

SUFFOLK COUNTY'S SEPTIC IMPROVEMENT PROGRAM (SIP)

August 25, 2020



WWW.RECLAIMOURWATER.INFO

JUSTIN JOBIN, ENVIRONMENTAL PROJECTS COORDINATOR
JUSTIN.JOBIN@SUFFOLKCOUNTYNY.GOV
631-852-5811



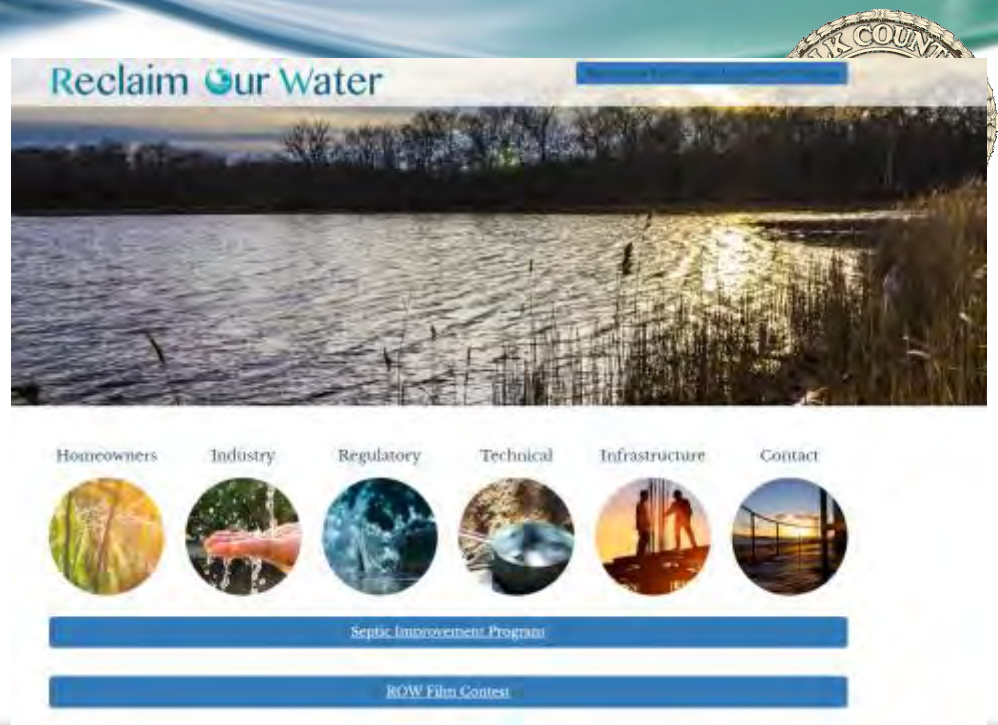
❏ Why we are worried about Nitrogen Pollution

- ❑ Evolution to Use of Nitrogen Reducing Septic Systems in Suffolk County
- ❑ Suffolk County and New York State IA OWTS Grant and Loan Programs



FujiClean System Installed 2/26/2020 in Sayville

Reclaim Our Water



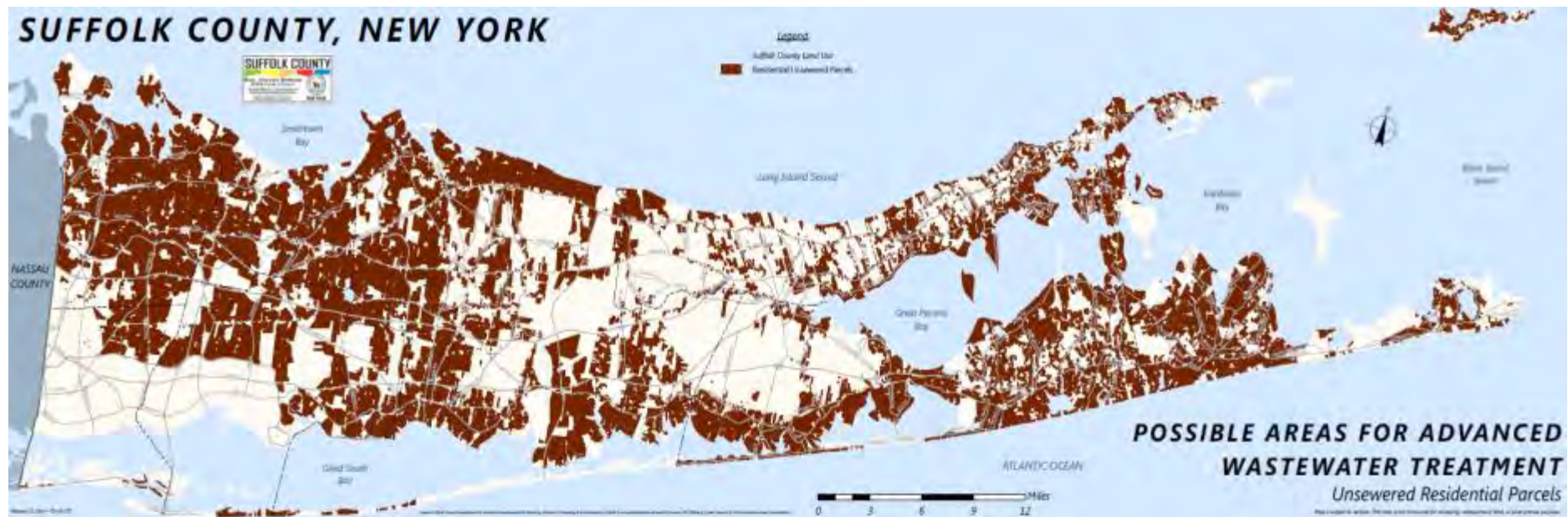
“We are a county that will no longer allow our water quality crisis to go unaddressed, but will come together to Reclaim Our Water.”

SUFFOLK COUNTY EXECUTIVE STEVE BELLONE
2014 State of the County



74% NON-PERFORMING WASTEWATER TREATMENT

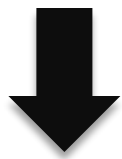
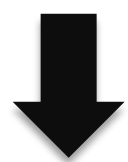
- Approximately 360,000 onsite sewage disposal system
- 209,000 systems in priority areas
- Approximately 252,530 pre-date requirement for septic tank





SETTING THE STAGE FOR THE SOLUTION TO NITROGEN POLLUTION:

Evolution to the Use of Innovative Treatment Systems



INNOVATIVE
ONSITE
SYSTEMS

PREPARING
THE
INDUSTRY

RESPONSIBLE
MANAGEMENT
ENTITY

CODE
AMENDMENTS

PUTTING NEW
TECHNOLOGIES
IN PLACE



PILOT
PROGRAM

LICENSING
LAW

ENACTED
ARTICLE 19

WORKING
GROUPS

IDENTIFY
PRIORITY AREAS
FOR ADVANCED
TREATMENT



CERTIFICATIONS

TRAINING

REGULATE
INSTALLATIONS
AND MAINTENANCE

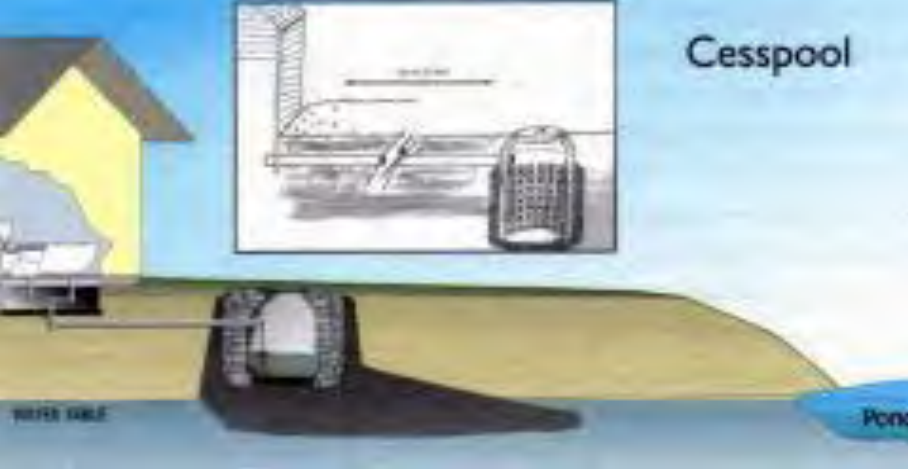
UPDATES OF
OUTDATED
REGULATIONS

FUNDING
MECHANISM



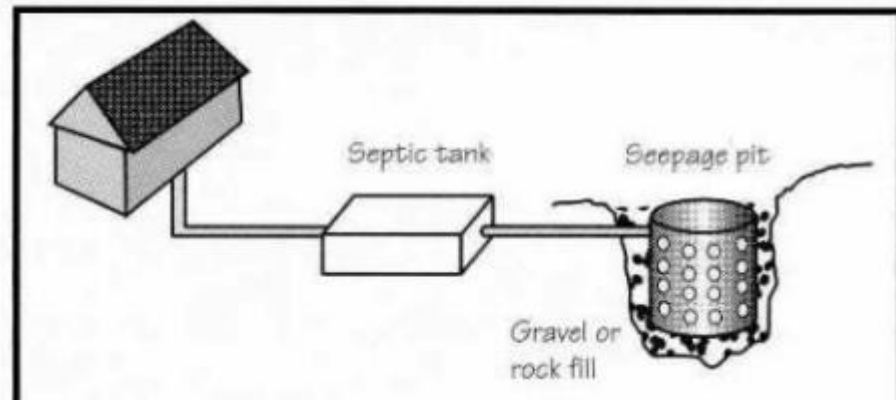
Cesspools

~ 250,000 in Suffolk County
banned from new const. in 1973
Since July 1, 2019 homeowners can
no longer replace a cesspool with
another cesspool need a Conv.
Septic at minimum



