SUFFOLK COUNTY’S
RECLAIM OUR WATER INITIATIVE

WWW.RECLAIMOURWATER.INFO

JUSTIN JOBIN, ENVIRONMENTAL PROJECTS COORDINATOR
JUSTIN.JOBIN@SUFFOLKCOUNTYNY.GOV
631-852-5811
“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 systems
- 209,000 systems in priority areas
- Approximately 252,530 pre-date requirement for septic tank
Cesspools
Conventional Sanitary Systems

**Innovative & Alternative Onsite Wastewater Treatment System (I/A OWTS) Will Remove ~50 - 70% of Total Nitrogen Compared to Conventional System**
I/A OWTS

Advanced treatment systems that reduce BOD, TSS and remove up to 70% of Total nitrogen.

☑ Allowed on Voluntary basis in SC since 2016
☑ I/A OWTS designs & installations have an average cost of $17-22 thousand
☑ THESE CHANGES DO NOT REQUIRE I/A OWTS
SETTING THE STAGE FOR THE SOLUTION TO NITROGEN POLLUTION:
Evolution to the Use of Innovative Treatment Systems
PROVISIONALLY APPROVED I/A OWTS

Hydro-Action

Fuji Clean System

Norwecco Singlarin TNT

Norwecco Hydrokinetic

BioMicrobics SeptiTech STAAR

Orenco Advantex AX-RT
## Performance Summary of I/A OWTS Demonstrated in Suffolk County and Approved for Provisional Use

<table>
<thead>
<tr>
<th>Technology</th>
<th>AVG (mg/L)*</th>
<th>Provisional Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydro-Action AN Series</td>
<td>11.6 mg/L</td>
<td>Approved in September 2016</td>
</tr>
<tr>
<td>Norweco – Singulair TNT</td>
<td>18.3 mg/L</td>
<td>Approved in October 2016</td>
</tr>
<tr>
<td>Orenco Advantex – RT</td>
<td>18.8 mg/L</td>
<td>Approved in March 2017</td>
</tr>
<tr>
<td>Norweco – Hydro-Kinetic</td>
<td>17.4 mg/L</td>
<td>Approved in April 2017</td>
</tr>
<tr>
<td>Fuji Clean System</td>
<td>16.6 mg/L</td>
<td>Approved in January 2018</td>
</tr>
<tr>
<td>SeptiTech STAAR</td>
<td>13.6 mg/L</td>
<td>Approved in July 2018</td>
</tr>
</tbody>
</table>

*Standard is 19mg/L
Suffolk County
Septic Improvement
Program (SIP)
SEPTIC IMPROVEMENT PROGRAM (SIP)

GRANT PROGRAM DETAILS:

- Individual homeowners may be eligible for a Suffolk County base grant up to $10,000 and an additional.
  - $5,000 may be available for installation of a Pressurized Shallow Drainfield (PSD)
  - $5,000 may be available for Low to Moderate income property owners.
- Homeowner will be responsible for engineering and design services.

LOAN PROGRAM DETAILS:

- Administered by CDCLI Funding Corporation
- Individual homeowners may be eligible for low cost financing up to $10,000
- Competitive 3% interest rate
- Repayment term of up to 15 years
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
**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.
- Income verification (Provide a copy of owner(s) most recently filed federal income tax return).
- Property must not have any tax liens or be in foreclosure.
**Priority Areas:**

1) Parcels located within the Priority Critical Areas (high or medium density parcels within the 0-2 year groundwater travel time or high or medium density residential parcels within 1,000 feet of enclosed water bodies in Suffolk County)

2) Parcels located within Critical Areas (high or medium density parcels within the 2-25 year groundwater travel time)

3) Parcels located outside Critical Areas
# Suffolk County NY - Septic Improvement Program
## Vendor Cost Ranking Sheet – Rev. March 1, 2019
### Scenario 1 for a 4-Bedroom Home

