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

2023

COMMUNITY PRESERVATION FUND (CPF)
WATER QUALITY IMPROVEMENT PROGRAM
PROPOSAL SUMMARY

Project Applicant: Village of Southampton
Project Title: Old Town Pond Watershed Bioswales
Project Manager Name: Charlene Kagel-Betts, Village Administrator

Name	Jesse Warren
Title	Mayor
Organization	Village of Southampton
Address	23 Main Street, Southampton NY 11968
Phone	631-283-0247
Email	jwarren@southamptonvillage.org

Property owner (if different from Project manager organization):

Name	Same
Affiliation	
Organization	
Address	
Phone	
Email	

Project Address: Village Right of Way - Old Town Road & Old Town Crossing SCTM #(S) N/A

Type of Project (Check all that apply):
☑ Reduction ☐ Remediation ☐ Restoration

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

The Village of Southampton will install bioswales and raingardens along the public right of way of Village roads in the Old Town Pond watershed area. Specifically, twelve (12) bio-infiltration areas will be installed along Old Town Road, Old Town Crossing, and Wickapogue Road. The project will improve water quality by removing nutrients, oils, sediment, and pesticides from road runoff prior to stormwater discharge in Old Town Pond. The bio-infiltration/retention areas will reduce non-point pollution by filtering the road runoff while creating a natural aesthetically pleasing view. Plantings will consist of Long Island native plants.

These improvements will maximize opportunities to leverage the multiple benefits of green stormwater infrastructure, provide highly visible innovative stormwater management practices, reduce surface ponding/flooding following rain events, and build capacity to construct and maintain green stormwater infrastructure.

The proposed project will complete 7 of the Village's top 10 highest ranked bioswale projects for cost per pound of nitrogen removed, as identified in the Village's Water Quality Improvement Project Plan (2022). Pollutant load reductions include 116 lbs. of nitrogen and 15 lbs. of phosphorous annually. This application is a resubmittal; 2022 CPF fund allocation was not available to support this project.

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

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

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

Priority areas are defined in the Water Quality Improvement Project Plan (WQIPP).

- ☑ 303(d) Impaired
- ☐ Peconic Estuary Program - PEP map
- ☑ 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).

Old Town Pond is assessed by the NYSDEC as an impaired waterbody due to recreational uses that are considered to be impaired by frequent to persistent occurrences of harmful algal blooms. Aquatic life may also be impacted by resulting low dissolved oxygen in the ponds. Nonpoint stormwater runoff is a known source of pollutants, as reported by the NYSDEC Priority Waterbody List for Old Town Pond (0701-0118). The NYSDEC has documented the occurrence of Harmful Algal Blooms (HABs) in Old Town Pond every year from 2014 to 2021. In 2020, there were ten (10) Harmful Algal Bloom notifications, one in 2021 and one in 2022. Please see attached for further information.

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.

The Village will install bioswales along the public right of way of Village roads in the Old Town Pond watershed area. Specifically, twelve (12) bioswales will be installed along Old Town Road, Old Town Crossing, and Wickapogue Road. The project will improve water quality by removing nutrients, oils, sediment, and pesticides from road runoff prior to stormwater discharge in Old Town Pond. The bio-infiltration/retention areas will reduce non-point pollution by filtering the road runoff while creating a natural aesthetically pleasing view. Please see attached for further detail.

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

Bioretention systems are recognized by the NYSDEC and other agencies as practices that are very effective at removing pollutants and reducing stormwater runoff. Please see attached for further detail.

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 pages numbers).

Please 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.

Please see attached for full description of pollutant load reductions, which are summarized as follows: Total Phosphorous (TP) 15 lbs/year; Total Nitrogen (TN) 116 lbs/year; Total Suspended Solids (TSS) 48,117 lbs/year; Fecal Coliform 4,532 billion/year; Runoff Reduction 18 acre-ft./year.

