



Mitigation of Nitrogen Pollution in Southold

July 28, 2022 Southold-Peconic Civic Association Meeting Peconic Community Center





Agenda

Introductions

Nitrogen Pollution and Mitigation Projects, Valerie Virgona, PEP Outreach Coordinator

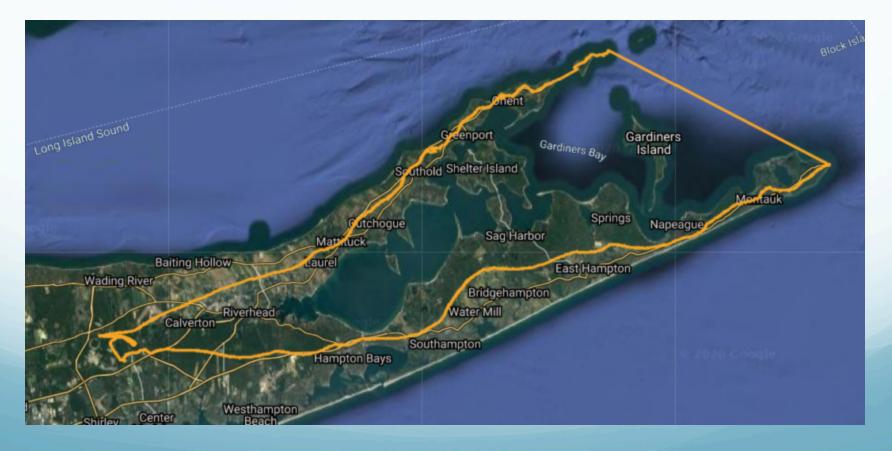
I/A Septic Systems and Financial Incentives Julia Priolo, Principal Environmental Analyst

Questions and Discussion



Peconic Estuary Partnership

- EPA designated National Estuary Program
- PEP works to restore clean water, protect and enhance vibrant ecosystems, and communicate sound science for nature-based coastal planning in the Peconic Estuary and its watershed.





Water Quality Monitoring & Research

- Nutrients, Pathogens, Toxics, Algal Blooms
- Atmospheric Deposition: Nitrogen and Mercury
- Eelgrass, River Herring, Wetlands



