

## BEGINNING OF THE BRF GRANT PROGRAM

1. May 26, 2004: Governor Ehrlich signed Senate Bill 320 which created the Bay Restoration Fund which was financed by wastewater treatment plant users and Onsite Sewage Disposal System (OSDS) users.
  - \*Fees from wastewater treatment plant users is dedicated to upgrading Maryland's wastewater treatment plants with ENR. Reduction of nitrogen & phosphorus in wastewater effluent.
  - \*Fees from OSDS users (\$30/year) are estimated to generate approximately \$12.6 million/year. 60% of funds used for OSDS upgrades, 40% of funds used for cover crops.
2. January 1, 2005: Funds begin to be collected for wastewater treatment plant users.
3. October 1, 2005: Funds begin to be collected for OSDS users.
4. October 1, 2009: Senate Bill 554 enacted requiring all OSDS installations/upgrades within the 1000-foot Critical Area Buffer include the Best Available Technology for removing Nitrogen.
5. July 1, 2010 St. Mary's County receives first installment of grant funding for Fiscal Year 2011 (33 ATUs installed).
6. January 1, 2011: St. Mary's County receives second installment of grant funding for Fiscal Year 2011(24 ATUs installed).
7. July 1, 2011: St. Mary's County receives full installment of grant funding for Fiscal Year 2012.

## OVERVIEW OF BRF PROCESS

1. Applicant submits BRF grant application to Environmental Health.
2. Grant funding is prioritized by the following categories:
  1. Failing OSDS within the 1000-foot Critical Area Buffer
  2. Failing OSDS outside of the 1000-foot Critical Area Buffer
  3. Non-failing OSDS within the 1000-foot Critical Area Buffer
  4. Non-failing OSDS outside of the 1000-foot Critical Area Buffer
3. At the beginning of the Fiscal Year, only the applicants that fall into Category 1 are offered grant funding since it is mandated that they are to be funded.
4. Three months into the Fiscal Year, funds are re-evaluated to determine whether or not funding can be offered to Categories 2-4.
5. Funding for Categories 2-4 is determined by the income based sliding scale which offers 100%, 75%, 50% and 25% funding. The balance not covered by the grant is the responsibility of the property owner.
6. Properties in Categories 3-4 are either required or voluntary upgrades which may require a site evaluation by the area Sanitarian and Septic Contractor. The level of evaluation is based on available OSDS records for the property.
  1. Properties without records of the OSDS require excavation of the disposal system.
  2. Properties with records of an OSDS that are older than 5 years requires a site visit by the area sanitarian who will look for surface failure and do a sketch of the property.
  3. Properties with records of an OSDS that are less than 5 years old require no additional site evaluation.

\*\*This is critical to ensure that an ATU is installed in conjunction with a functioning, legitimate disposal system. If the area Sanitarian finds the disposal system to be in failure, a repair perc test would be completed and a new OSDS designed. The ATU would only be installed as part of the replacement OSDS.
7. All installations are permitted and inspected by Environmental Health as well as the manufacturer for the ATU.
8. Reimbursement is provided directly to the distributor of the ATU once completion certificates are received from the Sanitarian and the distributor. An invoice is also required from the distributor and must match the grant amount.

## FORMS USED WITH BRF PROCESSING

1. **Conditions of Financial Assistance Form:** Must be filled out and signed by property owner when a disposal field is being installed along with the ATU.
2. **BRF agreement:** Agreement and Easement document that gets recorded with the deed that outlines what is required with the grant (O&M requirement, installation compliance, award amount etc.)
3. **Attachment 1:** Gives a breakdown of the 4 units that have been field verified and tested through MDE. More detailed information on the 4 units is found on MDEs webpage and is referenced on this attachment for the property owner to review.

