

# State of Colorado Oil and Gas Conservation Commission

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Document Number:

402532270

Receive Date:

11/17/2020

Report taken by:

KRIS NEIDEL

## 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.

Refer to Rules 340, 905, 906, 907, 908, 909, and 910

### OPERATOR INFORMATION

Name of Operator: CHEVRON USA INC	Operator No: 16700	<b>Phone Numbers</b>
Address: 100 CHEVRON ROAD		Phone: (832) 854-5601
City: RANGELY State: CO Zip: 81648		Mobile: (281) 660-8564
Contact Person: Jason Michelson	Email: jmichelson@chevron.com	

### PROJECT, PURPOSE & SITE INFORMATION

#### PROJECT INFORMATION

Remediation Project #: 14816

Initial Form 27 Document #: 402191055

#### PURPOSE INFORMATION

- |   |  |
|---|--|
| <input type="checkbox"/> 901.e. Sensitive Area Determination  | <input type="checkbox"/> 909.c.(5), Rule 910.b.(4): Remediation of impacted ground water                   |
| <input type="checkbox"/> 909.c.(1), Rule 905: Pit or PW vessel closure  | <input type="checkbox"/> Rule 909.e.(2)A.: Notice completion of remediation in accordance with Rule 909.b. |
| <input type="checkbox"/> 909.c.(2), Rule 906: Spill/Release Remediation                                       | <input type="checkbox"/> Rule 909.e.(2)B.: Closure of remediation project                                  |
| <input type="checkbox"/> 909.c.(3), Rule 907.e.: Land treatment of oily waste                                 | <input type="checkbox"/> Rule 906.c.: Director request   |
| <input checked="" type="checkbox"/> 909.c.(4), Rule 908.g.: Centralized E&P Waste Management Facility closure | <input type="checkbox"/> Other _____   |

#### SITE INFORMATION

N Multiple Facilities ( in accordance with Rule 909.c. )

Facility Type: CENTRALIZED EP WASTE MGMT FAC	Facility ID: 149002	API #: _____	County Name: RIO BLANCO
Facility Name: WILSON CREEK LANDFARM	Latitude: 40.191414	Longitude: -107.907919	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: NENW	Sec: 35	Twp: 3N	Range: 94W Meridian: 6 Sensitive Area? Yes

#### SITE CONDITIONS

General soil type - USCS Classifications CL

Most Sensitive Adjacent Land Use Recreational

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

# 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
No	GROUNDWATER	None	Groundwater Samples
No	SOILS	None	Confirmation Soil Samples

## INITIAL ACTION SUMMARY

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

Excavation, offsite disposal, confirmation soil sampling, and backfill activities completed in accordance with the Wilson Creek Unit Onsite Landfarm – Cell 1 Closure Workplan (Cell 1 Work Plan) COGCC Document Number 402191055 approved on December 17, 2019 and the Wilson Creek Unit Onsite Landfarm – Cell 2 Removal and Landfarm Closure Workplan (Cell 2 Work Plan) COGCC Document Number 402412921 approved on July 1, 2020.

## 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 ):

### Proposed Groundwater Sampling

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

### 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 \_\_\_\_\_ 0

Number of soil samples exceeding 910-1 \_\_\_\_\_

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

Approximate areal extent (square feet) \_\_\_\_\_

### NA / ND

NA Highest concentration of TPH (mg/kg) \_\_\_\_\_

NA Highest concentration of SAR \_\_\_\_\_

BTEX > 910-1 No \_\_\_\_\_

Vertical Extent > 910-1 (in feet) \_\_\_\_\_

### 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 910-1 \_\_\_\_\_

NA Highest concentration of Benzene (µg/l) \_\_\_\_\_

NA Highest concentration of Toluene (µg/l) \_\_\_\_\_

NA Highest concentration of Ethylbenzene (µg/l) \_\_\_\_\_

NA Highest concentration of Xylene (µg/l) \_\_\_\_\_

NA Highest concentration of Methane (mg/l) \_\_\_\_\_

### Surface Water

\_\_\_\_\_ 0 Number of surface water samples collected

\_\_\_\_\_ Number of surface water samples exceeding 910-1

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?

☐ 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.

Excavation, offsite disposal, confirmation soil sampling, and backfill activities completed in accordance with the Wilson Creek Unit Onsite Landfarm – Cell 1 Closure Workplan (Cell 1 Work Plan) COGCC Document Number 402191055 approved on December 17, 2019 and the Wilson Creek Unit Onsite Landfarm – Cell 2 Removal and Landfarm Closure Workplan (Cell 2 Work Plan) COGCC Document Number 402412921 approved on July 1, 2020.

## 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.

Excavation, offsite disposal, confirmation soil sampling, and backfill activities were completed between October 7, 2019 and August 26, 2020 in accordance with the Wilson Creek Unit Onsite Landfarm – Cell 1 Closure Workplan (Cell 1 Work Plan) COGCC Document Number 402191055 approved on December 17, 2019 and the Wilson Creek Unit Onsite Landfarm – Cell 2 Removal and Landfarm Closure Workplan (Cell 2 Work Plan) COGCC Document Number 402412921 approved on July 1, 2020.  
Details of remediation activities and closure request can be found in the attached "Remediation Documentation and Closure Request Report – Onsite Landfarm Cell 1 and Cell 2 (COGCC Facility ID 149002)."