Sources of Excessive Nutrients and Pathogens

Cesspools

Septic

Peconic Estuary Partnership

SLAND'S PECON

TING AND RE



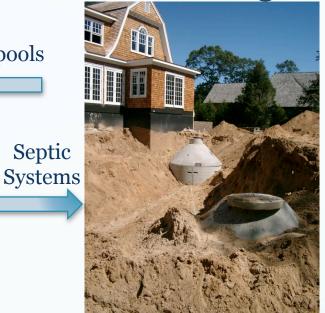


Residential Fertilizer









Animal Waste

Sewage **Treatment Plants**



Impact: Loss of Critical Habitat



Source: Gobler, 2016

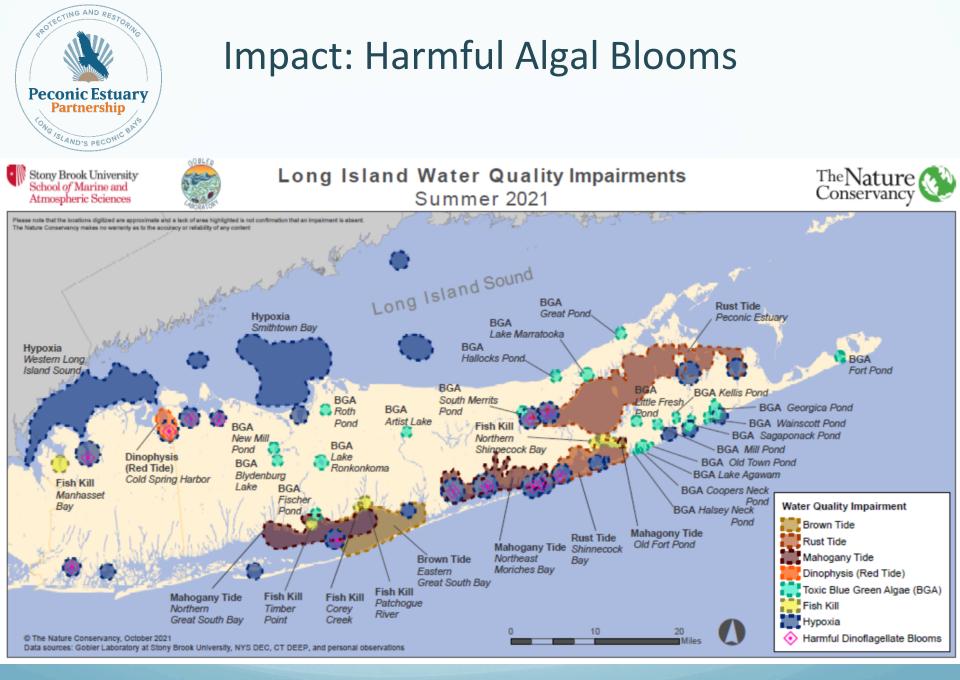
Peconic Estuary

AND'S PECC

- Salt Marsh is critical for a wide variety of marine and avian life
- Salt marsh filters terrestrial pollutants
- Increased Nitrogen suppresses roots and accelerates salt marsh disappearance on Long Island

- Eel grass is critical for marine life
- Nitrogen accelerates the loss of eel grass habitat on Long Island

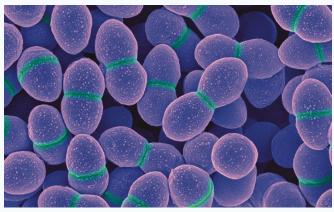


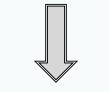


Source: State of the Bays, Dr. Chris Gobler, 2021



Impact: Health Hazard

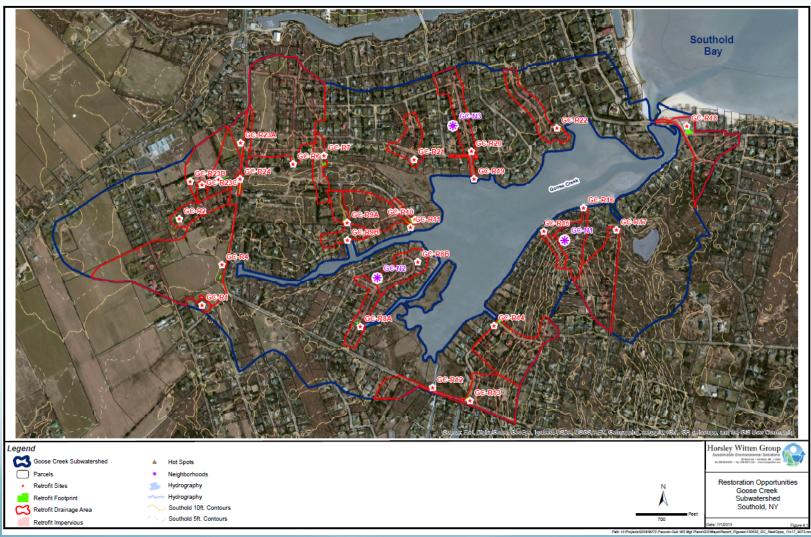








Goose Creek Subwatershed





Goose Creek Watershed

NYSDEC Priority Waterbodies List

New York State	Final 2018 S	June 2020				
Water Index Number	Waterbody Name (WI/PWL ID)	County Typ	e Class	Cause/Pollutant	Suspected Source	Year
	nt/Categorical Waterbody Segments Imp specific TMDL or a pollutant/source specific TMDL or o					
(MW6,1b) GB-SIS- 84-P423	Goose Creek (1701-0236) 7	Suffolk	Estuary SA	Fecal Coliform	Unknown	2018



Source: NYS DEC

Goose Creek Subwatershed Stormwater and Direct Discharge



Pollution in Stormwater

•Nutrients

•Bacteria from animal wastes and illicit connections to sewerage systems

- •Oil and grease from automobiles
- •Sediment from construction activities
- •Careless application of pesticides, herbicides and fertilizers
- •Litter

Goose Creek Peconic Estuary Partnership Stormwater Management Project

TING AND RE





- Collaboration between the Town of Southold and the Peconic Estuary Partnership
- 60% of cost funded by Town of Southold
- 40% of cost funded by PEP EPA BIL Funds
- Town of Southold will be constructing this project
- 7 total outfalls will be eliminated



Homeowner Rewards Program

- Incentivizes Homeowners to incorporate Rain Gardens, Rain Barrels, and Native Plants on their property.
- Homeowners can earn up to \$500 to offset the expense of installing green infrastructure on their properties.

