



TOWN OF SOUTHAMPTON

Department of Community Preservation
24 W Montauk Hwy, Hampton Bays, NY 11946
Ph: 631-287-5720 Fx: 631-728-1920

www.southamptontownny.gov/WQIPP

COMMUNITY PRESERVATION FUND (CPF) WATER QUALITY IMPROVEMENT PROGRAM CHECKLIST/APPLICATION INSTRUCTIONS

The CPF Water Quality Improvement Project Plan (WQIPP) Fund follows the objectives in the adopted [Water Quality Improvement Project Plan](http://www.southamptontownny.gov/WQIPP) (see <http://www.southamptontownny.gov/WQIPP>)

To apply for funding, an application must be COMPLETED and submitted along with detailed narratives and supporting information as described below. Parcel acquisitions will be considered on an ongoing basis, independent of this application process.

Note: Electronic application submission required and 4 - full printed sets of application, site plan and narrative. Upload application at www.southamptontownny.gov/WQIPPSUBMISSION

A Public Hearing and Town Board Resolution will be required for all projects pursuant to Chapter 140 of the Town Code.

WATER QUALITY IMPROVEMENT PROJECT MEANS:

[1] DEFINITIONS:

1. **Wastewater Treatment Improvement Project** means the planning, design, construction, acquisition, enlargement, extension, or alteration of a wastewater treatment facility, including alternative systems to a sewage treatment plant or traditional septic system, to treat, neutralize, stabilize, eliminate or partially eliminate sewage or reduce pollutants in treatment facility effluent, including permanent or pilot demonstration wastewater treatment projects, or equipment or furnishings thereof. Stormwater collecting systems shall also be included within the definition of a wastewater improvement project.
2. **Nonpoint Source Abatement and Control Program Projects** developed pursuant to section eleven-b of the soil and water conservation districts law, title 14 of article 17 of the environmental conservation law, section 1455b of the federal coastal zone management act, or article forty-two of the executive law;
3. **Aquatic Habitat Restoration Project** means the planning, design, construction, management, maintenance, reconstruction, revitalization, or rejuvenation activities intended to improve waters of the state of ecological significance or any part thereof, including, but not limited to ponds, bogs, wetlands, bays, sounds, streams, rivers, or lakes and shorelines thereof, to support a spawning, nursery, wintering, migratory, nesting, breeding, feeding, or foraging environment for fish and wildlife and other biota.
4. **Pollution Prevention Project** means the planning, design, construction, improvement, maintenance or acquisition of facilities, production processes, equipment or buildings owned or operated by municipalities for the reduction, avoidance, or elimination of the use of toxic or hazardous substances or the generation of such substances or pollutants so as to reduce risks to public health or the environment, including changes in production processes or raw materials; such projects shall not include incineration, transfer from one medium of release or discharge to another medium, off-site or out-of-production recycling, end-of-pipe treatment or pollution control.
5. **The Operation of the Peconic Bay National Estuary Program**, as designated by the United States Environmental Protection Agency. Such projects shall have as their purpose the improvement of existing water quality to meet existing specific water quality standards. Projects which have as a purpose to permit or accommodate new growth shall not be included within this definition



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COMMUNITY PRESERVATION FUND (CPF) WATER QUALITY IMPROVEMENT PROGRAM

PROPOSAL SUMMARY

Project Applicant: Board of Trustees of the Commonalty of the Town of Southampton
 Project Title: Mill Pond Aquatic Habitat Restoration Project
 Project Manager Name: James Duryea Environmental Analyst

| | |
|--------------|--|
| Name | James Duryea |
| Title | Environmental Analyst |
| Organization | Board of Trustees of the Commonalty of the Town of Southampton |
| Address | 116 Hampton Road, Southampton, New York 11968 |
| Phone | 631-702-1848 |
| Email | jduryea@southamptontownny.gov |

Property owner (if different from Project manager organization):

| | |
|--------------|--|
| Name | Eric Shultz |
| Affiliation | President |
| Organization | Board of Trustees of the Commonalty of the Town of Southampton |
| Address | 116 Hampton Road, Southampton, New York 11968 |
| Phone | 631-287-5717 |
| Email | Eshultz@southamptontownny.gov |

Project Address: Mill Pond SCTM #(S) 900-101-3-9.1

Type of Project (Check all that apply):

- Reduction Remediation Restoration

Project Summary: (Provide a brief narrative description of proposed WQIPP project)

See Attached



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If additional information is needed to describe the project; a project narrative can accompany the application. Please limit the narrative to approximately 3 pages of project description, provide a summary of water quality benefits/objectives of approximately 2 pages and provide a cost estimate of approximately 2 to 4 pages with supporting estimates. Any additional materials should be focused specifically on the proposed project with references to other studies that are pertinent

1. PROJECT TYPE (check all that apply)

Must meet at least one of the definitions of "Water Quality Improvement Project" per State Law Chapter 551 cited above. Check all that apply.