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

The Village will continue to work with its consulting engineers and/or Dr. Gobler of the NYS Center for Clean Water Technology for ongoing water quality monitoring.

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

The expected useful life of the proposed improvements is 50-200 years.

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.

Please see attached.

5b. Describe any matching funds to be provided.

Please see attached.

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.

Please see attached.

6. MANAGEMENT, EXPERIENCE, ABILITY

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

Please see attached.

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

Please see attached.

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

Village of Southampton Right of Way permit will be secured during Summer 2023.

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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.

Please see attached.

8. DURATION OF PROJECT

8a. Provide a projected project timeline. Note: The Committee will only make recommendations for shovel-ready projects that can commence this fiscal year.

Please see attached.

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

N/A

9. ATTESTATION

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

- ☑ We certify that funds will not be directed for projects for the purpose of accommodating new growth.
- ☑ We understand that progress reports will need to be generated as specified in our Water Quality Improvement Contract AND a final report showing qualitative and/or quantitative data will be generated upon project completion. .

Signature: _____ Date 3/13/23

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-stepl 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
- ☑ Public agencies must complete SEQRA on the project and submit determination of significance and associated documentation.

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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2023

BUDGET PROPOSAL

Is the applicant a municipality group? ☑ Yes ☐ No
If yes, please enter the request date or anticipated request date of RFP (Request for Proposals) Summer 2023.

PLANNING/ENGINEERING/DESIGN	Town CPF Request	Matching Funds Committed	Matching Funds Pending	Estimated Total Project Costs
Task 1-	$-	$-	$-	$- 0.00
Task 2-	$-	$-	$-	$- 0.00
Task 3-	$-	$-	$-	$- 0.00
Task 4-	$-	$-	$-	$- 0.00
Task 5-	$-	$-	$-	$- 0.00
Task 6-	$-	$-	$-	$- 0.00
	$-	$-	$-	$- 0.00
Planning/Engineering/Design Cost Total	$- 0.00	$- 0.00	$- 0.00	$- 0.00

Contractual Services				
Design, construction admin/insp	$- 39,627.00	$-	$-	$- 39,627.00
	$-	$-	$-	$- 0.00
	$-	$-	$-	$- 0.00
	$-	$-	$-	$- 0.00
	$-	$-	$-	$- 0.00
	$-	$-	$-	$- 0.00
	$-	$-	$-	$- 0.00
Contractual Services Cost Total	$- 39,627.00	$- 0.00	$- 0.00	$- 39,627.00

Construction & Site Improvements				
Construction	$- 396,267.00	$-	$-	$- 396,267.00
	$-	$-	$-	$- 0.00
	$-	$-	$-	$- 0.00
	$-	$-	$-	$- 0.00
	$-	$-	$-	$- 0.00
	$-	$-	$-	$- 0.00
	$-	$-	$-	$- 0.00
Construction & Site Improvements Cost Total	$- 396,267.00	$- 0.00	$- 0.00	$- 396,267.00

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2023

Equipment/Materials/Supplies	Town CPF Request	Matching Funds Committed	Matching Funds Pending	Estimated Total Project Costs
	$-	$-	$-	$-0.00
	$-	$-	$-	$-0.00
	$-	$-	$-	$-0.00
	$-	$-	$-	$-0.00
	$-	$-	$-	$-0.00
	$-	$-	$-	$-0.00
	$-	$-	$-	$-0.00
				$ 0.00
				$ 0.00
				$ 0.00
				$ 0.00
				$ 0.00
				$ 0.00
				$ 0.00
				$ 0.00
Equipment/Materials/Supplies Total	$-0.00	$0.00	$-0.00	$-0.00

Additional Cost				
	$-	$-	$-	$-0.00
	$-	$-	$-	$-0.00
	$-	$-	$-	$-0.00
	$-	$-	$-	$-0.00
	$-	$-	$-	$-0.00
	$-	$-	$-	$-0.00
	$-	$-	$-	$-0.00
Additional Cost Total	$-0.00	$-0.00	$-0.00	$-0.00

