

# State of Colorado Oil and Gas Conservation Commission

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Document Number:

401843212

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 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 PIPELINE COMPANY	Operator No: 16690	<b>Phone Numbers</b>
Address: 2750 COUNTY ROAD 102		Phone: (801) 539-7339
City: RANGELY State: CO Zip: 81648		Mobile: (801) 244-9825
Contact Person: Burt Smith	Email: BULS@chevron.com	

### PROJECT, PURPOSE & SITE INFORMATION

#### PROJECT INFORMATION

Remediation Project #: 10149

Initial Form 27 Document #: 401259499

#### 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

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

Facility Type: SPILL OR RELEASE	Facility ID: 449632	API #: _____	County Name: RIO BLANCO
Facility Name: SPILL/RELEASE POINT	Latitude: 40.131022	Longitude: -108.920253	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: NESW	Sec: 23	Twp: 2N	Range: 103W Meridian: 6 Sensitive Area? No

#### SITE CONDITIONS

General soil type - USCS Classifications ML

Most Sensitive Adjacent Land Use Federal BLM Land

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

Wildlife and Federal BLM land open for recreational use.

# SITE INVESTIGATION PLAN

## TYPE OF WASTE:

- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> E&P Waste | <input type="checkbox"/> Other E&P Waste             | <input type="checkbox"/> Non-E&P Waste |
| <input type="checkbox"/> Produced Water       | <input type="checkbox"/> Workover Fluids             |  |
| <input checked="" 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	92,600 sq/ft	Visual

## INITIAL ACTION SUMMARY

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

Valves were closed to isolate the leaking section of pipe and clamps were installed on the pipe to control the leak. The pipe was cut around the leak locations and a new pipe was welded in place. The pipeline was shut in, purged of free liquid, and will be plugged and abandoned. A catchment basin was constructed approximately 0.8 miles downgradient from the release site for the recovery of spilled product. All spilled product was stopped from migrating further downstream and contained by a previously constructed weir dam located approximately 1.8 miles from the spill. Vacuum trucks were mobilized on March 5, 2017 to recover fluids from the up gradient side of the berm and the dam. Water flushing of product was conducted to mobilize this material to catchment basins where the product and all water was removed via vacuum truck and recovered by Chevron Upstream. Impacted and/or stained soils are being removed via excavator / hand shoveling and transferred to the Chevron Upstream landfarm for remediation compliant to COGCC rules and standards.

## 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 ):

Refer to the "Remediation Baseline Sampling Report" dated August 1, 2017, "Third Quarter 2017 Remediation Phase Status Report" dated October 31, 2017, "Fourth Quarter 2017 Remediation Phase Status Report" dated December 29, 2017, "First Quarter 2018 Remediation Phase Status Report" dated April 16, 2018, "Second Quarter 2018 Remediation Phase Status Report, Rangely C-4 Incident, Chevron Pipe Line Company, Rangely, Colorado" dated June 29, 2018, and attached "Third Quarter 2018 Remediation Phase Status Report, Rangely C-4 Incident, Chevron Pipe Line Company, Rangely, Colorado" dated November 21, 2018.

### 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 ):

Refer to the "Remediation Baseline Sampling Report" dated August 1, 2017, "Third Quarter 2017 Remediation Phase Status Report" dated October 31, 2017, "Fourth Quarter 2017 Remediation Phase Status Report" dated December 29, 2017, "First Quarter 2018 Remediation Phase Status Report" dated April 16, 2018, "Second Quarter 2018 Remediation Phase Status Report, Rangely C-4 Incident, Chevron Pipe Line Company, Rangely, Colorado" dated June 29, 2018, and attached "Third Quarter 2018 Remediation Phase Status Report, Rangely C-4 Incident, Chevron Pipe Line Company, Rangely, Colorado" dated November 21, 2018.

# SITE INVESTIGATION REPORT

## SAMPLE SUMMARY

### Soil

Number of soil samples collected 49  
Number of soil samples exceeding 910-1 41  
Was the areal and vertical extent of soil contamination delineated? No  
Approximate areal extent (square feet) 92600

### NA / ND

-- Highest concentration of TPH (mg/kg) 3560  
NA Highest concentration of SAR  
BTEX > 910-1 No  
Vertical Extent > 910-1 (in feet) 1

### 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  
0 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?

Refer to the "Remediation Baseline Sampling Report" dated August 1, 2017, "Third Quarter 2017 Remediation Phase Status Report" dated October 31, 2017, "Fourth Quarter 2017 Remediation Phase Status Report" dated December 29, 2017, "First Quarter 2018 Remediation Phase Status Report" dated April 16, 2018, "Second Quarter 2018 Remediation Phase Status Report, Rangely C-4 Incident, Chevron Pipe Line Company, Rangely, Colorado" dated June 29, 2018, and attached "Third Quarter 2018 Remediation Phase Status Report, Rangely C-4 Incident, Chevron Pipe Line Company, Rangely, Colorado" dated November 21, 2018.