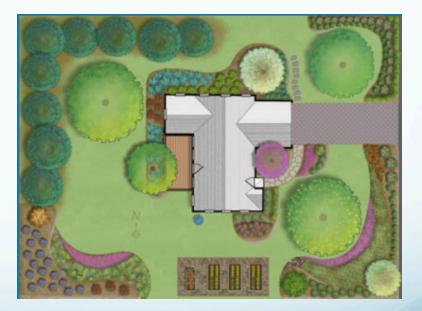






Homeowner Rewards Program

- For more information, visit our website: <u>https://www.peconicestuary.org/what-you-can-do/homeowner-rewards-program/</u>
- PEP Interactive Yard Tool
- Native Plant Species Database
- Native Plant Garden, Rain Garden, and Rain Barrel Installation Instructions
- Fertilizer Recommendations
- Homeowner Rewards Program Application!

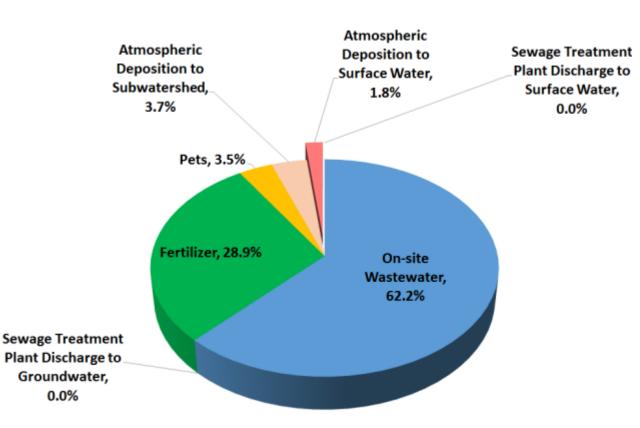


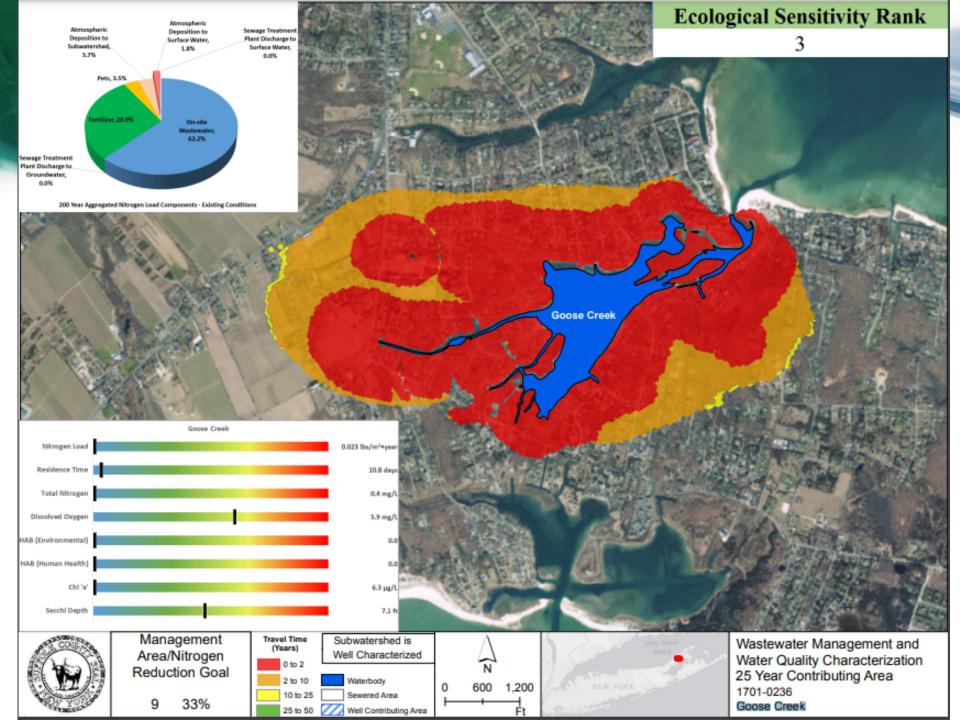
SUFFOLK COUNTY RECLAIM OUR WATER INITIATIVE

