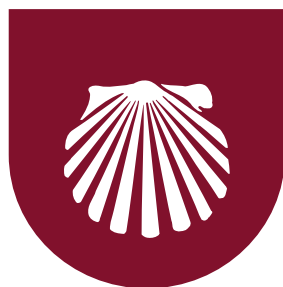




Stony Brook University | Center for Clean Water Technology

**Town of Southampton
Community Preservation Fund - Water Quality Improvement Project**



Peconic Land Trust



Additional Information Supplement

Vegetated Wetlands Treatment System for Wastewater Nitrogen Removal at Bridge Gardens

Applicant: Peconic Land Trust

Project Site: 36 Mitchell Lane, Bridgehampton, NY (Bridge Gardens)

Application Prepared By: NYS Center for Clean Water Technology at Stony Brook University

Spring 2022

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Peconic Land Trust



Project Description

Item 3c. - Describe the proposed technology and its demonstrated efficacy in similar settings.

The vegetated wetlands treatment system (a.k.a. constructed wetlands treatment system) is a well-known and proven type of onsite wastewater treatment technology consisting of a septic tank, a recirculating gravel bed, and, as proposed, for this installation, a denitrifying woodchip biofilter. Such configurations or components have been used successfully to remove total nitrogen (TN) in wastewater at commercial and residential sites in many ecologically sensitive areas.

Figure 1 provides a schematic of a typical vegetated wetlands treatment system. Appendix B contains a description of the proposed system.

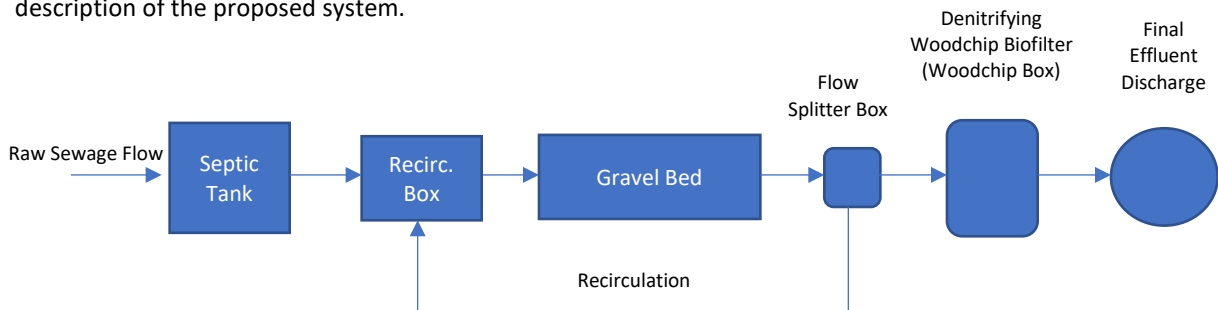


Figure 1 - Schematic Diagram of Vegetated Wetlands Treatment System

The proposed vegetated wetlands treatment system relies on coupled nitrification and denitrification and the uptake of nutrients by plants. After solids settle in a septic tank, wastewater is pumped through a nitrification gravel bed overlaid by plants. As the wastewater flows through the gravel bed, ammonia, urea, and other reduced forms of nitrogen are oxidized to nitrate. A portion of this nitrified flow from the gravel bed is recycled back to a chamber immediately upstream of the gravel bed. Another part is conveyed to a precast concrete chamber, shown in Figure 1 as the Denitrifying Woodchip Biofilter (a.k.a. Woodchip Box, Denitrification Chamber). The biofilter consists of ground woodchips. It is located downstream of the gravel bed. The woodchips supply carbon needed to promote denitrification. The woodchips are also the media that supports the growth of denitrifying bacteria.

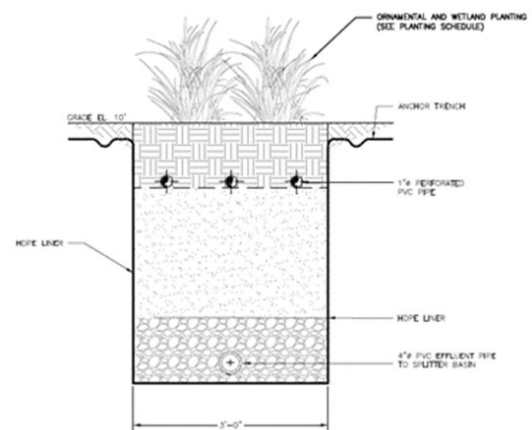


Figure 2 - Typical Cross Section of Vegetated Gravel Bed

A typical cross-section of the vegetated gravel bed is shown in Figure 2.