- Wastewater Treatment Improvement Project
- Non-point source abatement and control
- Aquatic habitat restoration
- Pollution prevention
- Operation of Peconic Bay National Estuary Program (Grant Match)

Note: Monitoring costs are only potentially eligible for CPF funding within Aquatic habitat restoration projects.

2. PRIORITY AREA(S) (check all that apply)

Priority areas are defined in the [Water Quality Improvement Project Plan \(WQIPP\)](#).

- 303(d) Impaired
- High
- Medium
- Outside High and Medium priority areas*

*If Outside High and Medium priority areas, explain how the project is relevant to WQIPP goals.

3. PROJECT DESCRIPTION

3a. Existing conditions of applicable groundwater/sub-watershed/waterbody and most recent and relevant data available (provide sources).

See attached

3b. How the proposed solution addresses the issue in the context of Reduction, Remediation and/or Restoration as per the CPF Water Quality Project Plan. Note all remediation and restoration projects must assure that reduction measures are also addressed.

See attached



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3c. Describe the proposed technology and its demonstrated efficacy in similar settings. May include published data.

See attached

3d. How the project supports Town of Southampton, Suffolk County, NYSDEC, Long Island Nitrogen Action Plan (LINAP) or other adopted goals/policies (provide references with page numbers).

See attached

3e. Review the following statements and indicate whether they are applicable to your project. For all "Yes" responses, please indicate how your project addresses the requirements indicated.

YES N/A

If stormwater system or drainage is proposed: The project must indicate compliance with the New York State Stormwater Design Manual (2015 and as updated).

If project is related to farmland: Describe any Agricultural Stewardship Plan or other long term strategy for Nitrogen abatement.

If the project is for habitat restoration: The narrative must address how underlying causes are being ameliorated and expected outcomes for local species populations or other ecological considerations are given.

If project is a Sewage Treatment Plant (STP) or cluster treatment system: Fund allocation request is based on cost for reduction of pre-existing conditions and not for purpose of accommodating new density (describe pre-existing density and associated flow (gallons per day) and total projected nitrogen reduction in narrative). Include detailed information on how many homes the system would treat as well as potential for formation of Sewer District, if required by Suffolk County Health Department or Town Law.

If the project is requesting grant match: Include information related to funding program source and purpose of application and any relevant items on this checklist. Note: A Town Board resolution will be required in order to encumber matching funds for grant applications.

4. WATER QUALITY BENEFIT

4a. Identify Nitrogen, Pathogen or Pollutant of Concern (POC) including Existing Condition and Target Reduction.

See attached

4b. Describe plans for collecting and reporting on water quality over time.

See attached



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4c. Indicate useful life of proposed technology (must meet or exceed five years).

See attached

5. COST FACTORS

5a. Explain how you have confirmed that the proposed budget is reasonable, appropriate and necessary. If available, provide third party estimates or other documentation of how costs were determined.

See attached

5b. Describe any matching funds to be provided.

5c. Explain: i. Why project cannot proceed and intended benefits cannot be achieved without external funding.

ii. if funds are awarded at a lower level than requested, or if there are cost overruns, explain how the project will proceed.

6. MANAGEMENT, EXPERIENCE, ABILITY

6a. Describe applicant's experience in completing similar projects.

See attached

6b. Describe community support or opposition to project. If there is opposition, explain how this is to be addressed.

See attached

6c. Describe any permits needed and time frame/status of approvals. If permits are approved, indicate same.

see attached



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7. MAINTENANCE, MONITORING, EVALUATION

Estimate ongoing maintenance costs and explain how these will be supported. Explain stewardship and monitoring activities planned for ensuring sustainability of the project.

See attached

8. DURATION OF PROJECT

8a. Provide a projected project timeline.