Planning/Engineering/Design Cost Total (from page 7)	$- 0.00	$- 0.00	$- 0.00	$- 0.00

Total Project Cost	$-435,894.00
Applicant matching funds committed	$-0.00
Applicant matching funds pending approval (e.g. grant request submitted pending determination)	$-0.00
Total CPF Funds Requested	$-435,894.00

Source of matching funds	Amount

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2023

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

APPLICANT'S INFORMATION

Owner: Village of Southampton
Contact First and Last Name: Jesse Warren, Mayor
Contact Address: 23 Main Street, Southampton, NY 11968
Contact Phone: 631-283-0247
Contact Email: jwarren@southamptonvillage.org

CONTRACT RECIPIANT INFORMATION

Name/Organization: Village of Southampton
Contact Person/Officer: Charlene Kagel-Betts, Village Administrator
Contact Address: 23 Main Street, Southampton, NY 11968
Contact Phone: 631-283-0247
Contact Email: ckagel-betts@southamptonvillage.org

PROJECT INFORMATION

Project Title: Old Town Pond Watershed Bioswales
Project Location: Old Town Pond Watershed Area, Southampton
Project Description (1-3 sentences):

The Village of Southampton will install 12 bioswales and raingardens along the public right of way of Village roads in the Old Town Pond watershed area. The project will improve water quality by removing nutrients, oils, sediment, and pesticides from road runoff prior to stormwater discharge in Old Town Pond.

ANTICIPATED PROJECT TIMELINE

Begin: Summer 2023
Complete: Summer 2024
Notes:

TOWN OF SOUTHAMPTON COMMUNITY PRESERVATION FUND
WATER QUALITY IMPROVEMENT PROGRAM

APPLICATION NARRATIVES

VILLAGE OF SOUTHAMPTON
OLD TOWN POND WATERSHED BIOSWALES

PROJECT SUMMARY:

The Village of Southampton will install bioswales and raingardens along the public right of way of Village roads in the Old Town Pond watershed area. Specifically, twelve (12) bio-retention areas will be installed along Old Town Road, Old Town Crossing, and Wickapogue Road. The project will improve water quality by removing nutrients, oils, sediment, and pesticides from road runoff prior to stormwater discharge in Old Town Pond. The bio-infiltration/retention areas will reduce non-point pollution by filtering the road runoff while creating a natural aesthetically pleasing view. Plantings will consist of Long Island native plants.

These improvements will maximize opportunities to leverage the multiple benefits of green stormwater infrastructure, provide highly visible innovative stormwater management practices, reduce surface ponding/flooding following rain events, and build capacity to construct and maintain green stormwater infrastructure.

The proposed project will complete 7 of the Village's top 10 highest ranked bioswale projects for cost per pound of nitrogen removed, as identified in the Village's Water Quality Improvement Project Plan (2022). Pollutant load reductions include 116 lbs. of nitrogen and 15 lbs. of phosphorous annually.

3. PROJECT DESCRIPTION

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

Old Town Pond is assessed by the NYSDEC as an impaired waterbody due to recreational uses that are considered to be impaired by frequent to persistent occurrences of harmful algal blooms. Aquatic life may also be impacted by resulting low

dissolved oxygen in the ponds. Nonpoint stormwater runoff is a known source of pollutants, as reported by the NYSDEC Priority Waterbody List for Old Town Pond (0701-0118). The NYSDEC has documented the occurrence of Harmful Algal Blooms (HABs) in Old Town Pond every year from 2014 to 2021. In 2020, there were ten (10) Harmful Algal Bloom notifications, one in 2021 and one in 2022.[1] The pond is adjacent to the South Shore Estuary Reserve (SSER). The SSER has more impaired surface waters due to nitrogen loading than any other region of New York State, making nitrogen pollution a priority concern.[2]

The Village is working to reduce flow of pollutants into the pond in order to improve water quality, protect public health and support health of the SSER. Bioswales and a Constructed Treatment Wetland are planned for installation in the near future, supported in part by Town of Southampton CPF funds. The proposed project will provide additional pollutant load reduction benefit for the pond.