Town of Southampton
Community Preservation Fund - Water Quality Improvement Project

Peconic Land Trust
Vegetated Wetlands Treatment System for
Wastewater Nitrogen Removal at Bridge Gardens
Bridgehampton, New York

Additional Information Supplement
Spring 2022



Peconic Land Trust

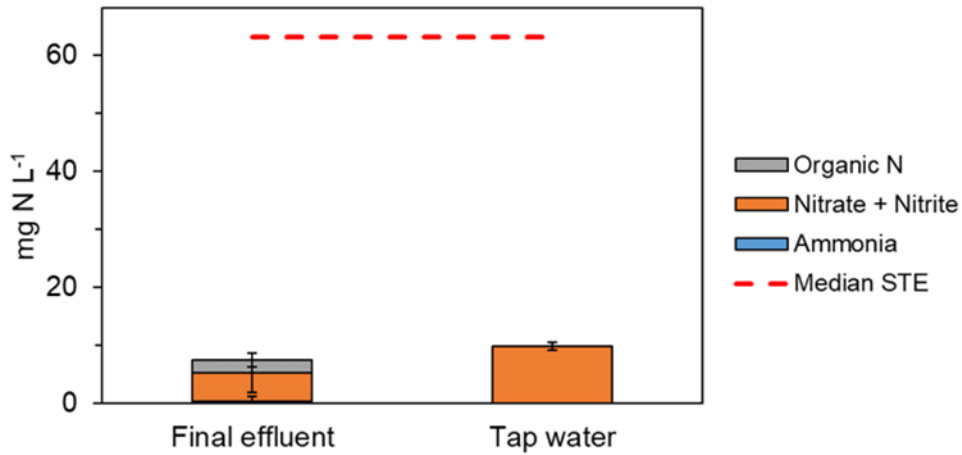


Figure 3 - Sylvester Manor Wetlands Performance Data

Above is the performance summary over three years for the Sylvester Manor constructed wetland located at 80 N Ferry Rd, Shelter Island, NY. Effluent numbers are averaged over 2018, 2019, and 2021 seasons (plus one data point in 2020). Tap water was only sampled in 2020 and 2021. There is no precise influent sampling location, so we have included the median septic tank effluent TN concentration reported by Lowe et al. in their 2009 monitoring survey (63 mg N/L) as a reference point.

The following photographs show a typical constructed wetlands treatment system.



Photo 2 - Vegetated Wetlands Treatment System under Construction



Photo 1 - Post Construction

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Community Preservation Fund - Water Quality Improvement Project

Peconic Land Trust
Vegetated Wetlands Treatment System for
Wastewater Nitrogen Removal at Bridge Gardens
Bridgehampton, New York

Additional Information Supplement
Spring 2022



Peconic Land Trust



Photo 3 – Aged Operating System

The photos also depict the educational component of this project. Placards will be professionally prepared and mounted adjacent to the new system that explains how plants improve the removal of nitrogen and the basics of the recirculating gravel filter and woodchip box. Pamphlets or handouts will also be professionally printed for distribution to the general public. Bridge Gardens is the perfect learning opportunity to instruct children and adults the basic concept of nitrogen removal from domestic wastewater and its importance to public health and the environment.

Town of Southampton
Community Preservation Fund - Water Quality Improvement Project

Peconic Land Trust
Vegetated Wetlands Treatment System for
Wastewater Nitrogen Removal at Bridge Gardens
Bridgehampton, New York

Additional Information Supplement
Spring 2022



Peconic Land Trust



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

High nitrogen levels promote toxic blue-green algae blooms such as the ones identified in Kellis Pond (Gobler, et al., 2007; Gobler and Jankowiak, 2022), as shown in Photo 4.



Excessive nitrogen loading also causes the degradation of aquatic habitats (NYSDEC 2009, 2014). Constructed Wetlands provide nitrogen reduction from wastewater of 84% or greater. For the purposes of this preliminary assessment, 80% Removal of total nitrogen will be used. Therefore, nitrogen reduction is as follows below.



Peconic Land Trust



Clarification / Errata

Please delete page 5 of the Additional Information Supplement and insert in its place this page.

Nitrogen Reduction Calculations (Instead of USEPA):

The Center has supporting data that justifies a typical residence's TKN concentration of 70 mg/L. The design flow for Bridge Gardens is 650 gallons per day. Therefore, the annual Bridge Garden's total nitrogen mass load is approximately 140 lbs. as follows: TN Mass Load = $((650 \text{ gpd} \div 1,000,000) \times 70 \text{ mg/L} \times 8.34) \times 365 = 138.5$ lbs. per year. Conventional septic systems, such as the system now serving Bridge Gardens, remove approximately 10% of total nitrogen. Therefore, the adjusted total nitrogen mass loading is 124.7 lbs. per year.

As explained below, and at a conservative removal rate of 84%, the vegetated wetlands treatment system, when installed at Bridge Gardens, will reduce the total nitrogen loading down to approximately 20 lbs. per year $(124.7 \text{ lbs. per year} \times (1.00 - 0.84) = 20.0 \text{ lbs. per year})$. The total nitrogen concentration is projected to average approximately 10 mg/L.

Please note that these calculations are preliminary and were based on literature and several assumptions. The existing sanitary system at Bridge Gardens is a conventional system, with a septic tank and leaching pools. Based on the test hole completed at the site, groundwater is deep, and the native material beneath the existing leaching structures is well-graded sand with gravel, which would allow for natural soil treatment in the unsaturated zone. The soil type was considered when selecting a total nitrogen concentration for the existing sanitary effluent at the site.

Roux engineers, who would be retained to design the new system, have previously designed wetlands treatment systems that have achieved even higher removal efficiencies for sanitary wastewater. The table below presents recent sampling data for an existing system located in Brentwood, New York. The wetlands treatment system provides secondary treatment of 30,000 GPD of sanitary wastewater. The table below shows that sampling events from quarter 1 of 2022 indicate a total nitrogen removal efficiency of **above 90%**.

