

Incorporated Village of Westhampton Beach

165 Mill Road, Westhampton Beach, New York 11978

Phone: (631) 288-1654 * Fax: (631) 288-4332

clerk@westhamptonbeach.org



Hon. Maria Z. Moore
Mayor

Hon. Stephen A. Frano
Hon. Rob Rubio
Hon. Brian Tymann
Hon. Ralph Urban
Trustees

Elizabeth Lindtvit
Village Clerk/Treasurer

Esseks, Hefter & Angel
Village Attorney



July 13, 2018

Mary C. Wilson, Esq.
Community Preservation Manager
Town of Southampton
24 W. Montauk Highway
Hampton Bays, NY 11946

Via email: mwilson@southamptontownny.gov and JScherer@southamptontownny.gov

**Re: Water Quality Improvement Project Plan (WQIPP)
Community Preservation Fund Request for Sewer Project**

Dear Ms. Wilson:

Please find enclosed documents required for proposal submission to the above referenced funding opportunity:

- Completed WQIPP Checklist/Application
- Project narrative
- Proposal Attachments

Due to the size of the proposal file, the proposal has been uploaded to the Town's Box account with a link provided in the submittal email.

Per a request received from Janice Scherer on July 10, six (6) hard copies of the proposal are being mailed with a post mark on or before July 13. We received an email from Janice on July 11 confirming that this will satisfy the deadline requirement. Delivery of the hard copies is scheduled for Monday, July 16.

Thank you for considering this important project. If further information is needed, please contact me at 631-288-1654 or mayormoore@westhamptonbeach.org.

Sincerely yours,

Maria Z. Moore
Mayor



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/CPF

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

Project Proposal _____

Project Applicant _____

Project Title _____

Project Contact Information _____

Project Manager Name _____

Project Manager Title _____

Project Manager Affiliation _____

Project Manager Address _____

Project Manager Phone _____

Project Manager Email _____

Property Owner Name _____

Property Owner Affiliation _____

Property Owner Mailing Address _____

Property Owner Phone _____

Property Owner Email _____

Project Location _____

Project Location SCTM #(S) _____

Type of Project

Reduction _____

Remediation _____

Restoration _____

Project Summary (2-3 sentences) _____

Submittal date _____



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1. PROJECT TYPE (check all that apply)

Meets at least one of the definitions of "Water Quality Improvement Project" per State Law Chapter 551 cited above

- Wastewater Treatment Improvement Project
- Non-point source abatement and control
- Aquatic habitat restoration
- Pollution prevention
- Stormwater collecting system
- Vessel Pump out station
- Operation of Peconic Bay National Estuary Program (Grant Match)

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

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

*Narrative must explain how project is relevant to Water Quality Improvement Project Plan (WQIPP) goals

3. PROJECT DESCRIPTION

- Narrative describes in detail existing conditions of applicable groundwater/sub-watershed/waterbody and includes most recent and relevant data available (provide sources)

- Photos of exiting conditions are included (Attach Photos) SEE ATTACHED REPORT BY DR. GOBLER
- Location map is included (Attach Map)
- Narrative describes in detail what the issue is and how the proposed solution addresses the issue in the context of Reduction, Remediation and/or Restoration as per the CPF Water Quality Project Plan



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- Narrative describes proposed technology in sufficient detail and includes information on its demonstrated efficacy in similar setting (may include published data) (Attach pages as needed)

- Narrative indicates 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, etc.) (Attach pages as needed)

- A State Environmental Quality Review Act (SEQRA) Long or Short Environmental Assessment Form (EAF) is completed and included with application <https://www.dec.ny.gov/permits/6191.html>

OTHER REQUIRED INFORMATION

- If Stormwater system or Drainage is proposed, the narrative and design specifications indicate compliance with the New York State Stormwater Design Manual (2015 and as updated)
- If project is related to farmland, the narrative addresses any Agricultural Stewardship Plan or other long term strategy for Nitrogen abatement
- If the project is for a municipal facility or infrastructure, information pertaining to Town or Village budgetary allocations for ongoing maintenance is provided
- If the project is for habitat restoration, the narrative addresses 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 for the Peconic Estuary Program, 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



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4. WATER QUALITY BENEFIT

- Yes No N/A Nitrogen, Pathogen or Pollutant of Concern (POC) Existing Condition & Target Reduction is identified
- Yes No N/A Anticipated reduction by proposed technology is provided by utilizing EPA's Spreadsheet Tool for Evaluating Pollutant Load (STEPL) <http://it.tetrattech-ffx.com/steplweb/> or similar standardized methodology (provide)
- Yes No N/A Related to above, the narrative describes how data will be collected and reported over time
- Yes No N/A Narrative indicates how the useful life of the proposed technology will meet or exceed five (5) years
- Yes No N/A A total cost budget is included (see pages 6-7 for template) with a cost-benefit discussion and any details related to matching funds (e.g. in-kind services, pre-and post-monitoring, etc)

