

State of Colorado Oil and Gas Conservation Commission

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Document Number:

402651575

Receive Date:

04/07/2021

Report taken by:

KRIS NEIDEL

Site Investigation and Remediation Workplan (Initial 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 | Phone Numbers |
| Address: 100 CHEVRON ROAD | | Phone: (970) 675-3814 |
| City: RANGELY State: CO Zip: 81648 | | Mobile: (307) 871-5363 |
| Contact Person: Chris Patterson | Email: spwu@chevron.com | |

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 19354

Initial Form 27 Document #: 402651575

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 checked="" 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 type="checkbox"/> 909.c.(4), Rule 908.g.: Centralized E&P Waste Management Facility closure | <input type="checkbox"/> Other _____ |

SITE INFORMATION

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

| | | | |
|--|---------------------|------------------------|---|
| Facility Type: LOCATION | Facility ID: 426403 | API #: _____ | County Name: RIO BLANCO |
| Facility Name: RANGELY WEBER MAIN WTR PLANT TB | Latitude: 40.098741 | Longitude: -108.862515 | |
| ** correct Lat/Long if needed: Latitude: _____ | | Longitude: _____ | |
| QtrQtr: NWSE | Sec: 32 | Twp: 2N | Range: 102W Meridian: 6 Sensitive Area? Yes |
| Facility Type: SPILL OR RELEASE | Facility ID: 441152 | API #: _____ | County Name: RIO BLANCO |
| Facility Name: SPILL/RELEASE POINT | Latitude: 40.099592 | Longitude: -108.861426 | |
| ** correct Lat/Long if needed: Latitude: _____ | | Longitude: _____ | |
| QtrQtr: nese | Sec: 32 | Twp: 2n | Range: 102w Meridian: 6 Sensitive Area? Yes |
| Facility Type: SPILL OR RELEASE | Facility ID: 446489 | API #: _____ | County Name: RIO BLANCO |
| Facility Name: SPILL/RELEASE POINT | Latitude: 40.101143 | Longitude: -108.862302 | |
| ** correct Lat/Long if needed: Latitude: _____ | | Longitude: _____ | |
| QtrQtr: SENE | Sec: 32 | Twp: 2N | Range: 102W Meridian: 6 Sensitive Area? No |

SITE CONDITIONS

General soil type - USCS Classifications CH

Most Sensitive Adjacent Land Use Non Crop Land

Is domestic water well within 1/4 mile? No

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

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 |
|-----------|----------------|------------------------|------------------------------------|
| Yes | SOILS | 971ft. x 1ft. x 0.5 ft | Field determined with tape measure |

INITIAL ACTION SUMMARY

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

This form addresses 2 historical spills which impacted the same area at the Main Water Treatment Plant:

Spill 401072951 (Facility 446489) - Line between truck unloading facility and the Ruben tank was leaking to surface inside secondary containment. The line was shut in immediately upon discovery. Produced water was routed to the main water plant secondary containment pit. Oil staining was removed, path to pit was water washed, and leaking elbow will be replaced with stainless.

Spill 400812102 (Facility 441152) - This spill was originally entered by COGCC staff to document a historic spill. It is believed that proper notice was given by the operator at the time of spill, but it is not discoverable in the database. A leak occurred on a 3/4 inch bleed valve nipple at the Main Water Plant's Solids Pump. Approximately 51 bbls of brine water was released. The line was shut in immediately upon detection. Vacuum trucks removed all of the free fluid, estimated recovery is approximately 50 bbls of brine water. The fluids that were picked up, were taken to the truck unloading facility at the Main Water Plant for recycling.

A soil sample location map showing overlapping spill locations and preliminary analytical results are included as an attachment.

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):

Spill 400812102 (Facility 441152) - Preliminary soil samples were collected on July 17, 2012 from the spill path. A total of six (6) grab samples analyzed for Table 910-1 parameters were collected at a depths from 0 to 6 inches below ground surface (ft-bgs). Results show elevated PAH, SAR and EC levels within the impacted area.

Spill 401072951 (Facility 446489) - Preliminary soil samples were collected on November 9, 2016 from the spill path. A total of four (4) grab samples analyzed for Table 910-1 parameters were collected at a depths from 0 to 6 inches below ground surface (ft-bgs). Results show elevated PAH, SAR and EC levels within the impacted area.

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 10

Number of soil samples exceeding 910-1 8

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

Approximate areal extent (square feet) 971

NA / ND

-- Highest concentration of TPH (mg/kg) 170

-- Highest concentration of SAR 130

BTEX > 910-1 No

Vertical Extent > 910-1 (in feet) 0

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

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 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

SOURCE REMOVAL SUMMARY

Describe how source is to be removed.

BD - No soil has been removed to this date. Chevron is currently assessing remediation options.

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.

Remediation options are being assessed and once chosen will be outlined in a supplemental Form 27.

Soil Remediation Summary

☒ In Situ

_____ Bioremediation (or enhanced bioremediation)

_____ Chemical oxidation

_____ Air sparge / Soil vapor extraction

_____ Natural Attenuation

Yes _____ Other _____ TBD _____

☐ Ex Situ

_____ Excavate and offsite disposal

If Yes: Estimated Volume (Cubic Yards) _____

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.

REMEDATION PROGRESS UPDATE

PERIODIC REPORTING

Frequency: ☐ Quarterly ☐ Semi-Annually ☒ Annually ☐ Other _____

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

☒ Other REM Progress Rpt. _____

WASTE DISPOSAL INFORMATION

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

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: _____

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 will be reclaimed and seeded once repairs are completed.

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. 07/11/2012

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 07/17/2012

Date of commencement of Site Investigation. 07/17/2012

Date of completion of Site Investigation. _____

REMEDIAL ACTION DATES

Date of commencement of Remediation. _____

Date of completion of Remediation. _____

SITE RECLAMATION DATES

Date of commencement of Reclamation. _____

Date of completion of Reclamation. _____

OPERATOR COMMENT

Please see attached.

Chevron requests that spill document numbers 400812102 and 401072951 proceed under a single remediation project number as each spill covers essentially the same area. With Form 27 approval and remediation project number assignment Chevron will request closure of existing spill numbers.

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

Signed: ` Chris Patterson

Title: Lead ENV Specialist

Submit Date: ` 04/07/2021

Email: spwu@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: KRIS NEIDEL

Date: 07/29/2021

Remediation Project Number: 19354

Condition of Approval**COA Type****Description**

| | |
|--------|---|
| | Soil delineation shall include samples, at appropriate depths. Including at the Spill/Release Point Location. |
| | 2021 sampling should include further delineation around sample location SS4 |
| | Per Rule 915.f, if the remediation project is not completed by January 15, 2022, soils shall comply with Table 915-1. |
| | By December 2021 the Operator shall collect samples and provide soil delineation results on a form 27. |
| | It appears that BG1 is impacted, as such it is not an adequate Background. Background samples shall be collected in 2021. |
| | 2021 Samples shall include PAH's and Inorganics. |
| | Semi-annual reporting is approved, not annual. |
| | Sample location selection should be guided by rule 915.e.(2)B. |
| 8 COAs | |

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**

| | |
|-----------|---------------------------|
| 402651575 | FORM 27-INITIAL-SUBMITTED |
| 402651631 | ANALYTICAL RESULTS |

Total Attach: 2 Files

General Comments**User Group****Comment****Comment Date**

| | | |
|--|--|---------------------|
| | | Stamp Upon Approval |
|--|--|---------------------|

Total: 0 comment(s)