

State of Colorado
Energy & Carbon Management Commission

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Kilian Collins

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: Erica Zuniga	Email: RBUEUF27@chevron.com	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 33473 Initial Form 27 Document #: 403641788

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: LOCATION	Facility ID: 447571	API #: _____	County Name: WELD
Facility Name: ECKAS 2,15-16I4, C 15-23, MILLAGE C 14-33		Latitude: 40.312315	Longitude: -104.527619
		** correct Lat/Long if needed: Latitude: 40.312375	Longitude: -104.527869
QtrQtr: NESE	Sec: 15	Twp: 4N	Range: 64W Meridian: 6 Sensitive Area? Yes

SITE CONDITIONS

General soil type - USCS Classifications SW Most Sensitive Adjacent Land Use Cropland
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? No

Other Potential Receptors within 1/4 mile

Aquatic Native Species Conservation Waters (1202.c)
Riverine 85ft W, Box Elder Creek 160ft W

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	Laboratory Analysis and Field Screening, if encountered
Yes	SOILS	Refer to Document No. 403878624	Laboratory 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.

On 5/22/24, a site investigation was conducted pursuant to ECMC Rule 911 at the Eckas 2,15-1614, C 15-23, Millage C 14-33 tank battery location. Laboratory soil samples were collected from beneath both above ground storage tanks (AST01@0-6" & AST02@0-6"), beneath the flowline riser (SEP01-FL@3') and dump line (SEP01-DL@3') at the separator, and at the base of the produced water vault excavation (PWV01-B@4'). Field screening samples were collected at the excavation sidewalls in each cardinal direction and the sample with the highest screening level was sent for laboratory analysis (PWN01-N@2'). Field screening samples were also collected beneath the flare (FLARE01@0-6') and the meter house (MH01@0-6').

Two soil sample locations had irregular GPS data recorded during decommissioning. It was determined that the transformation from the WGS to NAD83 coordinate system explains the western displacement at sample location MH01@0-6". The southeastern displacement observed at sample location location SEP01-DL@3' cannot be explained by any issues with GPS precision or coordinate system transformations.

Additional decommissioning samples were collected on 4/24/25. Field screening samples were collected at the northern flare (FLARE02) and southern meter house (MH02). Laboratory soil samples were collected at the eastern separator (SEP02-DL, SEP02-FL) and western separator dump line location (SEP01-FLR). Analytical results indicated that Table 915-1 organics were within regulatory standards. However, volatile organic compounds analyzed by EPA Method 8260B were analyzed outside of the recommended EPA holding times for SEP02-DL, SEP02-FL, and SEP01-FLR and will therefore be recollected.

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):

Soil samples were collected as described in the Initial Action Summary of this Form 27. Sampling deviated from the approved sampling plan in the Initial Form 27 #403641788 as decommissioning samples SEP02-DL, SEP02-FL, and SEP01-FLR were analyzed outside of EPA recommended holding times due to laboratory error at Summit Scientific and will therefore be recollected as proposed in pending Form 27 Document #404489561. Finally, a field screening (FLARE01) was collected from an additional flare present on site that was not represented in the initial proposed sampling plan.

Soil samples will be analyzed by a certified laboratory for the full extent of Table 915-1, including but not limited to: TPH (total volatile [C6-C10] and extractable where required when applicable [C10-C36] hydrocarbons) organic compounds in soil per ECMC Table 915-1, 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 the site investigation a grab groundwater sample will be collected and analyzed for all organic and inorganic compounds per ECMC Table 915-1; this sample analysis includes, but is not limited to BTEX, naphthalene, 1,2,4-trimethylbenzene (TMB), and 1,3,5-TMB by EPA Method 8260, chloride and sulfate anions by EPA Method 300.0, and total dissolved solids (TDS) by Method SM 2540C.

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 tank battery occurred during decommissioning activities. Field personnel screened all disturbed areas using visual and olfactory senses to determine if laboratory confirmation sampling was required. A detailed summary of decommissioning activities, including field notes, site photos, figures, and laboratory analytical results, are attached to prior Form 27 Document #403878624. A detailed summary of additional decommissioning activities, including field notes, site photos, and figures is attached to pending Form 27 Document #404489561.

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil

Number of soil samples collected 0
Number of soil samples exceeding 915-1 0
Was the areal and vertical extent of soil contamination delineated?
Approximate areal extent (square feet) 0

NA / ND

 Highest concentration of TPH (mg/kg)
 Highest concentration of SAR
BTEX > 915-1
Vertical Extent > 915-1 (in feet)

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 5/22/24, three background samples were collected from a single discrete location (BKG01) near the tank battery and analyzed for metals in soil per ECOMC Table 915-1, pH, SAR, and EC. Background soil samples were collected from depths ranging between 2 and 4 feet below ground surface (ft. bgs). The maximum background concentration for pH was observed to be 9.49. The maximum background concentrations with a 1.25x multiplier for arsenic and barium were observed to be 4.48 mg/kg and 109 mg/kg, respectively. All pH and arsenic concentrations observed during decommissioning were below maximum background levels.

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?

