

## WPCA COMMUNICATIONS AND REPORTS

May 7, 2024

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

### General Information

#### Commercial Billing

The commercial/industrial sewer user billing list has been completed for the fiscal year 2023/2024 billing cycle. This year there are 369 commercial/industrial accounts that discharged a total flow of 256,032,235 gallons of wastewater. The total revenue generated from these accounts totals \$1,638,518.

#### Town Council Bond Resolution

At the April 15, 2024 Regular Meeting of the Town Council resolved to de-authorize the remaining appropriation and bond authorization for the Water Pollution Control Facility upgrade.

#### Steve Wagner Resignation

On April 11, 2024 Steve Wagner issued his resignation from the Water Pollution Control Authority after six years of service including two years as Chairperson. Mr. Wagner is currently serving as the Chair of the Planning and Zoning Commission. I want to thank Mr. Wagner for his service to the WPCA and wish him the best of luck with his future endeavors.

#### Clark Street Force Main



During an evaluation of the Clark Street Force Main, it was discovered on an exposed section of pipe that the outer most concrete section was deteriorating due to ground water infiltrating through a hairline crack. The pipe is constructed with an inner and outer section of concrete with a banded steel section in between. The structural integrity of the pipe was not compromised and was repaired with new concrete to prevent future deterioration.

# Treatment Plant and Collection Systems

## Treatment Plant

### Process

TREATMENT PLANT	Permit Limit	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	AVERAGE
AVG FLOW (MGD)	3.75 MGD/Day	3.02	3.04	3.17	3.16	2.63	2.87	3.36	3.01	3.34	3.99	3.28	4.25	3.17
BOD REMOVAL	85%	99%	98%	99%	99%	99%	98%	98%	96%	96%	97%	97%	97%	97.8%
TSS REMOVAL	85%	99%	98%	99%	99%	99%	98%	98%	97%	97%	98%	98%	98%	98.3%
NITROGEN	106 Lbs/Day	96	111	90	104	92	111	106	124	130	126	123	142	110
NITROGEN mg/L	-	3.7	5.2	4.4	5.0	4.1	3.8	3.9	5.5	4.6	3.6	4.6	4.0	4.4

### Maintenance

- Removed grit from influent and bypass channels, and made adjustments to bar screen chain.
- Worked with Venture Communications during automated gate installation.
- Completed semiannual Anoxic Mixer maintenance.
- Completed semiannual Filtrate Pump Station maintenance.
- Began work preparing the UV system for the disinfection season. This included changing an entire bank of bulbs, replacing sleeves and wipers, and replacing ballasts.
- Completed annual cleaning of all Treatment Plant Motor Control Centers and Aeration Blower Room.

## Collection System

COLLECTION SYSTEM	Apr-23	May-23	Jun-22	Jul-22	Aug-22	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	TOTAL FT
CCTV (FEET)	15,978	4,027	13,831	5,129	9,427	4,912	888	7,491	8,048	2,931	1,977	12,138	86,777
CLEANING (FEET)	7,400	3,200	2,850	7,047	3,149	1,739	1,800	3,111	4,205	4,958	2,261	12,997	54,717

- Worked with Green Mountain Pipe Lining to coordinate and oversee CIPP sewer lining and manhole rehabilitation project.
- Degreased Benedict Drive Pump Station.
- Worked with Wright Pierce to coordinate flow meter installation work for SSES.
- Completed pump station generator maintenance.

## Call Outs

CALL OUTS	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	TOTAL
TREATMENT PLANT	2	3	3	3	0	1	2	1	0	2	2	1	20
PUMP STATIONS	1	2	1	1	2	1	0	0	4	2	2	2	18
SEWER BLOCKAGES	0	0	1	0	0	1	0	0	0	1	0	0	3
CALL BEFORE YOU DIG	0	0	1	1	0	0	0	0	0	2	0	1	5
ODOR COMPLAINT	6	4	8	0	0	0	0	0	0	0	0	0	18

## Capital Improvement Project Updates

### Clark Street, Benedict Drive, Pleasant Valley Pump Station Upgrades

- DEEP has requested additional information to support the Pleasant Valley Pump Station site plan.
- The additional information was submitted and is currently under review.

*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.*

- DEEP is drafting an agreement to distribute the grant funds.

*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.*

- Wright Pierce continues to monitor and maintain the 11 flow meters.
- VMS and PICO were on-site to expose and evaluate sections of the force main pipe.
- Second round of flow monitoring will continue 4 weeks after the initial meters are removed and data is analyzed. The second round will narrow down areas of excessive infiltration.

*Next Steps:*

- *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.*

- Executed agreement with Associated Construction Company.
- Held a preconstruction meeting with contractor, engineers and staff.

*Next Steps:*

- *Begin construction.*

## **Collection of Sewer User Fees and Delinquent Accounts**

Below are collections as of April 30, 2024, compared to April 30, 2023:

<b>Collection Rate</b>	<b>2023 Grand List</b>	<b>2024 Grand List</b>
Commercial	53.93%	74.06%
Residential	97.40%	97.82%

<b>Delinquent</b>	<b>Balance April 1, 2024</b>	<b>Balance May 1, 2024</b>	<b>Revenue Recovered</b>
Residential	236,334.96	197,578.47	\$38,756.49

- 140 lien holders were notified liens have been placed on their property.
- Statements with interest through May 31, 2024 were issued to property owners.

*Respectfully submitted by: Tony Manfre, Superintendent of Pollution Control*