

General Environmental Incident Summary

Incident: 3825 **Notice:** 7/16/2015 0945 **Occurred:** 7/16/2015 0945

DEM Incident No:

No Further Action:

Responsible Party: ONEOK Rockies Midstream

County: McKenzie

Twp Rng Sec Qtr: 151 98 35

Lat Long + Method: 47.85267 -103.17850 Interpolation from map

Location Description: Garden Creek I Gas Plant
3007121 Avenue NW Watford City ND 58854

Submitted By Info: Kim Rudningen
ONEOK - Environmental Specialist
2700 Lincoln Ave SE
Sidney MT 59270

Received By Info:

Contact Info: Byron Skaley
2700 Lincoln Ave SE
Sidney MT 59270

Affected Medium: 03 - soil

Near. Occupied Bldg:

Type of Incident: Pipeline Leak

Release Contained: Yes

Reported to NRC: No

Contaminant: natural gas condensate

Volume of Release: 10 gallons

Duration of Release: 15 minutes

Agriculture Related: No

**EPA Extremely
Hazardous Substance:** No

Number of Fatalities:

Number of Injuries:

Cause of Incident:

A condensate leak was discovered underground on the pipe between the plant and pressurized condensate tanks. Upon excavation, only 10 gallons or less of condensate spilled into the hydrovac hole before the line was taken out of service. However, it was determined that ground around the pipe was saturated with natural gas condensate of an unknown volume.

Risk Evaluation:

There were no immediate risks to health. Upon discovery of highly saturated soil, work was stopped until a safe work plan could be made and the soil is allowed to air out.

Potential Env. Impacts:

Currently there is no impact to surface or ground water. The soil surrounding the leak is saturated with liquid condensate. The leak has been stopped and plans for further clean up action are being made.

Action Taken/Planned:

The condensate line was taken out of service and purged with nitrogen which stopped the leak immediately. A third party has been contacted to assist with investigation and future action as determined and required for any historical contamination that exists as a result of this leak.

Wastes Disposal Location:

Amount of impacted soil is not determined at this time. It will be segregated and removed to a certified landfill once removal commences.

Other Agencies Involved:

Updates

Date: 7/16/2015 **Status:** Reviewed - Follow-up Required

Author: Crowdus, Kory

Notes:

Release impacted areas off location. Follow-up is required.

Program Managers Note: Verbiage used at the time of this incident indicated that "Off Location" meant that the spill was not contained within a secondary or tertiary containment structure. A full delineation of the site has shown that the impacted area is fully within the boundaries of the Garden Creek Gas Plant. WCS- 8/26/2019

Updated Volume: None at the time of this update

Date: 7/21/2015 **Status:** Inspection

Author: Espe, Brady

Notes:

I arrived at the site at 9:15 a.m. The weather was sunny, 77°F, with the wind from the southeast 10-15 mph. I met with company personnel and we proceeded to walk over the area. The area is taped off, they have exposed the line. However; they have not been able to dig up more soil to fix the line. The cleanup crew is working on airing out area. When the work environment is safe the line will be repaired and the impacted soil will be evaluated for cleanup. Pictures and samples will be submitted to the department. More follow-up needed to check on clean-up progress.

Updated Volume: None at the time of this update

Date: 8/7/2015 **Status:** Correspondence

Author: Espe, Brady

Notes:

Received work plan for cleanup.

Updated Volume: None at the time of this update

Date: 6/19/2017 **Status:** Correspondence

Author: Striebel, Ivana

Notes:

6/19/2017 - Site will be inspected during quarterly inspections.

Updated Volume: None at the time of this update

Date: 8/23/2019 **Status:** Reviewed - Assigned to NDDEQ Division

Author: Suess, Bill

Notes:

This site was assigned to the Groundwater Protection Program on May 23, 2017 and site was visit by myself and Shawna N. That update was inadvertently missed.

Oneok has not estimated the volume released, however they have recovered approximately 5, 800 bbls of condensate from the site.

I met with Oneok personnel on site on 8/20/2019 and again on 8/21/2019 to review remediation procedures and update other State personnel.

No photos taken during any location visits due to company policy.

Updated Volume: None at the time of this update

Date: 8/23/2019 **Status:** Inspection

Author: Striebel, Ivana

Notes:

5/30/2019 - Onsite at 1:30 pm, 84° F, winds from the west 10-15 mph. Met with a representative of the contractor that is running remediation equipment. He stated that they are removing approximately 250 bbls/wk of contamination. There is a plan to upgrade this system this fall.

Responsible party is hoping to find a full time individual to run this remediation project/equipment.

Responsible party gave a tour of the wells and the ICE unit. Offsite at 1:39 pm. No photos taken.

Further action needed.

Updated Volume: None at the time of this update

Date: 8/29/2019 **Status:** Correspondence

Author: Nieraeth, Shawna

Notes:

7/26/2017 - WebEx Online Update Meeting with OneOK and AECOM concerning Garden Creek Status.

Updated Volume: None at the time of this update

Date: 8/29/2019 **Status:** Correspondence

Author: Nieraeth, Shawna

Notes:

9/29/2017 - WebEx Online Update Meeting with OneOK and AECOM concerning Garden Creek status.

Updated Volume: None at the time of this update

Date: 8/29/2019 **Status:** Correspondence

Author: Nieraeth, Shawna

Notes:

1/29/2018 - WebEx Online Meeting with OneOK and AECOM concerning updates and upcoming field season work on the Garden Creek Plant.