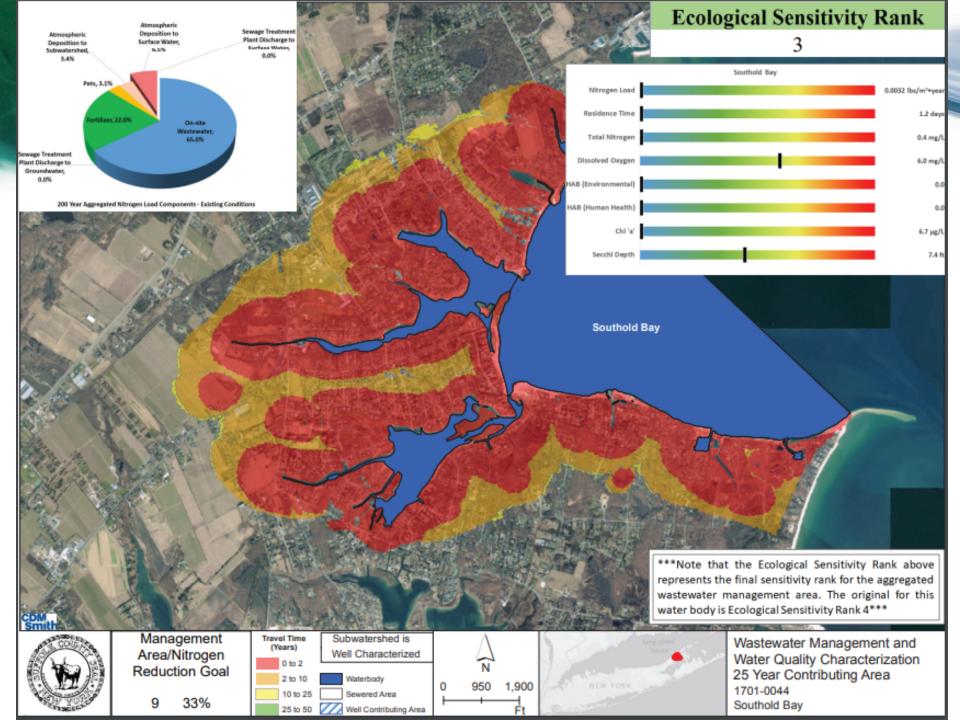


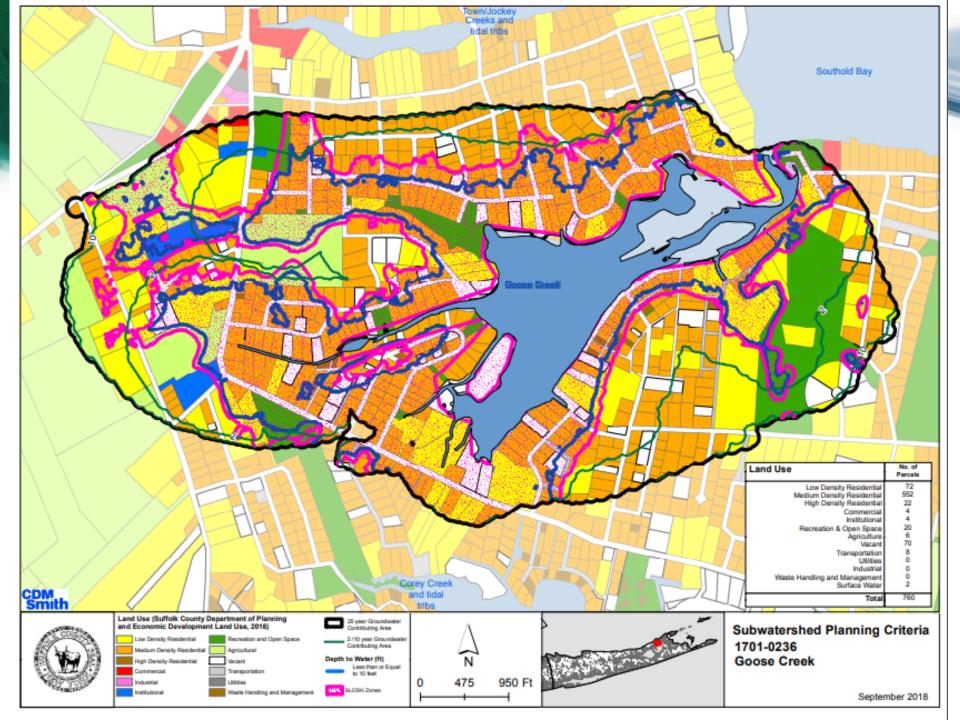
JULY 28, 2022 JULIA PRIOLO, PRINCIPAL ENVIRONMENTAL ANALYST SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES JULIA.PRIOLO@SUFFOLKCOUNTYNY.GOV