Sampling Date	Analyte	Infl. Concentration (mg/L)	Effl. Concentration (mg/L)
1/21/2022	Total Nitrogen	23	1.5
2/16/2022	Total Nitrogen	37	3.5
3/28/2022	Total Nitrogen	46	2.5

Project Cost-Benefit Analysis:

As calculated above, the Bridge Gardens project reduces total nitrogen discharged to the environment by 104.7 lbs. per year $(124.7 - 20.0 = 104.7 \text{ lbs. per year})$ at a requested CPF grant amount not exceeding \$157,740. Recent Suffolk County Planning information supports 2.4 capita per household. That equates to 18 lbs. per home per year of total nitrogen $\{(2.4 \text{ capita} \div 4.0 \text{ capita}) \times 30 \text{ lbs. TN per year per 4 capita home}\}$. Therefore, this project is equivalent to replacing the conventional septic system at approximately 6 homes $(104.7/18 = 6 \text{ homes})$ with an I/A nitrogen-removing onsite wastewater treatment system. Due to supply chain issues, labor shortages, fuel prices, and inflation, the cost to install an I/A system is increasing steadily. Cost data has not been officially updated, but a reasonable estimation is an 8% increase over the coming months to \$27,000. Therefore, the total cost to install the I/A system in 6 homes is \$162,000 $(\$27,000 \times 6)$. Please keep in mind that Bridge Gardens does have an educational component that individual homes do not.

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Town of Southampton
Community Preservation Fund - Water Quality Improvement Project

Peconic Land Trust
Vegetated Wetlands Treatment System for
Wastewater Nitrogen Removal at Bridge Gardens
Bridgehampton, New York

Additional Information Supplement
Spring 2022



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Appendix A Maps

Please see Plate No. 2 provided in the Engineer's Site Assessment Report in Appendix B. The figure provides a survey of the entire site and a preliminary design of the proposed wetlands treatment system.

No text this page

Town of Southampton
Community Preservation Fund - Water Quality Improvement Project

Peconic Land Trust
Vegetated Wetlands Treatment System for
Wastewater Nitrogen Removal at Bridge Gardens
Bridgehampton, New York

Additional Information Supplement
Spring 2022



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Figure 4 - Location Map

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Community Preservation Fund - Water Quality Improvement Project

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Vegetated Wetlands Treatment System for
Wastewater Nitrogen Removal at Bridge Gardens
Bridgehampton, New York

Additional Information Supplement
Spring 2022



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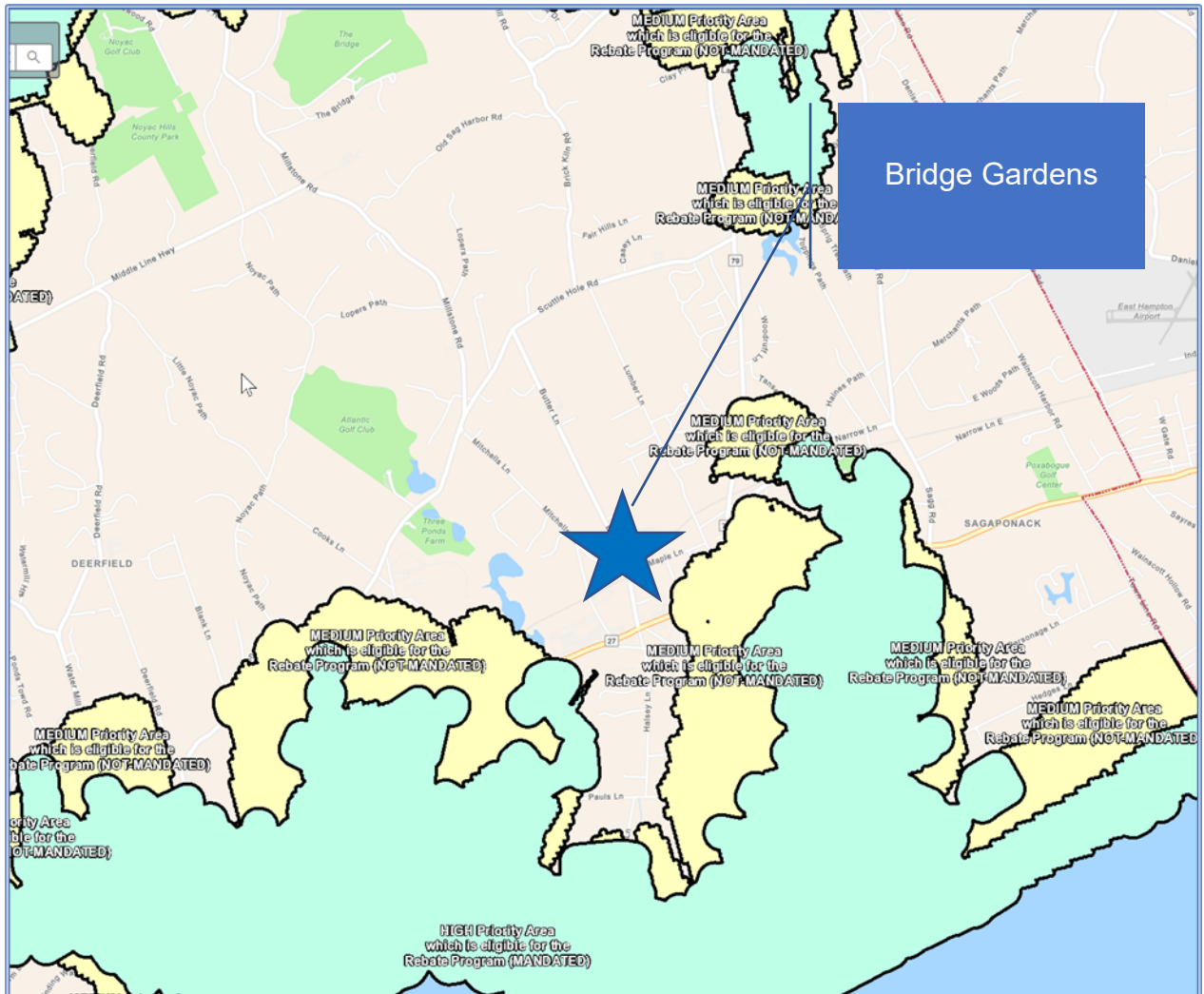