5. DURATION OF PROJECT

- Projected timeline is included (described any permits needed and time frame/status of required approvals)
- Narrative explains if project is multi-year or phased and includes budget/milestones for each year and Phase

6. PROJECT READINESS

- Narrative describes current stage of planning (e.g. conceptual, preliminary, full construction documents) and includes conceptual or sketch plans where applicable.
- Narrative describes community support for the project (attach letters of support, public hearing testimony, news coverage, community meeting minutes, other outreach as applicable) or addresses potential community opposition/educational needs.

7. MANAGEMENT, EXPERIENCE, ABILITY

- Narrative describes experience in completing similar projects
- Narrative describes project staffing, oversight and administration
- Narrative describes qualifications of project staff, consultants and contractors (as applicable)
- If Homeowner's Association or other community group, describe formal structure and responsibilities of members involved
- If private property (e.g. farmland), the narrative describes who is being contracted to do the work (qualifications, etc.)

8. REQUIRED CERTIFICATIONS

- Commitment is provided via Letter of Intent (LOI)* for non-municipal entities or adopted resolution for Incorporated Villages *
 Note: A LOI template is provided in the application packet
- Plans stamped by NYS licensed Engineer and/or surveyor, where applicable
- STEPL calculations or equivalent prepared by NYS licensed Engineer, where applicable
- Certify that request for proposed funding is not otherwise required by Local, State or Federal Law and intended benefits cannot be achieved without external funding
- Certify that the application will report on project outcomes, including monitoring results

9. MAINTENANCE, MONITORING & EVALUATION

- A plan related to ongoing maintenance, monitoring and evaluation (reporting to the Town) is provided
- The Monitoring Plan will provide water quality data at regular intervals for a minimum of five (5) years

10. EDUCATIONAL COMPONENT

- The project sponsor will erect signage displaying the intent and benefit of the project on site
- As part of the evaluation, the project sponsor will submit a write-up of lessons learned and future needs



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This form cannot be used for this project due to limited space and formula errors. Please see attached spreadsheet

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

PLANNING/ENGINEERING/DESIGN	Town CPF Re- quest	Matching Funds Committed	Matching Funds Pending	Estimated Total Project Costs
In-house labor (provide separate sheet with calculations)				
Task 1-	\$-	\$-	\$-	\$-
Task 2-	\$-	\$-	\$-	\$-
Task 3-	\$-	\$-	\$-	\$-
Task 4-	\$-	\$-	\$-	\$-
Task 5-	\$-	\$-	\$-	\$-
Task 6-	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
In House Labor Total	\$-	\$-	\$-	\$-

Materials/Supplies				
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
Materials/Supplies Total	\$-	\$-	\$-	\$-

Contractual Services				
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
Contractual Services Total	\$-	\$-	\$-	\$-



This form cannot be used for this project due to limited space and formula errors. Please see attached spreadsheet

CONSTRUCTION AND SITE IMPROVEMENTS	Town CPF Request	Matching Funds Committed	Matching Funds Pending	Estimated Total Project Costs
In-house labor (provide separate sheet with calculations)				
Task 1-	\$-	\$-	\$-	\$-
Task 2-	\$-	\$-	\$-	\$-
Task 3-	\$-	\$-	\$-	\$-
Task 4-	\$-	\$-	\$-	\$-
Task 5-	\$-	\$-	\$-	\$-
Task 6-	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
In House Labor Total	\$-	\$-	\$-	\$-

Equipment/Materials/Supplies				
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
Equipment/Materials/Supplies Total	\$-	\$-	\$-	\$-

Contractual Services				
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
Contractual Services Total	\$-	\$-	\$-	\$-

PROJECT TOTAL	\$-	\$-	\$-	\$-
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Total Project Cost	\$-
Total CPF Funds Requested	\$-

Applicant matching funds committed	\$-
Applicant matching funds pending approval (e.g. grant request submitted pending determination)	\$-

Source of matching funds	Amount

This form cannot be used for this project due to limited space and formula errors. Please see attached spreadsheet

