

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:
402399289
Receive Date:
06/25/2020

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.

Refer to Rules 340, 905, 906, 907, 908, 909, and 910

OPERATOR INFORMATION

| | | |
|---------------------------------------|--------------------------------------|------------------------|
| Name of Operator: XTO ENERGY INC | Operator No: 100264 | Phone Numbers |
| Address: 110 W 7TH STREET | | Phone: (970) 675-4089 |
| City: FORT WORTH State: TX Zip: 76102 | | Mobile: (970) 250-4867 |
| Contact Person: Natalie Steiner | Email: natalie_steiner@xtoenergy.com | |

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION
Remediation Project #: 14820 Initial Form 27 Document #: 402235840

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: LOCATION | Facility ID: 316678 | API #: _____ | County Name: RIO BLANCO |
| Facility Name: YELLOW CREEK-61S98W 2NWSE | Latitude: 39.991300 | Longitude: -108.355590 | |
| | ** correct Lat/Long if needed: Latitude: 39.990995 | Longitude: -108.355973 | |
| QtrQtr: NWSE | Sec: 2 | Twp: 1S | Range: 98W Meridian: 6 Sensitive Area? No |

SITE CONDITIONS

General soil type - USCS Classifications CL 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? Yes

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 | 216'X90' | Soil sampling |

INITIAL ACTION SUMMARY

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

An initial form 19 supplemental was submitted on 10/25/2019 (Document #402222077)
On 10/13/2019 ~6:30 AM lease operator discovered the manifold on a produced water tank had frozen and broke causing the Produced water to release. All tanks were locked out until all repairs to the manifold are complete. The impacted soil was removed through excavation activities. After excavation activities were completed, confirmation soil samples were collected from the excavation and submitted for laboratory analysis. (COGCC Table 910-1). See Table 1 and Site Map for sampled areas

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):

7 discrete samples have been taken - see Site Map with samples

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):

XTO Energy will remove all gravel from secondary containment and visually inspect liner for any holes or rips and make repairs if needed

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil

Number of soil samples collected 7

Number of soil samples exceeding 910-1 0

Was the areal and vertical extent of soil contamination delineated? No

Approximate areal extent (square feet) 0

NA / ND

-- Highest concentration of TPH (mg/kg) 30.3

-- Highest concentration of SAR 15

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) 0'

Number of groundwater monitoring wells installed 0

Number of groundwater samples exceeding 910-1 0

NA Highest concentration of Benzene (µg/l) _____

NA Highest concentration of Toluene (µg/l) _____

NA Highest concentration of Ethylbenzene (µg/l) _____

NA Highest concentration of Xylene (µg/l) _____

NA 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?

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?

REMEDIATION PROGRESS UPDATE

PERIODIC REPORTING

Frequency: Quarterly Semi-Annually Annually Other Supplemental Form 27 _____

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

Other _____

WASTE DISPOSAL INFORMATION

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

Describe beneficial use, if any, of E&P Waste derived from this remediation project:

Soil removed from the excavation will be mix/blended and processed to below Table 910-1 concentration levels or transported offsite to a permitted disposal/recycling facility.

Volume of E&P Waste (solid) in cubic yards _____ 0

E&P waste (solid) description _____

COGCC Disposal Facility ID #, if applicable: _____

Non-COGCC Disposal Facility: _____

Volume of E&P Waste (liquid) in barrels _____ 0

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? Yes _____

Do all soils meet Table 910-1 standards? No _____

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? Yes _____

Does Groundwater meet Table 910-1 standards? Yes _____

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.

Any disturbances associated with this project will be reclaimed as specified by CPW

Is the described reclamation complete? _____

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. 10/13/2019

Actual Spill or Release date, if known. 10/12/2019

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 10/14/2019

Date of commencement of Site Investigation. 10/14/2019

Date of completion of Site Investigation. _____

REMEDIAL ACTION DATES

Date of commencement of Remediation. 10/14/2019

Date of completion of Remediation. _____

SITE RECLAMATION DATES

Date of commencement of Reclamation. _____

Date of completion of Reclamation. _____

OPERATOR COMMENT

For review by John Heil:

XTO Energy is requesting closer of spill #468770 Remediation Project Number 14820. 6 discrete soil samples were collected at 4 feet bgs from under liner, inside the secondary containment. It was decided to remove all of the liner and tanks. Two additional samples were taken for 910-1 compliance in the area of tank removal. Attached is confirmation data and sample location maps of the YCF 2-35-1 release. Analytical results indicate that soils satisfy COGCC Table 910-1 thresholds with the exception to arsenic. In accordance with COGCC FAQ 31, arsenic concentrations within the release area appear to be naturally occurring and within range of background concentrations observed in the area, attached is background arsenic results from the YCF 3-45-1 (location is approximately 1.13 miles from YCF 2-35-1). Per COGCC FAQ 32 All SAR and EC exceedances will be addressed during the final reclamation processes of the production location and any soil will concentrations of SAR and/or EC will be buried beneath at least 3 feet of topsoil. This location is approximately 1.13 miles. New 40 Mil liner will be installed and ~167.5 tons of material has been hauled to Wray Gulch Land fill, Meeker Co.

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

Signed: `Natalie Steiner _____

Title: SSHE Technician

Submit Date: ` 06/25/2020

Email: natalie_steiner@xtoenergy.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: 06/29/2020

Remediation Project Number: 14820

COA Type

Description

| | |
|--|---|
| | After review of the data presented, elevated levels of [SAR/EC/pH] exist deeper than three feet below ground surface. Per guidance in FAQ 32, elevated levels of [SAR/EC/pH] at three feet below ground surface or deeper should not adversely affect the successful reclamation of the site. If groundwater is found to be impacted, or if reclamation is not compliant with the 1000-series rules, additional remediation activities may be required at the site. It appears that no further action is necessary at this time and COGCC approves the closure request. |
|--|---|

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

| | |
|-----------|--------------------------------|
| 402399289 | FORM 27-SUPPLEMENTAL-SUBMITTED |
| 402399296 | ANALYTICAL RESULTS |
| 402399300 | ANALYTICAL RESULTS |
| 402399305 | SOIL SAMPLE LOCATION MAP |
| 402399316 | SOIL SAMPLE LOCATION MAP |
| 402399318 | OTHER |
| 402399321 | OTHER |
| 402399322 | MAP |

Total Attach: 8 Files

General Comments

User Group

Comment

Comment Date

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

Total: 0 comment(s)