Figure 5 - WQIP Priority Area Map

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Vegetated Wetlands Treatment System for
Wastewater Nitrogen Removal at Bridge Gardens
Bridgehampton, New York

Additional Information Supplement
Spring 2022



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Figure 6 - Special Groundwater Protection Zone (SCDHS)

Bridge Gardens

Town of Southampton
Community Preservation Fund - Water Quality Improvement Project

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Vegetated Wetlands Treatment System for
Wastewater Nitrogen Removal at Bridge Gardens
Bridgehampton, New York

Additional Information Supplement
Spring 2022



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Figure 7 - USGS Depth to Groundwater



Appendix B Engineer's Site Assessment

Note to Reader:

The NYS Center for Clean Water Technology at Stony Brook University (CCWT) engaged Roux Environmental Engineering and Geology, D.P.C. of Islandia, New York, to prepare a preliminary assessment to determine the viability of replacing the existing onsite wastewater treatment system at Bridge Gardens with a nitrogen-removing vegetated wetlands treatment system. Roux has the prerequisite experience to design constructed wetlands treatment systems and is uniquely qualified to prepare the assessment. Their qualifications and experience, *not price*, are why we retained Roux.

The CCWT seeks to promote alternative treatment systems that achieve at least 19 mg/L per Article 19 of the Suffolk County Sanitary Code. The Center has a standard procedure for locating properties that will benefit from replacing its existing onsite system. After gaining support from the non-governmental organization, CCWT delves further into the site characteristics via the Engineer's Site Assessment. Based on the attached site assessment report findings, we decided that the project is viable.

The Engineer's Site Assessment follows here.

No text this page

April 8, 2022

Mr. Frank M. Russo
NYS Center for Clean Water Technology
1000 Innovation Road, Room 100A
Stony Brook, NY 11794-604

Re: Site Reconnaissance and Evaluation for Wetland Treatment System Feasibility
Quogue Wildlife Refuge and Bridge Gardens, Town of Southampton, New York

Dear Mr. Russo:

Roux Environmental Engineering and Geology, D.P.C. (Roux) has prepared this letter report to provide the NYS Center for Clean Water Technology (Client) with a summary of the site evaluation and reconnaissance activities completed for two properties located in the Town of Southampton, New York. The purpose of these activities was to evaluate the feasibility of installing Wetland Treatment Systems (WTSs) for the treatment of sanitary wastewater at the properties. The properties evaluated as a part of this task included the following:

- 1) Quogue Wildlife Refuge (QWR) – 3 Old Country Road, Quogue, NY 11959
- 2) Bridge Gardens – 36 Mitchell Ln, Bridgehampton, NY 11932

The following subsections provide a summary of the site evaluation and reconnaissance activities completed, key findings, and Roux's recommendations.

SUMMARY OF ACTIVIES PERFORMED

Roux performed Site reconnaissance activities at each property on March 25, 2022. Roux met with representatives of each property and the Client's representative during the site visits. Additionally, Roux subcontracted drilling services from Eastern Environmental Solutions, Inc. to complete a subsurface test hole at the properties. The following activities were completed:

- Inspection and evaluation of existing site conditions;
- Inspection of existing sanitary system and adjacent site features;
- Inspection of existing buildings' basements to identify sanitary discharge line locations and other utilities entering the building;
- Inspection of existing buildings' electrical control panel;
- Completion of a test hole to a depth of approximately 3 feet below the observed groundwater table (if encountered);
- Documentation of soil lithology observed in soil boring cores from each test hole; and
- Interview with property owner representatives.

Soil boring logs depicting soil lithology and photographs from Roux's site reconnaissance are included as Attachments 1 and 2. A summary of key findings for each Site is presented below.

SUMMARY OF FINDINGS AND RECOMMENDATIONS

A summary of key findings from Roux's reconnaissance activities is presented below.