**Village of Westhampton Beach
CPF Proposal
Sewer System Phase I**

Planning/Engineering/Design - Contractual	Town CPF Request (3)	Matching Funds Committed	Matching Funds Pending	Estimated Total Project Costs
H2M Map and Plan (1)		\$ 60,000		\$ 60,000
H2M Engineering Design Report (2)		\$ 150,000		\$ 150,000
Dr. Gobler Nitrogen study (1)		\$ 25,000		\$ 25,000
Engineering and Design - plans and specs	\$ 510,000			\$ 510,000
Topographical Survey	\$ 350,000			\$ 350,000
Private Utility Markout	\$ 75,000			\$ 75,000
Soil Borings, Existing Pavement Cores, Piezometers/Geotechnical	\$ 75,000			\$ 75,000
O&M Manual	\$ 70,000			\$ 70,000
Land & Easement Acquisition	\$ 30,000			\$ 30,000
Legal and Bond Counsel	\$ 20,000			
Subtotal	\$ 1,130,000	\$ 235,000	\$ -	\$ 1,365,000
Construction and Site Improvements - Contractual				
Sewer, Pump Station & Force Main Construction	\$ 9,948,000			\$ 9,948,000
Contingency (10%) (4)	\$ 1,210,000			\$ 1,210,000
Construction Administration	\$ 240,000			\$ 240,000
Construction Inspection	\$ 740,000			\$ 740,000
Connection Charge - Suffolk County Sewer District #24 (5)	\$ 1,800,000			\$ 1,800,000
Subtotal	\$ 13,938,000	\$ -	\$ -	\$ 13,938,000
Totals	\$ 15,068,000	\$ 235,000	\$ -	\$ 15,303,000

Total Project Cost	\$ 15,303,000
Total CPF Funds Requested	\$ 15,068,000

Applicant Matching Funds	\$ 235,000.00
Applicant matching funds pending approval (e.g. grant pending determination) (6)	\$ -

Source of Matching Funds	Amount
NYS ESD Engineering Planning Grant (Map & Plan)	\$ 30,000.00
Village matching share (Map & Plan)	\$ 30,000.00
Village matching Share Engineering Design Report)	\$ 150,000.00
Village matching share (Nitrogen Study)	\$ 25,000.00
Total Matching Funds	\$ 235,000.00

NOTES:

1. Preaward expense.
2. Preaward expenditures \$52,230.
3. All costs listed under CPF Funding Request are supported by the Engineering Design Report which provides detailed cost calculations and backup.
4. 10% cost factor refers to cost opinion on page 22-23 of Engineering Design Report and is based on sum of "Planning/Engineering/Design – Contractual & Construction and Site Improvements – Contractual."
5. Per Engineering Design Report Appendix F: \$30/gpd for 60,000 GPD design flow allocation to fund requisite STP improvements.
6. Proposals to WIIA and Consolidated Funding Application are under development at the time of this submittal.

VILLAGE OF WESTHAMPTON BEACH SEWER SYSTEM PHASE 1 PROJECT NARRATIVE

PROJECT LOCATION

The project location is the Village of Westhampton Beach Phase I Sewer Collection and Conveyance System service area, comprised of 156 Suffolk County tax lots across approximately 31 acres within the downtown business district. The parcels are primarily comprised of commercial lots, with some high-density residential and vacant parcels. See attached map.

EXISTING CONDITIONS

The project is located within a High Priority Area in the Town of Southampton CPF Water Quality Improvement Project Plan.

The surface water bodies of Moriches Bay, Moniebogue Bay, and Quantuck Bay that surround the Inc. Village of Westhampton Beach (Village) have experienced an increase in recurring red, brown and rust tides and have been added to the New York State Department of Environmental Conservation (NYSDEC) Section 303(d) List of Impaired Waters Requiring a TMDL/Other Strategy in 2010 (see attached). The pollutants of concern identified by the NYSDEC are nitrogen and low dissolved oxygen with onsite wastewater disposal systems and urban runoff as the suspected sources. The impacts from the ongoing degradation of these surface water bodies can be seen through the significant loss of native plant and shellfish species.

A study prepared by Dr. Christopher J. Gobler of the Stony Brook University School of Marine and Atmospheric Sciences has also identified the high nutrient loading to be attributed to outdated onsite septic systems and cesspools serving the surrounding homes and businesses located within the Village of Westhampton Beach. The report, Quantifying Nitrogen Loading to from Village of Westhampton Beach to Surrounding Water Bodies and Their Mitigation by Creating a Sewer District was completed in June 2017 and is attached to this proposal.

Based on historical Suffolk County Water Authority (SCWA) summer use records from 2014 and 2015, sanitary wastewater generation rates equal an average daily design flow of 60,000 GPD.

