

State of Colorado
Energy & Carbon Management Commission

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Document Number:
404492877

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

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 26979 Initial Form 27 Document #: 403295020

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: WELL	Facility ID: _____	API #: 123-21121	County Name: WELD
Facility Name: STATE C 36-4	Latitude: 40.274490	Longitude: -104.507040	
** correct Lat/Long if needed: Latitude: 40.274627		Longitude: -104.506781	
QtrQtr: NWNW	Sec: 36	Twp: 4N	Range: 64W Meridian: 6 Sensitive Area? No
Facility Type: SPILL OR RELEASE	Facility ID: 484346	API #: _____	County Name: WELD
Facility Name: State C 36-4	Latitude: 40.274490	Longitude: -104.507040	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: NWNW	Sec: 36	Twp: 4N	Range: 64W Meridian: 6 Sensitive Area? No

Facility Type: SPILL OR RELEASE Facility ID: 491900 API #: County Name: WELD
Facility Name: STATE C #36-4 Latitude: 40.273602 Longitude: -104.505692
** correct Lat/Long if needed: Latitude: Longitude:
QtrQtr: NWNW Sec: 36 Twp: 4N Range: 64W Meridian: 6 Sensitive Area? No

Facility Type: SPILL OR RELEASE Facility ID: 491901 API #: County Name: WELD
Facility Name: STATE C #36-4 Latitude: 40.273263 Longitude: -104.505511
** correct Lat/Long if needed: Latitude: Longitude:
QtrQtr: NWNW Sec: 36 Twp: 4N Range: 64W Meridian: 6 Sensitive Area? No

SITE CONDITIONS

General soil type - USCS Classifications SC Most Sensitive Adjacent Land Use Rangeland

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

NA

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
UNDETERMINED	GROUNDWATER	NA	Field-Screening and Laboratory Analysis, if Encountered
Yes	SOILS	Refer to Table and Figures	Field-Screening and Laboratory 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.

Pursuant to Colorado Energy & Carbon Management Commission (ECMC) Rule 911, site investigations were conducted pertaining to the STATE C #36-4 wellhead cut and cap and flowline removal. On April 6, 2023, initial wellhead characterization sampling was completed by a previous consultant following cut and cap operations. Five soil samples were collected: four the excavation sidewalls and one from the base of the excavation. Laboratory results indicated exceedances of 1,3,5-trimethylbenzene, 1-methylnaphthalene, arsenic, and lead. See Document 403735457 for details. These samples have been included in Chevron's data integrity review and has been recharacterized to obtain valid point of compliance data in accordance with the approved Form 27 investigation plan. The April 6, 2023, samples will not be used for site compliance. However, since organic exceedances were documented, Form 19 Document 403378981 was submitted to open and subsequently close Spill/Release Point ID 484346 onto Remediation Project 26979.

Approximately 522 feet of flowline was removed and approximately 135 feet of flowline was abandoned-in-place due to field constraints; the ECMC was notified via Form 44 Document 403552256. On May 5, 2023, initial flowline characterization was conducted by a previous consultant. Six field-screening samples were collected along the corridor. Of these, three were submitted for laboratory analysis of all Table 915-1 organic and SSR constituents: one from the flowline directional change, one from the wellhead connection, and one from the flowline connection to the separator. Laboratory results of the flowline characterization samples indicated compliance with applicable standards except for pH. See Document 403735457 for details.

Continued in Remediation Summary section...

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):

A supplemental site investigation (SSI) will be conducted to delineate naphthalene in the flowline instigation area, specifically at FL01-01 and FL01-02. Additional background samples will be collected to establish the range of values for naturally occurring inorganic constituents in the project area. If background sampling efforts fail to demonstrate that inorganic constituent values remaining at the Location are within the natural range of values in the project area, further delineation will be completed at WH01-B to evaluate pH and WH01-E for lead. See supplemental site investigation plan (SSIP) associated with Document 404380376 (In Progress) for details.

Proposed Groundwater Sampling

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

No groundwater has been encountered during site investigation activities. If groundwater is encountered, a grab groundwater sample will be collected and analyzed for full 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 at the wellhead area occurred during site investigation activities. Field personnel assessed all disturbed areas for indications of past spills, such as staining or salt accumulation, with direction to collect samples and report any areas of concern.

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil

Number of soil samples collected 10

Number of soil samples exceeding 915-1 3

Was the areal and vertical extent of soil contamination delineated? No

Approximate areal extent (square feet) 300

NA / ND

ND Highest concentration of TPH (mg/kg) _____

-- Highest concentration of SAR 1.69

BTEX > 915-1 No

Vertical Extent > 915-1 (in feet) 7

Groundwater

Number of groundwater samples collected 0

Was extent of groundwater contaminated delineated? Yes

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?