Goose Creek









I/A OWTS IN SUFFOLK COUNTY INNOVATION & ALTERNATIVE ONSITE WASTEWATER TREATMENT SYSTEMS





I/A OWTS WITH GENERAL USE APPROVAL



Hydro-Action

Date: December, 2021 Provisional Average: 11.1 mg/l TN



Fuji Clean System

Date: February, 2022 Provisional Average: 10.2 mg/l TN



I/A OWTS with Provisional Use Approval

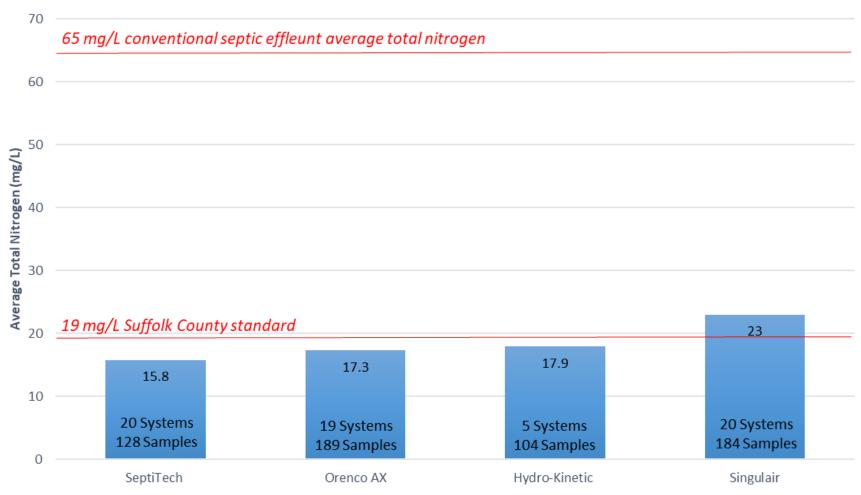




Norweco Singulair TNT

Additional I/A OWTS technologies permitted for use in Suffolk County under Experimental and Pilot Approval https://www.reclaimourwater.info/Regulatory.aspx







I/A OWTS INSTALLATION



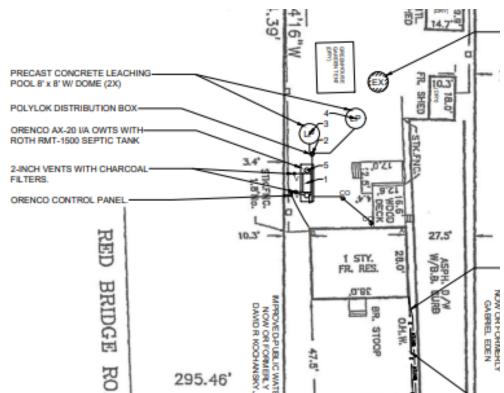


I/A OWTS INSTALLATION



ORENCO AX-20







HYDRO-ACTION





HYDRO-ACTION





FUJICLEAN





Stational Streams Street



CONTROL PANELS & AIR VENTS



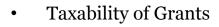
SUFFOLK COUNTY SIP & NY STATE GRANTS

- Suffolk County Septic Improvement Program (SIP)
 - \$10,000 base grant
 - Add'l \$5,000 for pressurized shallow drainfield leaching system
 - Add'l \$5,000 for installation for LMI eligible applicants
 - Potential add'l \$5,000 for design services for LMI eligible applicants
- > NY State Septic System Replacement Program (SSRP)
 - Up to \$10,000 grant
- Low Interest Loan Program with CDCLI
 - Up to \$10,000 loan
- Town CPF Funds
 - Southampton, East Hampton & Shelter Island
- Grant funding enables Suffolk County to implement upgrades in accordance with the timeline in the Subwatersheds Wastewater Plan.