See attached

8b. If project is multi-year or phased, provide a breakdown of budget and milestones for each year and phase.

9. ATTESTATION

Allocation of CPF funds will not be for the purpose of accommodating new growth, as this is prohibited by State law.

Check box to certify that funds will not be directed for projects for the purpose of accommodating new growth.

Signature: _____ Date _____

10. REQUIRED ATTACHMENTS Confirm that the following required documents are attached to this application:

- Photos of existing conditions
- Location Map
- State Environmental Quality Review Act (SEQRA) Long or Short Environmental Assessment Form (EAF)
<https://www.dec.ny.gov/permits/6191.html>
- Completed EPA Spreadsheet Tool for Evaluating Pollutant Load (STEPL)
<https://www.epa.gov/nps/spreadsheet-tool-estimating-pollutant-loads-step/> or similar standardized methodology (describe)
- Project budget (see attached template)
- Ownership commitment is provided via letter of intent (LOI) for non-municipal owners or municipal resolution for municipal owners

11. OTHER ATTACHMENTS

List other attachments provided, including cost estimates, bids, plans, documentation of matching funds, and other as appropriate to demonstrate project readiness, quality, feasibility, and cost effectiveness



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BUDGET PROPOSAL

| PLANNING/ENGINEERING/DESIGN | Town CPF Request | Matching Funds Committed | Matching Funds Pending | Estimated Total Project Costs |
|--|-----------------------|--------------------------|------------------------|-------------------------------|
| Task 1- Carp Removal | \$- 275,520.00 | \$- | \$- | \$- 275,520.00 |
| Task 2- Addition of 6 FCW and Maintenance of Total 8 FCW | \$- 219,840.00 | \$- | \$- | \$- 219,840.00 |
| Task 3- Post Carp Removal Fish Survey (3 years) | \$- 71,000.00 | \$- | \$- | \$- 71,000.00 |
| Task 4- Water Quality Monitoring (5 Years) | \$- 140,000.00 | \$- | \$- | \$- 140,000.00 |
| Task 5- | \$- | \$- | \$- | \$-0.00 |
| Task 6- | \$- | \$- | \$- | \$-0.00 |
| | \$- | \$- | \$- | \$-0.00 |
| Planning/Engineering/Design Cost Total | \$- 706,360.00 | \$-0.00 | \$-0.00 | \$- 706,360.00 |

| Contractual Services | | | | |
|--|----------------|----------------|----------------|----------------|
| | \$- | \$- | \$- | \$-0.00 |
| | \$- | \$- | \$- | \$-0.00 |
| | \$- | \$- | \$- | \$-0.00 |
| | \$- | \$- | \$- | \$-0.00 |
| | \$- | \$- | \$- | \$-0.00 |
| | \$- | \$- | \$- | \$-0.00 |
| | \$- | \$- | \$- | \$-0.00 |
| Contractual Services Cost Total | \$-0.00 | \$-0.00 | \$-0.00 | \$-0.00 |

| Construction & Site Improvements | | | | |
|--|----------------|----------------|----------------|----------------|
| | \$- | \$- | \$- | \$-0.00 |
| | \$- | \$- | \$- | \$-0.00 |
| | \$- | \$- | \$- | \$-0.00 |
| | \$- | \$- | \$- | \$-0.00 |
| | \$- | \$- | \$- | \$-0.00 |
| | \$- | \$- | \$- | \$-0.00 |
| | \$- | \$- | \$- | \$-0.00 |
| Construction & Site Improvements Cost Total | \$-0.00 | \$-0.00 | \$-0.00 | \$-0.00 |



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COMMUNITY PRESERVATION FUND (CPF)
WATER QUALITY IMPROVEMENT PROGRAM
LETTER OF INTENT

APPLICANT'S INFORMATION

Owner: Board of Trustees of the Commonalty of the Town of Southampton
Contact First and Last Name: Eric Shultz, President
Contact Address: 116 Hampton Road, Southampton, New York 11968
Contact Phone: 631-287-5717
Contact Email: eshultz@southamptontownny.gov

CONTRACT RECIPIANT INFORMATION

Name/Organization: Board of Trustees of the Commonalty of the Town of Southampton
Contact Person/Officer: James Duryea
Contact Address: 116 Hampton Road, Southampton, New York 11968
Contact Phone: 631-702-1848
Contact Email: jduryea@southamptontownny.gov