The Village of Westhampton Beach has progressed an effort to remove existing development from inadequate onsite septic systems and convey wastewater to the existing wastewater treatment plant in Suffolk County Sewer District No. 24 at the Gabreski Airport.

Please refer to the attached draft Engineering Design Report dated July 2018 and Map and Plan dated October 2017 for comprehensive information on existing conditions.

PROJECT DESCRIPTION

As a step towards mitigating the existing water quality issues, the Village plans to construct a sewer system to collect and convey 60,000 gallons per day (GPD) of sanitary wastewater generated within the Main Street business corridor (i.e. Phase 1 service area) to the existing wastewater treatment plant located in Suffolk County Sewer District No. 24 (SCSD #24) at the Gabreski Airport. Treated effluent discharged from the existing wastewater treatment plant is reintroduced to the ground via subsurface leaching pools with nitrogen concentrations reduced below the current drinking water standard of 10 mg/L. Therefore, the Village's sewer system will remove nitrogen-rich onsite wastewater point sources from continuing to discharge to the ground, thereby contributing to the improvement of water quality in the surrounding water bodies.

As described in the attached draft Engineering Design Report, Volume 1, The Village's collection and conveyance system will entail installation of a combined gravity/low-pressure sewer system, including two (2) submersible pump stations. In addition, the Village will be required to fund a connection charge to Suffolk County which will be used to fund future improvements to SCSC #24. These improvements are described in the Volume 2 Engineering Design Report which is currently under development.

The 60,000 GPD design flow will support existing development and will not support new growth.

Please refer to the attached draft Engineering Design Report (Volume 1) dated July 2018 and Map and Plan dated October 2017 for a comprehensive project description.

Demonstrated efficacy of technologies to be employed

The Village retained the firm H2M Architects and Engineers to prepare the Map and Plan and Engineering Design Report. Part of the scope of work entailed detailed evaluation of alternatives. The recommended alternative is installation of a combined gravity/low-pressure sewer system, including two (2) submersible pump stations. See Engineering Design Report for further detail. The recommended alternative is supported by accepted engineering standards and cost benefit analysis.

The project leverages availability of existing capacity at Suffolk County Sewer District 24 at Gabreski Airport. This shared services approach leverages the County's investment in wastewater treatment infrastructure that is compliant with applicable regulatory requirements.

Please refer to the attached draft Engineering Design Report dated July 2018 for a comprehensive discussion on efficacy of the technologies to be employed.

Ownership commitment

The Village of Westhampton Beach is the project owner. Its investment in engineering and design services includes:

- \$60,000 for preparation of Map and Plan (authorizing resolution adopted February 4, 2016)

- \$150,000 for Engineering Design Report for the sanitary collection, conveyance and treatment infrastructure associated with the Phase I Service Area (authorizing resolution adopted December 7, 2017)

The Village has taken the following actions in support of the project. Village Board resolutions and plans provided in the application attachments serve to provide required certification of ownership commitment:

- Notice of Determination of Lead Agency and Coordinated Review under SEQRA issued to Town of Southampton Highway Department and Southampton Town Board (both dated 9/27/17)
- Determination of Environmental Significance under SEQRA for the Village of Westhampton Beach Sewer System Project (Adopted November 15, 2017)
- Accepted Final Map and Plan – Formation of The Inc. Village of Westhampton Beach Sewer System (Phase 1 Sewer Service Area) For Moniebogue Bay (October 2017)
- Secured formal approval for the connection of the Village of Westhampton Beach to Suffolk County Sewer District No. 24 – Gabreski Municipal (Resolution 51-2017 adopted December 18, 2017)
- SEQRA Determination on the Village of Westhampton Beach Main Street Roadway, Drainage and Streetscape Improvement Project (adopted June 7, 2018)
- Draft Engineering Design Report – Inc. Village of Westhampton Beach Sewer Collection and Conveyance System (Phase 1 Sewer Service Area) Connection to Suffolk County Sewer District No. 24 Volume 1 (July 2018, pending final approval)

WATER QUALITY IMPROVEMENT IMPACT

Reduction: This project will remove properties from onsite septic systems and divert wastewater to the wastewater treatment plant at Gabreski. The project will reduce nitrogen loads entering area surface waters.

According to Dr. Gobler’s 2017 report (attached), “The completion of the proposed phase 1 sewerage of Main Street would divert nearly 5,000 lbs of nitrogen away from Moniebogue Bay annually, reducing its total nitrogen load by 24% and its external nitrogen load by 30%.

