

WATER POLLUTION CONTROL AUTHORITY COMMISSION

Draft Minutes

<https://www.youtube.com/watch?v=BmVorgMmx0I>

A WPCA Special meeting was held via Webex at 7:00 p.m. on Tuesday, November 29, 2022.

Present: Vice Chairman Joseph D'Avanzo, Ron Drew, Chairman Mark Elletson, Nancy Lefkowitz, Matt Manchisi, Tom McCarthy, Chris Steiner

Also Present: Ed Bateson RTM D1, John Bodie WPCA Superintendent, Christine Brown RTMD9, John Clancy WPCA Administrator/Inspector, Margaret Horton RTM D9, Laura Karson RTM D4, Bill Perugini-Fairfield Beach Road resident

1. Call to Order – Chairman Elletson called the meeting to order at 7:00 p.m.

2. To hear, consider and act upon funding for the Primary Digester at the WPCF

Mr. Bodie reported the bid documents were sent out November 22, 2022, and will be opened on December 15, 2022. He and Dennis Dievert from Wright Pierce agreed on \$1.5m to repair the digester as a reasonable number to go with considering the supply chain issues. This does not take into account the insurance money. They have already received \$1m from the insurance which will go back into WPCA fund to cover cost of cleaning and repair.

Joseph D'Avanzo motioned to authorize \$1.5m to repair the Primary Digester. The repairs to include the removal of the damaged liner, repair and replacement of the damaged internal piping as necessary, replacement of the pressure valves and gages and replacement of the damaged bolts that secure the 45-ton lid. The \$1.5m will be offset by \$948,000 net insurance proceeds received to date leaving a balance of \$552,000. Any future insurance proceeds will be used to further reduce the repair costs and all funding will be from WPCA fund balance. Tom McCarthy seconded the motion.

The Commission discussed the cost.

Joseph D'Avanzo motioned to amend his motion to authorize up to \$1.5m.

The discussion continued.

Public comment –

Christine Brown asked how many bidders there will be. Mr. Bodie is unsure. She also asked how long it will take. Mr. Bodie said once the bid is awarded they will have a better idea. She asked if the odor will get worse, Mr. Bodie is hoping it will get better as additional different chemicals are being tested to try to alleviate odor.

Bill Perugini said Fairfield Beach and Pine Creek Resident Associations expressed concerns. He has reported the odor many times in the past and encouraged them to fix the problem as soon as possible.

Laura Karson asked if air testing has been done. Mr. Bodie said it has not as of yet as the firm contracted needed to get a scope of work. It is anticipated testing around the plant will begin on Friday, December 2, and continue to broaden the testing area. The portable gas meters utilized at the Plant have all tested negative to date. The Health Department will update residents on the progress.

Ed Bateson is concerned about the health and welfare of the residents and employees. He gave his full support to fast track this project. Ms. Karson and Ms. Horton concurred.

The Commission resumed discussion. Ms. Lefkowitz encouraged the public to email the WPCA and added the Commission and WPCA have been working diligently on this issue. Mr. Drew indicated this cannot be delayed any further and has concerns about material availability. Mr. Bodie explained how the chemicals are being used and the cleaning and compost process.

Joseph D'Avanzo amended the motion to authorize up to \$1.75m to repair the Primary Digester. Repairs to include removal of the damaged liner, repair and replacement of the damaged internal piping, replacement of the pressure valves and gages and the replacement of the damaged bolts on the 45-ton lid. The \$1.75m will be offset by \$948,000 net insurance proceeds received to date. All future insurance proceeds will be used to further reduce the repair costs. All funding will come from WPCA fund. Matt Manchisi seconded the amended motion which carried unanimously, 7-0. (D'Avanzo, Drew, Elletson, Lefkowitz, Manchisi, McCarthy, Steiner in favor)

3. Adjourn

Matt Manchisi motioned to adjourn the meeting at 7:35 p.m. Nancy Lefkowitz seconded the motion which carried unanimously, 7-0. (D'Avanzo, Drew, Elletson, Lefkowitz, Manchisi, McCarthy, Steiner in favor)