SUFFOLK COUNTY SEPTIC IMPROVEMENT PROGRAM (SIP) IMPORTANT PROGRAM DETAILS



- County SIP is not designed as a reimbursement program. Applicants must apply for a grant <u>prior to installation</u> of the I/A OWTS.
- Applicants must select a Vendor on the County's Approved List, established through a SOQ Process.
- Applicants assign their grant payment directly to the Vendor for County. Payments are then made by the County to the Vendor.
- State SSRP grants may be processed as a reimbursement. Where an applicant <u>is only applying for a State SSRP grant</u>, Vendor is not required to be on County List. For most applications, we couple County and State grants so applications utilizing both funding sources would need to use a contractor on our SOQ List.
- Grants and Reimbursements may be subject to federal and/or state taxes. Applicants should consult their own tax, legal and accounting advisor(s) regarding tax implications.
- Audit and Control will not process payments unless there is a W-9 from the applicant on file.
- If property is owned by Trust, LLC, or Corporation, additional documentation is required.









Approved I/A OWTS Installer List for SIP

Suffolk County NY - Septic Improvement Program - 4 Bedroom Quote List I/A OWTS Vendor List Contact Information						
Vendor	Contact Information					
A&A Sewer and Drain Maintenance Inc.	aasewerdrain@gmail.com	631-849-1599				
Beltran Cesspools	beltrancesspools@gmail.com	631-582-0222				
Brian V. Klug, Landscaper, Inc.	brianvan@kluglandscaper.com	631-325-1208				
Cardo Site Development, Inc.	<u>cardosite@yahoo.com</u>	631-653-4377				
Clear River Environmental	Dwarren@clearriver.us	Eastern Suffolk: 631-298-7749				
		Western Suffolk: 631-467-5447				
CMM Sitework, Inc.	info@cmmsitework.com	631-286-3650				
Direct Drainage	DirectDrainage@aol.com	631-472-0677				
Diversified Services of Water Mill, Inc.	office@diversifiedli.com	631-324-6933				
East End Excavating Corp.	eastendexcavating@gmail.com	631-324-1718				
Eastern Site Development	info@easternsitedevelopment.com	631-209-4240				
Excav Services, Inc.	brandon@excavservices.com	631-687-9507				
Guillo Contracting Corp.	nicole@guillocontracting.com	631-727-5702				
J&C Contracting of East Hampton Inc.	carlopez@optonline.net	516-885-0400				
John Willis Co., Inc.	johnwilliscesspool@gmail.com	631-758-6338				
Ken Rousell, Inc.	kristin@kenrousellinc.com	631-288-2545				
Micro Earth Moving Inc.	microearthmoving@yahoo.com	631-725-1236				
Noyack Trucking & Excavation LLC	heather@noyackte.com	631-204-9367				
Quakenbush Cesspools	QuackCesspools@gmail.com	631-907-4426				
Roman Stone Systems LLC	tmontalbine@romanstonesystems.com	631-667-0566 Ext.114				
S.L. Worby & Son, Inc.	<u>cworby@optonline.net</u>	631-653-9300				
Shelter Island Sand, Gravel & Contracting Inc.	sisandgravel@gmail.com	631-749-1040				
South Fork Septic	john@southforkseptic.com	631-283-0333				
SYP Industries	sypindustries@gmail.com 631-924-1703					