PROJECT INFORMATION

Project Title: Mill Pond Aquatic Habitat Restoration Project
Project Location: Mill Pond
Project Description (1-3 sentences): _____

See Attached

ANTICIPATED PROJECT TIMELINE

Begin: Summer 2021
Complete: Winter 2026

Notes: _____

Mill Pond Aquatic Habitat Restoration Project

Board of Trustees of the Commonalty of the Town of Southampton

1. Project Summary:

To continue the management of invasive carp (25% removal last season) and install 6 additional floating constructed wetlands (FCW) to reduce Phosphorus and Nitrogen loading, thus decreasing the occurrence of cyanobacteria blooms that impair Mill Pond's water quality. To implement water quality testing weekly between March- October and monthly November-February in order to track the results of our efforts. All proposed management and tasks have been recommended by the "Mill Pond Restoration Project 2020 Report." PH, December 2020). The proposed aquatic habitat restoration project for Mill Pond encompasses a five year plan with the associated funding projected out over five years. All costs associated with this plan are estimates based on the prior work contracted with Princeton Hydro. RFPs for the proposed project are in the process of being drawn up, when bids have been received, reviewed, and accepted, accurate cost info will be supplied.

2. Priority Areas Mill Pond History:

Mill Pond is recognized by NYSDEC as a 303d listed impaired waterbody subject to relatively frequent intense cyanobacteria blooms. In 2018 alone, Mill Pond had documented harmful algae blooms (HABs) for 21 weeks; from 1 June through 19 October. In 2019, Mill Pond had documented harmful algae blooms (HABs) for 7 weeks; from June 5th through July 24th. In 2020, Mill Pond had documented harmful algae blooms (HABs) for 12 weeks; from June 18th through September 8th. Mill Pond is also noted within the Southampton's CPF Water Quality Improvement Project Plan (WQIPP) as an impaired waterbody located within a High Priority Area that includes Mecox Bay.

3. Project Description:

3a. Existing Conditions

Carp management performed in 2019-2020 in three separate events as follows, October 2019 2,543 carp removed, June 2020 340 carp removed and August 2020 288 carp removed resulting in removal of roughly 3,600 lbs. of carp. Which was projected at only 25% of the total population of carp in Mill Pond leaving approximately 10,000lbs of remaining Carp. Invasive carp consisted of 94% of the Fishery biomass during the survey. (See Attached "Mill Pond Restoration Project 2020 Report." PH, December 2020). According to the Princeton Hydro Survey "The removal of 3,639 lbs. of carp is estimated to result in the direct reduction of approximately 9.20 lbs. (4.2 kg) of total phosphorus (TP) from the Mill Pond system (Parman, 2018) This load reduction is based off the direct measurement of TP bound in carp biomass from previous carp removal studies. It is widely understood that 1 lb. of Phosphorus can translate in over 1,200 lbs. of wet algal biomass. Thus, the removal of 9.20 lbs. of phosphorus from Mill Pond has the potential to result in a decrease of over 10,000 lbs. of wet-algae biomass. This was observed in both the TP and Chl a maximum concentrations measured in 2020." ("Mill Pond Restoration Project 2020 Report." PH, December 2020). Six (6) FCW's are proposed to be installed in 2021 as well as

annual maintenance to the existing two (2) FCW's. The addition of more FCWs will increase the phosphorus and nitrogen taken out of the water body and through the removal of the carp suspended sediment will also be reduced. The FCWs will also provide habitat for young of year and juvenile fish, which is currently lacking in Mill Pond due to the over population of carp.

3b. Proposed solutions

Project focuses on the removal of carp, documented to be the primary source of Mill Pond's phosphorus and nitrogen load. Potential methods of managing carp are Baited Box Nets, bait and open water seine, Drive Carp to trap or seine haul using underwater speakers, open water hoop nets, shoreline fyke nets, electro fishing, and gill netting. This will reduce the resuspension of sediment phosphorus and nitrogen and overall the ponds Phosphorus/nitrogen concentrations. Floating Constructed Wetlands (FCWs) absorb dissolved Phosphorus and nitrogen suspended in the water column, mitigate turbidity and provide fish habitat. Each FCW can remove approximately 10 lbs of phosphorus per year, over the course of the growing season. In turn, 1 lbs of phosphorus has the potential to produce up to 1,100 lbs of wet algae biomass. Thus, the two FCWs combined have the potential of removing 20 lbs of phosphorus per year or prevents the production of approximately 22,000 lbs of wet algae biomass. With the addition of 6 more FCW's the 8 FCW's combined has the potential to remove 80lbs of Phosphorus and may prevent the production of approximately 88,000lbs of wet algae biomass.