Monitoring/reporting protocol

Should CPF funding be awarded, the Village will work with the Town to establish a mutually acceptable plan for ongoing water quality monitoring and reporting for a period of at least five years. It is understood that the Town’s aim is to quantify the impact of CPF investment on water quality in Moniebogue Bay. The following ongoing activities will be leveraged to establish the monitoring plan:

- The sewer system will remove existing subsurface wastewater disposal system discharges within the Phase 1 service area from continuing to discharge direct to the ground, and convey the sanitary wastewater up to the existing sewage treatment plant at the Gabreski Airport in Suffolk County Sewer District #24. The existing sewage treatment plant is required to monitor the effluent water quality as part of its State Pollution Discharge Elimination System (SPDES) permit.
- Stony Brook University's School of Marine and Atmospheric Sciences currently conducts sampling on a weekly basis at a monitoring station at Moniebogue Bay. These ongoing efforts are overseen by Dr. Christopher Gobler of Stony Brook University.
- The Moriches Bay Project has an ongoing water monitoring program that they anticipate will last more than five years. Results will continue to be shared with the Village.

Support for Town of Southampton Water Quality Improvement Project Plan (WQIPP) and other plans

Town of Southampton Water Quality Improvement Project Plan (WQIPP):

- The project is located in a High Priority Area as defined in WQIPP maps (p. 54).
- The project will remove 156 Suffolk County tax lots from their existing onsite septic systems, and direct the wastewater to the County owned wastewater treatment facility at Gabreski Airport. Treatment of the wastewater prior to discharge will reduce nitrogen before it enters groundwater. As a result, the project will reduce nitrogen loading to Moniebogue Bay, a 303(d) waterbody. Nitrogen reduction is a central aim of the WQIPP (p. 12, 25, et. al.)
- The proposed project is in conformance with the authorizing statutes for the WQIPP:
 - NYS Town Law Article 4, Sec. 64-f, Peconic Bay Region Community Preservation Funds, defines a "wastewater treatment improvement project" as "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." The proposed project is directly aligned with this definition.
 - The Code of the Town of Southampton, Chapter 140, Community Preservation Fund, includes the same definition of a wastewater treatment project.
 - Town Code Chapter 140, Community Preservation Fund, further indicates that a "wastewater treatment improvement project" includes "The planning, design, construction, acquisition, enlargement, extension or alteration of a wastewater

treatment facility...” (underlining added for emphasis). This demonstrates eligibility of proposed project costs.

Suffolk County Water Resources Management Plan

The project supports Recommendation 1.1, “As a result of Superstorm Sandy in an effort to promote resilience create and/or expand sewer districts for existing communities identified as priority areas and upgrade current wastewater infrastructure.” Key Milestone b., which states, “Advance sewer expansion projects as funding becomes available,” is also supported.

Section 9 (Implementation) link:

<http://www.suffolkcountyny.gov/Portals/0/health/pdf/Section%209%20Plan%20Implementation.pdf>

Suffolk County Harmful Algal Bloom Action Plan

The Top Strategic Priority in the Management Recommendations is to: “Reduce nitrogen and phosphorous loading to ground watersheds, surface watersheds and direct inputs to surface waters, particularly by upgrading septic systems, both residential and nonresidential” (p.50).

Link to plan: <http://reclaimourwater.info/Portals/60/docs/HABActionPlan.pdf>

COST FACTORS

- A cost opinion was developed by H2M and is included with the attached Engineering Design Report (beginning on p. 21, with backup provided in Appendix F)
- Village resources are not sufficient to support the full cost of this project. External funding is necessary in order for the project to proceed.
- The project leverages availability of existing capacity at Suffolk County Sewer District 24 at Gabreski. As a result, the project’s cost benefit is significantly higher than it would otherwise be if the Village had to fund construction of a new sewage treatment plant. This intermunicipal shared services approach meets statewide and local priorities articulated by the Governor and Suffolk County Executive.
- Leverage of funds
 - \$25,000 for Nitrogen Study to Dr. Christopher Gobler
 - \$210,000 allocated to date by the Village of Westhampton Beach for preparation of Map and Plan and Engineering Design Report
 - Grant applications under development: Consolidated Funding Application, WIIA and CWSRF Funding proposals under development
- Cost overrun contingency: The cost opinion prepared by H2M incorporates escalation factors to account for anticipated construction start in 2022. While best efforts are made to accurately project costs, market conditions may result in unexpected variation from the projected figures. Should cost overruns occur, the Village will utilize its available funding

mechanisms, including capital funds, grants and financing tools to advance the project in a reasonable timeframe.

