

State of Colorado Oil and Gas Conservation Commission

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Report taken by:

BOB CHESSON

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: DCP OPERATING COMPANY LP	Operator No: 4680	Phone Numbers
Address: 370 17TH STREET - SUITE 2500		Phone: (303) 6051718
City: DENVER State: CO Zip: 80202		Mobile: (303) 6193042
Contact Person: Steve Weathers	Email: swweathers@dcpmidstream.com	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 9353 Initial Form 27 Document #: 200437992

PURPOSE INFORMATION

- | | |
|--|--|
| <input type="checkbox"/> 901.e. Sensitive Area Determination | <input checked="" 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 type="checkbox"/> 909.c.(4), Rule 908.g.: Centralized E&P Waste Management Facility closure | <input checked="" type="checkbox"/> Other Excavation Summary progress report |

SITE INFORMATION

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

Facility Type: GAS COMPRESSOR STATION	Facility ID: 422082	API #: _____	County Name: WELD
Facility Name: TAMPA COMPRESSOR STATION	Latitude: 40.176300	Longitude: -104.489400	
	** correct Lat/Long if needed: Latitude: 40.176587	Longitude: -104.489836	
QtrQtr: SW	Sec: 31	Twp: 3N	Range: 63W Meridian: 6 Sensitive Area? No

SITE CONDITIONS

General soil type - USCS Classifications SM Most Sensitive Adjacent Land Use PASTURE

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

Livestock and domestic wells located 1/4 mile of release.

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) Petroleum hydrocarbon impacted groundwater

DESCRIPTION OF IMPACT

Impacted?	Impacted Media	Extent of Impact	How Determined
Yes	GROUNDWATER	See Approved 4Q20 F27S Report	Groundwater sampling
No	SOILS	See Figure 2 and Table 2 attached	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 previously been submitted to the COGCC in the Form 19 Initial (Document #400785370) dated February 3, 2015, Form 19 Supplemental (Document #40078873 and #400930163) dated February 10 and November 11, 2015. A Form 27 Site Investigation and Remediation Work Plan (Document #400927294) approved November 18, 2015 was issued to the COGCC and detailed completed excavation activities and the installation monitoring well locations to further delineate the extent of impacts to groundwater. The COGCC issued Spill tracking facility ID# 440770 and remediation project #9353 for the Site. Previous remediation efforts have included excavation of impacted soils, installation of 12 monitoring well locations, and vacuum enhanced fluid recovery (EFR) remediation activities. Ongoing groundwater monitoring is being performed at the Site on a quarterly basis and summarized in approved Form 27S workplans. Details of the 2020 demolition/soil sampling activities are provided within this Form 27 submittal.

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):

During and after demolition of facility infrastructure that occurred between August and December 2020, excavation of impacted soil was performed and grab soil samples were collected to verify that remaining soil was below the Table 910-1 standards. Confirmation soil samples collected from the base and sidewalls of excavation final extents were submitted for analysis of BTEX and TPH-GRO/DRO. The laboratory results are presented in Table 2, the locations are illustrated on Figure 2, and the laboratory reports are attached. In addition, some soil encountered below the former compressor buildings was black in color but was confirmed below COGCC standards. However, at the request of the landowner, most of that material was removed from the Site. Additionally, two soil samples, black soil and a background sample, were collected and analyzed for secondary parameters to confirm Table 910-1 constituents were reported below applicable standards and/or were within background concentrations.

Proposed Groundwater Sampling

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

Ongoing quarterly groundwater monitoring is being performed at the Site and fourth quarter 2020 groundwater activities were presented in the approved Form 27S (Document #402553712). In addition, one groundwater sample was collected from the base of the excavation beneath the former compressor buildings because groundwater infiltrated the excavation at approximately 12 feet below ground surface (bgs). Groundwater samples are analyzed for BTEX using USEPA Method 8260B and the results are presented in Table 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):

DCP completed demolition activities between 8/17/2020 and 9/30/2020 and based on soil sample analytical data collected from multiple excavations, soil above Table 910-1 standards has been removed. Remediation activities performed between 8/21/2020 and 9/30/2020 removed approximately 1,176 cubic yards (CY) of impacted material for off-site disposal. The soil samples collected were submitted for laboratory analysis of BTEX and TPH-GRO/DRO. In addition, and at the request of the landowner, DCP removed black colored soil that was confirmed below COGCC standards, to the extent practical. Approximately 733 CY of the black colored soil was removed for off-site disposal. One groundwater sample was collected and submitted to the laboratory for analysis of BTEX using USEPA Method 8260B. The groundwater sample result is presented in Table 1 and the report is included in Appendix A. Ongoing groundwater monitoring/remediation at the existing groundwater monitoring network is required.