## Soil Remediation Summary

☐ In Situ

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

☒ Ex Situ

Yes \_\_\_\_\_ Excavate and offsite disposal  
If Yes: Estimated Volume (Cubic Yards) \_\_\_\_\_ 9955  
Name of Licensed Disposal Facility or COGCC 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.

## REMEDIATION PROGRESS UPDATE

### PERIODIC REPORTING

**Frequency:** ☐ Quarterly ☐ Semi-Annually ☐ Annually ☒ Other One Time Onsite Landfarm Remediation Documentation and Closure Request Report

**Report Type:** ☐ Groundwater Monitoring ☐ Land Treatment Progress Report ☐ O&M Report ☒ Other One Time Onsite Landfarm Remediation Documentation and Closure Request Report

### WASTE DISPOSAL INFORMATION

Was E&P waste generated as part of this remediation? Yes

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

None

Volume of E&P Waste (solid) in cubic yards 9955

E&P waste (solid) description Soils above COGCC Table 910-1 Concentration Levels in Centralized E&P Waste Management Facility

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

Non-COGCC Disposal Facility: Rio Blanco County Wray Gulch Landfill and Republic Service's landfill ECDC Environmental LC

Volume of E&P Waste (liquid) in barrels 0

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

Do all soils meet Table 910-1 standards? No

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

Are the only residual soil impacts pH, SAR, or EC at depths greater than 3 feet below ground surface? Yes

Does Groundwater meet Table 910-1 standards? Yes

Is additional groundwater monitoring to be conducted? No

## 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.

Under a separate cover and eForm 27, Chevron U.S.A. Inc. (Chevron) will formally requesting a Rule 502.b Variance from the Colorado Oil and Gas Conservation Commission (COGCC) Rule 1004, specifically portions of Rule 1004.a, Rule 1004.c (except for those portions that cannot be waived), Rule 1004.d, and Rule 1004.e. Chevron, as the surface owner, seeks a Rule 502.b Variance from reclamation requirements for approximately 1.5 acres of the Wilson Creek Unit (Site) Centralized Exploration and Production (E&P) Waste Management Facility (Onsite Landfarm; Facility ID 149002) under COGCC Rule 908 to allow Chevron to continue use of the Onsite Landfarm as a laydown yard for existing Site operations or to potentially support Chevron's ongoing remediation activities for closure of COGCC Remediation Project Number 70.

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 approve the seed mix? \_\_\_\_\_

If NO, does the seed mix comply with local soil conservation district recommendations? \_\_\_\_\_

## IMPLEMENTATION SCHEDULE

### **PRIOR DATES**

Date of Surface Owner notification/consultation, if required. \_\_\_\_\_

Actual Spill or Release date, if known. \_\_\_\_\_

### **SITE INVESTIGATION DATES**

Date of Initial Actions described in Site Investigation Plan (start date). \_\_\_\_\_

Date of commencement of Site Investigation. \_\_\_\_\_

Date of completion of Site Investigation. \_\_\_\_\_

### **REMEDIAL ACTION DATES**

Date of commencement of Remediation. 10/07/2019

Date of completion of Remediation. 08/26/2020

### **SITE RECLAMATION DATES**

Date of commencement of Reclamation. \_\_\_\_\_

Date of completion of Reclamation. \_\_\_\_\_

**OPERATOR COMMENT**

Attention: Mr. Steven J. Arauza, P.G.  
Environmental Protection Specialist  
Colorado Oil and Gas Conservation Commission  
Department of Natural Resources  
Phone 303.894.2100, ext. 5689|Cell 720.498.5298  
818 Taughenbaugh Blvd, Suite 103, Rifle, CO 81650  
steven.arauza@state.co.us

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

Signed: Christopher Beall

Title: Associate Geologist

Submit Date: 11/17/2020

Email: Christopher.Beall@stantec.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: Steven Arauza

Date: 11/25/2020

Remediation Project Number: 14816

**COA Type****Description**

	Based on review of information presented it appears that no further action is necessary at this time, and COGCC approves the closure request. However, should future conditions at the site indicate contaminant concentrations in soils exceeding COGCC standards or if surface and/or ground water is found to be impacted, then further investigation and/or remediation activities will be required at the site. In addition, the non-working surface area disturbed by the remediation activity shall be reclaimed in accordance with the 1000 Series Reclamation Rules including the establishment of vegetative cover on non-cropland and successful growth on cropland. Landowner must approve reclamation of cropland.
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**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**

402532270	FORM 27-SUPPLEMENTAL-SUBMITTED
402532387	REMEDIATION PROGRESS REPORT

Total Attach: 2 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Environmental	Attached remediation report (doc #402532387) documents Table 910-1 exceedances for pH (4.8) at the location of Sample ID LF-SW-01 and EC (4.8 mmhos/cm) at the location of Sample ID LF-SW-06. Both of these sample locations are associated with Cell 2 and were collected from respective depths of 5.5 and 8.4 feet bgs.  Analytical results also indicate that Sample ID LF-Cell 1-FLR02 exceeds Table 910-1 for SAR (17) and pH (9.2), at a depth of 4.4 feet bgs.  Based on the respective depths of these samples, the Operator's plan to address inorganics exceedances of Table 910-1 per FAQ 32 is conditionally approved. See COA above.	11/25/2020
Environmental	Approval of this eForm 27 closure request does not constitute COGCC approval or endorsement of the Rule 502.b variance request referenced under the Reclamation Plan section of this form. Operator shall coordinate with the COGCC Reclamation Unit regarding compliance with the COGCC Reclamation Rules.	11/19/2020

Total: 2 comment(s)