ST. MARY'S COUNTY HEALTH DEPARTMENT  
OFFICE OF ENVIRONMENTAL HEALTH  
21580 PEABODY STREET  
P.O. BOX 316  
LEONARDTOWN, MD 20650

BAY RESTORATION GRANT APPLICATION  
NITROGEN-REDUCING ADVANCED TREATMENT UNIT  
FOR GRANT PERIOD JULY 2010-JUNE 2012

*This application is designed to aid in determining your eligibility. Submit completed applications to the address above. INCOMPLETE APPLICATIONS WILL NOT BE REVIEWED.*

RESIDENTIAL \_\_\_\_\_ COMMERCIAL \_\_\_\_\_ EXISTING HOUSE \_\_\_\_\_ NEW CONSTRUCTION \_\_\_\_\_

1. PROPERTY OWNER: \_\_\_\_\_

2. PROPERTY ADDRESS: \_\_\_\_\_

3. TAX MAP \_\_\_\_\_ PARCEL \_\_\_\_\_ LOT # \_\_\_\_\_ SUBDIVISION \_\_\_\_\_

4. PROPERTY IN 1000-FT CRITICAL AREA: YES \_\_\_\_\_ NO \_\_\_\_\_ UNKNOWN \_\_\_\_\_

5. EXISTING SEPTIC SYSTEM IN FAILURE: YES \_\_\_\_\_ NO \_\_\_\_\_

6. REPAIR PERC TEST COMPLETED: YES \_\_\_\_\_ NO \_\_\_\_\_ UNKNOWN \_\_\_\_\_

APPLICANT/CONTACT PERSON: \_\_\_\_\_

MAILING ADDRESS: \_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_ FAX NUMBER: \_\_\_\_\_

***The Property Owner hereby certifies and agrees that:***

(1) the applicant is authorized to make the application; (2) the information is correct; (3) the applicant will comply with all regulations of St. Mary's County which are applicable hereto; (4) the applicant grants St. Mary's County officials and approved contractors the right to enter onto the property for the purpose of evaluation, inspection of the work permitted and performing any required maintenance and sampling.

Property Owners Signature \_\_\_\_\_ Date \_\_\_\_\_

HD FILE# \_\_\_\_\_

## EXAMPLE: CATEGORY 1, Failing OSDS in the Critical Area

July 1, 2010

John Doe  
P.O. Box 12  
City, MD 20653

Re: Bay Restoration Fund Request  
HD file #: 123-09  
Property Location: 12345 That Lane, Hollywood, MD 20636

Dear Mr. Doe,

Your application request to obtain Bay Restoration Funding for the required Advanced Treatment Unit (ATU) has been received. Since your property has an existing failing septic system and is located within the 1000-foot Critical Area, your property is eligible for 100% funding for the installation of the required ATU as long as funding is available. This letter will help guide you through the process of obtaining funds through the Bay Restoration Fund (BRF).

### **What can be reimbursed?**

The BRF will only reimburse for; (1) the cost of the ATU (2) cost of Operation and Maintenance for a 5-year period and (3) the installation cost of the unit, components and labor (including electrical connections).

### **ATU Selection:**

There are four field-verified and tested ATUs that have been approved for installation through the BRF grant program. Maryland Department of the Environment (MDE) has a predetermined fixed cost for two of the units which will cover all components of the ATU. The other two units have a grant allowance cap where the property owner would be responsible for paying the difference (if any). It is highly recommended that the property owner contact the vendors to determine which ATU might suit their property best. Electrical consumption and yearly Operation and Maintenance cost varies between the different ATUs and should be considered when choosing a unit. You may choose any of the four pre-approved technologies and must contact the vendor directly. A signed contract between the property owner and the chosen vendor needs to be submitted to this Office. **See Attachment 1 for vendor information.**

### **Conditions of Financial Assistance**

By reading and signing this form, you understand the conditions and limitations set forth in this document. This form must be returned to this Office along with the vendor contract in order for the review process to continue.

### **Agreement and Easement**

An Agreement and Easement document must be completed and signed by all parties. Once all signatures are obtained, the document must be recorded in the Land Records of St. Mary's County and a copy returned to the Office of Environmental Health. A copy of this document has been included for your review. A completed Agreement and Easement document will be provided to you for signature and recordation once the grant is awarded.

