

Chemung County Sewer District Wastewater Treatment Plant Consolidation February 22, 2021





Project Drivers

- Addressing increased state and federal treatment requirements (Chesapeake Bay)
- Reducing combined sewer overflows (CSOs) into the Chemung River
- Keeping pace with increasing state and federal environmental concerns about excess flow and Lake Street Sanitary Sewer Overflows (SSO's)
- Avoid risk of emergencies and cost of repairing aging infrastructure
- Avoiding moratorium on economic growth
- Increase opportunities to retain and attract industry



Aging Infrastructure

1. Lake Street WWTP – over 50 years old
2. Lake Street Outfall Pipe – 30-50 years old
3. Milton Street WWTP – 34 years old



Regulatory imperatives include:

Chesapeake Bay TMDL and new SPDES requirements. Regulatory impacts include 100-year flood criteria, flood levee, endangered mussels, and wetland encroachment topics.

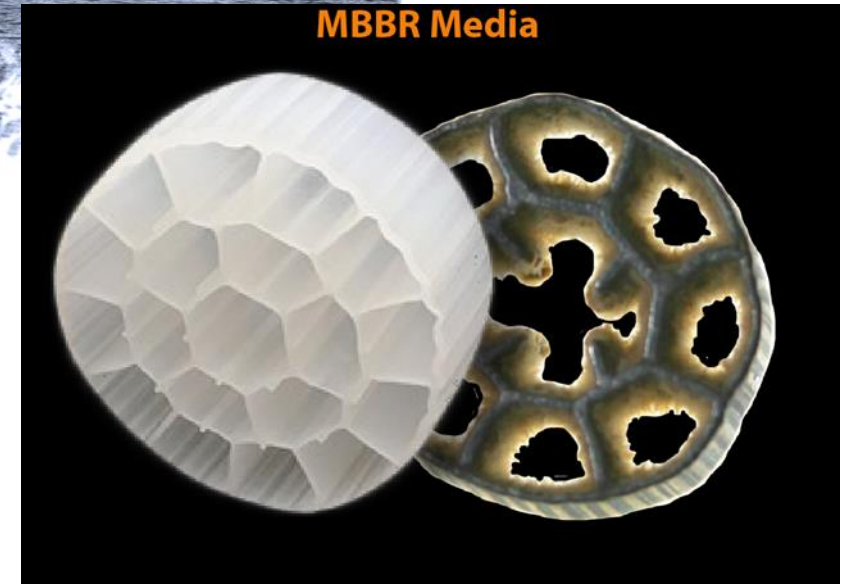
1. USEPA Nitrogen and Phosphorus Limits effective 1/1/2025
2. NYSDEC Effluent disinfection compliance date of May 2019 extended to 1/1/2025 for consolidation (Lake St)





Proposed project evaluated various alternatives and options, including monetary, technical, implementation feasibility, reliability, and environmental impact.

- A. Comprehensive identification of possible alternatives
 - a. Lake Street Treatment preliminary treatment options
 - b. Conveyances - seven (7) conveyance scenarios
 - c. Milton Street – fourteen (14) treatment technologies
- B. Rigorous screening for monetary/non-monetary (technical, constructability, operability, complexity, regulatory, environmental) considerations



Tanks full of media will be used to allow naturally growing bacteria to digest and remove nutrients in the proposed new plant process



Key elements and estimated costs

Cost Component	Probable Cost ⁽¹⁾
Lake Street WWTP, Conveyance, and Preliminary Treatment Improvements Construction Cost	\$26,000,000
Milton Street WWTP Secondary/Tertiary Improvements Construction Cost	\$62,200,000
Milton Street WWTP Other Improvements to Accommodate Consolidation Construction Cost	\$27,900,000
Milton Street WWTP Electrical Upgrades (Existing Facilities)	\$1,500,000
Milton Street WWTP Architectural/Structural and HVAC Improvements	\$3,550,000
Total Construction Cost	\$121,200,000
Engineering, Legal, Administrative Costs (17%)	\$21,000,000
Subtotal Project Cost (rounded)	\$142,000,000
Other Facility Improvements (Total) ⁽²⁾	\$6,100,000
Total Project Cost (rounded)	\$148,000,000
Escalated Project Cost to Midpoint of Construction ⁽³⁾	\$160,000,000

(1) All in 2020 dollars.

(2) Already includes engineering, legal, and administrative costs.

(3) Escalated to 2023 using ENR CCI Index for 2020 of 11499 and average for 2023 of 12410 (ratio of 1.08).



Next steps in the project and relevant schedule

1. NYSDEC approval of recommended plan
2. Submission of applications for grant/loan funding
 - Draft report also submitted to NYS Environmental Facilities Corporation (EFC)
 - EFC designates a significant portion of service area as economic hardship
3. Procurement of engineering services for Final Design of Recommended improvements
 - Treatment plant RFP *currently in procurement*
 - Conveyances RFP for procurement on deck
4. Conveyances will require several permits and relatively minor property acquisition
5. Bidding and construction contracts for recommended improvements



How the public can provide comments to be considered in the final design process

- a. Public presentations by CCSD and solicit comment – *COVID constraints*
- b. Stakeholder engagement and feedback
- c. More detailed presentation and report posted to website





Legislature's opportunities

- a. We would welcome your suggestions for presentations by CCSD to stakeholders
- b. Transparent discussion of project drivers, costs and benefits
- c. Public hearings for bond resolutions to capitalize the project
- d. State grants are particularly important for project success. Your teamwork is appreciated
- e. Will Federal infrastructure grants or 'earmarks' be available? – if so, detailed presentations to key elected leaders in Washington



Thank You!

All feedback is good feedback

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