



Town of East Hampton

Lake Pocotopaug Water Quality Improvement Project

Request for Proposals

Issued: Wednesday, January 15, 2020

Proposals Due: Thursday, February 13, 2020 2:00PM

PROPOSAL SOLICITATION

The following proposal document is intended to inform potential contractors about the necessary project specifications and requirements for the improvement of water quality in Lake Pocotopaug. Specifically, the Town of East Hampton desires to improve water quality through the introduction of oxygen to oxygen poor strata of the lake with the use of laminar flow aeration, destratification or other similar means. The document contains provisions, regulations, and other information pertinent to the particular site. The Town will also consider additional supplemental treatments using bioaugmentation or other methods, but all proposals must include aeration. Please read the enclosed documents carefully and complete and sign the attached proposal form.

The proposal form must be received by the Town of East Hampton no later than 2:00 p.m. on February 13, 2020. The selected proposer will be informed through a formal award letter that is signed by the Town of East Hampton. The selected contractor hereby recognizes that he/she will be responsible for acknowledgement of all material written in this document. In addition, it is highly recommended that all proposers investigate the lake and area prior to proposing on the project to assist in the work process. Materials to assist in this review are described herein.

Submit sealed proposals marked: “Town of East Hampton Water Quality Improvement Proposal” to:

**Town of East Hampton
Attn: Town Manager
20 East High Street
East Hampton CT 06424**

INSTRUCTIONS TO PROPOSERS

1. The proposer is responsible for conducting a preliminary site visit or assessment prior to beginning any work on Lake Pocotopaug including review of lake information available from the Town website as described herein. This is to assure that the site conditions are satisfactory for the proposed management option and to minimize possible setbacks due to possible compromised environmental conditions.
 2. The proposer is responsible to adhere to all components written in the contract if selected as the contractor.
 3. If any additions or deletions are requested to be in the proposal documents, the proposer must contact the Town Manager so that an addendum to the proposal documents may be issued fairly to all pending proposers by February 3, 2020. Such requests shall be made to Town Manager David Cox at dcox@easthamptonct.gov.
 4. All items in the proposal table must be filled out and priced unless explicitly authorized by the Town of East Hampton. This is to ascertain parity among all proposers.
 5. A complete list of all equipment and personnel from each contracting company to be involved on the project must be submitted along with the proposal forms. Information such as types and age of equipment, years of experience in the industry, bioaugmentation case studies performed by your company (if proposed), and educational background should also be included for review by the Town of East Hampton.
 6. Each proposal must be placed in a sealed envelope marked: "Town of East Hampton Water Quality Improvement Proposal".
 7. Proposals must arrive at the date specified above in the Proposal Solicitation section. Late proposals cannot be considered.
 8. Proposals may be withdrawn by the proposer prior to any time before the proposals are officially open.
 9. Proposals shall remain valid for six months from the date of submission. A proposal award letter will be issued to the winning proposer, pending approval by the Town of East Hampton.
 10. Criteria such as competitive cost, work experience and demonstrated success, adequacy of equipment, and professional integrity will be considered when awarding proposal contracts.
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PROJECT SPECIFICATIONS

1. Project Description: Lake Pocotopaug is located in the Town of East Hampton, Connecticut. The lake is approximately 512 acres. The mean depth of the lake is estimated at approximately 11 feet from the average water level. The two deepest areas of the lake are 30 feet or more in depth with two other deeper areas of between 15 and 22 feet in depth.

Lake Pocotopaug is considered eutrophic to highly eutrophic when measuring Phosphorous, Nitrogen and water clarity. Reduced dissolved oxygen in lower portions of the water column (below 10 feet) after late spring appears to exacerbate these issues leading to elevated harmful algae growths with dominance of cyanobacteria resulting in health warnings and impairment of recreational uses of the lake.

Additional information about Lake Pocotopaug may be found in the *Lake Pocotopaug Nine Elements Watershed Based Plan* (2017) and the *Lake Pocotopaug 2018 Water Quality Report* as well as other materials which may be accessed via the East Hampton Conservation Lake Commission's website. These documents and several others may be found here: <https://www.easthamptonct.gov/conservation-lake-commission>. Prospective respondents are encouraged to review these documents.

