

State of Colorado Oil and Gas Conservation Commission

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403277698

Receive Date:

06/08/2023

Report taken by:

John Heil

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 COGCC 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: CHEVRON USA INC	Operator No: 16700	Phone Numbers Phone: (661) 437-8040 Mobile: ()
Address: 760 HORIZON DRIVE STE 401		
City: GRAND JUNCTION	State: CO Zip: 81506	
Contact Person: Rachel Puechner	Email: Rpuechner@chevron.com	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 20334 Initial Form 27 Document #: 402806511

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 #: 103-05843	County Name: RIO BLANCO
Facility Name: WILSON CREEK UNIT 31		Latitude: 40.172194	Longitude: -107.905431
		** correct Lat/Long if needed: Latitude:	Longitude:
QtrQtr: SWNE	Sec: 2	Twp: 2N	Range: 94W Meridian: 6 Sensitive Area? No
Facility Type: SPILL OR RELEASE	Facility ID: 483283	API #:	County Name: RIO BLANCO
Facility Name: SPILL/RELEASE POINT		Latitude: 40.172229	Longitude: -107.905129
		** correct Lat/Long if needed: Latitude:	Longitude:
QtrQtr: SWNE	Sec: 2	Twp: 2N	Range: 94W Meridian: 6 Sensitive Area? No

SITE CONDITIONS

General soil type - USCS Classifications GC

Most Sensitive Adjacent Land Use Forest

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

Location is located within a High Priority Habitat Area.

SITE INVESTIGATION PLAN

TYPE OF WASTE:

<input type="checkbox"/> E&P Waste	<input type="checkbox"/> Other E&P Waste	<input checked="" type="checkbox"/> Non-E&P Waste
<input type="checkbox"/> Produced Water	<input type="checkbox"/> Workover Fluids	Contaminated soils excavated and hauled off location.
<input type="checkbox"/> Oil	<input type="checkbox"/> Tank Bottoms	
<input 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
Yes	SOILS	2304 cu yd	Excavation.
Yes	VEGETATION	Well site was cleared and graded.	Satellite imagery

INITIAL ACTION SUMMARY

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

Well plug and abandonment to begin on 9/15/21. Site reclamation to follow.

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):

Discrete soil samples shall be collected from the wellhead location, and any impacts at depth will be documented and remediated. Additionally, discrete soil samples shall be collected per Rule 915.e.(2).B, such as where the on-location flow line will be abandoned and beneath any associated equipment on location. The number and location of samples will be appropriate to determine the horizontal and vertical extent of the impact. Collected soil samples will be analyzed for Table 915-1 Cleanup Concentrations using the Protection of Groundwater Screening Level Concentrations.

Proposed Groundwater Sampling

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

If groundwater is encountered during any excavation, a minimum of one groundwater sample shall be collected per Rule 913.c.(6) for those constituents listed in 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):

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil

Number of soil samples collected 27
 Number of soil samples exceeding 915-1 25

NA / ND

-- Highest concentration of TPH (mg/kg) 1710
 -- Highest concentration of SAR 4.41

Was the areal and vertical extent of soil contamination delineated? Yes

BTEX > 915-1 No

Approximate areal extent (square feet) 5828

Vertical Extent > 915-1 (in feet) 18

Groundwater

Number of groundwater samples collected 0

-- Highest concentration of Benzene (µg/l)

Was extent of groundwater contaminated delineated? No

-- 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?

Two background samples were collected from comparable, nearby non-impacted native soil for purposes of establishing background soil conditions. See Table 1 in Background Soil Results portion of attached Closure Report for background sample analytical results.

☐ 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.

If any impacts are identified during the well P&A and closure of associated facilities, the contaminated soil will be excavated and hauled to an authorized disposal facility.

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.

If any impacts are identified during the well P&A and closure of the associated facilities, the contaminated soil will be excavated and hauled to an authorized disposal facility. If groundwater is encountered during any excavation, a minimum of one groundwater sample shall be collected per Rule 913.c.(6) for those constituents listed in Table 915-1. Pursuant to Rule 913.h.(1).A, demonstration of compliance with Table 915-1 cleanup concentration is required for closure of this remediation project.