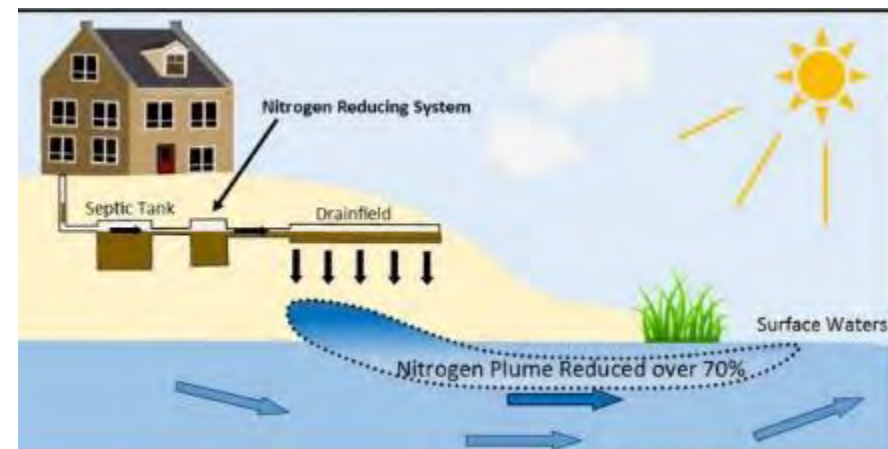
Conventional Septic System

~ 110,000 in Suffolk County
Consists of Septic Tank and Leaching
Structure, required on new construction since
1973. This is the minimum code compliant
system permitted to be installed for a
replacement or retrofit beginning 7/1/19

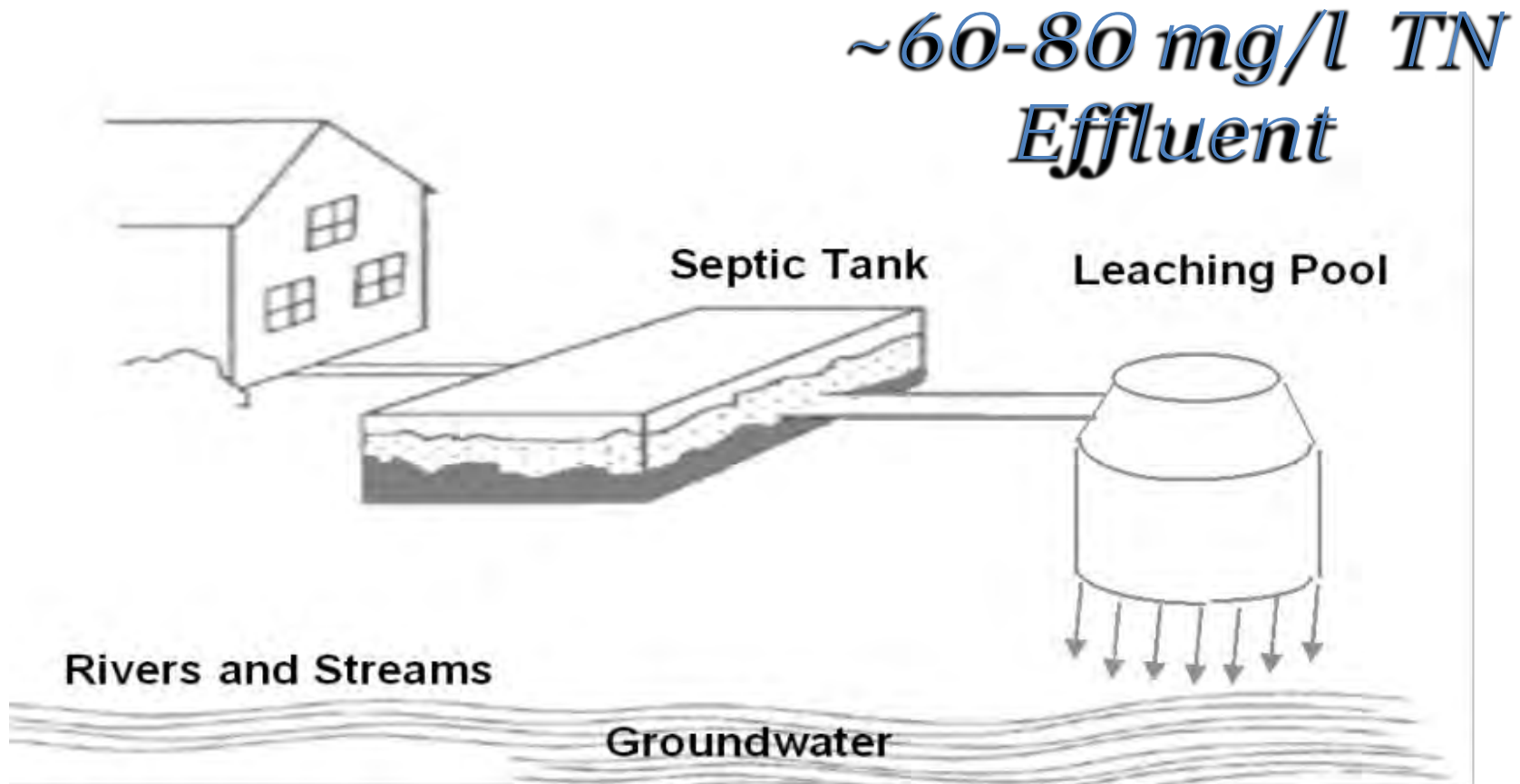


I/A OWTS

~ 1,000 in Suffolk County
Advanced treatment systems that reduce
BOD, TSS and remove up to 70% of Total
nitrogen. Allowed on Voluntary basis in SC
since 2016



Conventional Sanitary Systems



****INNOVATIVE & ALTERNATIVE ONSITE WASTEWATER TREATMENT SYSTEM (I/A OWTS)WILL REMOVE ~50 -70% OF TOTAL NITROGEN COMPARED TO CONVENTIONAL SYSTEM**



STARTING JULY 1, 2019

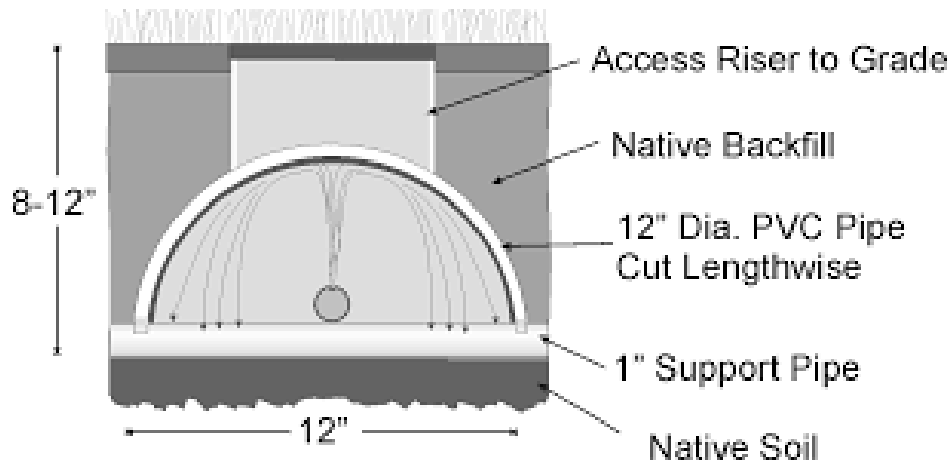
- Permits/filing for replacements or retrofits of existing sewage disposal systems are required
- Require filing indicating system components installed when property owner decides system needs to be replaced/retrofitted
- Require installation of a system substantially conforming to standards (Best-Fit)
 - Current standards require a septic tank + leaching structure at a minimum





THE PRESSURIZED SHALLOW DRAINFIELDS (PSDs)

- Pressurized drainfields that evenly and horizontally distribute treated effluent within 18 inches of the top soil horizon.
- Emphasis on increased microbial activity and nutrient absorption.
- Treated effluent reductions up to 50% TN