2. Proposals shall provide a system that will incorporate oxygen into the oxygen-poor/oxygen-deprived portions of Lake Pocotopaug or will by other similar means maintain lake water quality at a Mesotrophic or better state as reasonably determined by standard measurement of Phosphorous, Nitrogen and water clarity. Additionally, success will be determined by measurement of cyanobacteria in the lake resulting in no required lake closures. Measurements and testing will be performed by the Town of East Hampton at its convenience and expense.
 3. All installation equipment, including trailers and boats should be thoroughly steam washed immediately prior to entering Lake Pocotopaug to reduce the spread of exotic species. Failure to do so will result in re-scheduling of the system installation process when washing of equipment is possible.
 4. Town of East Hampton reserves the right to determine if climatic conditions are appropriate for proper installation of the system. In addition, the contractor(s) is/are required to coordinate with Town staff, consultants and the Conservation Lake Commission for a preliminary reconnaissance survey immediately prior to installation of the system.
 5. If proposed and accepted, only non-pathogenic strains of microbes may be used for a bioaugmentation component and the specific name and details of the product and the proposed doses to be used must be disclosed at the time of proposal. Successful respondent will be required to assist the Town in receiving State of Connecticut permission and permits if bioaugmentation is to be used.
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6. The projected time for the installation of the selected system is not later than May 31, 2020. The Town Manager, or his designee, will coordinate with the contractor as to the specific time frame for installation.
 7. The contractor will use caution around swim areas, docks, buoys, rafts, water intake pipes, boats, and other submerged structures. The contractor is solely responsible for any damage done to the aforementioned items and must compensate affected owners for any accrued damages.
 8. The contractor is required to possess insurance coverage which includes worker's compensation and general liability coverage for bodily injury and property damage of at least \$1,000,000 for each occurrence of bodily injury and/or property damage and an aggregate of \$2,000,000. The general liability insurance must list coverage of the operation of all equipment including electrical hookups and compressors. In addition, the Town of East Hampton and its agents must be additionally insured. Copies of the Certificates of coverage and appropriate endorsements are due to the Town of East Hampton at the time of contract execution. If the coverages expire prior to termination of this contract, the contractor must provide a renewed copy to the Town of East Hampton not less than 30 days prior to expiration.
 9. The contractor must list in addition to all technical equipment (i.e. boat and trailer and installation equipment and all system components including microbes) all U.S. Coast Guard approved floatation devices and other safety equipment that will be kept on the vessel during installation procedures.
 10. The contractor must keep all microbial formula sheets available for public viewing and they must also be kept on the vessel or in a vehicle during the installation process. These sheets will be required for introduction of any microbial solutions applied to Lake Pocotopaug.
 11. The contractor must keep a detailed daily log of all installation or maintenance activities on Lake Pocotopaug, such as equipment utilized during operation, additions of microbial solutions, alterations or maintenance of laminar flow aerations system equipment and explanations of problems that may have prevented operation of equipment or services (i.e. downtime, mechanical dysfunctions).
 12. The proposing contractor must agree to assisting the Town of East Hampton in the application process for any permit that may be required by the State of Connecticut, the East Hampton Inland Wetlands and Watercourses Agency or the Town of East Hampton.
 13. Respondents shall propose both a purchase and a leasing option for the acquisition, installation and maintenance of the proposed equipment. The proposer shall include any cost for removal should the lease not be renewed or the client request removal at any time.
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14. Water quality and sediment parameters will be monitored during the season and compared to previous known data regarding the lake water quality as a determinant of success. Proposer must include a discussion and explanation regarding how and why the proposed technology and process will achieve the desired improvement in water quality, including reduction of algae and increases in dissolved oxygen, as well as any reduction of organic muck and sediment or any other anticipated benefits that may be achieved.
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**OFFICIAL PROPOSAL FORM FOR THE INSTALLATION OF A WATER
QUALITY IMPROVEMENT SYSTEM IN LAKE POCOTOPAUG, TOWN
OF EAST HAMPTON, CONNECTICUT**

**PROPOSAL
FORM**

The contractor in completion of this proposal proposes to perform quality service as defined by the rules and regulations contained in the proposal documents.

In signing this proposal contract, the proposer acknowledges that each proposal was sent to the Town Manager by the submittal deadline and in a sealed envelope with the name of the project clearly marked on it. In addition, the contractor agrees to the price(s) stated below. The contractor further understands that he/she is responsible for becoming familiar with the conditions present in Lake Pocotopaug.

