

Torrington, Connecticut

Water Pollution Control Facility Upgrade

Planning for Future Needs

-Nitrogen Removal

Necessary to improve Long Island Sound

-Phosphorus Removal

Necessary to protect the Naugatuck River

-Aging Equipment and Systems

Protect valuable asset.

Energy Savings

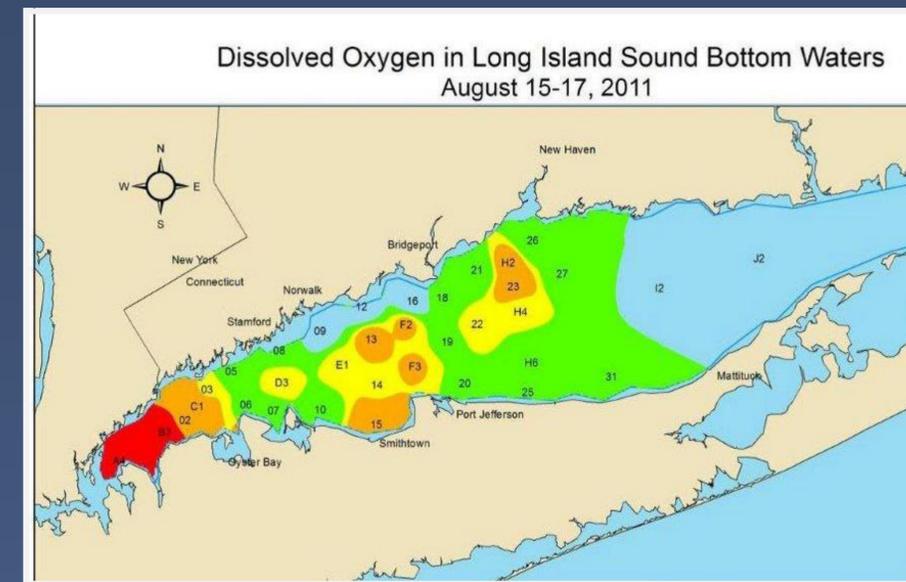
Reduce power consumption and improve energy efficiency

Next Steps

Project cost estimated at \$51.3 million.

22% grant from State Clean Water Fund

2% interest loan over 20 years



SEPTAGE RECEIVING
Provide stand-alone septage screening and metering facility. Modify existing septage storage and transfer system to improve maintenance

PRIMARY SETTLING TANK
Construct fourth primary settling tank. Reconfigure existing flow distribution to improve function of existing systems. Replace antiquated equipment and provide odor control.

SOLIDS HANDLING
Upgrade solids handling process to produce dewatered sludge cake. Install three new dewatering screw presses in the existing garage area.

MAINTENANCE GARAGE
Construct new maintenance garage to replace space lost to dewatering system upgrade and to accommodate future necessary maintenance facilities.

SCREENINGS BUILDING
Expand building to accommodate finer screens and new screenings processing system.



MODIFY AERATION TANKS
Modify existing aeration tanks to operate in Bardenpho process for biological nutrient removal.

NEW FINAL CLARIFIER
Provide third final clarifier for increased nutrient removal capacity.

SLUDGE PUMPING
Provide new RAS and WAS pumps for new final clarifier and upgrade existing equipment.

ODOR CONTROL
Provide odor control for Screenings Building, headworks area, Septage Receiving Facility, Primary Treatment

SUPPLEMENTAL CARBON
Construct new supplemental carbon storage and feed system to provide necessary organic material for biological nutrient removal.

MODIFY AERATION TANKS
Modify existing aeration tanks to operate in Bardenpho process for biological nutrient removal.

PHOSPHORUS REMOVAL
Provide tertiary ballasted flocculation system for phosphorus removal along with necessary equipment and chemical storage and feed systems.

FINAL CLARIFIER
Reuse existing final clarifiers. Rehabilitate concrete surfaces and provide full-radius scum removal mechanisms.