PRESSURIZED SHALLOW DRAINFIELD

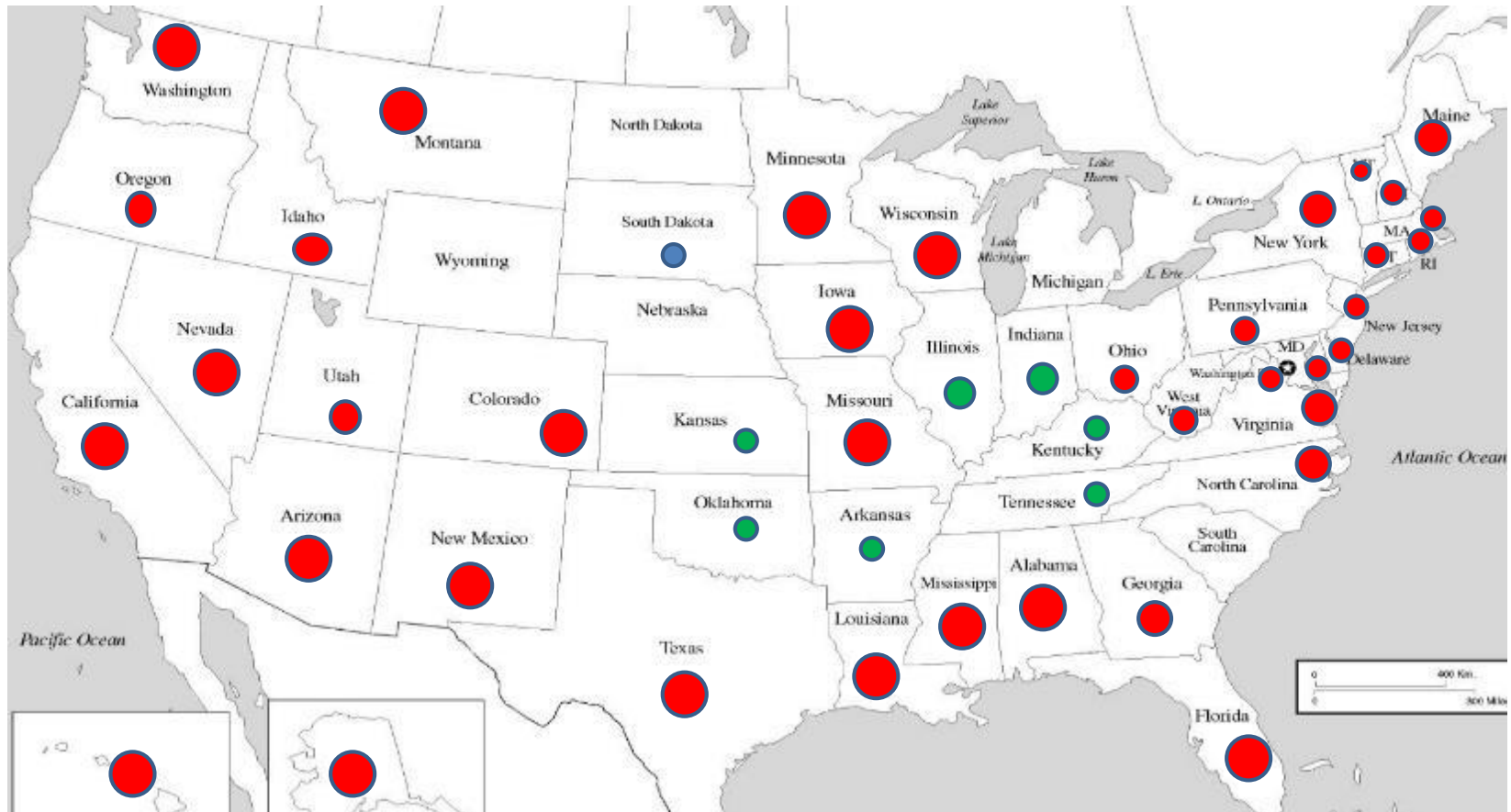
A Cheaper and Better Performing Alternative to Mounded Systems

- Typical cost of I/A OWTS to PSD
\$26,000
- Typical Cost of Conventional System
with Mounded Retaining Wall
\$45,000





STATES WITH I/A OWTS

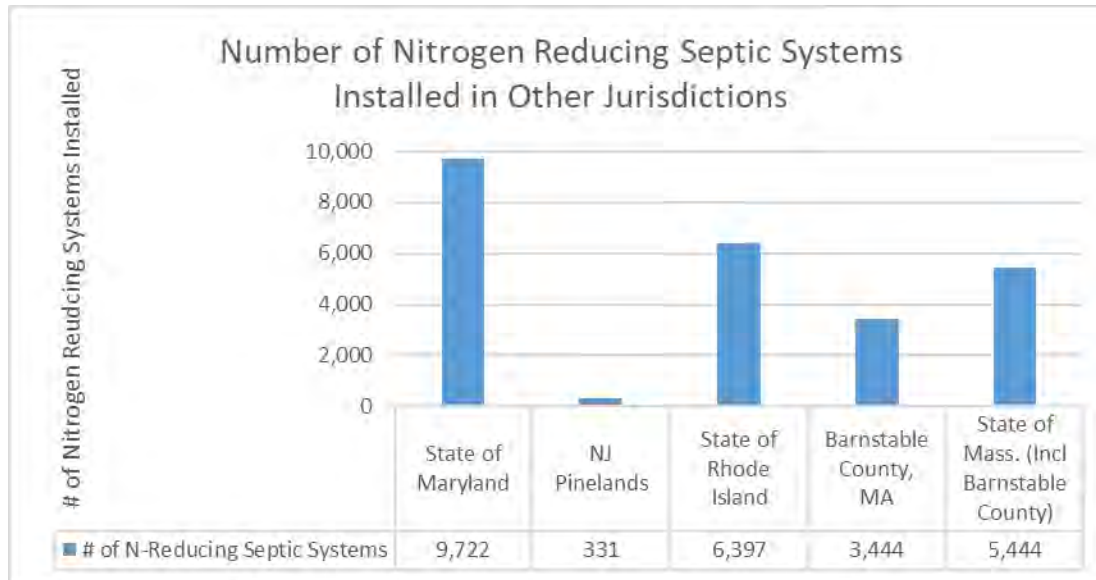


- 37 States + Washington DC & US Virgin Islands with I/A OWTS for Nitrogen Reduction (NSF 245)
- 7 States + Puerto Rico with I/A OWTS for BOD/TSS (NSF 40)
- 1 State with I/A OWTS for Nitrogen Reduction for Commercial Applications only

Sources: SCDHS Research based on <https://www.epa.gov/septic/advanced-technology-onsite-treatment-wastewater-products-approved-state>, & individual State and County Data.

I/A OWTS IN PROXIMATE JURISDICTIONS

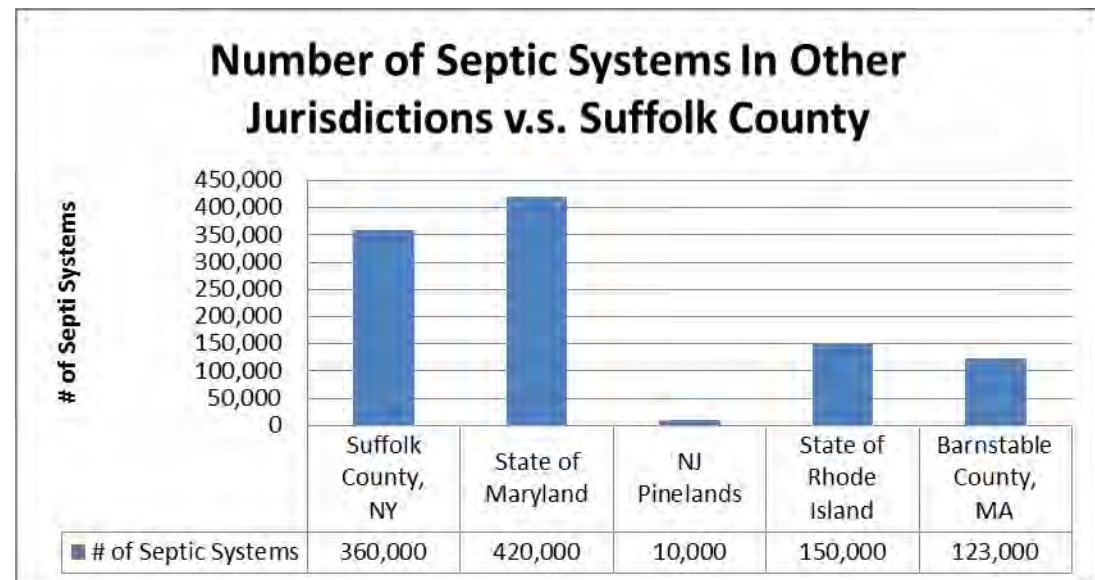
3/9/2020



Jurisdiction	Year I/A's gained acceptance
Barnstable County, MA	1992-1995
Rhode Island	1999
Maryland	2005
Suffolk County, NY	2016

~1,000 I/A OWTS
Installed in Suffolk
County as of 6/1/2020

~ **Total # of I/A's**
Installed in MD, NJ
Pinelands, RI, Mass
21,894





I/A OWTS IN PROXIMATE JURISDICTIONS INSTALLATIONS BY DECADE

Jurisdiction	I/A OWTS INSTALLED BY DECADE		
	1999 or prior	2000 - 2009	2010 - 2019
State of Rhode Island	33	2,490	3,874
Barnstable County, MA	214	2,127	1,103
Anne Arundel County, MD	160	717	1,454
TOTAL	407	5,334	6,431