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil

Number of soil samples collected 35
Number of soil samples exceeding 910-1 1
Was the areal and vertical extent of soil contamination delineated? Yes
Approximate areal extent (square feet) 700

NA / ND

-- Highest concentration of TPH (mg/kg) 1040
NA Highest concentration of SAR
BTEX > 910-1 Yes
Vertical Extent > 910-1 (in feet) 10

Groundwater

Number of groundwater samples collected 1
Was extent of groundwater contaminated delineated? Yes
Depth to groundwater (below ground surface, in feet) 12'
Number of groundwater monitoring wells installed 12
Number of groundwater samples exceeding 910-1 0

ND Highest concentration of Benzene (µg/l)
ND Highest concentration of Toluene (µg/l)
ND Highest concentration of Ethylbenzene (µg/l)
-- Highest concentration of Xylene (µg/l) 4.96
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.

As previously reported in a Form 27 Remediation Work Plan, initial source remediation efforts performed February 2, 2015 removed surface-stained soils via hydrovacuum excavation methods. Between May 6 and 22, 2015 an additional 210 CY of impacted soils and 33 bbls of groundwater were removed from the Site. In the northwest corner of the Site, in-situ remediation activities were performed to address impacts to soils within the vadose zone that were inaccessible due to facility infrastructure. Twelve monitoring wells have been installed to delineate petroleum hydrocarbon impacts to groundwater. Between April 28, 2015 and May 17, 2017, regular EFR remediation activities were performed removing approximately 1,188 bbls of additional impacted groundwater from the Site. During the building demolition and soil remediation activities performed between 8/21/2020 and 9/30/2020, approximately 1,176 CY of impacted material was removed for off-site disposal. In addition, and at the request of the landowner, DCP removed black colored soil that was confirmed below COGCC standards to the extent practical. Approximately 733 CY of the black colored soil was removed for off-site disposal.

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.

In addition to the source removal remediation activities described above, air sparge (AS) and soil vapor extraction (SVE) activities were performed at the Site August 29, 2017 and February 7, 2018. Active remedial efforts were discontinued to evaluate subsurface conditions without the influence of active remediation. Between August and December 2020, demolition and removal of the compressor station infrastructure was implemented and during these activities, additional subsurface impacts were removed from the Site and remaining soil was confirmed below COGCC Table 910-1 standards and/or within background concentrations for additional constituents via laboratory testing. Ongoing groundwater monitoring has been performed at the existing groundwater monitoring network on a quarterly basis through November 2020 and will continue until a period of four consecutive quarterly monitoring events have demonstrated that groundwater impacts are below COGCC Table 910-1 standards. Additionally, on September 25, 2020, a grab groundwater sample was collected from the excavation beneath the former compressor building and submitted for laboratory analysis of BTEX. The results for the excavation groundwater sample were below applicable COGCC Table 910-1 standards.

Soil Remediation Summary

☐ In Situ

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

☐ 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.

Ongoing quarterly groundwater monitoring is being performed at the Site and fourth quarter 2020 groundwater activities were presented in the approved Form 27S (Document #402553712). During the September 2020 excavation activities beneath the former compressor stations, groundwater was encountered at approximately 12' bgs. A grab groundwater sample was collected from the base of the excavation which was reported below the laboratory detection limits and COGCC Table 910-1 standards. The groundwater sample was submitted to Origins Laboratory Inc. (Origins) for BTEX analysis using USEPA method 8260B. The laboratory analytical data is summarized in Table 1 and the laboratory analytical report is attached.

REMEDIATION PROGRESS UPDATE

PERIODIC REPORTING

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

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

☒ Other Excavation and Soil Summary _____

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? Yes _____

Does the previous reply indicate consideration of background concentrations? Yes _____

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? No _____

Is additional groundwater monitoring to be conducted? Yes _____

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 the completion of compressor station decommissioning activities, the area will be backfilled, regraded, and reseeded per landowner approval. Access roads for remaining oil and gas infrastructure will be built per landowner approval.

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. 02/02/2015

Date of completion of Site Investigation. _____

REMEDIAL ACTION DATES

Date of commencement of Remediation. 02/06/2015

Date of completion of Remediation. _____

SITE RECLAMATION DATES

Date of commencement of Reclamation. _____

Date of completion of Reclamation. _____

OPERATOR COMMENT

DCP is currently working with the landowner for approval of completion of Site demolition and subsequent reclamation.

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: 01/27/2021

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: BOB CHESSON

Date: 02/03/2021

Remediation Project Number: 9353

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

402567349	FORM 27-SUPPLEMENTAL-SUBMITTED
402567531	MONITORING REPORT
402585021	OTHER

Total Attach: 3 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)