

WPCA COMMUNICATIONS AND REPORTS

April 2, 2024

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

Treatment Plant and Collection Systems

Treatment Plant

Process

TREATMENT PLANT	Permit Limit	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	AVERAGE
AVG FLOW (MGD)	3.75 MGD/Day	3.29	3.02	3.04	3.17	3.16	2.63	2.87	3.36	3.01	3.34	3.99	3.28	3.17
BOD REMOVAL	85%	99%	99%	98%	99%	99%	99%	98%	98%	96%	96%	97%	97%	97.9%
TSS REMOVAL	85%	99%	99%	98%	99%	99%	99%	98%	98%	97%	97%	98%	98%	98.4%
NITROGEN	106 Lbs/Day	91	96	111	90	104	92	111	106	124	130	126	123	107
NITROGEN mg/L	-	3.3	3.7	5.2	4.4	5.0	4.1	3.8	3.9	5.5	4.6	3.6	4.6	4.3

Maintenance

- Completed annual Lockout/Tagout and Confined Space Entry Training for all operators.
- Diagnosed faulty wiring from knife switch to drive on Secondary Clarifier 4 and assisted electricians with repair.
- Replaced leaking fittings in Sludge Storage Gallery potable water system.
- Began work with Streets Department to replace biofilter media.
- Replaced broken valves and fittings in sodium hypochlorite room.
- Completed routine maintenance on all three aeration turbo blowers.
- Worked with Weston & Sampson on testing and data collection for turbo blowers and current UV system.

Collection System

COLLECTION SYSTEM	Mar-23	Apr-23	May-23	Jun-22	Jul-22	Aug-22	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	TOTAL FT
CCTV (FEET)	8,722	15,978	4,027	13,831	5,129	9,427	4,912	888	7,491	8,048	2,931	1,977	83,361
CLEANING (FEET)	5,500	7,400	3,200	2,850	7,047	3,149	1,739	1,800	3,111	4,205	4,958	2,261	47,220

- Adjusted wear rings on all three pumps at Clark St Pump Station.
- Degreased and removed grit from Benedict Drive and Rye St Pump stations.
- Completed routine maintenance on CCTV Van camera system.
- Continued sewer line cleaning and CCTV inspection work.
- Worked with contractors installing new backup float system at Benedict Drive Pump Station.
- Began Sanitary Sewer Evaluation Study with Wright-Pierce.

Call Outs

CALL OUTS	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	TOTAL
TREATMENT PLANT	1	2	3	3	3	0	1	2	1	0	2	2	20
PUMP STATIONS	0	1	2	1	1	2	1	0	0	4	2	2	16
SEWER BLOCKAGES	0	0	0	1	0	0	1	0	0	0	1	0	3
CALL BEFORE YOU DIG	0	0	0	1	1	0	0	0	0	0	2	0	4
ODOR COMPLAINT	2	6	4	8	0	0	0	0	0	0	0	0	20

Capital Improvement Project Updates

Clark Street, Benedict Drive, Pleasant Valley Pump Station Upgrades

- Nothing new to report.

Next Steps:

- *WPCA and Town Council Resolution to enter into CWF agreement*
- *Bid project.*
- *DEEP review of bid responses and selected contractor.*

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.

- *Release final retainage November 2024.*

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.

- Executed design agreement with Weston & Sampson

Next Steps:

- *Execute agreement with DEEP to receive funding.*
- *Open design consultant search.*
- *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.

- 11 flow meters have been installed at strategic points in the Clark Street sewer shed.
- Clean Water Fund application completed and being submitted to DEEP.

Next Steps:

- *Submit CWF application to DEEP.*
- *Analyze data to prepare for next phase.*

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.

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

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.

- *Executing agreement with Associated Construction Company.*

Next Steps:

- *Submit proposed equipment to Eversource as part of the grant application.*
- *Begin construction.*

Collection of Sewer User Fees and Delinquent Accounts

Report provided at meeting.

Respectfully submitted by: Tony Manfre, Superintendent of Pollution Control