

PROJECT APPLICANT: Village of Southampton

PROJECT TITLE: Lake Agawam Algae Harvesting Phase I

PROJECT TYPE: Aquatic Habitat Restoration

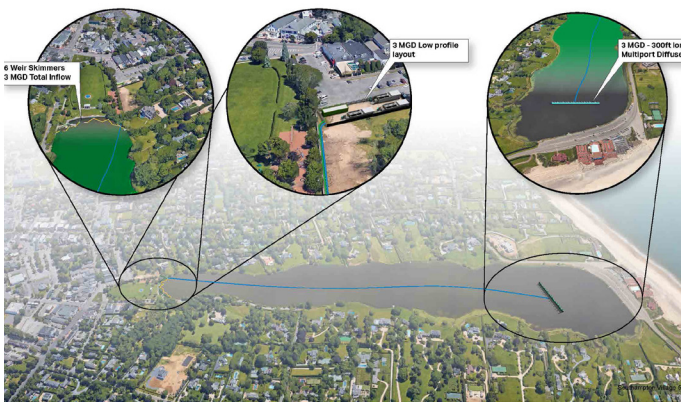
SCALE: Neighborhood/Watershed

APPROACH: Remediation, Restoration

DESCRIPTION:

The proposed project is a request for funding to design and implement a microalgae harvesting system to reduce risks associated with the continual Harmful Algae Blooms (HAB) in Lake Agawam. This new innovative technology can be a solution to help restore over-nitrified water bodies and prevent HABs. The proposed technology seeks to physically remove the algae cells and cyanotoxins in said cells. The project proposes to remove excess nutrients from the lake by reducing (atmospheric) carbon from Lake Agawam, a key component in algae. The system is anticipated to treat 2 million gpd. and reduce the nitrogen load by 35%, with a projected phosphorus load reduction of 15%. The proposed technology would provide its highest reduction within the first year. Treated water from the harvesting system would then be returned to the lake to improve lake water clarity, facilitating the penetration of sunlight to the submerged aquatic vegetation allowing ecosystem recovery.

PROPOSED PROJECT



MAP OF PROJECT LOCATION



REQUESTED AMOUNT: \$5,363,600.00