☐ 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?

Refer to the "Remediation Baseline Sampling Report" dated August 1, 2017, "Third Quarter 2017 Remediation Phase Status Report" dated October 31, 2017, "Fourth Quarter 2017 Remediation Phase Status Report" dated December 29, 2017, "First Quarter 2018 Remediation Phase Status Report" dated April 16, 2018, "Second Quarter 2018 Remediation Phase Status Report, Rangely C-4 Incident, Chevron Pipe Line Company, Rangely, Colorado" dated June 29, 2018, and attached "Third Quarter 2018 Remediation Phase Status Report, Rangely C-4 Incident, Chevron Pipe Line Company, Rangely, Colorado" dated November 21, 2018.

# 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.

Damaged section of pipeline was cut out and replaced on March 16, 2017 and was sent in for analysis. This pipeline section is permanently abandoned.

## 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.

Refer to the "Remediation Baseline Sampling Report" dated August 1, 2017, "Third Quarter 2017 Remediation Phase Status Report" dated October 31, 2017, "Fourth Quarter 2017 Remediation Phase Status Report" dated December 29, 2017, "First Quarter 2018 Remediation Phase Status Report" dated April 16, 2018, "Second Quarter 2018 Remediation Phase Status Report, Rangely C-4 Incident, Chevron Pipe Line Company, Rangely, Colorado" dated June 29, 2018, and attached "Third Quarter 2018 Remediation Phase Status Report, Rangely C-4 Incident, Chevron Pipe Line Company, Rangely, Colorado" dated November 21, 2018.

## Soil Remediation Summary

☒ In Situ

Yes \_\_\_\_\_ Bioremediation ( or enhanced bioremediation )

\_\_\_\_\_ Chemical oxidation

\_\_\_\_\_ Air sparge / Soil vapor extraction

Yes \_\_\_\_\_ Natural Attenuation

\_\_\_\_\_ Other \_\_\_\_\_

☒ Ex Situ

No \_\_\_\_\_ Excavate and offsite disposal

\_\_\_\_\_ If Yes: Estimated Volume (Cubic Yards) \_\_\_\_\_

\_\_\_\_\_ Name of Licensed Disposal Facility or COGCC Facility ID # \_\_\_\_\_

Yes \_\_\_\_\_ Excavate and onsite remediation

Yes \_\_\_\_\_ Land Treatment

No \_\_\_\_\_ Bioremediation (or enhanced bioremediation)

No \_\_\_\_\_ Chemical oxidation

No \_\_\_\_\_ 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.

NA.

## REMEDIATION PROGRESS UPDATE

### PERIODIC REPORTING

**Frequency:** ☐ Quarterly ☐ Semi-Annually ☐ Annually ☒ Other Please refer to attached "Third Quarter 2018 Remediation Phase Status Report, Rangely C-4 Incident"

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

☒ Other Please refer to attached "Third Quarter 2018 Remediation Phase Status Report, Rangely C-4 Incident"

### 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? No

Do all soils meet Table 910-1 standards? \_\_\_\_\_

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? \_\_\_\_\_

Does Groundwater meet Table 910-1 standards? \_\_\_\_\_

Is additional groundwater monitoring to be conducted? \_\_\_\_\_

## 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.

A site restoration plan was developed, and submitted to BLM in August 2017.

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. 03/05/2017

Actual Spill or Release date, if known. 03/05/2017

### SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 03/05/2017

Date of commencement of Site Investigation. 03/09/2017

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

### REMEDIAL ACTION DATES

Date of commencement of Remediation. 03/05/2017

Date of completion of Remediation. \_\_\_\_\_

### SITE RECLAMATION DATES

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

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

### OPERATOR COMMENT

Attention: Kris Neidel  
(970) 871-1963  
(970) 846-5097 (cell)  
(970) 879-5327 (fax)  
kris.neidel@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: \_\_\_\_\_

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: \_\_\_\_\_

Date: \_\_\_\_\_

Remediation Project Number: 10149

### COA Type

### Description

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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

401846845	REMEDIATION PROGRESS REPORT
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Total Attach: 1 Files

### General Comments

### User Group

### Comment

### Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)