

State of Colorado
Oil and Gas Conservation Commission

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Report taken by:
John Heil

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: <u>BARGATH LLC</u>	Operator No: <u>10128</u>	Phone Numbers
Address: <u>2717 COUNTY ROAD 215 SUITE 200</u>		Phone: <u>(801) 2441219</u>
City: <u>PARACHUTE</u> State: <u>CO</u> Zip: <u>81635</u>		Mobile: <u>()</u>
Contact Person: <u>Aaron Galer</u>	Email: <u>aaron.galer@williams.com</u>	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 14388 Initial Form 27 Document #: 402014147

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: _____

SITE INFORMATION

No Multiple Facilities

Facility Type: <u>GAS COMPRESSOR STATION</u>	Facility ID: <u>424540</u>	API #: _____	County Name: <u>GARFIELD</u>
Facility Name: <u>WASATCH COMPRESSOR STATION</u>	Latitude: _____	Longitude: _____	
** correct Lat/Long if needed: Latitude: <u>39.477314</u>		Longitude: <u>-108.007805</u>	
QtrQtr: <u>SWSW</u>	Sec: <u>33</u>	Twp: <u>6S</u>	Range: <u>95W</u> Meridian: <u>6</u> Sensitive Area? <u>Yes</u>

SITE CONDITIONS

General soil type - USCS Classifications MH Most Sensitive Adjacent Land Use Agriculture
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? No

Other Potential Receptors within 1/4 mile

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 type="checkbox"/> Oil | <input type="checkbox"/> Tank Bottoms | |
| <input checked="" 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	50' x 50' x 20'; 20' x 25' x 15'	Field screening and laboratory 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.

Impacts were discovered during trenching for a pipeline replacement project. Discolored and odorous soils were encountered in a north/south trench leading from the compressor building and an east/west trench on the west side of the condensate tank secondary containment. Two soil samples were collected from each trench and analyzed for TPH-GRO, DRO, and VOCs. A tracer dye test was performed on the secondary containment to identify the leak locations.

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):

Fourteen boreholes were advanced both inside and outside the facility fence line. Two samples were collected from each borehole, one from the depth with the highest PID reading and one from the bottom of the borehole. All samples were submitted for GRO, DRO, and BTEX analysis. Contamination was identified from 4.5 feet below ground surface (bgs) to just above a clay layer at approximately 30 feet bgs.

Three additional soil borings were advanced to 32, 32, and 34 feet below ground surface in the vicinity of the previous borings to evaluate remaining impacts. All three locations had BTEX concentrations exceeding the COGCC Table 910-1 standards (see attached analytical report).

Additional sampling is required to complete delineation of the impacts identified at the site (see attached plan).

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):

Additional soil delineation is necessary. See the attached plan.

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil

Number of soil samples collected 75
Number of soil samples exceeding 915-1 30
Was the areal and vertical extent of soil contamination delineated? Yes
Approximate areal extent (square feet) 3500

NA / ND

-- Highest concentration of TPH (mg/kg) 7360
NA Highest concentration of SAR _____
BTEX > 915-1 Yes
Vertical Extent > 915-1 (in feet) 32

Groundwater

Number of groundwater samples collected 0
Was extent of groundwater contaminated delineated? No
Depth to groundwater (below ground surface, in feet) 0
Number of groundwater monitoring wells installed 0
Number of groundwater samples exceeding 915-1 0

____ 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 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?

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) 1 Volume of liquid waste (barrels) 1

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.

Approximately 210 cubic yards of impacted soil was excavated from the areas surrounding BH-04 and BH-10 to a depth of 14 feet below ground surface (bgs). Samples were collected from the bottom of the excavation and submitted for GRO and DRO analysis. Analytical results from bottom of the excavation confirmed GRO and DRO concentration were below standards. A complete Table 910-1 was requested on the sample. Excavation was completed on the southwest corner of the containment area. EX-15 was a hole dug between the two active pipelines to a depth of 8 feet bgs. A sample was collected and submitted for BTEX, GRO, and DRO analysis. The results exceeded the TPH and Benzene cleanup standard. An additional 6 feet was excavated and another sample was collected at 14 feet bgs and submitted for a full Table 910-1 analysis. The benzene result was 1 mg/kg exceeding the cleanup standard. Further excavation was not possible due to the depth and location near facility infrastructure. Clean fill was used to backfill the excavation. A new secondary containment was constructed around the condensate tanks in January 2013.

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 of impacted soil was completed by excavation to a depth of 14 feet bgs. 210 cubic yards of condensate contaminated soil was disposed of at the ECDC landfill in Carbon, UT. Due to the depth of the remaining impacts, in-situ remediation via natural attenuation has been the remedial approach.

As of 11/18/2012, remaining impacts were

- BH-04: 620 mg/kg TPH @ 17.5'-19.5' bgs
- BH-05: 1,600 mg/kg TPH and 0.44 mg/kg Benzene @ 25'-27' and 0.26 mg/kg Benzene @ 30'-32' bgs
- EX-15: 1.0 mg/kg Benzene @ 14' bgs

We will plan on advancing three soil borings near BH-04, BH-05, and EX-15 to evaluate remaining contaminant levels. If BTEX and TPH contamination remains above Table 910-1 values, SVE wells targeting the most impacted zones will be installed.

Soil Remediation Summary

In Situ

Ex Situ

_____ Bioremediation (or enhanced bioremediation)

Yes _____ Excavate and offsite disposal

_____ Chemical oxidation

_____ If Yes: Estimated Volume (Cubic Yards) _____ 210

_____ Air sparge / Soil vapor extraction

_____ Name of Licensed Disposal Facility or COGCC Facility ID # _____ 4041

Yes _____ Natural Attenuation

_____ Excavate and onsite remediation

_____ Other _____

_____ 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.

Is additional groundwater monitoring to be conducted? _____

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.

Clean fill was imported to backfill the excavations and the site was regraded to the original conditions.

Is the described reclamation complete? Yes

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? No

If YES, does the seed mix comply with local soil conservation district recommendations? _____

Did the local soil conservation district provide the seed mix? No

SITE RECLAMATION DATES

Proposed date of commencement of Reclamation. 12/21/2012

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. _____

Actual Spill or Release date, or date of discovery. _____

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 10/22/2012

Proposed site investigation commencement. 10/23/2012

Proposed completion of site investigation. 07/31/2020

REMEDIAL ACTION DATES

Proposed start date of Remediation. 12/17/2012

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

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

Signed: Aaron Galer

Title: Environmental Specialist

Submit Date: 12/06/2022

Email: aaron.galer@williams.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: John Heil

Date: 12/29/2022

Remediation Project Number: 14388

COA Type**Description**

	Remediate soils and groundwater to Table 915-1 concentration levels.
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**

403251850	FORM 27-SUPPLEMENTAL-SUBMITTED
403251902	MONITORING REPORT

Total Attach: 2 Files

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

		Stamp Upon Approval
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Total: 0 comment(s)