SUFFOLK COUNTY SIP & NY STATE SSRP HISTORY

- Suffolk County SIP Implemented July 2017; NYS SSRP Began October 2018
- Suffolk County Invested \$21,700,000.00 in Grant Funding
 - Plus Additional \$4,500,000.00 in Grant Funding recently awarded to the County SIP Program
- New York State Invested \$20,050,000.00 in Grant Funding in Suffolk County
 - In response to request for 3rd disbursement of funds, on 7/7/22 Governor Hochul Announced an Additional \$20 Million towards the NYS SSRP Grant Funding in Suffolk County
- Grant funding* enables Suffolk County to implement upgrades in accordance with Subwatersheds Wastewater Plan, prior to the establishment of a Countywide Wastewater Management District and Countywide Water Quality Protection Fund

Septic Improvement Program Update

➢ As of July, 2022:

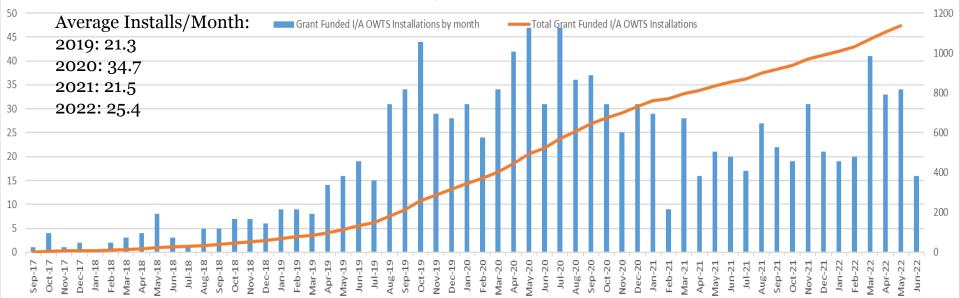
- 3,444 Applications submitted through the ROW website
- 1,910 Total <u>County SIP</u> Grants Issued
 - 600 County SIP Grants Currently Active
- 1,949 Total <u>NYS SSRP</u> Grants Issued
 - 700 NYS SSRP Grants Currently Active
- 1,158 Grant Funded I/A OWTS Installations
- \$11.5M County SIP Funds Paid
 - Over \$20M Allocated to Grant Awardees
- \$10.9M NYS SSRP Funds Paid
 - Over \$17.9M Allocated to Grant Awardees

<u>Average Applications</u> <u>Received per Month</u> 2017: 30 2018: 17 2019: 70 2020: 77 2021: 74 2022: 77

SUFFOLK COUNTY SIP & NY STATE SSRP - INSTALLATIONS

Year	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Year Total
2017	-	-	-	-	-	-	-	-	1	4	1	2	8
2018	0	2	3	4	8	3	1	5	5	7	7	6	51
2019	9	9	8	14	16	19	15	31	34	44	29	28	256
2020	31	24	34	42	47	31	47	36	37	31	25	31	416
2021	29	9	28	16	21	20	17	27	22	19	31	21	260
2022	19	20	41	33	34	16	4						167
	Total	of 1.1	58 SIP 8	& SSRI	P Fund	ded I/A	A OW	TS Insta	llation	s as c	of $7/21$	/2022	

Grant Funded I/A OWTS Installations





I/A OWTS SOUTHOLD TOWN

- ➢ 256 County SIP and NYS SSRP Grant Applications
- ▶ 134 County SIP and NYS SSRP Grants Issued
- ➢ 70 County SIP and NYS SSRP Grant Funded Installations

Year	SIP I/A OWTS Installations in Southold Town				
2017	1				
2018	2				
2019	12				
2020	24				
2021	15				
2022	16				
Total	70				



REVISED SIP RULES AND REGULATIONS***

1. Prioritize Grant Issuance for Public Health and Safety Concerns

- ✓ Modify Grant Application Scoring
- \checkmark Add Definitions for Catastrophic and Non-Catastrophic Failure
- 2. Upgrade Priority Areas Maps using SWP Mapping
 - ✓ Add-in Drinking Water Protection

***Revised Rules and Regulations are intended to expedite grant issuance for homeowners with failed sanitary systems and to establish priority areas for the protection of drinking water. These revisions are in effect and the website is presently under revision.