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.

The proposed project is designed to reduce pollutants from stormwater runoff that ends up in the groundwater or running overland to the pond, especially during high storm events. The pollutants eventually end up in Old Town Pond as evident in the pollutant levels and Harmful Algal Blooms.

The proposed project will make use of existing curbs, catch basins and natural topography along the road right of ways that direct stormwater to the pond. These areas will be used to install a total of 12 bio-infiltration areas, or bioswales. These bio-infiltration areas will provide both infiltration and storage which will capture and treat the stormwater. After being treated, the cleaned stormwater will infiltrate to groundwater. In heavy rain events water will overflow to existing catch basins.

Project #	Location	BMP Type	Impervious Treatment Area (SF)	Volume Captured (CF)	Runoff (acre-feet/yr.)
SV-05A	ROW along Old Town Rd	ROW Raingarden	5,363	1,235	0.4
SV-05B	ROW along Old Town Rd	ROW Raingarden	7,996	890	0.5
SV-05C	ROW along Old Town Crossing	ROW Bioswale	12,299	2,589	0.9
SV-06A	ROW at corner of Old Town Rd and Wickapogue Rd	ROW Raingarden	10,468	1,100	0.7
SV-06B	ROW at corner of Old Town Rd and Wickapogue Rd	ROW Raingardens	16,780	1,975	1.1
SV-06C	ROW at corner of Old Town Rd and Herrick Road	ROW Raingarden	11,239	1,750	0.8

[1] https://www.dec.ny.gov/chemical/83332.html

[2] https://www.dos.ny.gov/opd/sser/comprehensive_management_plan.html

SV-06D	ROW at corner of Old Town Rd and Herrick Road	ROW Raingarden	28,651	2,515	3.3
SV-06E	ROW at corner of Old Town Rd and Meeting House Ln	ROW Raingarden	53,540	5,380	7.3
SV-07A	ROW along Wickapogue Rd	ROW Raingarden	3,059	470	0.3
SV-07B	ROW along Wickapogue Rd	ROW Raingarden	3,238	1,105	0.7
SV-07C	ROW along Wickapogue Rd	ROW Raingarden	7,777	1,105	0.7
SV-07D	ROW along Wickapogue Rd	ROW Raingarden	6,900	1,945	1.2
		Totals	***167,310***	***22,059***	***18***

The project is designed to capture 22,059 CF of rain water for a total impervious treatment area of 167,310 SF. While the exact rainfall level varies slightly for each of the 12 bioswales/raingardens, the project on a whole will generally provide drainage for a 1.2" rain event. The technology conforms to the 2015 NYSDEC Stormwater Management Design Manual. Eastern Long Island native plants will be used for the bio-infiltration systems which will provide an aesthetic appearance. In areas where lawn is required, a custom mix of native and naturalized grasses will be used. See attached plant list.

Please see attached design plans, which were developed by the Village engineer as part of the Village's Water Quality Improvement Project Plan. The plan identified a total of 51 opportunities for green infrastructure projects across the Village. This proposal addresses 12 of the 51 opportunities.

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

Bioretention systems are often referred to by a variety of names such as bioinfiltration areas, biofilters, rain gardens, bioswales, or recharge gardens, and are recognized by the NYSDEC and other agencies as practices that are very effective at removing pollutants and reducing stormwater runoff. Properly designed bioretention practices mimic natural ecosystems through species diversity, density and distribution of vegetation, and the use of native species. This allows for the bioretention system to be resistant to insects, disease, pollution, and climatic stresses.

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 pages numbers).