PROVISIONALLY APPROVED I/A OWTs

Amount Based on Wastewater Permit Applications Submitted as of 6/1/2020

TOTAL APPLICATIONS = 1,988



Hydro-Action - 649



Fuji Clean System - 859



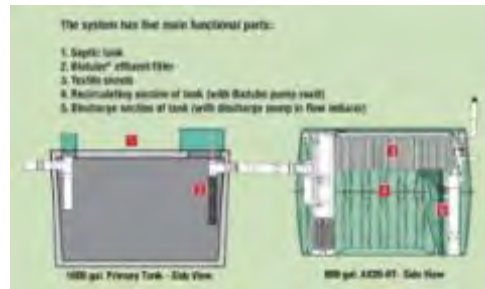
**Norweco
Singlair TNT - 328**



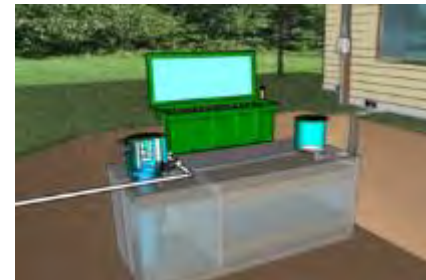
**Norweco
Hydrokinetic - 7**



**SeptiTech
STAAR- 101**



**Orenco Advantex
AX-RT - 35**



**Orenco Advantex
AX-20 - 7**



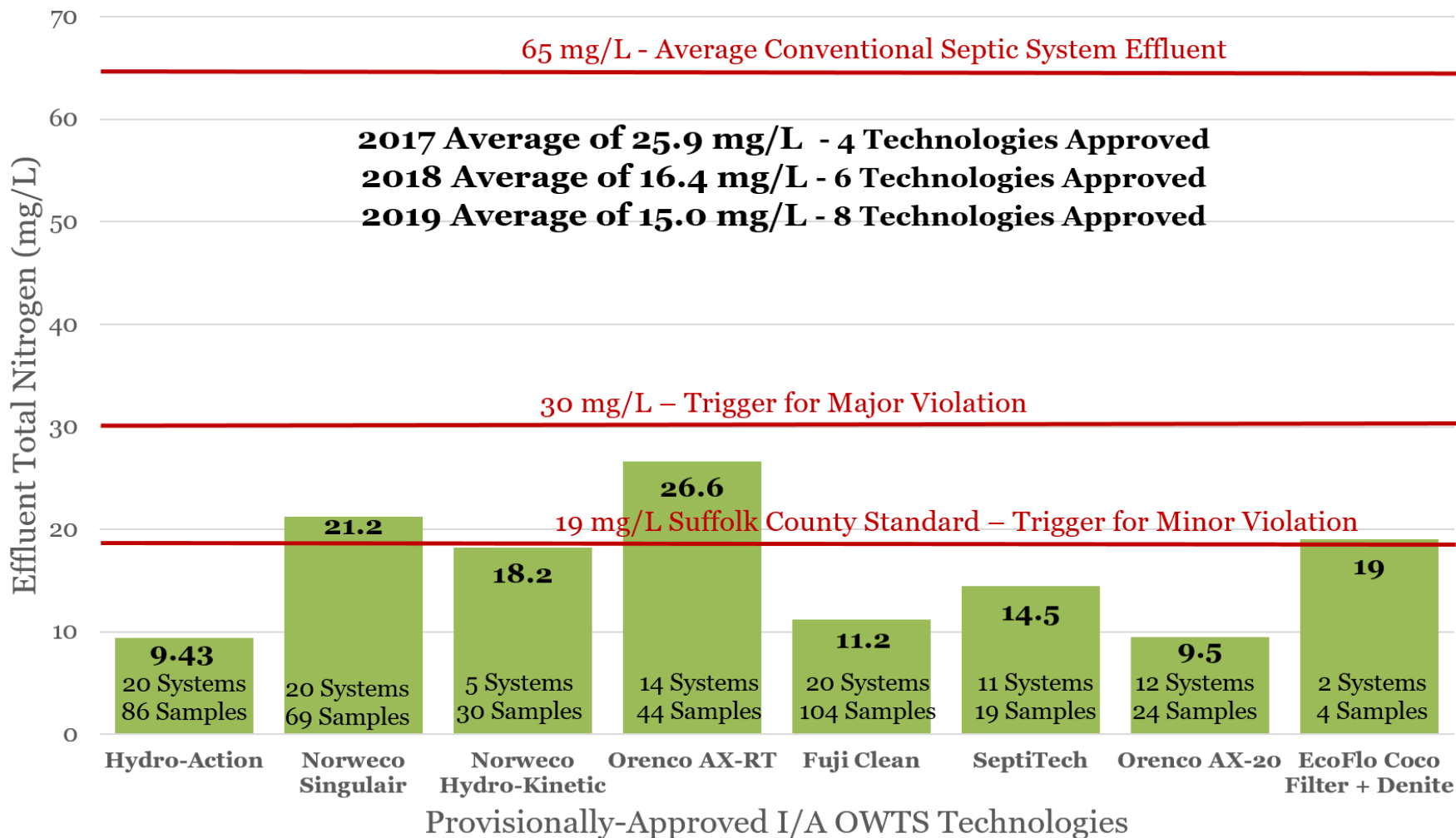
**Ecoflo Coco Filter
+ Denite - 2**



I/A OWTS Long-Term
Performance in
Suffolk County, NY



12-MONTH BI-MONTHLY SAMPLING RESULTS FOR PROVISIONALLY-APPROVED I/A OWTS (1/2019 - 12/2019)





EXPERIMENTAL PHASE SYSTEMS

NYS CENTER FOR CLEAN WATER TECHNOLOGY AT
STONY BROOK UNIVERSITY

NITROGEN REDUCING BIOFILTER PERFORMANCE

NRB Technology	Amount of Systems Installed in Suffolk	Samples Taken by SCDHS	Cumulative Average TN
Unlined NRB	3 (1 is out of service)	27	10.7 mg/L
Lined NRB	3	19	11.4 mg/L
Box NRB	1 (2 pending installation)	5	4.0 mg/L

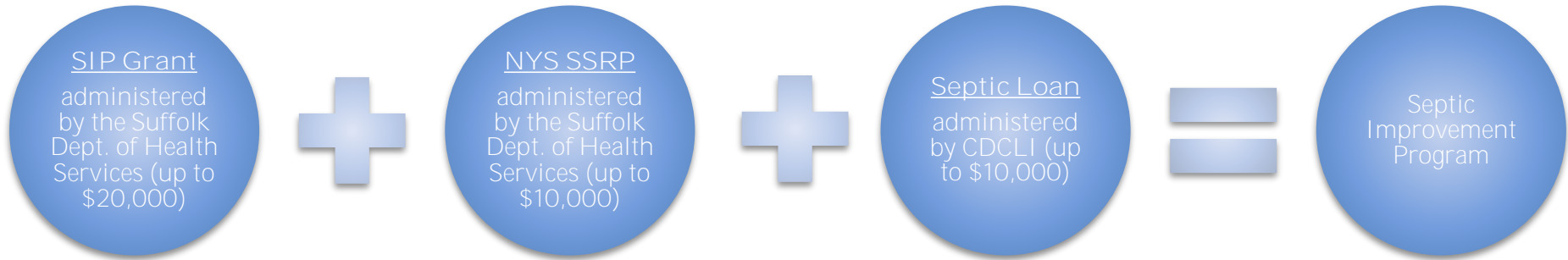
Based on cumulative data through 12/31/2019



Suffolk County Septic Improvement Program (SIP)



SEPTIC IMPROVEMENT PROGRAM (SIP) OVERVIEW



SUFFOLK COUNTY GRANT PROGRAM DETAILS:

- Individual property owners may be eligible for a Suffolk County base grant up to \$10,000 and an additional.
- An additional \$5,000 may be available for installation of a Pressurized Shallow Drainfield (PSD)
- An additional \$5,000 may be available for Low to Moderate income property owners.
- **Design services are not eligible expenses under the County program.**
- Sales tax and permit fees are not eligible expenses under the County Program

NEW YORK STATE GRANT PROGRAM DETAILS:

- Individual property owners may be eligible to receive a State grant of 50% of the eligible costs up to \$10,000.
- Pumping and decommissioning of the existing system is not an eligible expense under the State Program.
- The included three (3) years of operation and maintenance (O&M) are not eligible expenses under the State Program.
- Sales tax and permit fees are not eligible expenses under the State Program.

DETAILS OF LOAN PROGRAM ADMINISTERED BY CDCLI FUNDING CORPORATION:

- Individual homeowners may be eligible for low cost financing up to \$10,000, which can be used to cover State and County ineligible expenses.
- Competitive 3% interest rate with repayment term of up to 15 years, which amounts to \$69.06 monthly or \$828.72 annually



GRANT ELIGIBILITY CRITERIA:

- ✓ The residence must be served by a septic system or cesspool and is not connected to a public sewer or located in any sewer district or any proposed sewer district.
- ✓ New construction is not eligible; however construction projects on existing residences may be eligible.
- ✓ Availability of valid Certificates of Occupancy (CO) or Certificate of Zoning Compliance for the residence.
- ✓ For Low-to-Moderate Income Incentive Grant
 - ✓ Income verification (Provide a copy of owner (s) most recently filed federal income tax return).





SUFFOLK COUNTY SEPTIC IMPROVEMENT PROGRAM (SIP) IMPORTANT PROGRAM DETAILS

- County SIP is not designed as a reimbursement program. Applicants must apply for a grant prior to installation 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 is only applying for a State SSRP grant, 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.





The Grant Application Process



THE GRANT APPLICATION PROCESS

Reclaim Our Water

Sign up now for the Septic Improvement Program



Homeowners



Industry



Regulatory



Technical



Infrastructure



Contact



Septic Improvement Program Overview

Nitrogen pollution from cesspools and septic systems has been identified as the largest single cause of degraded water quality contributing to beach closures, restrictions on shellfishing, toxic algae blooms, and massive fish kills. A conventional onsite septic system was never designed to remove nitrogen. The average residential septic system discharges approximately 40 pounds of nitrogen per year. For homeowners close to surface waters in Suffolk County nitrogen can rapidly reach surface waters where it contributes to degradation of our marshes, bays, and beaches. Even inland, nitrogen from septic systems will eventually reach the groundwater and surface waters.

Thousands of parcels are currently served by polluting cesspools and septic systems, but will never connect to a sewer system. Reversing degradation of water quality will depend on replacement of existing systems with new, individual Innovative and Alternative Onsite Wastewater Treatment Systems (I/A OWTS).

Over the past several years, Suffolk County has assertively set the stage for the transition to the use of these new systems. To make the cost of I/A systems that remove nitrogen to protect water quality more affordable for homeowners, Suffolk County has developed the Septic Improvement Program. Under the Reclaim Our Water Septic Improvement Program, homeowners who decide to replace their cesspool or septic system with the new technologies will be eligible for a grant of up to \$30,000 from Suffolk County and New York State to offset the cost of one of the new systems. In addition to the grant, homeowners can qualify to finance the remaining cost of the systems over 15 years at a low 3% fixed interest rate. The loan program will be administered by Community Development Corporation of Long Island Funding Corp, with financial support from Bridgehampton National Bank, in the amount \$1 million and financial commitments from several philanthropic foundations.

*Note: The **average** total cost for approved systems, including attendant engineering and design services, is approximately \$19,200. *Costs will vary on a case-by-case basis.* Please review our documents detailing the [estimated engineering costs](#), [estimated vendor costs](#), and [costs associated with owning an I/A OWTS](#).