Respectfully submitted,

Sheila Tesei
Recording Secretary

Primary Digester Repair- \$1,750,000

1. **Background** – The primary digester is a 600,000-gallon concrete tank with a fixed metal roof. It accepts two waste stream from the plant, which are heated, mixed and devoid of oxygen. The anaerobic process destroys volatile material by up 60%. The tank experienced a suspected blocked outlet pipe and caused an over pressure condition in the tank, causing the roof to rip from its mounting bolts. The plant has been processing it sludge streams without this tank, requiring more chemical use, equipment run time and increased odors.
2. **Purpose and Justification** – The purpose of the request is to repair the digester so we can run the process as designed, lessen the costs associated and alleviate the odors. The tank has been offline since April 24,2022.
3. **Detailed Description of Proposal** – Remove or rotate the cover and repair the concrete attachment points and install new anchor bolts. Replace the two inch stainless steel piping to the gas cannon mixers. Remove loose liner material. Inspect all other piping and replace as needed. Replace the pressure relief valve with a newer and more suitable device. Install new sonar level sensor and integrate to SCADA system.
4. **Reliability of Cost Estimate** – Based on a scale of 0 to 10, this is an 8. Best estimate per an engineer’s assessment familiar with this type of repair.
5. **Increased Efficiency or Productivity** – Tank recently cleaned and will allow more capacity due to buildup of sand and now the repair will allow us to return to a normal process. Lowering costs and odors.
6. **Additional Long Range Costs** – Cleaning will take place every 10 years as recommended and be financed by the WPCA fund balance.
7. **Additional Use or Demand on Existing Facilities** – None.
8. **Alternatives to this Request** – None
9. **Safety and Loss Control** –Contractor will ensure safe and compliant work site.
10. **Environmental Considerations** – No Environmental impact other than odor reduction when completed.
11. **Insurance** – All selected contractors will be required to carry the necessary insurance as directed by the Town of Fairfield.
12. **Financing** – Funded through the WPCA fund balance, offset by insurance funds received, currently at \$948,000 with additional funds from insurance possible. Service life after the repair should be 25 years.
13. **Other Considerations:** None.

Other Approvals:

WPCA Committee	-	Nov. 29, 2022
Board of Selectman	-	Dec, 2022
Board of Finance	-	Dec, 2022
RTM	-	Dec, 2022

DRAFT ONLY

Water Pollution Control Authority

Version Dated 12/01/2022

Year	Project	Projected Cost	Potential Grant/ Insurance	Bond	Bond Servicing	Fund Expenditure	Fund Addition	Fund Balance
	Opening Fund Balance							\$ 13,000,000
	Reserve							\$ 2,500,000
								\$ 10,500,000
2023	I&I Remediation Phase V	\$ 1,854,000	\$ 400,000	\$ -		\$ 1,454,000		\$ 9,046,000
	Digester Cleanout	\$ 600,000				\$ 600,000		\$ 8,446,000
	Digester Repair	\$ 1,750,000	\$ 948,000			\$ 802,000		\$ 7,644,000
	2022/2023 Fund Addition						\$ 1,000,000	\$ 8,644,000
	East Trunk - Ash Creek Pipe	\$ 6,250,000	\$ 750,000	\$ 2,000,000		\$ 3,500,000		\$ 5,144,000
	FFLD Beach Road Pump Station	\$ 3,000,000		\$ 3,000,000		\$ -		\$ 5,144,000
	FFld Beach Road Force Main	\$ 2,000,000		\$ 2,000,000		\$ -		\$ 5,144,000
	Digester 2 Cleanout					\$ 450,000		\$ 4,694,000
	Replace Compost Agitator	\$ 540,000				\$ 540,000		\$ 4,154,000
	Fairfield Beach Pump Design	\$ 300,000				\$ 300,000		\$ 3,854,000
	Center Street Pump design	\$ 300,000				\$ 300,000		\$ 3,554,000
	Pine Creek Pump design	\$ 300,000				\$ 300,000		\$ 3,254,000
	250 KW Portable Generator	\$ 125,000				\$ 125,000		\$ 3,129,000
	2023/2024 Est. Fund Addition						\$ 1,000,000	\$ 4,129,000
	Bond Interest and Principle				\$ 470,510			\$ 3,658,490
	Total	\$ 17,019,000	\$ 2,098,000	\$ 7,000,000		\$ 8,371,000	\$ 2,000,000	
2024	Environmental Study Plant Upgrad	\$ 2,000,000		\$ 2,000,000				\$ 3,658,490
	Center Street Pump Station	\$ 3,000,000		\$ 3,000,000		\$ -		\$ 3,658,490
	Center Street Force Main	\$ 4,000,000		\$ 4,000,000				\$ 3,658,490
	Pine Creek Pump Station	\$ 3,000,000		\$ 3,000,000		\$ -		\$ 3,658,490
	Pine Creek Force Main	\$ 2,000,000		\$ 2,000,000				\$ 3,658,490

