

State of Colorado  
Oil and Gas Conservation Commission

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Document Number:  
403076037  
Receive Date:  
06/24/2022  
Report taken by:  
Kari Brown

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: DCP OPERATING COMPANY LP	Operator No: 4680	<b>Phone Numbers</b>
Address: 6900 E LAYTON AVE SUITE 900		Phone: (303) 605-1718
City: DENVER State: CO Zip: 80237		Mobile: (303) 619-3042
Contact Person: Steve Weathers	Email: swweathers@dcpmidstream.com	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 14694 Initial Form 27 Document #: 402247877

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: 2Q22 groundwater progress report.

SITE INFORMATION

No Multiple Facilities

Facility Type: SPILL OR RELEASE	Facility ID: 468979	API #: _____	County Name: WELD
Facility Name: CR20 and Hwy 85 Release	Latitude: 40.130910	Longitude: -104.806776	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: SWSW	Sec: 17	Twp: 2N	Range: 66W Meridian: 6 Sensitive Area? Yes

SITE CONDITIONS

General soil type - USCS Classifications SM Most Sensitive Adjacent Land Use Irrigation ditch and agricultural land  
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? Yes

**Other Potential Receptors within 1/4 mile**

Irrigation ditch, county road, crop land

# SITE INVESTIGATION PLAN

## TYPE OF WASTE:

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> E&P Waste       | <input checked="" type="checkbox"/> Other E&P Waste             | <input type="checkbox"/> Non-E&P Waste |
| <input type="checkbox"/> Produced Water  | <input type="checkbox"/> Workover Fluids                        | _____                                  |
| <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 checked="" type="checkbox"/> Other (as described by EPA) | TPH impacted soils<br>_____            |

## DESCRIPTION OF IMPACT

Impacted?	Impacted Media	Extent of Impact	How Determined
Yes	GROUNDWATER	18 ft bgs	Groundwater Sampling and Lab analysis
No	SOILS	12 ft bgs	Soil excavation and borings and lab analysis

## INITIAL ACTION SUMMARY

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

Initial actions and completed remedial measures have been previously submitted to the COGCC in the Form 19 Initial with Supplemental (Document # 402226829) and the Form 27 Initial (Document # 402247877), approved December 2, 2019 and COGCC issued Remediation Project #14694 for the Site. Additional Site investigation activities and ongoing quarterly groundwater monitoring information has been provided to COGCC via approved eform 27 supplemental documents. The results of the second quarter 2022 (2Q22) groundwater monitoring event and continued investigation and remediation alternatives are described herein.

## 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 ):

Previously completed soil investigation activities were discussed in approved eform 27 documents and the Initial Action Summary. A total of 9 monitoring wells have been installed at the Site and are illustrated on Figure 2. Based on the current field observations, future delineation and remedial activities may be needed. However, further soil sampling is not anticipated at this time. If warranted, and with approval of an access agreement with the landowner, a remedial investigation workplan will be provided to COGCC for approval.

### Proposed Groundwater Sampling

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

Previous groundwater monitoring activities were described in approved Form 27S reports, and a total of nine monitoring wells have been installed which are illustrated on Figure 2. However, BH10 has not been found since 2Q20 shortly after it was installed and is to have been presumed destroyed by the landowner based on field observations. Groundwater samples are being analyzed for BTEX; 1,2,4-trimethylbenzene (TMB); 1,3,5-TMB; and naphthalene using USEPA Method 8260B. Analytical results from the 2Q22 sampling event are presented herein. Groundwater monitoring will continue on a quarterly basis until analytical results demonstrate concentrations below COGCC standards for four consecutive quarterly monitoring events, at which time a no further action (NFA) determination for the Site will be requested from the COGCC.

### 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 ):

During the 2Q22 sampling on 5/5/2022, LNAPL was detected in three of the wells (BH02, BH03, and BH09) as presented on Table 1. However, the site wells were gauged again on 5/26/22 to measure recovery and collect a sample for analysis but detectable LNAPL was not present. DCP will continue to monitor these wells during the next gauging event and present the data to COGCC. During the initial approval of the most recent Form 27-S (#402973091), a COA was provided by COGCC requesting installation of cross-gradient monitoring wells. However, after discussing the site history with COGCC, it was determined that additional well installation was not required at this time, and the report approval was reissued with the COA removed.

