- \_\_\_\_\_ Name of Licensed Disposal Facility or ECMC Facility ID # \_\_\_\_\_
- \_\_\_\_\_ Excavate and onsite remediation
- \_\_\_\_\_ 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.

Groundwater was not encountered during initial decommissioning activities.

# REMEDIATION PROGRESS UPDATE

## PERIODIC REPORTING

### Approved Reporting Schedule:

Quarterly    Semi-Annually    Annually    Other

### Request Alternative Reporting Schedule:

Semi-Annually    Annually    Other

Rule 913.e:

After initial approval of a Form 27, the Operator will provide quarterly update reports in a Supplemental Form 27 to document progress of site investigation and remediation, unless an alternative reporting schedule has been requested by the Operator and approved by the Director. The Director may request a more frequent reporting schedule based on site-specific conditions.

**Report Type:**    Groundwater Monitoring    Land Treatment Progress Report    O&M Report

Other Quarterly Update

## Adequacy of Operator's General Liability Insurance and Financial Assurance

Describe the adequacy of the Operator's general liability insurance and Financial Assurance to fully address the anticipated costs of Remediation, including the estimated remaining cost for this project (below).

If this information has been provided on a Form 27 within the last 12 months, provide the Document Number of that form.

Noble intends to directly address the costs of remediation at the locations as part of our asset retirement obligation process and operations. Noble has general liability insurance (policies MWZZ316714 and MWZX316724) and financial assurance in compliance with ECMC rules. Records are available on the ECMC's website. The cost for remediation is an estimate only, costs may change upwards or downward based on site-specific information. Noble makes no representation or guarantees as to the accuracy of the estimate.

Operator anticipates the remaining cost for this project to be: \$ 50000

## WASTE DISPOSAL INFORMATION

Was E&P waste generated as part of this remediation? No

Describe beneficial use, if any, of E&P Waste derived from this remediation project:

Volume of E&P Waste (solid) in cubic yards \_\_\_\_\_

E&P waste (solid) description \_\_\_\_\_

ECMC Disposal Facility ID #, if applicable: \_\_\_\_\_

Non-ECMC Disposal Facility: \_\_\_\_\_

Volume of E&P Waste (liquid) in barrels \_\_\_\_\_

E&P waste (liquid) description \_\_\_\_\_

ECMC Disposal Facility ID #, if applicable: \_\_\_\_\_

Non-ECMC Disposal Facility: \_\_\_\_\_

# REMEDIATION COMPLETION REPORT

## REMEDIATION COMPLETION SUMMARY

Is this a Final Closure Request for this Remediation Project? No

If YES:

Compliant with Rule 913.h.(1).

Compliant with Rule 913.h.(2).

Compliant with Rule 913.h.(3).

Do all soils meet Table 915-1 standards? No

Does the previous reply indicate consideration of background concentrations? \_\_\_\_\_

Does Groundwater meet Table 915-1 standards? Yes

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.

Reclamation will be in accordance with ECMC 1000 Series Rules.

Is the described reclamation complete? Yes

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? \_\_\_\_\_

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

Did the local soil conservation district provide the seed mix? \_\_\_\_\_

### SITE RECLAMATION DATES

Proposed date of commencement of Reclamation. 03/29/2026

Proposed date of completion of Reclamation. 03/31/2028

## 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. 09/11/2024

Actual Spill or Release date, or date of discovery. 10/14/2025

### SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 10/01/2025

Proposed site investigation commencement. 10/01/2025

Proposed completion of site investigation. 06/30/2026

### REMEDIAL ACTION DATES

Proposed start date of Remediation. 06/30/2026

Proposed date of completion of Remediation. 12/31/2026

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:

The implementation schedule has been modified to reflect the completion of initial decommissioning at the Zabka T5N-R65W-S2 L01 Facility and Tank Battery location, as well as the necessity for remedial excavation and SSI activities adjacent to the facility/tank battery. The proposed site investigation is tentatively scheduled for completion by the end of 2Q 2026.

**OPERATOR COMMENT**

This Form 27 is being submitted to provide a 2Q 2026 update for the Zabka T5N-R65W-S2 L01 Facility and Tank Battery location (REM #38323). No work has been completed since the previous quarterly update. The review status of the previously submitted remediation workplan and associated data (Doc. #404470815) is currently "In Process" on Web Forms.

The benzo(a)anthracene and benzo(a)pyrene exceedances observed at soil sample location PWV01@5' during the initial facility/tank battery decommissioning conducted on 10/01/2025, will be removed through a remedial excavation and the impacted soil will be segregated for proper off-site disposal. Remedial excavation confirmation soil samples will be collected and analyzed for full ECMC Table 915-1 constituents. An SSI will be completed to vertically and horizontally delineate the selenium exceedance identified at sample location SEP02-DL@2' during the initial decommissioning. The delineation soil samples will be submitted for full ECMC Table 915-1 analysis. Concurrently with the SSI, additional background soil samples (5+) will be collected and submitted for ECMC Table 915-1 inorganic and metal analysis to determine if the selenium exceedance is attributed to native soil conditions at the site. The remedial excavation and site investigation will be completed per the proposed remedial excavation and soil sample location figure attached to the Form 27 (Doc. #404470815), currently "In Process" on webforms.

In response to ECMC Form 27 comment dated 04/16/2026 (Doc. #404607011), a qualified excavation crew is not immediately available but is expected to commence the work in 2Q 2026. Work will be conducted in compliance with previously approved work plans and the 900 Series Rules.

Pursuant to Rule 913.e., quarterly reporting will be conducted until closure criteria are achieved for the remediation project. The results of the remedial excavation and site investigation will be submitted within a subsequent Form 27.

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

Signed: Richie Blessing

Title: Environmental Consultant

Submit Date: 04/22/2026

Email: NorthernColoradoPM@montrose-env.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: 38323

**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**

404629668	FORM 27-SUPPLEMENTAL-SUBMITTED
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Total Attach: 1 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

Environmental	<p>ECMC has denied this form without technical review as Operator has provided no analytical or site investigation data showing progress of remediation of impacts documented at this location.</p> <p>Per Rule 912.a.(1-2): Operators will investigate, clean up, and document impacts resulting from Spills and Releases as soon as the impacts are discovered. Operator shall not delay execution of remedial or investigative actions while waiting for ECMC approval and may request expedited review if necessary.</p> <p>Operator shall conduct work in compliance with approved workplans and the 900 Series Rules. Operator shall provide a replacement form documenting investigation and clean up of these impacts; if a form providing this information is in process no replacement Form is due. If Operator is requesting a schedule change under Rule 913.d.(2) Operator shall attach adequate justification for the request. All ongoing/unaddressed comments/COAs from previous Forms remain applicable.</p>	04/30/2026
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Total: 1 comment(s)