Grant Eligibility Criteria:

In order for an application to be considered for a grant the following preliminary criteria must be met:

- The residence must be served by a septic system or cesspool and not connected to a sewer system or located within a proposed sewer district.
- New construction on vacant lots is not eligible.
- Property does not have any outstanding or open real property tax liens.
- There must be a valid certificate of occupancy (CO) or equivalent issued by the applicable town or village.
- Income verification (Property Owners must provide a copy of each property owner's most recently filed federal income tax return).

Please note that in order to complete the application process, you will be required to submit the following documents:

- Copy of property deed
- Proof of Homeowner's Insurance
- Copy of most recent property tax bill
- Copy of Certificate of Occupancy or equivalent
- If applicable: the first two pages of property owner(s)' latest year's tax return along with signature page.

Links:

[YouTube Video on Septic Improvement Program](#)

[Septic Improvement Program FAQ](#)

[Overview of Provisionally Approved Technologies](#)

[Rules and Regulations](#)

Grant Information

[Map of Priority Areas](#)

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[Frequently Asked Questions](#)

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[I/A Vendor Cost Ranking](#)

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Septic Improvement Program - Homeowner Process Overview

For More Information visit www.ReclaimOurWater.info or
Call the Suffolk County Department of Health Services at (631) 852-5811.

How Does the Septic Improvement (SIP) Grant / Loan Program Work?

Important Information Before You Apply for the Septic Improvement Grant

Online Applications are available at www.ReclaimOurWater.info. Homeowners should gather the following required documents prior to beginning the application process:

- Copy of property deed
- Proof of Homeowner's Insurance
- Copy of most recent property tax bill

Reclaim Our Water

Suffolk County's Septic Improvement Program Understanding the Installation Process

1) Pre-installation photo of home on Shinnecock Bay with failing cesspool susceptible to overflows



2) Installation photo of new Orenco AX20-RT unit to a pressurized shallow drainfield.

Note: There will be extensive site disruption during installation

3) Completed installation photo



Note: the lids to finished grade as this is a requirement for these systems.

Note: It is recommended to give the soil time to settle before the contractor does final grading of site

Reclaim

SEPTIC IMPROVEMENT

What I/A OWTS Have

Covers to Grade:

Covers provide access to your septic system and must remain fully accessible.

Control Panels:

Control Panels are the brains of the I/A OWTS. They should be protected from weather and vandalism.

Annual Operation & Maintenance:

The first three years are covered as part of the grant. Homeowners will need to sign a contract with a responsible party for maintenance costs anticipated that O&M will cost approximately \$500 per year.

Increased Annual Electrical Cost

Depending on the treatment process either runs continuously or on-demand, the systems that an annual electric costs ranging from \$500 to \$1000.

Repair and Replacement Costs:

Homeowners should be aware that although I/A OWTS have a long track record of use in the USA, they do contain components such as pumps, floats, air compressors, and controls that may need to be replaced at some point during the useful life of the system. These component repair and replacement costs could range from \$50 to \$200.

Pumping Costs:

Although these systems provide advanced treatment, they will still need to be occasionally pumped by a septage hauler. Depending on use of the system, it is estimated that the average system would need to be pumped out every 3-5 years. This increases the treatment and useful life of any sewage disposal system including I/A OWTS. A typical pump-out is estimated to cost \$300 - \$500.

Reclaim Our Water

Overview of Provisionally Approved Technologies

What is Provisional Approval?

The Department of Health Services promulgated standards under Article 19 of the Suffolk County Sanitary Code that outlines the Approval Process of I/A OWTS Technologies. Systems provisionally approved in Suffolk County have a proven track record in other Eastern States such as New Jersey, Massachusetts, Rhode Island and Maryland. In addition, these systems have been rigorously tested in Suffolk County to ensure that they function as advertised. Suffolk County is one of the few jurisdictions that requires long term monitoring of the systems to ensure that homeowners are getting the best performance out of their water quality investment.

How do the Provisionally Approved Technologies Reduce Nitrogen?

Currently, all of the four Provisionally Approved Technologies in Suffolk County rely on biological processes to treat wastewater and convert and remove nitrogen. These systems use various methods to provide aerobic bacteria to convert organic nitrogen to nitrite and then use an anaerobic (without oxygen) environment to denitrify by stripping the oxygen molecule off of the nitrate, resulting in the release of gaseous nitrogen into our atmosphere.



Standard I/A OWTS
Control Panel

Common Components on all I/A OWTS:

- Process tanks (including septic tank if required by the I/A manufacturer) with internal piping and valves
- Sewer piping between the dwelling and process tanks and between the process tanks and leaching structures
- Control Panel with electrical connection and high water alarms
- Conduit piping for electric wiring and junction boxes for electrical connections
- Active treatment component such as pumps, blowers, media or effluent filters.
- Risers/chimneys with covers to grade on all access openings
- Air vents with associated piping and carbon filter required

Solicitation of Quotes

To provide Materials and Installation Services of Approved Innovative and Alternative Onsite Wastewater Treatment Systems (I/A OWTS)

Advertised/Issue Date:

January 31, 2020

Technical Questions Due:

Will be accepted, in writing (fax/email acceptable) on a rolling basis until 3:30pm on Friday, September 24, 2021. The Department of Health Services anticipates issuing addendums as necessary to respond to such questions.

**Proposer's Conference:
(Non-Mandatory)**

First: February 5, 2020 10:00 AM

Second: TBD

Additional to be scheduled as may be needed.

**Suffolk County Department of Health Services
First Floor EMS Classroom
360 Yaphank Avenue
Yaphank, New York 11980**

Response Due Date:

Responses will be accepted and reviewed and Vendors, as that term is defined herein, selected on a rolling basis starting on Monday, February 3, 2020 through 3:30 pm on Friday, October 29, 2021.



SIP FIXED RATE PRICING

***** ENGINEERING AND DESIGN COSTS ARE THE RESPONSIBILITY OF THE PROPERTY OWNER *****

Base Costs for the following Scenarios

1. Reusing Existing Leaching
2. New Leaching Pools
3. Pressurized Shallow Drainfields

Vendor Quotes: Scenario 1 for a 4-Bedroom Home – I/A OWTS Installation with Reuse of Existing Leaching Structure

Lowest	Median	Highest
\$13,650.00	\$18,198.80	\$23,578.00

Vendor Quotes: Scenario 2 for a 4-Bedroom Home – I/A OWTS Installation with New Gravity Leaching Structure

Lowest	Median	Highest
\$16,575.00	\$20,570.00	\$26,828.00

Vendor Quotes: Scenario 3 for a 4-Bedroom Home – I/A OWTS Installation with New Pressurized Shallow Drainfield

Lowest	Median	Highest
\$19,125.00	\$25,007.50	\$34,780.00



COSTS UNDER SEPTIC IMPROVEMENT PROGRAM

- Average Costs including Engineering: \$26,852.09
- Average Out-of-Pocket Expense to Homeowner= \$4,571.16

Year	AVERAGE COST (County Eligible Costs)
2017	\$21,638.63
2018	\$25,084.46
2019	\$28,005.04
2020	\$28,109.22
Average Cost	\$26,852.09



SeptiTech System Installed in Central Islip



BEFORE YOU APPLY GATHER THE FOLLOWING DOCUMENTS

- **Copy of Homeowner's Insurance Policy**
- Copy of most recent property tax bill
- Copy of Certificate of Occupancy or Zoning Compliance for the dwelling
- **available from the Town Clerk's office**
- If applying for the additional \$5,000 Low to Moderate Incentive, you **must provide the first two pages of property owner(s)' latest year's tax return** along with signature page (Form 1040, 1040A or 1040EZ).
Please be sure to redact your social security number
- If applicable: proof of sanitary system failure (photo, service receipts, etc.)

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STEP 1 – REGISTER ONLINE AND ACTIVATE YOUR ACCOUNT



Reclaim Our Water

Sign up now for the Septic Improvement Program

Log In

Username:

Password:

☐ Remember me next time.

[LOG IN](#)

[Don't have a login? Click here to register!](#)

[Forgot your username/password?](#)

[Didn't receive activation email? Click here to resend.](#)

Homeowners

Picture

Contact

Septic Improvement Program

Septic Improvement Program - Grant Application

Applicant Information

Applicant First Name:

M.I.:

Applicant Last Name:

Contact First Name:

Contact Last Name:

Contact Cellphone #:

Email Address:

Username:

Password:

Confirm Password:

Please fill in all required information. After clicking "Register" you should receive a confirmation email with an activation link. Please click on the activation link and follow the instructions on-screen.

Having trouble?

Thank you for your interest in Suffolk County's Septic Improvement Program. If you are having trouble completing the application or have questions, please contact the Department of Health Services at 631-852-3811, or septicdemo@suffolkcountyny.gov. Staff is available to assist you Monday-Friday from 9am-5pm.

I Am Not A Robot

Please check the box to continue.

☐

I AM NOT A ROBOT.

REGISTER

Good Morning, Septic!

Property Owner Information and Adjusted Gross Income Reported on Federal Income Tax Return (Each property owner must be listed and must include their return information):

Name of Applicant(s): (If filing jointly, only include combined income once) ?

(The following Income verification is required if you are applying for an additional \$5,000 grant for Low to Moderate Income homeowners.)

Type	First Name / Business	M.I.	Last Name:	Filing Status:	Tax Form:	Return Amount:	
Indiv ▼	John		Doe	Select ▼	Sel ▼	0.00	
Indiv ▼	Jane		Doe	Married - Si ▼	104 ▼	35000.00	Delete
Indiv ▼	Jackson		Doe	Married - Si ▼	104 ▼	1500000.00	Delete
Busin ▼	Business Inc			Select ▼	Sel ▼		Delete
Busin ▼	Down To Biz			Select ▼	Sel ▼		Delete

ADD ADDITIONAL OWNER

Dwelling Information

Enter your address slowly, once it populates in the dropdown list, select the address and then click verify. If successful, the address will appear on the map below.