Town of Southampton Water Quality Improvement Project Plan[3]
The plan indicates that stormwater collection/abatement initiatives meet State Law Chapter 551 definition of "water quality improvement project" and "wastewater treatment improvement project." Stormwater Best Management Practices and treatment fall within

[3] https://www.southamptontownny.gov/DocumentCenter/View/7318/Water-Quality-Improvement-Plan-CPF-Referendum-PDF?bidId=

the category of mitigation initiatives for nitrogen pollution (p. 21). Old Town Pond is shown in the Plan as being situated in a High Priority area. See attached map.

Long Island South Shore Estuary Reserve Comprehensive Management Plan (SSER CMP)[4]
The NYSDEC Priority Waterbodies List (PWL) indicates that the waterbody is adjacent to the South Shore Estuary Reserve (SSER). The SSER CMP is an element of the LI Nitrogen Action Plan. The project is supported by SSER implementation action 1-1: *Construction of stormwater abatement projects in significant nonpoint source contributing areas associated with closed shellfish beds, impaired living resources, and bathing beaches that experience periodic closures due to water quality concerns.*

Long Island Nitrogen Action Plan[5]
The project aligns with stormwater management options outlined in the Action Plan scope, which discusses the benefits of bioretention on page 31, Section 6.13.

Suffolk County Subwatershed Plan[6]
Old Town Pond is discussed as a water body that has experienced freshwater Harmful Algal Blooms (HABs), and is indicated as a Priority 1 subwatershed for nitrogen reduction (p. 2-215). While the Village is actively planning a sewer system, stormwater inputs are a near-term action that will improve water quality.

Village of Southampton Old Town Pond-Wickapogue Pond 2020 Management Plan[7]
The Management Plan calls for stormwater improvements including bioswales in the Old Town Pond watershed for the purpose of pollutant reduction.

Southampton Village Water Quality Improvement Project Plan (2022)
This plan was funded by Southampton Village and completed March 2022. It lists the twelve bioswales/raingardens that comprise this project as #SV-05-SV07-D. The plan identifies 51 potential green infrastructure projects Village-wide, and ranks them according to nitrogen reduction benefits. This project addresses seven of the top 10 ranked projects for nitrogen reduction cost per pound as shown in the application attachments. (p. 167)

4. WATER QUALITY BENEFIT

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

[4] https://www.dos.ny.gov/opd/sser/pdf/Full%20CMP%20Document.pdf
[5] https://www.dec.ny.gov/docs/water_pdf/linapscope.pdf
[6] https://suffolkcountyny.gov/Portals/0/formsdocs/planning/CEQ/2020/RevisedComplete%20SWP2-21-20.pdf
[7] https://www.southamptonvillage.org/DocumentCenter/View/768/Old-Town-Pond---Wickapogue-Pond-2020-Management-Plan-Summary-Recommendations

POC reduction estimates were prepared by the Village's engineering firm Nelson, Pope & Voorhis and use the 2013 Watershed Treatment Model by the Center for Watershed Protection. This is an approved methodology by NYSDEC.

The 22,059 cubic feet of bio-infiltration basins will be designed to capture the water quality volume of water from 167,310 square feet of road and surrounding impervious surfaces. The water quality volume is the 1.2" – 24 hour storm event. As shown in the below table, reductions in POCs have been modeled as follows:

- Total Phosphorous (TP) is 15 lbs/year
- Total Nitrogen (TN) is 116 lbs/year
- Total Suspended Solids (TSS) is 48,117 lbs/year
- Fecal Coliform is 4,532 billion/year
- Runoff Reduction is 18 acre-ft./year

