

WPCA COMMUNICATIONS AND REPORTS

October 3, 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

Sludge Storage Odor Control Improvements



The three Pure Air carbon odor scrubbers have been installed and placed into service on the sludge storage tanks. We have seen good, consistent results with these units in their first weeks of service. This is a similar system to the one installed on the gravity thickeners.

Residential Sewer Billing

The residential sewer user bills have been sent out and are due by the end of October. The billing list includes 8,717 accounts totaling \$4,009,820. This year 201 account holders qualified for the income eligible discount program costing a total of \$22,877.33. The net residential revenue due to the WPCA is \$3,986,942.67.

Accounts: 8,717
 Gross Total: \$4,009,820.00
 Discounted: \$ (22,877.33)
 Net Total: \$3,986,942.67

Treatment Plant and Collection Systems

Treatment Plant

Process

TREATMENT PLANT	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	AVERAGE
AVG FLOW (MGD)	2.20	2.23	2.35	2.58	3.25	2.91	3.29	3.02	3.04	3.17	3.16	2.63	2.82
BOD REMOVAL	99%	98%	98%	98%	99%	99%	99%	99%	98%	99%	99%	99%	98.6%
TSS REMOVAL	99%	98%	99%	99%	99%	99%	99%	99%	98%	99%	99%	99%	98.9%
NITROGEN LBS. (106 LBS. LIMIT)	94	89	93	92	98	89	91	96	111	90	104	92	95
NITROGEN mg/L	4.9	4.6	4.6	4.2	3.8	3.5	3.3	3.7	5.2	4.4	5.0	4.1	4.3

Maintenance

- Cleaned and inspected Secondary Clarifier 2.
- Constructed storage for various size suction and discharge hoses.
- Installed new belt on gravity belt thickener.

- Installed rebuilt pump in filtrate pump station.
- Replaced faulty bulbs and ballasts on UV system.
- Completed annual electrical training with Fuss & O'Neill Engineering.
- Worked with Neuros to swap in rebuilt core into Aeration Blower 2.
- Repaired WAS pump 2 discharge and inlet valves.
- Replaced squeegees on scum collector arms for Secondary Clarifiers 3 and 4.

Collection System

COLLECTION SYSTEM	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-22	Jul-22	Aug-22	TOTAL FT
CCTV (FEET)	2,282	1,642	0	2,655	8,414	14,525	8,722	15,978	4,027	13,831	5,129	9,427	86,632
CLEANING (FEET)	4,883	5,546	4,748	1,800	5,339	13,903	5,500	7,400	3,200	2,850	7,047	3,149	65,365

- Line cleaning and CCTV work on Pleasant Valley Road.
- Began working on Clark Street bypass connection work to add check valve to the configuration.
- Cleaned pump 2 and pump 3 check valves at Clark Street pump station.
- Inspected Benedict Drive grinder and inspected and cleaned air vents on the force main.
- Worked with Wright Pierce on scope of services for the Clark Street Sewer Evaluation.

Call Outs

CALL OUTS	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Column1	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	TOTAL
TREATMENT PLANT	1	3	5	4	2	1	1	2	3	3	3	0	28
PUMP STATIONS	2	1	2	4	2	3	0	1	2	1	1	2	21
SEWER BLOCKAGES	0	0	0	0	1	0	0	0	0	1	0	0	2
CALL BEFORE YOU DIG	0	0	2	1	1	1	0	0	0	1	1	0	7
ODOR COMPLAINT	3	2	1	0	1	2	2	6	4	8	0	0	29

Capital Improvement Project Updates

Clark Street, Benedict Drive, Pleasant Valley Pump Station Upgrades

- Permit applications have been filed with Planning and Zoning and Wetland Commissions.

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.

- Materials have been delivered to contractor.
- Work is being scheduled.

Next Steps:

- *Construction will be scheduled once equipment is delivered.*

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.

- Office of Policy & Management needs to change the awarded entity from the Town of South Windsor to the WPCA.
- OPM is meeting in October and the request is on the agenda for approval.
- DEEP will draft a contract but it can not be executed until the awarded entity is revised.
- Three consultants responded to improvement RFP.
 - Weston & Sampson was selected based on their proposal and approach to the project.

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 Quality Based Selection Process was completed.
- Wright Pierce was selected as the most qualified consultant.
- The scope and fees of the project are currently being negotiated.

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.

- Preparing to bid the project.

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