## Vendor Quotes: Scenario 1 – I/A OWTS with Reuse of Existing Leaching Structure

<table>
<thead>
<tr>
<th>Technology (Sorted by Date Approved)</th>
<th>Vendor</th>
<th>Contact</th>
<th>Cost</th>
</tr>
</thead>
</table>
| Hydro-Action AN Series               | Clear River Environmental            | [Dwarrren@clearriver.us](mailto:Dwarrren@clearriver.us)  
Eastern Suffolk Office: 631-298-7749  
Western Suffolk Office: 631-467-5447 | $14,700.00 |
|                                      | A&A Sewer and Drain Maintenance Inc.| [aasewerdrain@gmail.com](mailto:aasewerdrain@gmail.com)  
631-849-1599          | $15,607.25 |
|                                      | Direct Drainage                     | [DirectDrainage@aol.com](mailto:DirectDrainage@aol.com)  
631-472-0677          | $16,578.00 |
|                                      | Quakenbush Cesspools                | [quackcesspools@gmail.com](mailto:quackcesspools@gmail.com)  
631-907-4426          | $17,308.53 |
|                                      | SYP Industries                      | [sypindustries@gmail.com](mailto:sypindustries@gmail.com)  
631-775-0012          | $18,482.66 |
|                                      | Eastern Site Development             | [info@easternsitedevelopment.com](mailto:info@easternsitedevelopment.com)  
631-209-4240          | $18,803.00 |
|                                      | South Fork Septic                   | [john@southforkseptic.com](mailto:john@southforkseptic.com)  
631-283-0333          | $18,817.56 |
| Norweco Singulair TNT                | Clear River Environmental (Same)    | [Dwarrren@clearriver.us](mailto:Dwarrren@clearriver.us)  
Eastern Suffolk Office: 631-298-7749  
Western Suffolk Office: 631-467-5447 | $13,450.00 |
|                                      | Roman Stone Systems LLC             | [tmontalbine@romanstonesystems.com](mailto:tmontalbine@romanstonesystems.com)  
631-667-0566 Ext.114 | $16,096.85 |
|                                      | Direct Drainage                     | [DirectDrainage@aol.com](mailto:DirectDrainage@aol.com)  
631-472-0677          | $16,197.82 |
|                                      | Ken Rousell, Inc.                   | [kristin@kenrousselinc.com](mailto:kristin@kenrousselinc.com)  
631-288-2545          | $18,148.62 |
|                                      | Eastern Site Development             | [info@easternsitedevelopment.com](mailto:info@easternsitedevelopment.com)  
631-209-4240          | $18,664.15 |
|                                      | Orenco Advantex AX20-RT              | [aasewerdrain@gmail.com](mailto:aasewerdrain@gmail.com)  
631-849-1599          | $18,115.31 |

**Notes:**
1. All estimated costs not highlighted in red would fall under the intended SIP funding limits, not including $2,500 in estimated design costs that the homeowner is responsible for.
2. All costs exclude Engineering and design costs which is the responsibility of the homeowner.
3. Costs highlighted in red would require additional homeowner out-of-pocket expense.

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* Shelter Island Sand, Gravel & Contracting Inc. prices apply only to installations on Shelter Island.

***ENGINEERING AND DESIGN COSTS ARE NOT INCLUDED IN THE ABOVE TABLE AND ARE THE RESPONSIBILITY OF THE PROPERTY OWNER***
## Septic Improvement Program – Vendor Contact Information

For More Information visit [www.ReclaimOurWater.info](http://www.ReclaimOurWater.info) or call (631) 852-5811

<table>
<thead>
<tr>
<th>Manufacturer &amp; Technology</th>
<th>Local Distributor</th>
</tr>
</thead>
</table>
| Norweco Singulair & Hydro-Kinetic | Tom Montalbine, President  
Roman Stone Systems LLC  
85 South Fourth Street - Bayshore, NY 11706  
Web: [www.romanstone.com](http://www.romanstone.com)  
Phone: 631-667-0566 Ext.114  
Email: tmontalbine@romanstonesystems.com |
| Hydro-Action | Joe Densieski, Wastewater Works Inc.  
139 Reeves Avenue, Riverhead, NY 11901  
Web: [www.wastewaterworksinc.com](http://www.wastewaterworksinc.com)  
Phone: 631-831-2580 |
| Fuji Clean System | Bryan McGowin, Advanced Wastewater Solutions, LLC  
PO BOX 1622 - Southampton, NY 11969  
Email: bmcgowin@gmail.com or bryan@awsli.com  
631-405-0358 |
| Fuji Clean System | Peder Larsen, Shelter Island Sand, Gravel, & Contracting  
PO Box 2028 – Shelter Island, NY 11964  
(631) 749-1040  
sisandgravel@gmail.com |
| Orenco AX-RT | Lee Essay, Nugent & Potter  
1557 County Rd. 39 – Southampton NY 11968  
Phone: 631-488-4466  
Email: Lee@nugentpotter.com |
| SeptiTech STAAR | Bob Eichinger, SeptiTech Long Island  
24 Hubbard Avenue, Riverhead, NY 11901  
Email: Bob@septitechli.com  
Phone: 631-284-9893 |