Quogue Wildlife Refuge

QWR is utilized as a nature preserve that is open to the general public. A summary of key findings from the Site reconnaissance are presented below:

- Existing Site Buildings:
 - One (1) improved 1-story building utilized as a nature center and includes an office, auditorium, library and kitchen. Contains two (2) bathrooms and a crawl space. Electrical panel capacity is 200 amps, open circuits were available.
 - One (1) improved 2-story residence with three (3) bedrooms and two (2) bathrooms, contains a partial basement.
 - One (1) improved 1-story frame building utilized as a comfort station primarily used by the general public.
 - Animal pens and one (1) improved enclosure utilized as a feed shed.
 - Various additional unimproved enclosures that do not generate a wastewater stream.
- Existing Sanitary System:
 - Nature Center - Two (2) cesspools
 - Residence – One (1) cesspool
 - Comfort Station – One (1) 1,000-gal septic tank with outlet filter; one (1) distribution box; and shallow adsorption field with (4) gravel trenches.
- Depth to Groundwater: 7 feet below land surface (ft bls)
- Private Wells: None. Property improved with public water.
- Wetlands: Site is located in a State Regulated Checkzone (adjacent to Ice Pond).
- Sanitary Flow:
 - Approximately 1,500 to 2,100 gallons per day (GPD).

Based on the above, Roux has determined a WTS for QWR would be feasible and could be constructed to handle all three (3) sanitary wastewater streams at the Site. Based on Roux's preliminary evaluation, the WTS would likely consist of the following new construction components:

- Two (2) new septic tanks
- Two (2) pump stations
- One (1) recirculating mixing tank with pump
- Constructed wetlands (approximately 500 SF)
- One (1) splitter basin for recirculating WTS effluent back to mixing tank
- Denitrifying woodchip bed or galleys (approximately 700 SF)
- Shallow drain field consisting of gravel adsorption trenches or equivalent

The existing cesspools for the Nature Center and Residence would have to be removed/abandoned and replaced with septic tanks. The existing sanitary system for the Comfort Station was designed by the New York State Department of Environmental Conservation (NYSDEC) and includes shallow leaching. Roux recommends reusing the components of the Comfort Station system, as shown on Plate 1.

Plate 1 depicts a preliminary layout of the WTS and associated system components.

Bridge Gardens

The Bridge Gardens property is utilized as a botanical gardens open to the general public. Note that the A summary of key findings from the Site reconnaissance are presented below:

- Existing Site Buildings:
 - One (1) 1-story masonry building with no basement and four (4) bathrooms. The building is utilized as a permanent residence by the property caretaker. The electrical panel capacity in the building is 200 amps and has available circuits.
- Existing Sanitary System:
 - One (1) septic tank (capacity unknown)
 - Leaching pools (total amount and capacity unknown)
- Depth to Groundwater: Not observed in test hole advanced to 30 ft bls (El. 50 to 20)
 - Note that Roux was limited to conducting the test hole at the location shown on Plate 2 at the request of the site representative.
- Private Wells: Two (2) private water wells
- Distance to Wetlands: No wetlands within 300 feet of the Site
- Owner Requirements:
 - Requested location of WTS shown on Plate 2, wants to avoid removal of existing gardens/planting if possible.
- Sanitary Flow:
 - Approximately 500 to 1000 gal/day.

Installation of a WTS at Bridge Gardens would be feasible. Based on Roux's preliminary evaluation, the WTS would likely consist of the following new construction components:

- One (1) new septic tank
- One (1) pump station
- One (1) recirculating mixing tank with pump
- One (1) splitter basin for recirculating WTS effluent back to mixing tank
- One (1) denitrifying woodchip tank
- Three (3) leaching pools

The existing septic tank would have to be removed and replaced with a new septic tank. Two (2) existing former cesspools (not in use) and shrubbery located would have to be removed to accommodate the WTS.

Plate 2 depicts a preliminary layout of the WTS and associated system components (Attachment 2).