See Section titled “Maintenance, Monitoring and Evaluation” for a discussion on maintenance costs.

See Engineering Design Report for a thorough discussion of project alternatives and cost opinion.

MANAGEMENT, EXPERIENCE AND ABILITY

- Owner is a municipality (Village of Westhampton Beach)
- Project type is a WQIPP Standard (reduction)
- Project supports Town, County and other adopted goals (see Water Quality Improvement Impact section)
- Experience in completing similar projects: While the Village has not previously established a sewage collection and conveyance system, it has advanced this project in a timely and proficient manner by securing services of qualified and experienced engineering, planning and other professionals, and through effective project management. Evaluation of water quality impacts, preparation of a Map and Plan, preparation of the Engineering Design Report are threshold steps to progress toward establishing a financing plan and advancing to construction. Stakeholder engagement and solicitation of input have been ongoing as well.
- H2M statement of qualifications attached.

PROJECT READINESS/DURATION OF PROJECT

- Significant community support: support letters attached.
- Community opposition: a small number of residents have voiced concerns about project cost. The Village has responded to these concerns by maintaining transparent and consistent messaging about the need for the project, its importance to the environment and economic viability of the business district, and the cost savings associated with completing this project as a shared services initiative with Suffolk County. We have also shared information about availability of external funding support, which is more favorable currently than in years past. All of these factors are expected to ameliorate community concern about potential fiscal strain on the Village and its residents.

Further, residents are supportive of this project because they understand that while sewage treatment will not create more development, it will enable existing businesses to repurpose their spaces on Main Street for increased wet uses (e.g. restaurants). Limitations on wet uses due to inadequate capacity of onsite systems has been a longstanding concern of Village residents and business owners. Residents understand that because current zoning and parking restrictions will stay in place, overall square footage is not expected to change.

- Owner has committed with a LOI: This application serves as the LOI.

- Sources of funding not provided by CPF: See Cost Factors.
- Permit-ability: SEQRA determination complete. See Engineering Design Report for progress to date and timeline below for remaining tasks.

TASK DESCRIPTION	SCHEDULE
Facility Plan Submittal	July 26, 2018
Approval of Facility Plan	September 30, 2018
Approval of Design Services Proposal by Village	November 27, 2018
Authorize M/WBE for Survey and Soil Borings	December 18, 2018
Design Plans and Specifications submitted to NYSDEC	September 30, 2019
Comments received from NYSDEC	November 15, 2019
Resubmission of Design Report, Plans and Specifications to NYSDEC	December 15, 2019
Advertise for Bid	March 15, 2020
Bid Opening for Sewer Contracts	April 19, 2020
Contract Award by Village	June 11, 2020
Initiate Construction	September 14, 2020
Complete Construction	March 15, 2022

- Phasing: The project is phased with costs for design/engineering and construction distributed over 2018-2022 as shown in the project timeline. See Engineering Design Report for further detail. The Village will look forward to discussing leverage of CPF funding during the life of the project, with 2018 as the initial funding year. It is requested that the Town provide up to four annual allocations of up to \$4M each year (one allocation per year 2018-2021) to support the project. Allocation of \$4M is requested from the 2018 CPF. Depending on the actual amount of 2018 funds provided, and the outcome of pending proposals to Consolidated Funding Application and other grant programs, we anticipate submitting annual renewal requests that will take into account availability of external funding sources.
- The following table provides an analysis of CPF funds collected and encumbered for the period 1/1/1999-6/30/2017. According to this analysis, the CPF fund has collected nearly \$31M from transactions occurring in the Village, and expended \$4.5M on purchases within the Village, or 15% of all funds collected from the Village. This disparity is unsurprising as the Village does not contain many open space properties to preserve. However, in this Village our open space is our waterfront and that is what we are seeking to preserve and protect. CPF allocations to support wastewater treatment will provide valuable return on investment to the CPF program, and to the economy by protecting our region's natural resources.

