



Town of Montague
Water Pollution Control Facility
34 Greenfield Road
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February 11, 2021

U.S. Environmental Protection Agency
Water Enforcement, OES4-SMR
5 Post Office Square, Suite 100
Boston MA 02109-3912

Re: Combined Sewer Overflow Annual Report 2020
Corresponding Corrective Action Report

As required by the Town's NPDES Permit, this letter contains the Combined Sewer Overflow (CSO) Annual Report, along with a Corrective Action Report based on findings:

The Town maintains two CSO's located at:

| | <u>Latitude</u> | <u>Longitude</u> |
|-----|-----------------|------------------|
| #01 | 42° 34' 45" N | 72° 34' 24" W |
| #02 | 42° 36' 16" N | 72° 33' 38" W |

1. 01 - Greenfield Road, discharge is immediately adjacent to the treatment facility located at 34 Greenfield Road. This receives flow from the regulator on Greenfield Rd.
2. 02 - I St., discharge is immediately adjacent to a small building owned by the power company. This receives flow from the regulator at the intersection of 7th & L St. and from the regulator on Avenue A, located by the southerly entrance to the Food City shopping area.

Although the facility performed some inspections of the CSOs during 2020, the facility can not attest that the inspections were performed on a monthly frequency, that the results were recorded, or that records were maintained.

Corrective Action Report:

As of December 2020, all CSO inspections and maintenance logs are found in the bound log book entitled, "CSO, Avenue-A Buffer Line, & Millers Falls Flume Log." Staff inspections are now performed monthly, usually during pump station rounds. Inspections and relative maintenance may also occur before/during/after rain events and is logged in the book.

Note: In previous years, data of CSO events/overflows was provided in this CSO report; however, will now be supplied in the newly required Bypass of Secondary Treatment Annual Report.

If you have any questions, please feel free to contact me.

Respectfully,

Chelsey Little, BSBS MPH



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February 12, 2021

U.S. Environmental Protection Agency
Water Enforcement, OES4-SMR
5 Post Office Square, Suite 100
Boston MA 02109-3912

Re: Bypass of Secondary Treatment Annual Report 2020
Corresponding Corrective Action Report

As required by the EPA issued AO in 2020, this letter contains the Bypass of Secondary Treatment Annual Report, along with a Corrective Action Report based on findings.

The total volume of secondary treatment bypass for calendar year 2020 was approximately **880,545 gallons**, which includes flow from both the Wet Weather Chlorine Contact Tank and Combined Sewer Overflows.

Wet Weather Chlorine Contact Tank (WWCCT)

The facility currently utilizes a WWCCT as a source of secondary treatment bypasses. Although the facility limited its use of the WWCCT during calendar year 2020, it plans on making more efficient use of the system in order to protect the secondary system during wet weather/high flow events in the future. For a summary of events, please review the supplied data in Appendix 1.

Combined Sewer Overflow (CSO)

Continuous monitoring on the CSOs is performed by ADS Environmental Services and was installed in September 2009. Monitoring consists of pressure sensors and floats, which send data via radio telemetry with a summary of data presented in a monthly report. ADS inspections of the CSOs are performed every 4 months. For a summary of events, please review the supplied data in Appendix 2.

Corrective Action Report:

Monthly reports from ADS were suspended by the facility in June 2020, resulting in a backlog of monthly data that is used for the annual report. In January 2021, the facility contacted ADS requesting the monthly reports for July-Dec 2020, which were supplied to the facility on February 8, 2020. The facility has re-instated all future monthly reports supplied by ADS, as to have the data readily accessible.

If you have any further questions, please do not hesitate to contact me.