3c. Proposed Technology

Proposed Technology will be decided when RFP bids are received and reviewed by the Southampton Town Trustees.

3d. Project Support Nitrogen action Plan

4. Water Quality Benefit

4a. Pollutant of Concern (POC)

Phosphorus and nitrogen are primary POC. Carp removal and installation of FCWs will reduce Phosphorus and nitrogen loading resulting in Reduction in cyanobacteria blooms. Reduction in density of carp will facilitate reestablishment of littoral vegetation benefiting fishery, further stabilizing sediment and further attenuating Nitrogen and Phosphorus.

4b. Collecting and Reporting Water Quality

Mill Pond water quality documented via CSLAP sampling and detailed 2018 Princeton Hydro study. A sampling program similar to 2018 program will be conducted in 2021-2026 to document water quality improvements attributable to this project.

4c. Useful Life of Proposed Technology

Carp removal is a holistic, ecological based water quality improvement measure consistent with Mill Pond long-term restoration plan. FCWs have 20 yr life-span as long as they are maintained annually.

5. Cost Factors

5a. Proposed Budget

Proposed budget will be based on last year's Princeton Hydro until the RFP process is completed.

Carp Removal (3 years) \$275,520

Addition of 6 FCW and Maintenance of Total 8 FCW \$219,840

Post Carp Removal Fish Survey (3 years) \$71,000

Water Quality Monitoring (5 Years) \$140,000

Total Requesting = \$706,360

5b. Matching Funds

NA

5c. Achieving intended benefits

Southampton Town Trustees do not have the funds to take on such a project.

6. Management, Experience, Ability

6a. Experience

NA

6b. Community Support

Mill Pond Association has shown community support to reduce Phosphorus loading, reduce carp and minimize HABs that impact WQ recreation and aesthetics and impact on Water Quality of Mecox Bay.

6c. Permits Needed

NYSDEC Fishery Fish Permit required for carp removal, Permit received November 13, 2018 with a December 31, 2023 expiration date. Carp are non-native, invasive species and their removal supported by NYSDEC. Carp are primary source of Mill Pond's Phosphorus load.

7. Maintenance, Monitoring, Evaluation

No maintenance costs for carp removal, minimum costs for maintenance of FCWs. Southampton Town Trustees and the Mill Pond Association has long history of stewardship, public support, public engagement and outreach.

Sampling: At all stations dissolved oxygen, temperature, pH and specific conductivity should be measured in real-time using a calibrated multi-probe water quality meter at 0.5 to 1.0-meter depth intervals from the surface to the bottom of the water column. Additionally, water clarity will be measured using a Secchi disk.

Discrete Sampling: Water samples should be forwarded to a NYSDEC certified lab.

The samples will be tested for the following laboratory analytes:

- Chlorophyll (Chl a)
- Total Phosphorus (TP)
- Soluble Reactive Phosphorus (SRP)
- Ammonia (NH₃)
- Nitrate and Nitrite (NO₃ + NO₂)
- Total Suspended Solids (TSS)

Plankton Analysis: Mill Pond's phytoplankton community will be sampled during each sampling event at station WQ2.

Microcystin Testing: Water samples will be collected at a location near the boat launch (in the southwest corner of Mill Pond) and will be analyzed for the cyanotoxin microcystin.

8. Duration of project

8a. Projected Project Timeline

Project will be initiated as follows: Carp Removal Fall 2021, Spring 2022, Spring 2023, six (6) Floating Wetlands to be added as soon as grant funding approved. Water Quality monitoring will be done for next 5 years weekly between March- October and monthly November-February. Other than NYSDEC fish removal permit, no other Impediments to project implementation.

8b. Breakdown of Budget

The proposed aquatic habitat restoration project for Mill Pond encompasses a five year plan with the associated funding projected out over five years. All costs associated with this plan are estimates based on the prior work contracted with Princeton Hydro. RFPs for the proposed project are in the process of being drawn up, when bids have been received, reviewed, and accepted, accurate cost info will be supplied.