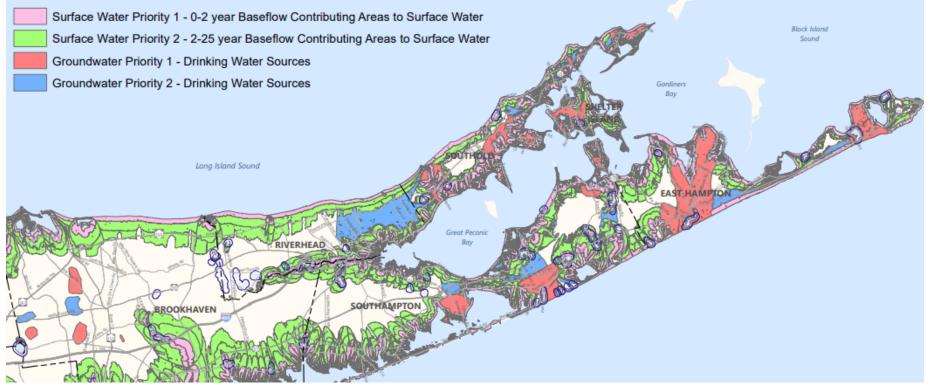
NEW SIP GRANT APPLICATION SCORING

- 100 Catastrophic Failures, regardless of the property location
- 90 Non-Catastrophic Failures, regardless of the property location
- 80 Non-Failures, Priority Area 1
- 70 Non-Failures, Priority Area 2
- 60 Non-Failures, Non-Priority Area



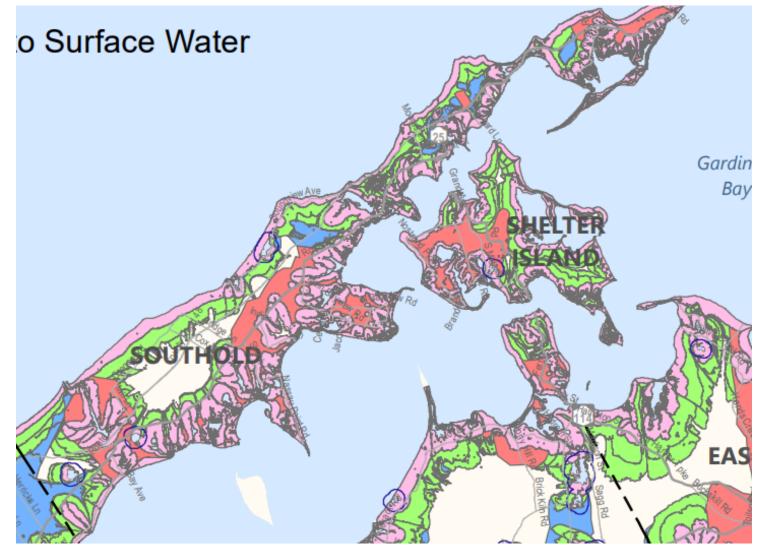
UPDATED PRIORITY AREA MAP

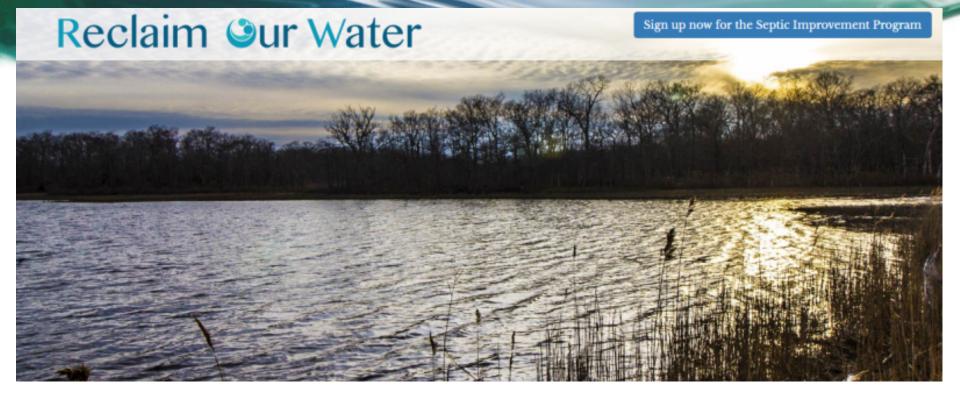
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UPDATED PRIORITY AREA MAP





WWW.RECLAIMOURWATER.INFO

QUESTIONS?

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631-852-5811





Thank you!

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