

WPCA COMMUNICATIONS AND REPORTS

December 5, 2023

The following is a monthly report from the Superintendent of Pollution Control as an appendix to the Water Pollution Control Authority meeting.

General Information

Pleasant Valley Road Pipe Repair

Prior to the Pleasant Valley bridge reconstruction our team inspected the sewer lines in the construction zone. There was one section of 8” truss pipe that was found to have significant damage and was in need of repair. Due to the complexity of the repair location and ongoing construction of the bridge the flow was diverted to a nearby 10” influent line of the Pleasant Valley Pump Station while a final solution to repair the pipe is devised.

Treatment Plant and Collection Systems

Treatment Plant

Process

TREATMENT PLANT	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	AVERAGE
AVG FLOW (MGD)	2.35	2.58	3.25	2.91	3.29	3.02	3.04	3.17	3.16	2.63	2.87	3.36	2.97
BOD REMOVAL	98%	98%	99%	99%	99%	99%	98%	99%	99%	99%	98%	98%	98.6%
TSS REMOVAL	99%	99%	99%	99%	99%	99%	98%	99%	99%	99%	98%	98%	98.9%
NITROGEN LBS. (106 LBS. LIMIT)	93	92	98	89	91	96	111	90	104	92	111	106	98
NITROGEN mg/L	4.6	4.2	3.8	3.5	3.3	3.7	5.2	4.4	5.0	4.1	3.8	3.9	4.1

Maintenance

- Cleaned, winterized and shut down UV system for the season.
- Completed restoration of cake bay. The work was done in house, saving us around \$10,000.
- Repaired rotting secondary clarifier scum collector arms.
- Completed semiannual anoxic tank mixer maintenance.
- Worked with Neuros to swap core out of Blower 1 to send out for diagnostics.
- Cleaned, inspected and made minor repairs in Aeration Basin 1.
- Pumped out and cleaned Aeration Basin 1 channel to begin weir gate replacement work.
- Pumped out and inspected Secondary Clarifier 4.
- Completed semiannual sluice gate exercising and greasing.
- Replaced broken power disconnect on odor control fan 2.
- Installed new gutters on grit blower building.

Collection System

COLLECTION SYSTEM	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-22	Jul-22	Aug-22	Sep-23	Oct-23	TOTAL FT
CCTV (FEET)	0	2,655	8,414	14,525	8,722	15,978	4,027	13,831	5,129	9,427	4,912	888	88,508
CLEANING (FEET)	4,748	1,800	5,339	13,903	5,500	7,400	3,200	2,850	7,047	3,149	1,739	1,800	58,475

- Continued line cleaning and CCTV work.
- Completed quarterly pump station bypass valve exercising.
- Completed fall cleanup work at pump stations.
- Installed new surge protection device at Quarry Brook Pump Station.

Call Outs

CALL OUTS	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	TOTAL
TREATMENT PLANT	5	4	2	1	1	2	3	3	3	0	1	2	27
PUMP STATIONS	2	4	2	3	0	1	2	1	1	2	1	0	19
SEWER BLOCKAGES	0	0	1	0	0	0	0	1	0	0	1	0	3
CALL BEFORE YOU DIG	2	1	1	1	0	0	0	1	1	0	0	0	7
ODOR COMPLAINT	1	0	1	2	2	6	4	8	0	0	0	0	24

Capital Improvement Project Updates

Clark Street, Benedict Drive, Pleasant Valley Pump Station Upgrades

- Final design review is being completed by Arcadis.
- Town should have draft plan set first week of December.
- Army Corps permit for Pleasant Valley Pump Station was submitted on November 21st.

Next Steps:

- *Submit design to DEEP for review and approval (min. 90-day review).*
- *WPCA and Town Council Resolution to enter into CWF agreement*
- *Bid project.*

Aeration Weir Gate Improvements

The WPCA approved transferring \$750,000 from FY21/22 CIP (Phase IV Part 1 Sewer System Improvements) to complete critical improvements to the aeration basin weir gates. An additional \$50,000 was approved with the FY22/23 CIP budget increasing the total project budget to \$800,000. Project was awarded to C.H. Nickerson for \$552,345.

- The west tank gates have been installed and are online.
- The concrete for the east tank spillway channel has been poured.
- Gates are installed on the east tank. Final adjustments are being made and concrete cap needs to be poured before the project is complete.

Next Steps:

- *Pour concrete cap in spillway.*

Odor Control Improvements

The WPCA approved \$245,000 with the FY2024 CIP budget. An additional \$1,300,000 was allocated to the project from the State Bond Commission in July 2023.

- Executing agreement with DEEP.

Next Steps:

- *Execute agreement with DEEP to receive funding.*
- *Submit resolution accepting funds and scope of work to DEEP.*
- *Execute agreement with Consultant.*
- *Begin design.*

Sanitary Sewer Evaluation Survey

The WPCA appropriated \$800,000 to perform a study of the Clark Street Sewer Sheds. The study includes flow metering, I/I identification, smoke testing and CCTV pipe evaluation. This project is being submitted for CWF grant funding.

- The scope and fees of the project have been submitted to DEEP for review and approval.

Next Steps:

- *Submit draft agreement to DEEP for review and approval.*
- *Complete CWF application process.*
- *Design Project.*

American Rescue Plan Act (ARPA) Funded Projects

Phase IV Sewer System Improvements

This project has been approved utilizing American Rescue Plan Act funds. The budget for this project is \$1,100,000.

- Project completed.

Next Steps:

- *Release project retainage (\$47,933) in November 2023.*

UV Disinfection Upgrade

This project has been approved utilizing American Rescue Plan Act funds. The original budget for this project was \$1,300,000. In February 2022 the Authority approved transferring \$120,000 from this project to the Clark Street Bypass Valve project.

- Nothing new to report.

Next Steps:

- *Bid project.*
- *Select contractor.*
- *Submit proposed equipment to Eversource as part of the grant application.*

Clark Street Bypass Valve

This project has been approved utilizing American Rescue Plan Act funds. The original budget for this project was \$100,000. In February 2022, the Authority approved transferring \$120,000 from the UV Disinfection Upgrade project to the Clark Street Bypass Valve project.

- Project completed.

Next Steps:

- *Release project retainage (\$12,515.50) in December 2023.*

Collection of Sewer User Fees and Delinquent Accounts

Report to be distributed.

Respectfully submitted by: Tony Manfre, Superintendent of Pollution Control

Collector of Revenue Report to WPCA
December 4, 2023

Below are the collection rates as of November 30, 2023, compared to November 20, 2022.

Collection Rate	2022 Grand List	2023 Grand List	2024 Grand List
Commercial	99.38%	86.04%	n/a
Residential	n/a	92.04%	92.33%

Commercial Sewer

- Four alias tax warrants were renewed, see attached.
- Collector of Revenue continues to work with the Town Attorney to recover the delinquency associated with 50 Talbot Road which is the bulk of the delinquency.

Residential Sewer

- 696 liens were filed with the Town Clerk on Friday, December 1 compared to 700 liens filed last year.
- This month lien holders will be advised the accounts are delinquent and have had a lien placed.
- Alias Tax Warrants will be issued on or before January 15, 2024. An update will be provided upon issuance, due to significant staffing changes the Collector of Revenue's office may be unable to issue this month which has been the preferred practice.