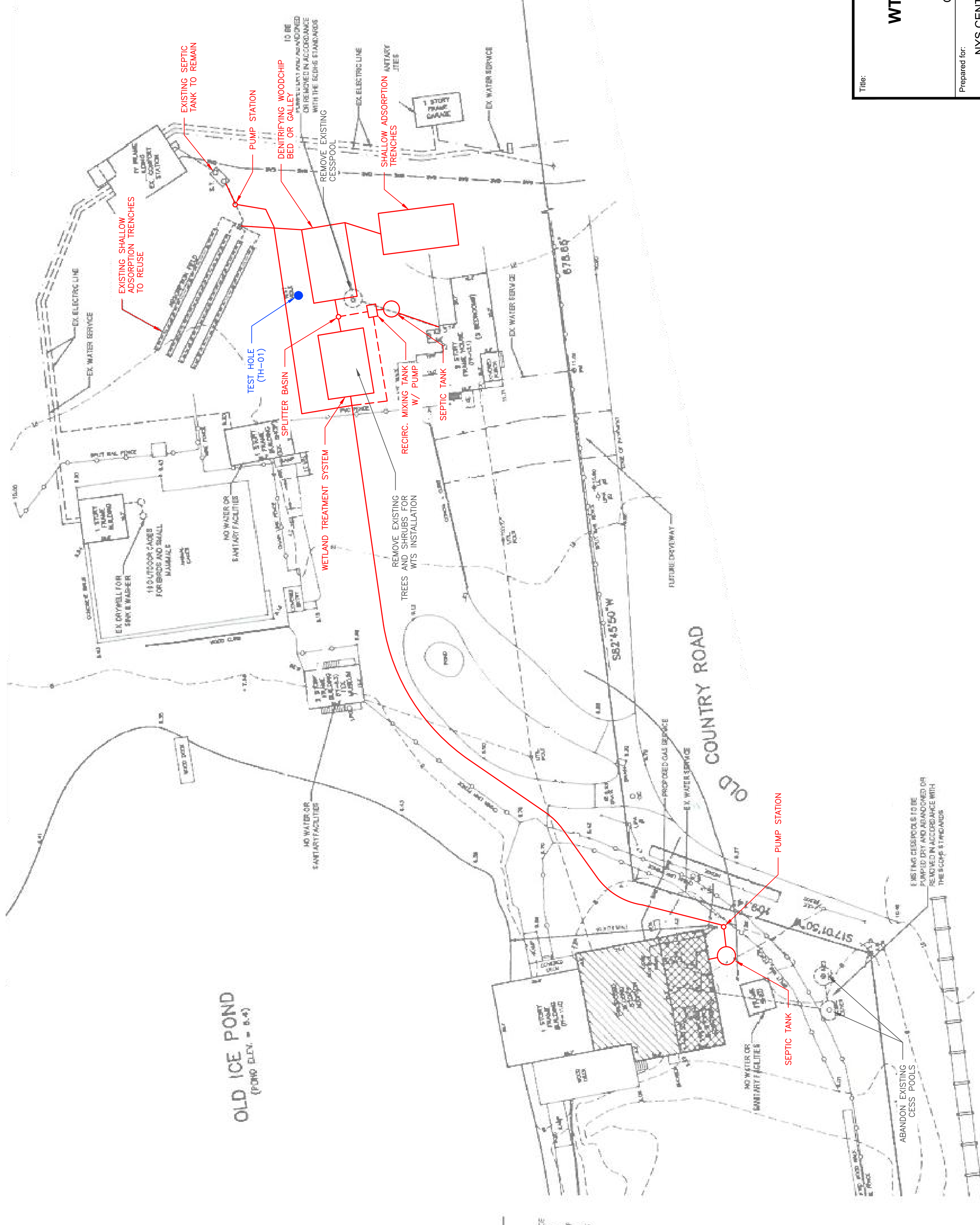
Mr. Frank M. Russo
April 8, 2022
Page 4

Sincerely,

ROUX ENVIRONMENTAL ENGINEERING AND GEOLOGY, D.P.C.

Nicholas Palumbo
Project Engineer

Charles J. McGuckin, P.E.
Principal Engineer/Vice President



- LEGEND**
- PRIMARY SANITARY PIPING
 - - - RECIRCULATION PIPING
 - WTS WETLAND TREATMENT SYSTEM
 - RECIRC RECIRCULATION

NOTES

1. BASE MAP FROM SANITARY DETAILS DRAWING NO. P-2 DATED APRIL 2021, PREPARED BY CONDON ENGINEERING.
2. RED COLORING INDICATES APPROXIMATE LOCATION OF PROPOSED NEW CONSTRUCTION FOR WTS.
3. BLACK COLORING INDICATES REMOVAL OR ABANDONMENT OF EXISTING SITE STRUCTURES/FEATURES.
4. BLUE COLORING INDICATES LOCATION OF TEST HOLE PERFORMED BY ROUX DURING SITE VISIT.



Title:

WTS SITE LAYOUT PLAN

QUOQUE WILDLIFE REFUGEE

Prepared for:
 NYS CENTER FOR CLEAN WATER TECHNOLOGY



Compiled by: N.P.	Date: 4/8/2022	PLATE
Prepared by: B.H.C.	Scale: AS SHOWN	1
Project Mgr: N.P.	Project: 3472.0002Y000	
File: 3472.0002Y100.01.DWG		



Client: SUNY NYS Center for CWT	Site: Quogue Wildlife Refuge	Project Number: 3472.0002Y000	
Address: 3 Old Country Rd, Quogue, NY 11959	City/State: Quogue, NY	Logged By: Nicholas Palumbo	
Start to Finish Date: 3/24/2022 - 3/24/2022	Contractor: Eastern Environmental Solutions	Drill Type: Geoprobe	Sampler Type/Method: 2" Macro-Core
Borehole Depth: 15 feet	Backfill: Soil Cuttings	Borehole Diameter: 3-inches	DTW: 7' bls feet
Area: NM	Elevation: 99.5	Northing: NM	Easting: NM

Depth (ft)	Groundwater & Product Levels	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
		SP-SM		Dark brown, fine SAND and some Silt; moist.				
		SW-SM		Light brown, fine to medium SAND with little gravel and silt; moist.				
		SWG		Light brown, fine to coarse SAND with some Gravel; moist.		2.5		
5		SWG		Light brown, fine to medium SAND with little gravel; moist.				
	 GROUND WATER LEVEL 4/24/2022	SWG				3		Groundwater encountered at 7' bls.
10		SWG		Light brown, fine to medium SAND with little gravel; wet.				
		SW		Light brown, fine to medium SAND; wet.			4	
		SWG		Light brown, fine to medium SAND with little gravel; wet.				

ROUX STANDARD LOG - 4/7/22 17:11 - S:\GINTI\PROJECTS\3472.0002Y000_QWR_SURVEY.GPJ

Bottom of borehole at 15 feet



Photograph 1: Location of proposed WTS and shrubs to be removed.