Address:	Zip Code:	Year Built:
8 Sheridan Drive, SHIRLEY	11967	1970

VERIFY

District:	Section:	Block:	Lot:
0200	981.90	05.00	004.000

ADD ADDITIONAL PARCEL # / DSBL

Enter in your tax map info as listed on your tax bill. Please add additional tax lot info as necessary.

District:

0200

Section:

981.90

Block:

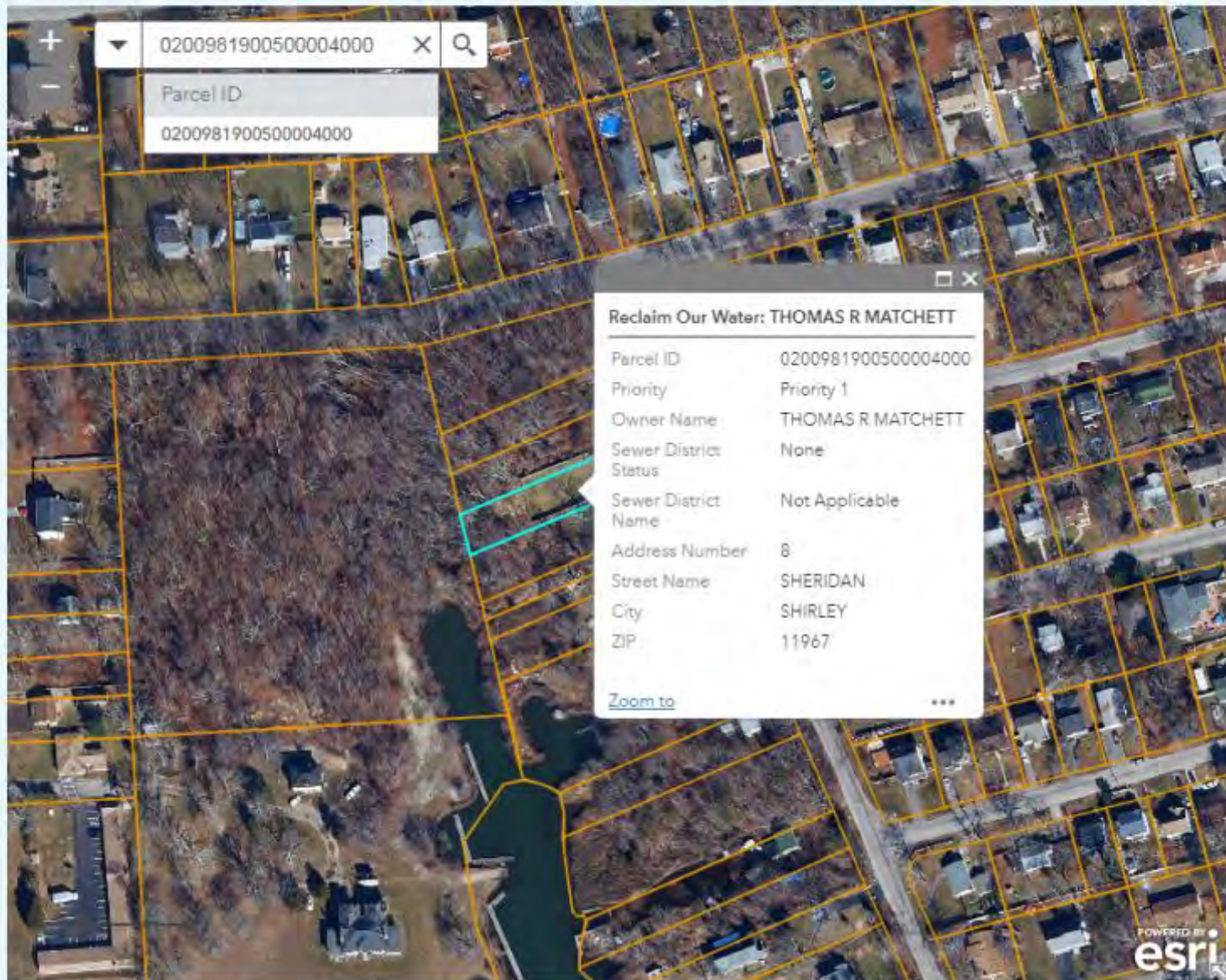
05.00

Lot:

004.000

ADD ADDITIONAL PARCEL # / DSBL

Enter in your tax map info as listed on your tax bill. Please add additional tax lot info as necessary.



Mailing Address:

Is mailing address different from physical address?

☒ Yes ☐ No

Address / PO Box:

PO BOX 123

City:

Shirley

Zip:

11967

Dwelling Use/Features:

Single Family House?

☐ Yes ☒ No

Bedrooms:

4

Occupied Year Round?

☐ Yes ☒ No

Occupants:

2

Current Septic System Information:

Current System Is: ☐ Septic Tank and Leaching Pools ☒ Block Cesspool ☐ Precast Cesspool ☐ Other ☐ Unknown

If you are proposing to replace a failed or failing sanitary system, please answer the following questions:

(Note requires upload of proof of failure, including, but not limited to receipts, photos or certification from a design professional):

Sewage disposal system has to be pumped two (2) or more times a year?

☐ Yes ☒ No

Sewage disposal system has collapsed or is collapsing?

☐ Yes ☒ No

Sewage backing-up into the dwelling?

☐ Yes ☒ No

Wastewater rising to the surface of the ground over or near any part of the existing sewage disposal system?

☐ Yes ☒ No

Applicant Questionnaire


ANSWERING THE FOLLOWING QUESTIONS WILL ALLOW US TO DETERMINE IF YOU QUALIFY TO PARTICIPATE IN SUFFOLK COUNTY'S SEPTIC IMPROVEMENT PROGRAM. PLEASE CHECK "YES" OR "NO" FOR ALL STATEMENTS:

Is this application for new construction on a vacant lot?

☐Yes ☒No

Does the residence rely on an onsite system (septic system or a cesspool)?

☒Yes ☐No

Are there any real property tax liens on the property? 

☐Yes ☒No

Is the property in foreclosure?

☐Yes ☒No

Do you consent that the County may share each property Owner(s) name, property address, grant award (if any), and property deed with CDCLI Funding Corporation, non-profit third party lender that is offering low interest loans for the installation of I/A OWTS?

☒Yes ☐No

NEXT PAGE

LOG OUT

(You must verify your address before continuing.)

Required Documents

Please upload all documents here. If you do not have all of your documents please click "Log Out" and collect all of your documents before returning.

The required documents include:

- Certificate of Occupancy or Equivalent
- Most Recent Property Tax Bill
- Proof of Homeowners Insurance Policy
- If applicable: proof of sanitary system failure (photo, service receipts, or certification from design professional)

Optional documents include (please choose Other when uploading):

- Property Deed
- Property Survey
- Floorplans
- Copies of water bills from October through February
- Copy of the first 2 pages of property owner(s)' most recently filed tax return along with the signature page (**please be sure to redact your Social Security Number**)

Please note that the only acceptable file types are:

- .jpeg
- .png
- .gif
- .jpg
- .bmp
- .pdf

Files can be no larger than 5MB.

Having trouble?

If you are having trouble completing the application or have questions, please contact the Department of Health Services at 631-852-5811 or septicdemo@suffolkcountyny.gov. Staff is available to assist you Monday-Friday from 9am-5pm.

Type	Files
Choose Type ▼	<input type="button" value="Choose File"/> No file chosen
Choose Type ▼	<input type="button" value="Choose File"/> No file chosen
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Attached Documents:

ID	Type	Name	Uploaded		
520	CO	EATONRJCO.pdf	Jul 12 2017	View	Delete
673	Deed	real-estate-deed.jpg	Jul 17 2017	View	Delete
674	Insurance	sample_proof_of_insu...jpg	Jul 17 2017	View	Delete
676	Tax Bill	taxbill.gif	Jul 17 2017	View	Delete

[SUBMIT FILES](#)
[GO BACK](#)
[NEXT PAGE](#)
[LOG OUT](#)



RANKING AND SCORING PROCESS

- Completed applications are scored and ranked as outlined in SIP rules and regulations.
- Top ranked applications (based on priority area and documented failure) will be sent a Grant Acceptance packet which contains the Grant Certificate, Grant Agreement, and an application for the State Grant.
- Homeowners have 30 days to sign the Grant Agreement. If signed Grant Agreements are not received by the Suffolk County Department of Health Services (SCDHS) within 30 days the Grant Certificate will expire and the allocated funding will revert back into the Grant pool.
- If final approval is not issued within 12 months from execution of the Grant Agreement, the Grant Certificate will expire and funding will revert back into the Grant pool.



Septic Improvement Program - Homeowner Process Overview

For More Information visit www.ReclaimOurWater.info or
Call the Suffolk County Department of Health Services at (631) 852-5811.

How Does the Septic Improvement (SIP) Grant / Loan Program Work?

Important Information Before You Apply for the Septic Improvement Grant

Online Applications are available at www.ReclaimOurWater.info. Homeowners should gather the following required documents prior to beginning the application process:

- Copy of property deed
- Proof of Homeowner's Insurance
- Copy of most recent property tax bill

Reclaim Our Water

Suffolk County's Septic Improvement Program Understanding the Installation Process

1) Pre-installation photo of home on Shinnecock Bay with failing cesspool susceptible to overflows



2) Installation photo of new Orenco AX20-RT unit to a pressurized shallow drainfield.