Updated Volume: None at the time of this update

Date: 8/29/2019 **Status:** Correspondence

Author: Nieraeth, Shawna

Notes:

10/1/2018 - Presentation of completed Site Assessment Report and work update by AECOM for GWPP and OneOK employees. Received Site Assessment Report of Garden Creek Plant from AECOM. Added to incident folder.

Updated Volume: None at the time of this update

Date: 8/29/2019 **Status:** Correspondence

Author: Nieraeth, Shawna

Notes:

7/24/2019 - WebEx Online Update Meeting with OneOk and AECOM concerning Garden Creek site.

Updated Volume: None at the time of this update

Date: 8/29/2019 **Status:** Correspondence

Author: Nieraeth, Shawna

Notes:

5/24/2017 - Received update Interim Summary 4 for Garden Creek Plant. Added to incident folder.

Updated Volume: None at the time of this update

Date: 8/29/2019 **Status:** Correspondence

Author: Nieraeth, Shawna

Notes:

9/29/2017 - Received Interim Summary 5 from AECOM for Garden Creek Plant. Added to incident folder.

Updated Volume: None at the time of this update

Date: 8/29/2019 **Status:** Correspondence

Author: Nieraeth, Shawna

Notes:

3/1/2018 - Received Interim Summary 6 from AECOM for Garden Creek Plant. Added to incident folder.

Updated Volume: None at the time of this update

Date: 9/3/2019 **Status:** Correspondence

Author: Anderson, Carl

Notes:

The total recovered fluid volume is 845,732 gallons (includes condensate plus groundwater).

Updated Volume: None at the time of this update

Date: 9/6/2019 **Status:** Correspondence - More Follow-up Required

Author: Anderson, Carl

Notes:

As of August 30, 2019, the amount of condensate recovered is estimated at 862,735 gallons, which includes 7,811 gallons recovered during pump testing and well development; 829,975 gallons recovered from the condensate liquid recovery system; and 24,949 gallons recovered during operation of the interim soil vapor extraction system. In addition, approximately 55,579 gallons of water have been recovered during liquid condensate recovery efforts.

Tasks that are planned for the remainder of 2019 include, but are not limited to: continuing the operation of the liquid condensate recovery system and conducting system performance assessments; continuing the operation of the interim soil vapor extraction system; beginning the construction, startup, and operation of a site-wide soil vapor extraction system, which includes the decommissioning of parts of the liquid condensate recovery system; conducting monthly fluid level measurements in monitoring wells; and collecting groundwater samples from monitoring wells.

Updated Volume: None at the time of this update

Date: 12/6/2019 **Status:** Correspondence - More Follow-up Required

Author: Nieraeth, Shawna

Notes:

Received Interim Summary 8 from AECOM. As of 10/7/2019, the liquid recovery system has recovered 20,371.3 bbl. As of 11/7/2019, the interim SVE system has recovered approximately 787 bbl. Summary has been added to the incident folder.

Updated Volume: None at the time of this update

Date: 2/6/2020 **Status:** Correspondence - No Action Required

Author: Nieraeth, Shawna

Notes:

Site has been transferred to Shannon Suggs.

Updated Volume: None at the time of this update

Date: 2/10/2020 **Status:** Correspondence - No Action Required

Author: Suggs, Shannon

Notes:

Interim Site Assessment Summary 8 submitted by ONEOK Rockies Midstream LLC for the Garden Creek Gas Plant update. Quarterly groundwater sampling was completed September 2019. Through October 2019 the Condensate (Liquid-Phase) Recovery System recovered and recycled approximately 855,600 gallons of LNAPL. The Interim Soil Vapor Extraction System through November 2019 recovered approximately 33,070 gallons of condensate. A site-wide SVE system is in the construction process and is planned to start-up Spring of 2020.

Updated Volume: None at the time of this update

Date: 9/9/2020 **Status:** Correspondence - No Action Required

Author: Suggs, Shannon

Notes:

Interim Site Assessment Summary 11 received. Approximately 913,936 gallons of condensate recovered to date. Approximately 93.6 percent liquid phase and 6.4 percent vapor phase. Operation of Interim SVE system ongoing. Impacts remain within Plant boundaries.

Updated Volume: None at the time of this update

Date: 9/10/2020 **Status:** Correspondence - No Action Required

Author: Suggs, Shannon

Notes:

Interim Site Assessment Summary 11, submitted by ONEOK Rockies Midstream, LLC regarding Garden Creek Gas Plant condensate release remediation. Subsurface impacts from the condensate release continue to remain entirely within Plant boundaries and do not extend off-site. Active remediation has reduced the area of impact. Operation of the Interim Soil Vapor Extraction (SVE) system is ongoing. As of report date a total of 913,936 gallons of condensate has been recovered (approximately 93.6% liquid, 6.4% vapor phase) No drinking-water wells or potential human health receptors have been impacted. Plans through 2020 include continuing operation of Interim SVE system until Site wide SVE system is fully operational. Quarterly groundwater sampling will continue.

Updated Volume: None at the time of this update

Date: 12/17/2020 **Status:** Correspondence - No Action Required

Author: Suggs, Shannon

Notes:

Interim Site Assessment Summary 12, submitted by ONEOK Rockies Midstream, LLC regarding Garden Creek Gas Plant condensate release. Subsurface impacts from the condensate release continue to remain within property boundaries. Operation of the Interim Soil Vapor Extraction(SVE) System is ongoing. Post start up commissioning and testing are ongoing for the Site-wide SVE system. Hope to bring the Site-wide SVE system online early in 2021. As of report, a total of 923,540 gallons of condensate have been recovered (92.6 percent as liquid and 7.4 percent as vapor). Quarterly groundwater sampling was completed in late September.

Updated Volume: None at the time of this update