### Projected 1-Year Electrical Costs

<table>
<thead>
<tr>
<th>Technology</th>
<th>1 year electrical consumption (kWh/year)</th>
<th>Increased electrical costs per year ($0.17/kWh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orenco Advantex AX20-RT</td>
<td>335.8 kWh</td>
<td>$73.88</td>
</tr>
<tr>
<td>Fuji Clean System</td>
<td>463.55 kWh</td>
<td>$101.98</td>
</tr>
<tr>
<td>Hydro-Action AN</td>
<td>734.26 kWh</td>
<td>$161.54</td>
</tr>
<tr>
<td>SeptiTech STAAR</td>
<td>912 kWh</td>
<td>$200.64</td>
</tr>
<tr>
<td>Norweco Singulair TNT</td>
<td>979.66 kWh</td>
<td>$215.53</td>
</tr>
<tr>
<td>Norweco Hydro-Kinetic</td>
<td>1051.2 kWh</td>
<td>$231.26</td>
</tr>
</tbody>
</table>

Note: the Hydro-Action unit utilizes a mixer pump during start-up. The pump use is discontinued after startup, and usage data will vary after the start-up period.

### Septic Improvement Program Notes

- All prices are estimates from Vendor submitted quotes for 4-bedroom I/A OWTS.
- Actual costs may vary based on site constraints. Homeowners are urged to contact Vendors to discuss project specific costs for their Property.
- Grant funding will not exceed $25,000 for I/A OWTS installed with gravity leaching or $30,000 for I/A OWTS installed with PSD.

### Use of Grant Funds is Not Allowed For:

- Irrigation repairs
- Landscaping
- Electrical improvements unrelated to the I/A OWTS

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### Operations & Maintenance Costs

<table>
<thead>
<tr>
<th>Technology</th>
<th>One Year Contract Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydro-Action AN</td>
<td>$250.00</td>
</tr>
<tr>
<td>Orenco Advantex AX20-RT</td>
<td>$271.66</td>
</tr>
<tr>
<td>Fuji Clean Systems</td>
<td>$300.00</td>
</tr>
<tr>
<td>Norweco Hydro-Kinetic</td>
<td>$300.00</td>
</tr>
<tr>
<td>Norweco Singulair TNT</td>
<td>$315.00</td>
</tr>
<tr>
<td>SeptiTech STAAR</td>
<td>$250.00</td>
</tr>
</tbody>
</table>

* Consult manufacturer for additional warranties specific to their systems. All systems in Suffolk County are sold with a three year warranty, but many manufacturers offer additional warranties on pumps and aerators.

** Complete replacement of control panels is rare and usually associated with lightning strikes. Check with your homeowners insurance to see if these repair costs are covered under your policy.