Project #	Location	BMP Type	TP (lbs/yr.)	TN (lbs/yr.)	TSS (lbs/yr.)	Bacteria (billion/yr.)
SV-05A	ROW along Old Town Rd	ROW Raingarden	0.3	2.5	102	109
SV-05B	ROW along Old Town Rd	ROW Raingarden	0.4	3.3	4,145	126
SV-05C	ROW along Old Town Crossing	ROW BioSwale	0.7	5.8	4,032	254
SV-06A	ROW at corner of Old Town Rd and Wickapogue Rd	ROW Raingarden	0.5	4.4	4,206	168
SV-06B	ROW at corner of Old Town Rd and Wickapogue Rd	ROW Raingardens	0.9	7.2	4,360	272
SV-06C	ROW at corner of Old Town Rd and Herrick Road	ROW Raingarden	0.7	5.2	4,268	227
SV-06D	ROW at corner of Old Town Rd and Herrick Road	ROW Raingarden	2.2	22.2	4,820	863
SV-06E	ROW at corner of Old Town Rd and Meeting House Ln	ROW Raingarden	4.7	44.0	5,645	1,797
SV-07A	ROW along Wickapogue Rd	ROW Raingarden	0.3	1.9	4,043	69
SV-07B	ROW along Wickapogue Rd	ROW Raingarden	1.2	5.1	4,096	168
SV-07C	ROW along Wickapogue Rd	ROW Raingarden	0.9	5.0	4,174	179
SV-07D	ROW along Wickapogue Rd	ROW Raingarden	2.0	9.0	4,226	300
		Totals	**15**	**116**	**48,117**	**4,532**

Phosphorous reduction has been shown to have a significant water quality benefit in freshwater ponds. In general, one pound of phosphorous reduction equals 500 pounds of algae growth that will be avoided.

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

The Village will continue to work with its consulting engineers and/or Dr. Gobler of the NYS Center for Clean Water Technology for ongoing water quality monitoring.

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

The expected useful life of the proposed improvements is 50-200 years.

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.

Village consulting engineer Nelson, Pope & Voorhis has prepared the watershed analysis, conceptual design, cost estimate and pollutant load reduction estimate for this project, and will be responsible for all remaining design tasks. See attached feasibility study, engineer's cost estimate and conceptual plans. CVs of representative personnel are attached. The project cost is estimated using knowledge of current market conditions. No extraneous or unnecessary costs are included in the budget.

5b. Describe any matching funds to be provided.

The Village has self funded its recently completed Water Quality Improvement Project Plan at a cost of $17,500.

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.

The Village has invested substantial funding to complete numerous stormwater remediation and other water quality improvement initiatives throughout the Village. It is also currently working toward design and engineering for a sewer district. Becase its funding needs far outweigh available local resources, the Village has attempted to leverage SCWQPRP, Community Preservation Fund (CPF), NYS, local, and other sources whenever possible. If funds are not awarded by CPF, or are awarded at a lower level than requested, the project may be delayed while funding for the balance of the project budget is identified.

Cost overruns are not anticipated. This is because the Village's consulting engineer has designed the project and prepared an itemized budget estimate that reflects current market conditions. During construction, the Village Superintendent of Public Works will monitor field conditions and proactively address any changes or budget variances. While not anticipated, any significant overruns or design changes will be discussed with CPF program leadership in advance to ensure conformance with terms of the funding award.

6. MANAGEMENT, EXPERIENCE, ABILITY

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

Gary Goleski, Superintendent of Public Works, oversaw the engineering consultant's work to design the project. He has a degree in Public Sector Management from Cornell University and has been with the Village for more than 30 years. Under Mr. Goleski's direction, the Village has successfully administered several prior CPF and other grant awards in compliance with granting agency requirements.

Design services are provided by the firm Nelson, Pope & Voohis (NPV). Curricula Vitae of project staff are provided with the application attachments.

Village Administrator Charlene Kagel-Betts, CPA has more than 20 years of experience in municipal finance, and before joining the Village in 2020, worked as Chief Internal Auditor for East Hampton Town, served as the Southampton Town comptroller, and was chief fiscal officer for the Town of Brookhaven. She began her career as an agent for the Internal Revenue Service in New York City, before going into public accounting and government auditing. Leveraging her depth of experience in municipal management and finance, Ms. Kagel-Betts will provide overight of the procurement process and payment applications submitted by consultants and contractors.