Based on the analytical results collected during decommissioning activities, a supplemental site investigation (SSI) will be conducted to collect additional background samples to determine if the elevated barium concentrations observed at sample location SEP01-DL@3' can be attributed to native soil conditions at the site. Background soil samples will be analyzed for Table 915-1 metals, pH, EC, SAR, and Boron.

Samples collected during additional decommissioning activities on 4/24/25 were analyzed outside of allotted holding times due to delays at Summit Scientific Laboratory. Concurrently with the SSI, resamples of the affected locations (SEP02-FL, SEP02-DL, SEP02-FLR) will be collected and submitted for the full Table 915-1 analytical suite.

The SSI will tentatively be completed in accordance with the proposed implementation schedule included on pending Form 27 Document #404489561, and the results of the SSI will be submitted on a subsequent Form 27. Noble has made every effort to access the property, but the Owner has refused access. Noble continues to request permission to commence the work scope. Any changes to the proposed SSI sampling schedule will be summarized in an upcoming F27 supplemental document.

REMEDIAL ACTION PLAN

Does this Supplemental Form 27A include changes to a previously approved Remedial Action Plan? Yes _____

SOURCE REMOVAL SUMMARY

Describe how source is to be removed.

No impacted material caused by oil and gas operations was identified at this time.

REMEDIATION 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.

Decommissioning analytical results indicated that organic compound concentrations were in compliance with the applicable ECMC regulatory standards. Concentrations of barium were in exceedance of the applicable ECMC regulatory standards and above background levels.

Samples collected during additional decommissioning activities on 4/24/25 were analyzed outside of allotted holding times due to delays at Summit Scientific Laboratory. Resamples of the affected locations (SEP02-FL, SEP02-DL, SEP02-FLR) will be collected and submitted for the full Table 915-1 analytical suite.

Based on the remaining analytes, a supplemental site investigation (SSI) will be conducted to collect additional background samples (BKG02-BKG06) to determine if the barium exceedance observed at sample location (SEP01-DL@3') can be attributed to native soil conditions at the site. The SSI will be completed in accordance with the attached proposed site investigation map and proposed sampling plan outlined in pending Form 27 Document #404489561.

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 has not been encountered during the initial decommissioning activities conducted to date.

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 Timeline 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 (policy MWZZ 316714) 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. 05/22/2024

Proposed date of completion of Reclamation. 11/29/2027

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. 08/15/2014

Actual Spill or Release date, or date of discovery. _____

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 05/22/2024

Proposed site investigation commencement. 05/29/2026

Proposed completion of site investigation. 05/29/2026

REMEDIAL ACTION DATES

Proposed start date of Remediation. 05/29/2026

Proposed date of completion of Remediation. 11/29/2027

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 changed at the former Eckas 2,15-1614, C 15-23, Millage C 14-33 tank battery location due to the necessity of supplemental site investigation (SSI) activities as well as ongoing land access considerations. Noble has made every effort to access the property, but the Owner has refused access. Noble continues to request permission to commence the work scope. The SSI is tentatively scheduled to commence on May 29th, 2026. The ECMC will be notified to any updates to the implementation schedule in a subsequent Form 27.

OPERATOR COMMENT

This Form 27 is being submitted as a second quarter 2026 timeline update for the former Eckas 2,15-1614, C 15-23, Millage C 14-33 tank battery location.

Based on the remaining analytes, a supplemental site investigation (SSI) will be conducted to collect additional background samples (BKG02-BKG06) to determine if the barium exceedance observed at sample location (SEP01-DL @3') can be attributed to native soil conditions at the site. The SSI will be conducted in accordance with the attached proposed site investigation map and proposed sampling plan outlined in pending Form 27 Document #404489561.

Samples collected during additional decommissioning activities on 4/24/25 were analyzed outside of allotted holding times due to delays at Summit Scientific Laboratory. Concurrently with the SSI, resamples of the affected locations (SEP02-FL, SEP02-DL, SEP02-FLR) will be collected and submitted for the full Table 915-1 analytical suite.

The Operator is requesting an additional quarter to address ongoing land access restrictions. Noble has made every effort to access the property, but the Owner has refused access. Noble continues to request permission to commence the work scope. A subsequent Form 27 submission will provide the results of this request and will propose additional site investigation activities, if necessary.

The SSI and resampling events are tentatively scheduled to commence on May 29th, 2026.

Pursuant to Rule 913.e, quarterly reporting will be conducted until closure criteria are achieved for the remediation project.

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

Signed: Kathryn Healy

Title: Environmental Consultant

Submit Date: 04/20/2026

Email: tas-chevron-7@tasman-geo.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: 04/30/2026

Remediation Project Number: 33473

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

404607012	FORM 27-SUPPLEMENTAL-SUBMITTED
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Total Attach: 1 Files

General Comments

User Group

Comment

Comment Date

Environmental	ECMC has processed this form as an update without technical review; no data was attached thus approval of this form does not imply any agreement with comments on completion of site investigation or alteration of site plan. All ongoing/unaddressed comments/COAs from previous Forms remain applicable. Operator shall not delay execution of remedial or investigative actions while waiting for ECMC approval and may request expedited review if necessary.	04/30/2026
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Total: 1 comment(s)