# 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) 1000

### NA / ND

NA Highest concentration of TPH (mg/kg) \_\_\_\_\_  
NA Highest concentration of SAR \_\_\_\_\_  
BTEX > 915-1 No  
Vertical Extent > 915-1 (in feet) 18

### Groundwater

Number of groundwater samples collected 8  
Was extent of groundwater contaminated delineated? Yes  
Depth to groundwater (below ground surface, in feet) 13  
Number of groundwater monitoring wells installed 9  
Number of groundwater samples exceeding 915-1 4

ND Highest concentration of Benzene (µg/l) \_\_\_\_\_  
-- Highest concentration of Toluene (µg/l) 2.09  
-- Highest concentration of Ethylbenzene (µg/l) 687  
-- Highest concentration of Xylene (µg/l) 1570  
NA Highest concentration of Methane (mg/l) \_\_\_\_\_

### Surface Water

0 Number of surface water samples collected  
0 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?

During the initial 2013 investigation, three soil borings were advanced to approximately 3-ft bgs in the agricultural field north of the irrigation ditch and excavation area. Soil analytical results reported all TPH and BTEX concentrations below laboratory detection limits and below applicable COGCC standards. During a subsequent investigation in March 2020, two soil borings were advanced to 20 & 23-ft bgs in the agricultural field north of the irrigation ditch and excavation area, and one boring was advanced west of the irrigation ditch. Soil analytical results reported BTEX concentrations below laboratory detection limits and below applicable COGCC standards, however, TPH concentrations in soil at BH09 (16-17 feet bgs) and BH10 (18-19 feet bgs) were above applicable COGCC standards. During the 3Q20, two more soil borings were advanced in the vicinity of the former BH10 location with COGCC approval. The results of that soil investigation indicated impacts have attenuated in this area.

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?

DCP does not anticipate completing additional soil or groundwater delineation activities at this time and will continue quarterly groundwater monitoring activities at the eight existing monitoring well locations. Based on current observations, if warranted, DCP would evaluate an alternative remediation approach applicable to the Site and present a workplan to the COGCC for approval.

## 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.

As referenced in the previously submitted Form 19 Initial with Supplemental (Document # 402226829) and Form 27 Initial (Document # 402247877), initial source remediation efforts successfully removed approximately 400 CY of impacted soils. Additionally, mobile vacuum enhanced fluid recovery (EFR) groundwater remediation efforts were conducted from the third quarter 2015 through the fourth quarter 2016 in which approximately 307 barrels of impacted groundwater were removed from the site. Ongoing groundwater monitoring has been performed at the Site on a quarterly basis through the second quarter 2022.

## REMEDICATION 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.

As referenced in the approved Form 19 Initial with Supplemental (Document # 402226829) and Form 27 Initial (Document # 402247877), initial source remediation efforts removed approximately 400 CY of impacted soils. Additionally, mobile vacuum enhanced fluid recovery (EFR) groundwater remediation efforts were conducted from the third quarter 2015 through the fourth quarter 2016 in which approximately 307 barrels of impacted groundwater were removed from the site. Ongoing groundwater monitoring has been performed at the Site on a quarterly basis through the second quarter 2022 and will continue until a period of four consecutive quarterly monitoring events have demonstrated that groundwater impacts are below COGCC standards. At that time, an NFA determination for the Site will be requested from the COGCC. Based on observations of low-level concentrations above the COGCC standards at four locations, if warranted, DCP would evaluate an alternative remediation approach applicable to the Site with COGCC approval, which may include, but not limited to the potential use of additional EFR treatment methods in order to mitigate the impacted area beneath the surface.

**Soil Remediation Summary**

<input type="checkbox"/> <b>In Situ</b> _____ Bioremediation ( or enhanced bioremediation ) _____ Chemical oxidation _____ Air sparge / Soil vapor extraction _____ Natural Attenuation _____ Other _____	<input checked="" type="checkbox"/> <b>Ex Situ</b> Yes _____ Excavate and offsite disposal If Yes: Estimated Volume (Cubic Yards) _____ 400 Name of Licensed Disposal Facility or COGCC Facility ID # _____ _____ Excavate and onsite remediation _____ Land Treatment _____ Bioremediation (or enhanced bioremediation) _____ Chemical oxidation _____ Other _____
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**Groundwater Remediation Summary**

\_\_\_\_\_ Bioremediation ( or enhanced bioremediation )  
 \_\_\_\_\_ Chemical oxidation  
 \_\_\_\_\_ Air sparge / Soil vapor extraction  
 Yes \_\_\_\_\_ Natural Attenuation  
 Yes \_\_\_\_\_ Other From 3Q-2015 through 4Q-2016 vac enhanced fluid recovery remediation was performed. GW monitoring.