The contractor understands that the proposed project is for the increase in water quality in Lake Pocotopaug and if the system is determined to be ineffective within the twenty-four (24) months, contractor must provide an "opt-out" option for the Town of East Hampton.

The contractor is responsible for all sales tax and other costs associated with the scope of work. He/she must include such costs in the proposal cost.

The signed contractor has agreed to all provisions listed in the proposal documents and promises to perform all work with quality and integrity and is fully capable of completing all work required by the Town Manager and the Town of East Hampton in a professional and timely manner.

If proposed, costs related to any microbial applications or other alternative treatment options shall be indicated separately.

Minimum proposal requirements:

- 1) Describe the proposed system with specificity as to the method by which oxygen will be introduced including a description equipment such as size of proposed compressors and related airflow production, number of diffuser heads or other such equipment needed, amount of water turn-over to be achieved and/or other information to assist the Town in evaluating the adequacy of the proposal.

- 2) Contractor must provide a minimum of 5 or more references. At least three of the lakes shall have a minimum 100-acre treatment area and at least two of the lakes shall have a minimum 300-acre treatment area. These references **MUST** be current active projects under direct contract with the proposing Company.

- 3) For the lease option, 3rd party leasing options will not be considered.

- 4) Any compressors used must be housed in a sound-reducing shed or cabinet to reduce noise to no more than 52db at 30 feet from housing. The complete cost and installation of the shed or cabinet must be included in the proposal.

I. SYSTEM STRUCTURAL POWER COMPONENTS: (Note: Info can be placed on additional pages if needed with the specifications requested below).

Item Description	Proposal Quantity	Horsepower	Energy Requirement (in kwh/month)	Approx. Decibel range	Total CFM	Water turnover rate (times per day)

II. AERATION COMPONENTS: (Note: Info can be placed on additional pages if needed with the specifications requested below).

Item Description	Proposal Quantity	Type of Material (i.e. ceramic, rubber)	Size (in inches)	Total length (in feet) of airline (note: MUST be self-sinking airline)	All other required fittings/hardware (describe and list)

ALTERNATE ADDITION:

Contractors may propose additional services such as bioaugmentation or other means to improve water quality. Such proposals may be outlined here and in additional sheets as necessary. All costs related to these additional proposals shall be identified separately. The Town may determine to include these additional services solely at its own discretion.

BIOAUGMENTATION COMPONENTS:

Any Bioaugmentation products proposed must have track record of use in large public lakes. Minimum proposal requirements:

- 1) Contractor must provide a minimum of 5 or more references of lakes with a minimum 100-acre treatment area for proposed Bio-Augmentation Products. These references MUST be current active projects under direct contract with the proposing Company.

Item Description	Recommended Dosing and Cost
	List all microbial solutions, doses, specific functions in sediment or nutrient removal, and number of times per year for application and cost

Other proposed Alternate Additions may be described on separate sheets as necessary.

What conditions are excluded from maintenance as described above? Vandalism? Lightning? Floods? Please explain: _____

_____.

The Town may require that the project may be canceled annually if it is determined that that the system is not performing as anticipated or in the event an appropriation is not made to support the lease. Please specify the termination costs and equipment removal cost (if any) related to said termination of the contract and, if selected, lease: ____

_____.

Please indicate the number of compressor units (as listed above) and list here the approximate locations they would be placed (Include a location map). The Town understands that easements and/or permissions must be granted if the compressor units are to reside on private property. In addition, locations may be subject to change pending approval of location sites.

Number of Compressors _____ Foot print _____

[Insert Map Here]

Please provide an overview of your installation process with several milestones including a discussion of the estimated installation time frame.

Please include estimated expected cost to support the systems operation that are not included in the cost information.

All personnel that will be involved with the contractor during the project include the following (include specific number of years and number of installations worked on):

Upon award to Contractor, a contract will be mutually drafted and signed by the Lake and the Contractor before any work or payments are considered. The contract will include insurance requirements, proposal documents, and project specifications. Any potential changes in specifications, including compressor site locations, that may affect the total proposal, must be identified prior to final signing of any agreement.

Renewals after the first five-year period are at the sole discretion of the Town of East Hampton and its Town Manager.

The Town of East Hampton may reject any or all proposals or may necessitate changes to the proposal documents that the contractor may have to comply with.

Signed by (Contractor): _____

Company Name and
Title _____

Signed on this _____ day of _____, 2020