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

The Village community is supportive of projects that will improve the health of Old Town Pond and lead to HAB reduction. No opposition is noted.

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

Village of Southampton Right of Way permit will be secured during Summer 2023.

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.

Maintenance is required for all of the Green Infrastructure practices to maintain the function and viability of the practice. Frequency of maintenance will be monthly in the first year after installation, then on to bi-monthly maintenance in year two and three times annually from year three and beyond. Existing staff and equipment resources will be used for maintenance activities, and the activities listed below will be incorporated into the Village's ongoing routine maintenance schedule. Any associated costs will be

addressed in the Village's annual operating budget. The following is recommended for long-term maintenance.

Inspections
The Village will need to inspect the Green Infrastructure locations annually to ensure their functionality. Bio-infiltration basins will be considered functional if no standing water is present 24-48 hours after a rainfall event, pre-treatment chambers are operational, no erosion is present, minimal weeds are present, and plants are well-established.

Maintenance
Maintenance activities may include:

A. *Pre-Treatment Chamber Inlet:* Inspect pre-treatment chamber inlet periodically and remove debris from the grate surface as needed (an estimated 3-4 times per year). Remove any sediment that makes it into the rain garden.

B. *Mulch:* Inspect mulch coverage annually and add double shredded hardwood mulch in order to maintain an average 3" layer. Adequate mulch coverage will suppress weeds and ensure adequate moisture availability for plants. Once plants are established and the mulch is not visible, mulch replenishment can be stopped.

C. *Edging:* Inspect the edging every spring for damage, including edging that has lifted up from the freeze/thaw cycle. If the edging has lifted, remove a few inches of soil underneath and reinstall the edging. The top of the edging must be flush with the grass to minimize potential damage during lawn maintenance and to ensure that runoff can enter the rain garden from a maximum amount of area, depending on the design of the individual rain garden.

D. *Watering:* During the first growing season, add a minimum of 1" of water per week if no rainfall occurs. This amount should be adjusted based on observed plant stress. Once established, rain gardens generally do not require any water unless several weeks have passed without rain.

E. Weeding: Weeding must be performed a minimum 3 times a growing season during the first three seasons. Weeding may be increased to monthly to maintain the desired appearance.

F. Replacement Plants: Replace plants as needed to maintain intended plant coverage within the rain garden. Use plant species from the approved rain garden plan. If a large percentage of plants require replacement, determination of the cause will be required and development of a replacement planting plan.

G. Pest Maintenance: If severe pest damage is noted, treat as appropriate.

8. DURATION OF PROJECT

8a. Provide a projected project timeline.

The Engineering Team will conduct a survey and soil borings in Summer of 2023 after the grant is awarded and design contract is complete to provide on-site technical information to be used in refining the conceptual plans in late Summer to early Fall of 2023. The Village will conduct a public outreach and education session in Fall of 2023 with neighbors and landowners adjacent to the parking lot. Once the final conceptual plans are approved the Engineering Team will commence with construction documents and prepare for a bid process over the late Fall of 2023 leading to an award to construct the project. The bid package will be reviewed by the Village and approved within the Board's bid process prior to bid requests and submission late Fall of 2023. Construction would commence by Winter of 2023 or early Spring of 2024, depending on weather conditions. The project would be complete before summer 2024.

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

N/A

ATTACHMENTS (PROVIDED AS A SEPARATE FILE)

- Resolution
- SEQRA Determination and Short Environmental Assessment Form
- Southampton Town WQIPP location map
- Southampton Village Subwatersheds Map
- Consultant Qualifications
- Village of Southampton Water Quality Improvement Program Top 10 Projects Ranked by Cost/LB of N Reduction
- Existing Conditions
- Engineer's Cost Estimate
- Plant List
- Village of Southampton Water Quality Improvement Program Project Identification Map
- Pollutant Load Reduction Calculations
- Design Plans