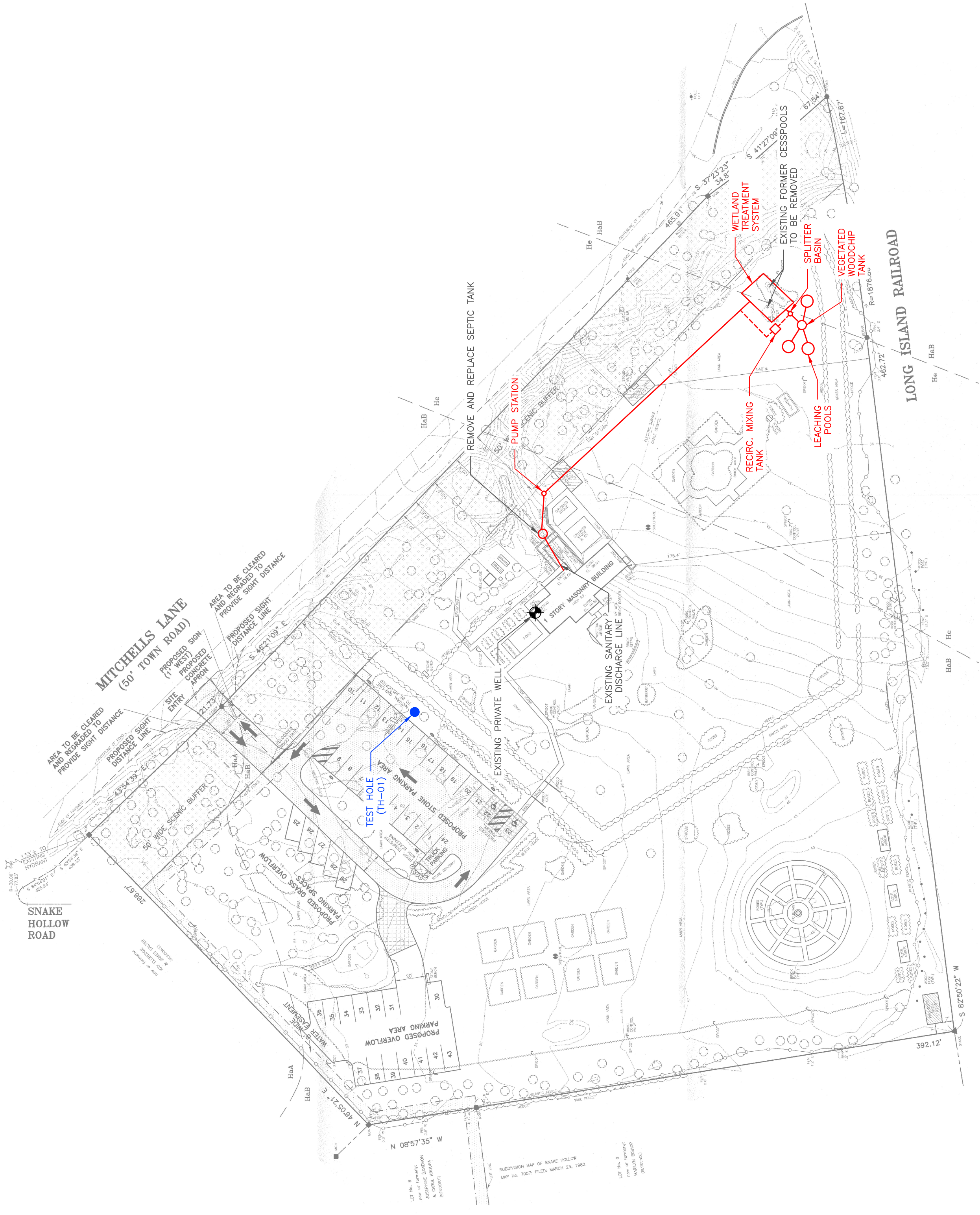
Photograph 2: Location of existing septic tank for Comfort Station



Photograph 3: South side of Nature Center.



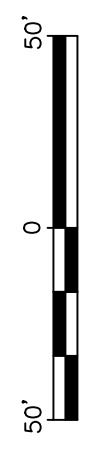
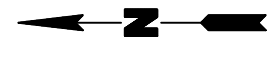
Photograph 4: Soil boring core.



- LEGEND**
- PRIMARY SANITARY LINE
 - - - RECIRCULATION LINE
 - WTS WETLAND TREATMENT SYSTEM
 - RECIRC RECIRCULATION

NOTES

1. BASE MAP FROM REVISED SITE SURVEY DATED FEBRUARY 2, 2018.
2. RED COLORING INDICATES APPROXIMATE LOCATION OF PROPOSED NEW CONSTRUCTION FOR WTS.
3. BLACK COLORING INDICATES REMOVAL OR ABANDONMENT OF EXISTING SITE STRUCTURES/FEATURES.
4. BLUE COLORING INDICATES LOCATION OF TEST HOLE PERFORMED BY ROUX DURING SITE VISIT.