Note: There will be extensive site disruption during installation

3) Completed installation photo



Note: the lids to finished grade as this is a requirement for these systems.

Note: It is recommended to give the soil time to settle before the contractor does final grading of site

Reclaim

SEPTIC IMPROVEMENT

What I/A OWTS Have

Covers to Grade:

Covers provide access to your septic system and must remain fully accessible.

Control Panels:

Control Panels are the brains of the I/A OWTS. They should be protected from weather and vandalism.

Annual Operation & Maintenance:

The first three years are covered as part of the grant. Homeowners will need to sign a contract with a responsible party for maintenance costs anticipated that O&M will cost approximately \$500 per year.

Increased Annual Electrical Cost

Depending on the treatment process either runs continuously or on-demand, the systems that an annual electric costs ranging from \$500 to \$1,000.

Repair and Replacement Costs:

Homeowners should be aware that although I/A OWTS have a long track record of use in the USA, they do contain components such as pumps, floats, air compressors, and controls that may need to be replaced at some point during the useful life of the system. These component repair and replacement costs could range from \$50 to \$200.

Pumping Costs:

Although these systems provide advanced treatment, they will still need to be occasionally pumped by a septage hauler. Depending on use of the system, it is estimated that the average system would need to be pumped out every 3-5 years. This increases the treatment and useful life of any sewage disposal system including I/A OWTS. A typical pump-out is estimated to cost \$300 - \$500.

Reclaim Our Water

Overview of Provisionally Approved Technologies

What is Provisional Approval?

The Department of Health Services promulgated standards under Article 19 of the Suffolk County Sanitary Code that outlines the Approval Process of I/A OWTS Technologies. Systems provisionally approved in Suffolk County have a proven track record in other Eastern States such as New Jersey, Massachusetts, Rhode Island and Maryland. In addition, these systems have been rigorously tested in Suffolk County to ensure that they function as advertised. Suffolk County is one of the few jurisdictions that requires long term monitoring of the systems to ensure that homeowners are getting the best performance out of their water quality investment.

How do the Provisionally Approved Technologies Reduce Nitrogen?

Currently, all of the four Provisionally Approved Technologies in Suffolk County rely on biological processes to treat wastewater and convert and remove nitrogen. These systems use various methods to provide aerobic bacteria to convert organic nitrogen to nitrite and then use an anaerobic (without oxygen) environment to denitrify by stripping the oxygen molecule off of the nitrate, resulting in the release of gaseous nitrogen into our atmosphere.



Standard I/A OWTS
Control Panel

Common Components on all I/A OWTS:

- Process tanks (including septic tank if required by the I/A manufacturer) with internal piping and valves
- Sewer piping between the dwelling and process tanks and between the process tanks and leaching structures
- Control Panel with electrical connection and high water alarms
- Conduit piping for electric wiring and junction boxes for electrical connections
- Active treatment component such as pumps, blowers, media or effluent filters.
- Risers/chimneys with covers to grade on all access openings
- Air vents with associated piping and carbon filter required

WHAT TO DO AFTER YOU RECEIVE YOUR GRANT ACCEPTANCE PACKET

➤ *Execution of Grant Agreement (State & County):*

- Homeowner evaluates options and decides to move forward. Grant Agreement must be signed and returned to SCDHS within 30 business days from receipt of Grant Acceptance packet.
- Copy of fully executed contracts will be returned to the homeowner.
- Homeowner contracts with Design Professional at their own expense.

THE WASTEWATER MANAGEMENT PERMIT PROCESS

- Design Professional completes a permit application and submits to OWM including vendor cost estimate. Homeowner enters into contract with Vendor. The Design Professional will also identify any required Town, Village, or State permits that may be required.
- SCDHS permit to construct is issued.
- Town/Village/New York State Department of Environmental Conservation (NYSDEC) permits are secured if required.



EVALUATE FUNDING OPTIONS

- Receive Grant Eligibility Memo from SCDHS
- Homeowner may contact CDCLI Funding Corporation (<http://www.cdcli.org/septic-replacement-loan-program-suffolk-county-residents/>) or other financial institution for loan pre-approval.
It is expected that third party financial institutions would require a copy of the Grant Certificate to begin the pre-approval process.
- Homeowner submits Vendor proposal to County along with signed Assignment of Payments (AOPs)

I/A OWTS INSTALLATION PROCESS

➤ *I/A OWTS Installation Process:*

- Construction can begin. SCDHS inspectors will visit the site and inspect that the installation is in accordance with County and Manufacturer Standards.

➤ *Final Approval Process:*

- System start-up witnessed by SCDHS. As-built plans submitted to SCDHS by the Design Professional. The homeowner submits I/A OWTS Registration form.

➤ *Issuance of Final Approval:*

- Final Approval letter will be issued by SCDHS Office of Wastewater Management. Design Professionals and Vendors must submit payment vouchers and invoices to SCDHS.



GRANT DISPERSAL

➤ *Final Approval Process and Inspector Certification:*

- System start-up witnessed by SCDHS. As-built plans submitted to SCDHS by the Design Professional. The homeowner submits I/A OWTS Registration form.
- Vendor submits Certification Forms
- Submit an O&M Agreement from maintenance provider

➤ *Issuance of Inspector Certification Letter:*

- Inspector Certification letter will be issued by SCDHS Office of Ecology. Vendors must submit payment vouchers and invoices to SCDHS.

➤ *Issuance of Grant Payment:*

- Once Inspector Certification letter is issued and payment vouchers and invoices are received, grant payments will be issued by the County to the Vendor identified in the Grant Agreement exhibit on behalf of the homeowner.

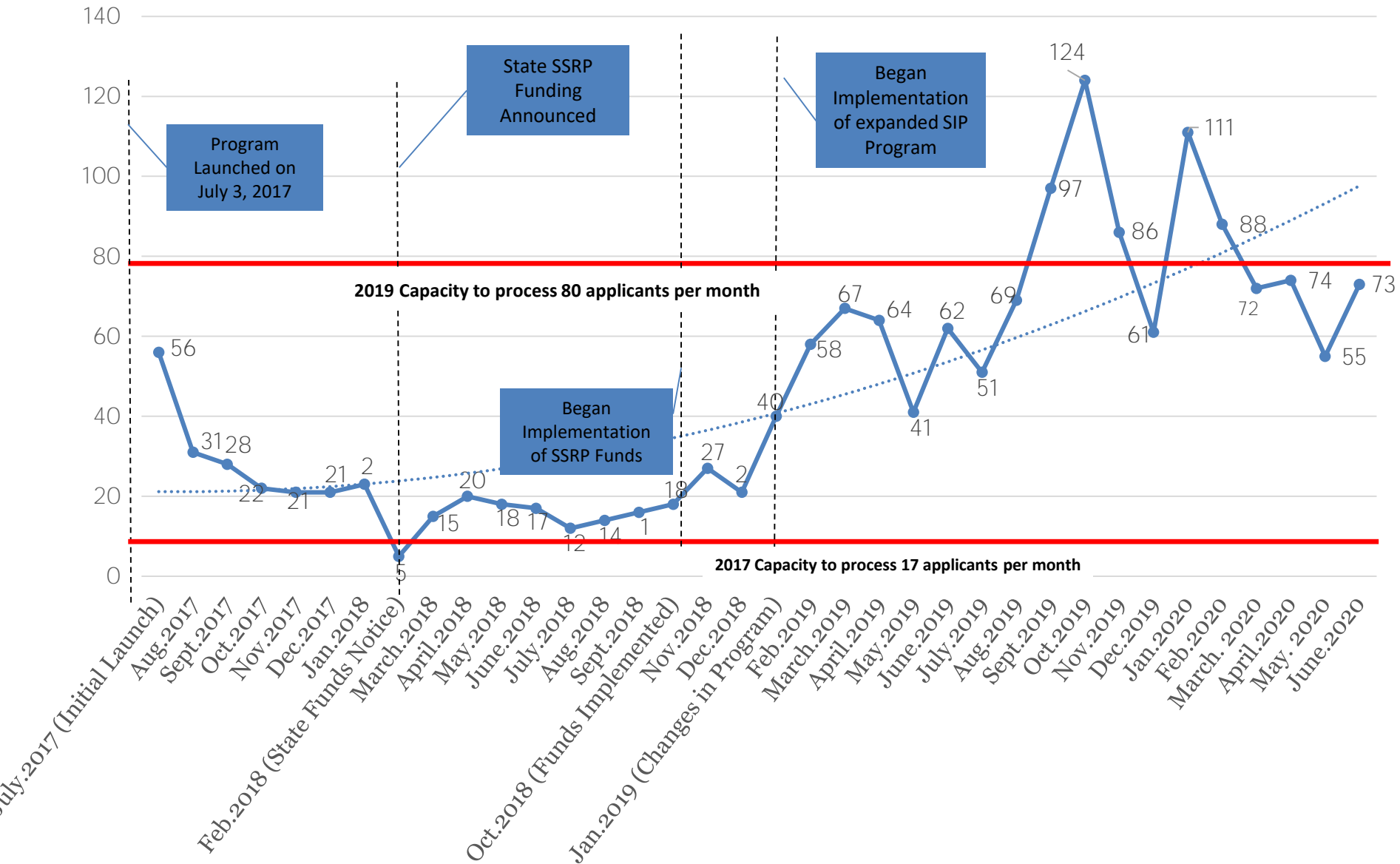
Septic Improvement Program Statistics as of 8/1/2020



FujiClean System Installed in Halesite NY

SIP & SSRP MONTHLY APPLICATION RATE

JULY 3, 2017 – JULY 1, 2020





Reclaim Our Water with a state-of-the-art wastewater treatment system supported by a grant of up to \$11,000 from Suffolk County.