Soil Remediation Summary

☐ In Situ

☒ Ex Situ

Bioremediation (or enhanced bioremediation)

Yes Excavate and offsite disposal

Chemical oxidation

If Yes: Estimated Volume (Cubic Yards) 2304

Air sparge / Soil vapor extraction

Name of Licensed Disposal Facility or COGCC Facility ID #

Natural Attenuation

Excavate and onsite remediation

Other

_____ Land Treatment

_____ Bioremediation (or enhanced bioremediation)

_____ Chemical oxidation

_____ Other _____

Groundwater Remediation Summary

_____ No Bioremediation (or enhanced bioremediation)

_____ No Chemical oxidation

_____ No Air sparge / Soil vapor extraction

_____ No Natural Attenuation

_____ No 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.

N/A

REMEDIATION PROGRESS UPDATE

PERIODIC REPORTING

Approved Reporting Schedule:

☐ Quarterly☐ Semi-Annually☐ Annually☒ Other

A supplemental Form 27 will be submitted within 45 days of the completion of the actions described.

☐ 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

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.

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

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 _____

COGCC Disposal Facility ID #, if applicable: _____

Non-COGCC Disposal Facility: _____

Volume of E&P Waste (liquid) in barrels _____

E&P waste (liquid) description _____

COGCC Disposal Facility ID #, if applicable: _____

Non-COGCC Disposal Facility: _____

REMEDIATION COMPLETION REPORT

REMEDIATION COMPLETION SUMMARY

Is this a Final Closure Request for this Remediation Project? Yes

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 COGCC 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.

Site is to be reclaimed for final abandonment following well plug and abandonment. Flowlines from well will be removed from pad location. Wellhead will be cut and capped below grade. Location will be recontoured to natural grade and revegetated with approved seed mixture in appropriate seeding season. Road adjacent to pad will remain in place until the full field abandonment project progresses to a point that the road is not longer in use. Road determinations to be made with BLM and relevant surface owners.

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? _____

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. 10/11/2021

Proposed date of completion of Reclamation. _____

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. 07/29/2021

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

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 09/15/2021

Proposed site investigation commencement. _____

Proposed completion of site investigation. _____

REMEDIAL ACTION DATES

Proposed start date of Remediation. _____

Proposed date of completion of Remediation. _____

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

Requesting approval to begin backfilling this excavation, with considerations for slightly elevated pH values. See attached Closure Report for discussion concerning the request of relief of the Table 915-1 Soil Suitability for Reclamation pH concentration. Will import fill material from the Urie Pit location in Rangely, CO or the United Pit located in White River City, CO. Closure summary report and analytical results (for the excavation base/sidewalls, background samples, and import fill material) are attached.

The information below should provide clarification on why samples analyzed for pH were received past/too close to holding time expiration which was requested on prior submittal. The data summary table identified certain samples with a "T8" qualifier with which states sample(s) received past/too close to holding time expiration. Methods 9045 for pH says that samples should be analyzed as soon as possible. 40 CFR 136 Table II defines the maximum holding time for Hydrogen ion (pH) as 15 minutes. Method 9045D can be done in the field, but often field conditions cannot be controlled and may be unfavorable for accurate analyses. The methods are generally meant to be used in a laboratory setting under controlled conditions. In general, in the laboratory, it is recommended to perform the analysis within a few hours of receipt, and not the next day. In an effort to minimize confusion on this submittal, the T8 qualifiers have been removed from the data summary table.

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

Signed: Rachel Puechner

Title: Decommissioning Advisor

Submit Date: 06/08/2023

Email: Rpuechner@chevron.com

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

COGCC Approved: John Heil

Date: 06/08/2023

Remediation Project Number: 20334

COA Type

Description

	Based on a review of the information provided, it appears that no further action is necessary at this time and COGCC approves the closure request. Should conditions at the site indicate contaminant concentrations in soils exceeding COGCC standards, or, if groundwater is found to be significantly impacted, further investigation and/or remediation activities may be required at the site.
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1 COA

Attachment Check 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

403277698	FORM 27-SUPPLEMENTAL-SUBMITTED
403417657	REMEDIATION PROGRESS REPORT

Total Attach: 2 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)