### Estimated Repair and Replacement Costs*

<table>
<thead>
<tr>
<th>Technology</th>
<th>Item</th>
<th>Cost</th>
<th>Life Expectancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Norweco Singulair TNT</td>
<td>Aerator Replacement</td>
<td>$500.00</td>
<td>10 years</td>
</tr>
<tr>
<td></td>
<td>Control Panel Replacement**</td>
<td>$1,200.00</td>
<td>20 years</td>
</tr>
<tr>
<td>Fuji Clean CEN System</td>
<td>Blower Replacement (MAC 80R)</td>
<td>$320.00</td>
<td>10 years</td>
</tr>
<tr>
<td></td>
<td>Blower Replacement (MAC 100R)</td>
<td>$420.00</td>
<td>10 years</td>
</tr>
<tr>
<td></td>
<td>Blower Rebuild</td>
<td>$150.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Float Replacement</td>
<td>$100.00</td>
<td>5-10 years</td>
</tr>
<tr>
<td></td>
<td>Control Panel Replacement**</td>
<td>$400.00</td>
<td>20 years</td>
</tr>
<tr>
<td>Hydro-Action AN Series</td>
<td>Blower Replacement</td>
<td>$400.00</td>
<td>10 years</td>
</tr>
<tr>
<td></td>
<td>Blower Rebuild</td>
<td>$100.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Recirculation Pump Replacement</td>
<td>$400.00</td>
<td>10 years</td>
</tr>
<tr>
<td></td>
<td>Float Replacement</td>
<td>$80.00</td>
<td>5-10 years</td>
</tr>
<tr>
<td></td>
<td>Control Panel Replacement**</td>
<td>$1,200.00</td>
<td>20 years</td>
</tr>
<tr>
<td>Orenco Advantex AX20-RT</td>
<td>Recirculation Pump Replacement</td>
<td>$800.00</td>
<td>10 years</td>
</tr>
<tr>
<td></td>
<td>Float Replacement</td>
<td>$80.00</td>
<td>5-10 years</td>
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<td>$1,500.00</td>
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</tr>
<tr>
<td>Norweco Hydro-Kinetic</td>
<td>Blower Replacement</td>
<td>$300.00</td>
<td>10 years</td>
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<tr>
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<td>Blower Rebuild</td>
<td>$100.00</td>
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<td>$500.00</td>
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<td></td>
<td>Control Panel Replacement**</td>
<td>$1,200.00</td>
<td>20 years</td>
</tr>
<tr>
<td>SeptiTech STAAR</td>
<td>Recirculation Pump Replacement</td>
<td>$520.00</td>
<td>10 years</td>
</tr>
<tr>
<td></td>
<td>Float Replacement</td>
<td>$75.00</td>
<td>5-10 years</td>
</tr>
<tr>
<td></td>
<td>Control Panel Replacement**</td>
<td>$1,200.00</td>
<td>20 years</td>
</tr>
</tbody>
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Septic Improvement Program
Number of Applicants by Month

Goal of 17 applicants per month
From July 2017 – January 2019

2019 Goal of 80 applicants per month

- Program Launched on July 3, 2019
- State SSRP Funding Announced February 2018
- Began Implementation of expanded SIP Program
- Began Implementation of SSRP Funds

June 2018

SIP APPLICATION STATUS AS OF APRIL 29, 2019

- SCDHS started accepting applications July 3, 2017
  - 1,664 Total Applicants
  - 807 Registrants only
  - 357 Active Grant Certificates
  - 455 Pending Review (Waiting for Documents or In Progress)
  - 5 Not Eligible
  - 7 withdrawn
- 89 Installations to date
- 120 Pending Installations
- 9 Pending Review
## SIP Grants by Town as of March 19, 2019

<table>
<thead>
<tr>
<th>Town</th>
<th># of Grant Certificates Issued</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southampton *</td>
<td>86</td>
</tr>
<tr>
<td>Brookhaven</td>
<td>80</td>
</tr>
<tr>
<td>East Hampton *</td>
<td>53</td>
</tr>
<tr>
<td>Huntington</td>
<td>22</td>
</tr>
<tr>
<td>Islip</td>
<td>21</td>
</tr>
<tr>
<td>Southold</td>
<td>15</td>
</tr>
<tr>
<td>Shelter Island *</td>
<td>13</td>
</tr>
<tr>
<td>Smithtown</td>
<td>8</td>
</tr>
<tr>
<td>Babylon</td>
<td>4</td>
</tr>
<tr>
<td>Riverhead</td>
<td>3</td>
</tr>
</tbody>
</table>

* Towns with grant / rebate programs
TOTAL NUMBER OF I/A OWTS

- Total IA OWTS = 1,001
  - Total Installs = 202 (53, Septic Demo, 63 SIP, 86 Other)
    - Final Approval = 119
    - Estimated installs that have not received Final Approval = 83
  - Approved to Construct = 491
  - Pending Approval = 308
Taxability of Grants

- The SIP was designed so that funding is disbursed directly to installers, who report the grants as income, consistent with similar programs in other jurisdictions.

- The County’s tax counsel issued an opinion confirming that the County should issue 1099 forms to the entities that actually receive disbursements of funding.

- 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 Suffolk County Comptroller has directed his staff to generate a Form 1099-G for each grant recipient.

- The County has confirmed that installers are already declaring the grants income and are paying income taxes on the grants, consistent with the intent of the program.

- The County has asked the Comptroller to rescind the 1099 forms he has issued to homeowners before April 15th 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.
CONTROL PANELS & AIR VENTS
HYDROACTION AN SERIES
FUJI CEN Series
AFTER INSTALLATION
Questions

www.ReclaimOurWater.info

631-852-5811
Justin.Jobin@suffolkcountyny.gov

Justin Jobin, Environmental Projects Coordinator