Best,


Chelsey Little, BSBS MPH

Appendix 1: WWCCT Flow Summary

| Date | Rain (in) | Total Eff MGD | WWCCT Q (gal) | Eff MGD | Eff Max MGD | Inf MGD | WW CCT CL2 Lbs | WWC CT mg/L | WWC CT Start | WWC CT End | Total Time (min) | Peak Inf MGD | E Coli MPN/100ml |
|--------------|-----------|---------------|----------------|---------|-------------|---------|----------------|------------------|--------------|------------|------------------|--------------|------------------|
| 1/25/20 | 0.71 | 1.14 | 146300 | 0.99 | 2.76 | 1.17 | 13 | 3.59 / 1.02 | 19:10 | 22:36 | 3:26 | 3.17 | >2419.6 |
| 2/7/20 | 0.41 | 1.07 | 64300 | 1.01 | 2.25 | 1.11 | 8 | 0 | 12:00 | 13:56 | 1:56 | 2.55 | >2419.6 |
| 2/27/20 | 0.34 | 1.14 | 134300 | 1.01 | 2.62 | 1.18 | 10 | .07 / 1.13 / .56 | 4:49 | 9:40 | 4:51 | 2.95 | >200.5 |
| 4/9/20 | 0.7 | 1.06 | 43300 | 1.01 | 2.46 | 1.09 | 14 | .5 / .11 | 13:55 | 16:55 | 3:00 | 3.12 | >2419.6 |
| 4/13/20 | 0.96 | 1.41 | 0 | 1.41 | 2.42 | 1.32 | 20 | 1.29 / 2.12 | 10:39 | 20:59 | 10:20 | 2.81 | >2419.6 |
| 4/30/20 | 1.18 | 1.30 | 115300 | 1.18 | 3.07 | 1.33 | 12 | 0.1 | 1:48 | 5:36 | 3:48 | 2.56 | >2419.6* assumed |
| 5/1/20 | 0.4 | 1.41 | 3300 | 1.41 | 3.2 | 1.44 | 10 | Not enough time | 18:28 | 18:36 | 0:08 | 4.1 | Not enough time |
| Total | | | 506,800 | | | | | | | | | | |

Appendix 2: CSO Overflow Summary

| Date/Time start | Date/Time stop | Duration (hours) | Location | Volume (gallons) | Rain (in) |
|---------------------------|----------------|------------------|----------------------|------------------|--------------|
| 5/1/20 17:20 | 5/1/20 17:25 | 0:05 | 7th&L | 8 | 1.15 |
| 5/15/20 19:55 | 5/15/20 20:00 | 0:05 | 7th&L | 236 | 0.51 |
| 6/28/20 14:20 | 6/28/20 15:00 | 0:40 | 7th&L | 6,086 | 1.61 |
| 7/17/20 4:25 | 7/17/20 4:45 | 0:20 | 7th&L | 28,642 | 0.62 |
| 11/30/20 20:35 | 11/30/20 20:55 | 0:20 | 7th&L | 23,576 | 3.01 |
| Totals | | 1:50 | 7th&L | 58,548 | 6.90 |
| 7/17/20 4:40 | 7/17/20 4:55 | 0:15 | Ave A | 43,492 | 0.62 |
| 11/30/20 19:40 | 11/30/20 19:55 | 0:15 | Ave A | 5,358 | 3.01 |
| Totals | | 0:30 | Ave A | 48,850 | 3.64 |
| 1/25/20 20:50 | 1/25/20 21:35 | 0:45 | Greenfield Rd | 7,530 | 0.66 |
| 3/29/20 20:55 | 3/29/20 21:10 | 0:15 | Greenfield Rd | 370 | 0.92 |
| 4/9/20 15:25 | 4/9/20 16:00 | 0:35 | Greenfield Rd | 3,635 | 0.67 |
| 5/1/20 17:55 | 5/1/20 19:30 | 1:35 | Greenfield Rd | 17,016 | 1.15 |
| 5/15/20 20:35 | 5/15/20 21:15 | 0:51 | Greenfield Rd | 9,074 | 0.51 |
| 6/28/20 14:55 | 6/28/20 16:25 | 1:30 | Greenfield Rd | 29,878 | 1.61 |
| 7/17/20 5:10 | 7/17/20 6:10 | 1:00 | Greenfield Rd | 15,515 | 0.62 |
| 8/27/20 14:00 | 8/27/20 14:50 | 0:50 | Greenfield Rd | 10,697 | 0.59 |
| 9/30/20 6:55 | 9/30/20 7:25 | 0:30 | Greenfield Rd | 3,178 | 1.34 |
| 11/30/20 17:00 | 11/30/20 23:10 | 6:10 | Greenfield Rd | 90,132 | 3.01 |
| Totals | | 14:03 | Greenfield Rd | 187,025 | 7.73 |
| Total for all CSOs | | 16:38 | | 373,745 | 18.62 |