CPF Funds Collected - Encumbered from 1/1/1999 to 6/30/2017

Hamlet	CPF Collected	CPF Purchased	Difference	Percent
Village Sag Harbor	\$ 21,009,696.90	\$ 1,707,262.58	\$ 19,302,434.32	8%
Village Westhampton Beach	\$ 30,783,296.40	\$ 4,527,830.68	\$ 26,255,465.72	15%
Village Quogue	\$ 37,984,975.13	\$ 9,223,926.56	\$ 28,761,048.57	24%
Village Southampton	\$ 160,089,993.33	\$ 40,934,607.83	\$ 119,155,385.50	26%
Quogue	\$ 4,560,757.48	\$ 1,408,053.06	\$ 3,152,704.42	31%
Noyac	\$ 25,062,937.06	\$ 8,631,528.53	\$ 16,431,408.53	34%
Village North Haven	\$ 24,827,989.95	\$ 11,275,227.15	\$ 13,552,762.80	45%
Riverside	\$ 1,043,013.39	\$ 760,220.41	\$ 282,792.98	73%
Bridghampton	\$ 112,163,939.37	\$ 87,476,230.67	\$ 24,687,708.70	78%
Shinnecock Hills	\$ 16,524,559.26	\$ 14,400,008.53	\$ 2,124,550.73	87%
Sagaponack	\$ 18,243,618.35	\$ 16,716,601.91	\$ 1,527,016.44	92%
Water Mill	\$ 91,044,590.38	\$ 89,905,918.35	\$ 1,138,672.03	99%
Westhampton	\$ 17,715,049.29	\$ 17,534,332.28	\$ 180,717.01	99%
Village Sagaponack	\$ 50,512,187.93	\$ 72,250,177.98	\$ (21,737,990.05)	143%
North Sea	\$ 34,900,650.28	\$ 52,502,127.04	\$ (17,601,476.76)	150%
Remsenburg/Speonk	\$ 13,476,672.22	\$ 25,235,706.24	\$ (11,759,034.02)	187%
Tuckahoe	\$ 10,771,816.03	\$ 24,209,545.46	\$ (13,437,729.43)	225%
Hampton Bays	\$ 22,059,511.12	\$ 64,286,684.69	\$ (42,227,173.57)	291%
East Quogue	\$ 19,334,791.80	\$ 64,373,429.28	\$ (45,038,637.48)	333%
Northhampton	\$ 116,674.27	\$ 529,665.26	\$ (412,990.99)	454%
Eastport	\$ 899,885.12	\$ 5,149,331.79	\$ (4,249,446.67)	572%
Sag Harbor	\$ 2,176,658.02	\$ 17,671,426.20	\$ (15,494,768.18)	812%
Flanders	\$ 1,277,127.51	\$ 10,639,324.49	\$ (9,362,196.98)	833%
Totals	\$ 716,580,390.59	\$ 641,349,166.97	\$ 75,231,223.62	

MAINTENANCE, MONITORING AND EVALUATION

1. Long term maintenance post construction:

The Engineering Design Report discusses estimated operation and maintenance costs as follows. See the full report for further detail.

Currently, the Village is engaged with Suffolk County Department of Public Works (SCDPW) to discuss the terms and conditions that will be written into the final inter-municipal sewer "Connection Agreement." To date, the Village and SCDPW have agreed that SCDPW will assume the responsibility for the operation and maintenance of the collection and conveyance infrastructure after it is constructed, tested and turned over for beneficial use. The Village will be responsible for the design and construction of the collection and conveyance infrastructure.

The operation and maintenance (O&M) costs associated with the selected alternative are based on the sewer rent that will be assessed by SCDPW. SCDPW has indicated that they would assume full operation of the Phase 1 collection and conveyance infrastructure without increasing the current total annual O&M budget for SCSD #24, if a 100% gravity sewer collection system is installed. Additional O&M costs have been considered to account for the replacement of individual grinder pumps that would be expected to occur roughly every 10 years for the full life of the system. As such, the Village's O&M cost has been

comprised of the following two cost components: 1) O&M (sewer rent), which is proportionally based on the Phase 1 service area single-family equivalent (SFE) flow contribution to the current permitted flow at SCSD #24, and 2) replacement costs for each grinder pump station based on the quantity of stations previously stated in the engineering design report at the assumed 10-year replacement interval. Both cost components are escalated based on 3.5% per year. SCDPW bases their O&M (sewer rent) on SFE flow units equal to 225 GPD. As such, the Phase 1 service area is comprised of 267 SFE (i.e. 60,000 GPD ÷ 225GPD/SFE). The current annual O&M budget for SCSD #24 is \$200,000. Therefore, Village residents and business owners will be responsible to pay 40% of the annual operation and maintenance budget equal to a total annual cost of \$80,000 per year (i.e. 40% x \$200,000). Distributing this total annual cost to the Phase 1 service area will result in an O&M rate equal to \$300/year/SFE (i.e. \$80,000/year ÷ 267 SFE).

Based on the preliminary collection system layouts identified in the engineering design report, there are a total of one hundred thirteen (113) pumps (i.e. 63 simplex + 25 duplex). A present worth budget of \$1,500 per grinder pump per 10-year interval has been assigned to each pump to represent the life-cycle costs that could be expected for pump replacement and/or repair. Projecting this cost over a 30-year period for the quantity of grinder pumps identified above, with an annual escalation factor of 3.5%, the total grinder pump replacement costs over a 30-year period are projected to be \$644,177.