[Register](#)

SIP APPLICATION STATUS AS OF AUGUST 1, 2020

- SCDHS started accepting applications July 3, 2017
- ✓ 1,762 Total Applicants
 - ✓ 1079 Issued Grant Agreements
 - 522 Installations as of 8/1
 - ~546 on current wait list / queue

SIP GRANTS BY TOWN AS OF AUGUST 1, 2020



Town	Number of SIP Installations	Percent of Countywide SIP Installations
Babylon	7	1%
Brookhaven	104	20%
East Hampton *	109	22%
Huntington	24	5%
Islip	39	7%
Riverhead	12	2%
Shelter Island *	42	8%
Smithtown	12	2%
Southampton *	147	28%
Southold	26	5%
Totals	522	100.00%

* Towns with grant / rebate programs



SIP -REQUEST FOR ADDITIONAL FUNDING

- SIP has grown exponentially since the grant amounts increased and have been coupled with up to \$10,000 in SSRP funds.
- This increase in interest in the program is also due to extensive outreach and a streamlined permitting process for failed cesspools to I/A OWTS which was implemented in August of 2019.
- In addition, the COVID-19 Pandemic and NY PAUSE order caused strain on many existing block cesspools, which caused the program demand to surge between March and June of 2020.
- In April of 2019, 20% of grant applicants were reporting system failures. In April of 2020 that number surged to over 60%.
- SIP has been so successful that program demand exceeds available funding and the Department requests the allocation of \$3.7 million in additional funds to SIP to keep up with program demand and continue to build momentum of the *Reclaim Our Water* initiative.



Collapsed Cesspool, Southampton Village



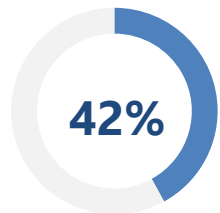
HydroAction Installation, East Hampton

Reclaim Our Water

www.reclaimourwater.info



Program Allocations



**42% of Installed Systems
Replaced Existing Failed Septic
Systems or Cesspools**



**Average 2020 County Grant Amount
= \$11,543**

Septic Improvement Program Financial Allocations

	Total Funding Allocated to Program from 2017 - 2020	Amount Expended	Amount Allocated	# of Grants Remaining
County SIP	\$11,700.00	\$5,258,331	\$10,807,242.99	59 at \$15,000 grants. 76 at avg award of \$11,543
State SSRP	\$10,025,000	\$4,275,130	\$9,916,768.76	10.82 grants

INSTALLATIONS BY YEAR

2017 (Started 7/3/2017)	2018	2018	2020 (as of 8/1/2020)
8	50	50	221
TOTAL OF 520 SIP / SSRP installations as of 8/1/2020			



BENEFITS OF SEPTIC IMPROVEMENT PROGRAM

- ~ 11,070 lbs of nitrogen removed per year to date.
- Provides financial assistance to Suffolk County residents.
- Allows for Streamlined Replacement of unsafe polluting cesspools.
- Funds infused directly into local economy, creates jobs and incentivizes new industry in Suffolk County.





CONTROL PANELS & AIR VENTS



HYDROACTION AN SERIES



HYDROACTION AN SERIES



FUJI CEN SERIES
AFTER INSTALLATION







SEPTITECH AFTER INSTALLATION



SEPTITECH & PSD DURING INSTALLATION





TAXABILITY OF GRANTS

- The responsibility for generating tax forms lies with the Suffolk County Department of Audit & Control, under direction of the Suffolk County Comptroller, an independently elected official. The Department of Health Services has no control over the Department of Audit & Control. The Suffolk County Comptroller has directed his staff to generate a Form 1099-G for each grant recipient.
- The **County Executive's Office has asked the Comptroller to rescind the 1099 forms** he has issued to homeowners and is waiting for him to respond.
- People who are concerned can contact the County Comptroller at (631)853-5040 and consult with their tax professional regarding tax implications.
- Bipartisan legislation introduced to exempt SIP Grants from taxable income

SUCCESS STORIES



SYSTEM DETAILS: 3- Bedroom Home

Installed: October 2017

Designer: Studio A/B Architects

Technology: Norweco Singulair

Leaching: Existing Leaching Pools

Vendor: Roman Stone Construction



Cost Information

Design Costs	\$2,500.00
Installation Base Price: Scenario 1	\$12,439.00
Misc. Installation Costs	\$6,350.00
Total Installation Costs	\$18,789.00
Total Project Costs	\$21,289.00
SIP Grant	- \$10,000
Southampton CPF Rebate	- \$11,289.00
End Cost to Homeowner	\$0.00

"The Septic Improvement Program allowed me to purchase a system that I otherwise would not have been able to afford. I am environmentally conscientious and want a cleaner bay for my grandchildren and I to enjoy"- Homeowner

SEPTIC IMPROVEMENT PROGRAM INSTALL
SYSTEM DETAILS: 5-Bedroom Home
Installed: September 2017
Designer: TF Engineering
Technology: Hydroaction AN Series
Provisionally Approved 9/28/16
Leaching: Pressurized Infiltrator Bed
Vendor: Eco Supply Company



Installation Photo of Hydroaction AN Series

Cost Information	
Design Costs	\$2,500.00
Total Installation Costs	\$19,855.00
Total Project Costs	\$22,355.00
SIP Grant	- \$11,000.00
Southampton CPF Rebate	- \$11,355.00
End Cost to Homeowner	\$0.00



Post-Installation Photo



ELIGIBLE COSTS INFORMATION:



LINE A	ENGINEERING COSTS	\$2,500.00
LINE B	INSTALLATION COSTS	\$13,500.00
LINE C	PUMPING AND DECOMMISSIONING COSTS	\$750.00
LINE D	3-YEAR O&M AND WARRANTY	\$750.00
LINE E	SALES TAX	\$797.82
LINE F	TOTAL COUNTY ELIGIBLE COSTS (SUM OF LINES A, B, C, & D)	\$18,297.82
LINE G	TOTAL STATE ELIGIBLE COSTS (SUM OF LINES A & B)	\$16,000.00



GRANT AWARD INFORMATION:

LINE H	SUFFOLK COUNTY SIP GRANT (up to \$11,000)	\$10,000.00
LINE I	NYS SSRP GRANT (up to \$10,000 of 50% STATE ELIGIBLE COSTS)	\$8,000.00
	PROPERTY OWNER OUT OF POCKET COSTS (LINE F MINUS LINES H & I)	\$297.82



ELIGIBLE COSTS INFORMATION:

LINE A	ENGINEERING COSTS	\$2,500.00
LINE B	INSTALLATION COSTS	\$26,384.00
LINE C	PUMPING AND DECOMMISSIONING COSTS	\$600.00
LINE D	3-YEAR O&M AND WARRANTY	\$750.00
LINE E	SALES TAX	\$957.38
LINE F	TOTAL COUNTY ELIGIBLE COSTS (SUM OF LINES A, B, C, D & E)	\$31,191.38
LINE G	TOTAL STATE ELIGIBLE COSTS (SUM OF LINES A & B)	\$28,884.00

GRANT AWARD INFORMATION:

LINE H	SUFFOLK COUNTY SIP GRANT (up to \$11,000)	\$10,000.00
LINE I	NYS SSRP GRANT (up to \$10,000 of 50% STATE ELIGIBLE COSTS)	\$10,000.00
PROPERTY OWNER OUT OF POCKET COSTS (LINE F MINUS LINES H & I)		\$11,191.38



ELIGIBLE COSTS INFORMATION:



LINE A	ENGINEERING COSTS	\$2,500.00
LINE B	INSTALLATION COSTS	\$16,050.00
LINE C	PUMPING AND DECOMMISSIONING COSTS	\$2,500.00
LINE D	3-YEAR O&M AND WARRANTY	\$900.00
LINE E	SALES TAX	\$1,677.56
LINE F	TOTAL COUNTY ELIGIBLE COSTS (SUM OF LINES A, B, C, D & E)	\$23,627.56
LINE G	TOTAL STATE ELIGIBLE COSTS (SUM OF LINES A & B)	\$18,550.00



GRANT AWARD INFORMATION:

LINE H	SUFFOLK COUNTY SIP GRANT	\$10,000.00
LINE I	NYS SSRP GRANT (up to \$10,000 of 50% STATE ELIGIBLE COSTS)	\$9,275.00
PROPERTY OWNER OUT OF POCKET COSTS (LINE F MINUS LINES H, & I)		\$4,352.56



ELIGIBLE COSTS INFORMATION:

LINE A	ENGINEERING COSTS	\$2,500.00*
LINE B	INSTALLATION COSTS	\$20,129.00
LINE C	PUMPING AND DECOMMISSIONING COSTS	\$350.00
LINE D	3-YEAR O&M AND WARRANTY	\$900.00
LINE E	SALES TAX	\$796.00
LINE F	TOTAL COUNTY ELIGIBLE COSTS (SUM OF LINES A, B, C, D & E)	\$24,675.00
LINE G	TOTAL STATE ELIGIBLE COSTS (SUM OF LINES A & B)	\$22,629.00

GRANT AWARD INFORMATION:

LINE H	SUFFOLK COUNTY SIP GRANT	\$10,000.00
LINE I	NYS SSRP GRANT (up to \$10,000 of 50% STATE ELIGIBLE COSTS)	\$10,000.00
PROPERTY OWNER OUT OF POCKET COSTS (LINE F MINUS LINES H, & I)**		\$4,675.00

* Based on the assumption of a \$2,500.00 Engineering Invoice

** Actual out of pocket costs may differ due to ineligible County and State costs that are not included in this memo



www.ReclaimOurWater.info

Questions?

Justin Jobin, Environmental Projects Coordinator

Justin.Jobin@suffolkcountyny.gov

631-852-5811