**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.

Site-wide groundwater sampling is conducted on a quarterly basis at the monitoring well locations illustrated on the attached Figure 2. The BH10 location was destroyed due to activities by the landowner shortly after it was installed and was not sampled. During the 2Q22 monitoring event, performed on 5/5/2022, groundwater levels and samples were collected from the eight remaining well locations using standard hand-bailing sampling methods, and were submitted to Origins Laboratory Inc. (Origins) for analysis using USEPA method 8260B (BTEX, 1,2,4-trimethylebenzene, 1,3,5-trimethylebenzene and naphthalene) per the approved Site Sampling and Analysis Plan. Additionally, all site wells were gauged again on 5/26/2022 to monitor the LNAPL that was detected on 5/5/2022. However, LNAPL was not detected at any site wells during the re-gauging event. Groundwater elevations and flow trends are presented in Table 1 and illustrated on Figure 3. Second quarter 2022 laboratory analytical data for sampled constituents are summarized on Table 2 and presented on Figure 4. The historical groundwater data is summarized in Table 3, and the 2Q22 laboratory reports are attached. BTEX concentrations were below the Table 915-1 COGCC standards at seven of the eight monitoring locations, with BH03 reported above standards for Total Xylenes. Four wells (BH02, BH03, BH07, and BH09) were above the standards for 1,2,4-TMB and 1,3,5-TMB and one well (BH03) was above standards for naphthalene during the 2Q22 sampling event. Ongoing quarterly monitoring and groundwater data analysis will be conducted to evaluate site trends over time and whether additional investigation may be warranted.

# 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 \_\_\_\_\_

## 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.

DCP has sufficient insurance to fully address the anticipated costs of Remediation, including the remaining estimated costs for this project. DCP currently has \$1,000,000 in general liability insurance. The cost provided below for remediation is a preliminary estimate only, costs may change upwards or downward based on site-specific information. DCP makes no representation or guarantees as to the accuracy of the preliminary estimate.

Operator anticipates the remaining cost for this project to be: \$ 25000 \_\_\_\_\_

## 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: \_\_\_\_\_

# 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? Yes \_\_\_\_\_

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

Does Groundwater meet Table 915-1 standards? No \_\_\_\_\_

Is additional groundwater monitoring to be conducted? Yes

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.

Following completion of the initial July 2013 soil excavation activities, site surfaces were regraded to match existing conditions. Ground surfaces at the Site currently match the surrounding areas and are fully vegetated with wild grasses like surfaces in adjacent areas. No further reclamation is proposed at this time. Final reclamation will be conducted following completion of groundwater monitoring requirements and eventual site closure.

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. 07/22/2013

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. 07/22/2013

Actual Spill or Release date, or date of discovery. 07/22/2013

### SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 07/22/2013

Proposed site investigation commencement. 07/22/2013

Proposed completion of site investigation. 09/01/2015

### REMEDIAL ACTION DATES

Proposed start date of Remediation. 07/22/2013

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**

DCP will continue to perform quarterly groundwater monitoring and submit updates and quarterly reports to COGCC via eform 27 documents. If warranted, further investigative or remedial activities will need to be discussed/approved with the landowner and COGCC.

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

Signed: Steve Weathers

Title: Environmental Specialist

Submit Date: 06/24/2022

Email: COGCCnotification@dcpmidstream.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: Kari Brown

Date: 11/01/2022

Remediation Project Number: 14694

**COA Type****Description**

	On the next quarterly Form 27 Supplemental Operator will provide a Proposed date of Remediation Completion based on soil and groundwater analytical data obtained from ongoing groundwater monitoring.
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**

403076037	FORM 27-SUPPLEMENTAL-SUBMITTED
403076039	ANALYTICAL RESULTS

Total Attach: 2 Files

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

		Stamp Upon Approval
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Total: 0 comment(s)