2. Monitoring/reporting protocol

Should CPF funding be awarded, the Village will work with the Town to establish a mutually acceptable plan for ongoing water quality monitoring and reporting for a period of at least five years. It is understood that the Town's aim is to quantify the impact of CPF investment on water quality in Moniebogue Bay. The following ongoing activities will be leveraged to establish the monitoring plan:

- The sewer system will remove existing subsurface wastewater disposal system discharges within the Phase 1 service area from continuing to discharge direct to the ground, and convey the sanitary wastewater up to the existing sewage treatment plant at the Gabreski Airport in Suffolk County Sewer District #24. The existing sewage treatment plant is required to monitor the effluent water quality as part of its State Pollution Discharge Elimination System (SPDES) permit.
- Stony Brook University's School of Marine and Atmospheric Sciences currently conducts sampling on a weekly basis at a monitoring station at Moniebogue Bay. These ongoing efforts are overseen by Dr. Christopher Gobler of Stony Brook University.
- The Moriches Bay Project has an ongoing water monitoring program that they anticipate will last more than five years. Results will continue to be shared with the Village.

Other required information

- The project will support only existing development and is not for the purpose of accommodating new density. The planned 60,000 GPD of treatment capacity will serve existing development only. The following summary table was prepared based on Suffolk County Water Authority data that was provided for properties in the Phase I service area. The table breaks down the existing water use based on each property's designated NYS land use classification.

NYS Land Use	Description	Area		Tax Parcel Count	Existing Sanitary Flow		Existing Sanitary Flow	
		Acreage	% Acreage		SCWA - summer	% SCWA Flow	SCWA - winter	% SCWA Flow
100	Agricultural	0.00 ac.	0.0%	0 parcels	0 gpd	0.0%	0 gpd	0.0%
200	Residential	21.95 ac.	70.2%	88 parcels	33,440 gpd	55.7%	5,580 gpd	9.3%
300	Vacant Land	0.34 ac.	1.1%	1 parcels	400 gpd	0.7%	400 gpd	0.7%
400	Commercial	8.70 ac.	27.8%	66 parcels	24,400 gpd	40.7%	11,200 gpd	18.7%
500	Recreation & Entertainment	0.00 ac.	0.0%	0 parcels	0 gpd	0.0%	0 gpd	0.0%
600	Community Services	0.30 ac.	1.0%	1 parcels	1,760 gpd	2.9%	300 gpd	0.5%
700	Industrial	0.00 ac.	0.0%	0 parcels	0 gpd	0.0%	0 gpd	0.0%
800	Public Services	0.00 ac.	0.0%	0 parcels	0 gpd	0.0%	0 gpd	0.0%
900	Wild, Forested, Conservation Lands & Public Parks	0.00 ac.	0.0%	0 parcels	0 gpd	0.0%	0 gpd	0.0%
TOTAL . . .		31.29 ac.	100%	156 parcels	60,000 gpd	100.0%	17,480 gpd	100.0%

It is anticipated that a portion of this water use is attributed to swimming pools, irrigation and similar activities that do not contribute to sanitary flow. For this reason, the repurposing of some existing Village commercial properties for additional wet uses such as restaurants can be accommodated and is a desirable outcome of the project.

- The useful life of project meets or exceeds the CPF five-year requirement. The design life for non-mechanical infrastructure (i.e. pipes, manholes, concrete, etc.) is based on a 50-year useful life cycle and the design life for the mechanical components (i.e. pumps, motors, electrical systems, etc...) is typically based on a 20-year useful life cycle; however, there are instances when specific mechanical components have expected useful life that is either shorter or longer than the typical 20-year period. These instances are typically identified during detailed design, when final equipment selections are made.

See Engineering Design Report for complete project information.

ATTACHMENTS

Location MapA-1

303(d) Listing.....A-2

Dr. Christopher J. Gobler, PhD. Quantifying Nitrogen Loading from Village of Westhampton Beach to Surrounding Water Bodies and Their Mitigation by Creating a Sewer District. June 2017 (includes existing conditions photo).A-3

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APPENDIX

DRAFT ENGINEERING DESIGN REPORT: Inc. Village of Westhampton Beach Sewer Collection and Conveyance System (Phase 1 Sewer Service Area) Connection to Suffolk County Sewer District No. 24. Volume 1. July 2018 [includes Map & Plan]