WTS SITE LAYOUT PLAN

BRIDGE GARDENS

Prepared for:
NYS CENTER FOR CLEAN WATER TECHNOLOGY



Compiled by: N.P.	Date: 4/8/2022	PLATE
Prepared by: B.H.C.	Scale: AS SHOWN	2
Project Mgr: N.P.	Project: 3472.0002Y000	
File: 3472.0002Y100.01.DWG		



Client: SUNY NYS Center for CWT		Site: Bridge Gardens		Project Number: 3472.0002Y000	
Address: 36 Mitchell Ln		City/State: Bridgehampton, NY		Logged By: Nicholas Palumbo	
Start to Finish Date: 3/25/2022 - 3/25/2022		Contractor: Eastern Environmental Solutions		Drill Type: Geoprobe	
Borehole Depth: 30 feet		Backfill: Soil Cuttings		Sampler Type/Method: 2" Macro-Core	
Area: NM		Elevation: 20.0' bottom		Northing: NM	
				Easting: NM	

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
0	SW-SM		Brown, fine to medium SAND and SILT; moist.				
0 - 4			Light brown, fine to coarse SAND, little gravel; moist.		4		
4 - 8					4		
8 - 12	SWG				4		
12 - 16					4		
16 - 20					4		
20 - 24	SWG		Light brown, fine to coarse SAND, some Gravel; moist.		4		
24 - 27					4		
27 - 30	SWG		Light brown, fine to coarse SAND, little gravel; moist.		3		Boring end at 20.0' NAVD el. No Groundwater observed.

ROUX STANDARD LOG - 4/7/22 18:34 - S:\GINTI\PROJECTS\3472.0002Y000_BRIDGE GARDENS SURVEY.GPJ

Bottom of borehole at 30 feet



Photograph 1: Location of proposed WTS and shrubs to be removed.



Photograph 2: Location of proposed leaching area.



Photograph 3: Location of existing septic tank (located on hill adjacent to wall)



Photograph 4: Soil boring core.

Town of Southampton
Community Preservation Fund - Water Quality Improvement Project

Peconic Land Trust
Vegetated Wetlands Treatment System for
Wastewater Nitrogen Removal at Bridge Gardens
Bridgehampton, New York

Additional Information Supplement
Spring 2022



Peconic Land Trust



Appendix C

Application Documents

(Checklist on Page 6 of CPF Application)

The following documents are provided:

- State Environmental Quality Review Act (SEQRA) Short Environmental Assessment Form (SEAF)
- Ownership Commitment Letter of Intent

The Project Budget is provided in the body of the application.

No text this page

Short Environmental Assessment Form

Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information				
Name of Action or Project:				
Project Location (describe, and attach a location map):				
Brief Description of Proposed Action:				
Name of Applicant or Sponsor:		Telephone:		
		E-Mail:		
Address:				
City/PO:		State:	Zip Code:	
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.			NO <input type="checkbox"/>	YES <input type="checkbox"/>
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval:			NO <input type="checkbox"/>	YES <input type="checkbox"/>
3. a. Total acreage of the site of the proposed action? _____ acres				
b. Total acreage to be physically disturbed? _____ acres				
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ acres				
4. Check all land uses that occur on, are adjoining or near the proposed action:				
<input type="checkbox"/> Urban	<input type="checkbox"/> Rural (non-agriculture)	<input type="checkbox"/> Industrial	<input type="checkbox"/> Commercial	<input type="checkbox"/> Residential (suburban)
<input type="checkbox"/> Forest	<input type="checkbox"/> Agriculture	<input type="checkbox"/> Aquatic	<input type="checkbox"/> Other(Specify):	
<input type="checkbox"/> Parkland				

5. Is the proposed action,	NO	YES	N/A
a. A permitted use under the zoning regulations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Consistent with the adopted comprehensive plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
b. Are public transportation services available at or near the site of the proposed action?	<input type="checkbox"/>	<input type="checkbox"/>	
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	<input type="checkbox"/>	<input type="checkbox"/>	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____ _____	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____ _____	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____ _____	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ _____ _____	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: <input type="checkbox"/> Shoreline <input type="checkbox"/> Forest Agricultural/grasslands Early mid-successional <input type="checkbox"/> Wetland <input type="checkbox"/> Urban Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	NO	YES
	<input type="checkbox"/>	<input type="checkbox"/>
16. Is the project site located in the 100-year flood plan?	NO	YES
	<input type="checkbox"/>	<input type="checkbox"/>
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: _____ _____	NO	YES
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)? If Yes, explain the purpose and size of the impoundment: _____ _____	NO	YES
	<input type="checkbox"/>	<input type="checkbox"/>
49. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____ _____	NO	YES
	<input type="checkbox"/>	<input type="checkbox"/>
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____ _____	NO	YES
	<input type="checkbox"/>	<input type="checkbox"/>
I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE Applicant/sponsor/name: _____ Date: _____ Signature: _____ Title: _____		

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PECONIC LAND TRUST



April 1, 2022

Lisa Kombrink, CPF Manager
Water Quality Improvement Committee
Town of Southampton
24 West Montauk Highway
Hampton Bays, NY 11946

**Subject: Letter of Intent
Spring 2022 CPF Grant Application
Peconic Land Trust - Bridge Gardens
36 Mitchell Lane, Bridgehampton, NY**

Dear Lisa:

This *Letter of Intent* relates to the replacement of the existing onsite septic system at Bridge Gardens with a Vegetated Wetlands Treatment System.

If the Trust is successful in receiving CPF Water Quality Improvement Project funds for this purpose, the Trust agrees that such funds will be used exclusively to upgrade the onsite septic system in compliance with the terms of the grant contract.

Please contact me if you have any questions or concerns. Thank you very much.

Sincerely,

A handwritten signature in black ink, reading "Matthew J. Swain".

Matthew J. Swain
Director of Stewardship & GIS