On July 30, 2025, six background samples were collected and analyzed for Table 915-1 inorganics (Soil Suitability for Reclamation [SSR] and metal constituents). The maximum background concentration with a 1.25x multiplier applied for arsenic was calculated to be 2.13 milligrams per kilogram (mg/kg). See Document 404380376 (In Progress) for details.

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?

An SSI will be completed to delineate naphthalene and to determine if levels of pH and lead detected in characterization samples can be attributed to native soil conditions at the site. Delineation samples will be collected adjacent to FL01-01 and FL01-02 and analyzed for full Table 915-1. Background samples will be collected from areas not impacted by oil and gas development and analyzed for all Table 915-1 inorganics. See Document 404380376 (In Process) for details.

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.

Site investigation and delineation efforts are still underway for this project. When investigation efforts have concluded, if removal is deemed to be necessary a removal summary will be provided.

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.

Site investigation and delineation efforts are still underway for this project. When investigation efforts have concluded, if remediation is deemed to be necessary, a remedial approach will be proposed, and subsequent efforts and results will be reported here.

Continued from Initial Action Summary.....

On July 30, 2025, Confluence Compliance Companies, LLC (Confluence) conducted a site investigation to collect valid point of compliance samples at the former wellhead and flowline site investigation areas. Using hand tools, 10 samples were collected: five from locations of wellhead samples collected April 6, 2023, three to the north, west, and south of previous sample WH-SS-04 to confirm and delineate potential organic impacts, and two from the previous locations of the flowline directional change and connection to the separator samples collected on May 5, 2023. Laboratory results of wellhead recharacterization and delineation samples indicate compliance with applicable standards except for pH, arsenic, and barium. Laboratory results of flowline recharacterization samples indicate compliance with applicable standards except for naphthalene and arsenic. Additionally, six background soil samples were collected in nearby, undisturbed areas to characterize native values of inorganics in the area. Laboratory results of background samples indicate native values of arsenic exceeding the applicable standards. See Document 404380376 (In Process) for details.

Soil Remediation Summary

In Situ

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 # _____

_____ Natural Attenuation

_____ Excavate and onsite remediation

_____ Other _____

_____ 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 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? _____

Does the previous reply indicate consideration of background concentrations? _____

Does Groundwater meet Table 915-1 standards? _____

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 completed 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. 10/31/2026

Proposed date of completion of Reclamation. 10/31/2028

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. 11/29/2022

Actual Spill or Release date, or date of discovery. 04/20/2023

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 04/06/2023

Proposed site investigation commencement. 03/01/2023

Proposed completion of site investigation. 03/31/2026

REMEDIAL ACTION DATES

Proposed start date of Remediation. 03/31/2026

Proposed date of completion of Remediation. 10/01/2026

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:

The implementation schedule has been adjusted to reflect the status of site investigation efforts and anticipated dates for completion. Additional site investigation to delineate impacts identified during SSI activities are tentatively scheduled to be completed by the end of first quarter of 2026; laboratory results will be provided in a subsequent Form 27.

OPERATOR COMMENT

This form has been submitted to satisfy the quarterly reporting requirement for the STATE C #36-4 (Remediation Project 26979). No work was completed during the fourth quarter of 2025 due to land access. Active negotiations with the landowner are in progress regarding access terms and timing, the proposed SSIP will be scheduled pending access approval and drill rig availability. An SSI will be completed to delineate naphthalene exceedances in flowline samples FL01-01 and FL01-02 and background samples collected to determine if levels of pH and lead detected in characterization samples can be attributed to native soil conditions at the site. See Document 404380376 (In Progress) for details.

On October 3, 2025, Form 19 Documents 404378971 and 404378889 were submitted following the detection of naphthalene above the applicable standard within recharacterization samples FL01-01 and FL01-02. Sill/Release Point IDs 491901 and 491900 were assigned and subsequently closed onto Remediation Project 26979.

Pursuant to Rule 913.e., quarterly reporting will be conducted until closure criteria are achieved for the remediation project. The SSI will be completed in accordance with the proposed implementation schedule by the end of the first quarter of 2026, and the results will be submitted in 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: Miranda Beard

Title: Program Scientist

Submit Date: _____

Email: CVX-REMS@confluence-cc.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: 26979

<u>COA Type</u>	<u>Description</u>
0 COA	

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.

<u>Att Doc Num</u>	<u>Name</u>
404493212	OTHER

Total Attach: 1 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)