	Kings Highway Trunk Design	\$ 1,500,000		\$ 1,500,000	\$ -	\$ 3,658,490		
	East Trunk Phase 1 Line Replacem€	\$ 5,500,000	\$ 3,000,000	\$ 2,500,000	\$ -	\$ 3,658,490		
	Riverside Drive Siphon Replacemer	\$ 780,000	\$ 380,000		\$ 400,000	\$ 3,258,490		
	2024/2025 Est Fund Addition				\$ 1,000,000	\$ 4,258,490		
	Bond Interest and Principle			\$ 1,680,393		\$ 2,578,097		
	Total	\$ 21,780,000	\$ 3,380,000	\$ 18,000,000	\$ 1,680,393	\$ 400,000	\$ 1,000,000	\$ 2,578,097
2025	King's Highway (North of 95)	\$ 10,000,000		\$ 10,000,000	\$ -	\$ 2,578,097		
	Wastewater Plant Upgrade Design	\$ 2,500,000	\$ 500,000	\$ 2,000,000				
	TollHouse Station Design	\$ 300,000			\$ 300,000	\$ 2,278,097		
	TollHouse Station Upgrade	\$ 2,000,000		\$ 2,000,000		\$ 2,278,097		
	TollHouse Force Main	\$ 1,000,000		\$ 1,000,000		\$ 2,278,097		
	Ruane Thorpe Pipe Replacement	\$ 1,000,000	\$ 100,000	\$ 900,000		\$ 2,278,097		
	East Trunk Phase 2 Line Replacem€	\$ 5,500,000		\$ 5,500,000				
	2025/2026 Est Fund Addition				\$ 1,000,000	\$ 3,278,097		
	Bond Interest and Principle			\$ 3,118,809		\$ 159,289		
	Total	\$ 22,300,000	\$ 600,000	\$ 21,400,000	\$ 3,118,809	\$ 300,000	\$ 1,000,000	\$ 159,289
2026	WPCF Plant Construction (Phase 1)	\$ 25,000,000	\$ 5,000,000	\$ 20,000,000	\$ -	\$ 159,289		
	EastField Pump Station Design	\$ 300,000		\$ 300,000		\$ 159,289		
	2026/2027 Est Fund Addition					\$ 1,000,000	\$ 1,159,289	
	Bond Interest and Principle				\$ 4,483,288	\$ (3,323,999)		
	Total	\$ 25,300,000	\$ 5,000,000	\$ 20,300,000	\$ 4,483,288	\$ -	\$ 1,000,000	\$ (3,323,999)
2027	WPCF Plant Construction (Phase 2)	\$ 25,000,000	\$ 5,000,000	\$ 20,000,000	\$ -	\$ (3,323,999)		
	Mill River Pump Station Design	\$ 500,000		\$ 500,000		\$ (3,323,999)		
	EastField Pump Station Upgrade	\$ 1,000,000		\$ 1,000,000		\$ (3,323,999)		
	Eastfield Station Force Main	\$ 1,000,000		\$ 1,000,000		\$ (3,323,999)		
	2027/2028 Est Fund Addition					\$ 1,000,000	\$ (2,323,999)	
	Bond Interest and Prinicple				\$ 5,995,641	\$ (8,319,640)		
	Total	\$ 27,500,000	\$ 5,000,000	\$ 22,500,000	\$ 5,995,641	\$ -	\$ 1,000,000	\$ (8,319,640)
	Grand Total	\$ 113,899,000	\$ 16,078,000	\$ 89,200,000	\$ 15,278,130	\$ 9,071,000	\$ 6,000,000	

Potential Additional Projects not Scheduled

- 2023 Replace 8 inch pipe Sanford to Reef (est. \$1M)
- 2026 Replace 8 inch pipe Stratfield Road
- 2026 I&I Remediation Phase VI (\$1.5M)
- 2028 Willow St. Pump Station and Force Main Design (\$300K)
- Five Hundred KW Generator/ ATS Replacement (\$5M)
- Plant Phase 3 (\$25M)

Notes

Bond Servicing assumes 20 years		3%
Grants/ Insurance proceeds total	\$	16,078,000
Bonding \$89.2M over period	\$	89,200,000