### **Award of Grant**

Once we have received the vendor contract, and the signed Conditions of Financial Assistance form, you will be notified with the approved grant amount and further instructions on installation of the septic system. No change orders will be accepted and the award amount will only be available for reimbursement up to 90 days after the Agreement and Easement document is recorded. *Any ATUs that are installed prior to award of the grant are not eligible for grant funding.*

### **Local Permitting Requirements**

All work on the OSDS must be permitted and inspected through the Office of Environmental Health. Your St. Mary's County licensed septic contractor must obtain all appropriate permits and pay all required fees prior to start of installation. The Agreement and Easement document must be completed and recorded prior to start of installation. Permit and recordation fees are not eligible for BRF funding.

If you have any questions or concerns, please do not hesitate to contact me at 301-475-4321. Thank you.

Sincerely,

Heather Moritz  
Sanitarian Supervisor

**Enclosures**

# Attachment 1

## BRF Approved Nitrogen Reduction Advanced Treatment Units

| Model   | Contact Information   | Fixed Cost* | Operation and Maint. Costs per Year ** | Increase in Electrical Cost and Consumption per year*** | Reduction of Total Nitrogen |
|---|---|-------------|--|---|-----------------------------|
| Hoot Aerobic Systems, Inc<br>Hoot 600 BNR®<br><a href="http://www.hootsystems.com">www.hootsystems.com</a>      | <b>Distributor</b><br>Mayer Bros, Inc.<br>Contact: Nancy Mayer<br>Phone: (410) 796-1434<br>Email:<br><a href="mailto:mayerbro@connext.net">mayerbro@connext.net</a>                                 | \$12,740    | \$150                                  | \$71.22/year<br>765.77kWh/year                          | 52%                         |
| Norweco, Inc.<br>Singulair 960 TNT®<br><a href="http://www.norweco.com">www.norweco.com</a>                     | <b>Distributor</b><br>Superior Tank, Inc.<br>Contact: Jeff Earnshaw<br>Phone: (301) 274-3772<br>Email:<br><a href="mailto:superiortank@olg.com">superiortank@olg.com</a>                            | \$10,903    | \$300                                  | \$91.11/year<br>979.66kWh/year                          | 50%                         |
| Orenco Systems®, Inc.<br>Advantex®-AX<br><a href="http://www.orenco.com">www.orenco.com</a>                     | <b>Distributor</b><br>Atlantic Solutions, Ltd<br>Contact: Owen Townley<br>Phone: 1-877-214-9283<br>Email:<br><a href="mailto:otownley@septicsystems.net">otownley@septicsystems.net</a>             | \$12,740*   | \$200                                  | \$31.23/year<br>335.8kWh/year                           | 69%                         |
| SeptiTech, Inc<br>SeptiTech® M440D,<br>M550D, M750D<br><a href="http://www.septitech.com">www.septitech.com</a> | <b>Distributor</b><br>RCR Septic Services, LLC<br>Contact: Chris Wireman<br>Phone: (443) 463-0637<br>Email:<br><a href="mailto:cwireman@rcrsepticsservices.com">cwireman@rcrsepticsservices.com</a> | \$12,740*   | \$300                                  | \$179.91/year<br>1934.5kWh/year                         | 59%                         |

\*Predetermined fixed cost of unit. Additional cost not covered by grant is the responsibility of the property owner.

\*\*Based on price to homeowner per year. All prices are Estimates and subject to change, contact manufacturer.

\*\*\*Based on an average rate from BGE, 8/2011 of \$0.093 per kWh and unit sized for 3 to 4 bedrooms

Information provided from the Maryland Department of the Environment website  
[http://www.mde.state.md.us/programs/Water/Bay RestorationFund/OnsiteDisposalSystems/Pages/Water/cbwrf/osds/brf\\_bat.aspx](http://www.mde.state.md.us/programs/Water/Bay%20RestorationFund/OnsiteDisposalSystems/Pages/Water/cbwrf/osds/brf_bat.aspx)

**EXAMPLE: CATEGORY 2, Failing OSDS outside of the Critical Area**

May 4, 2011

John Doe  
P.O. Box 123  
Hollywood, MD 20636

Re: Bay Restoration Fund Request  
HD file #: 123-10  
Property Location: 12345 That Lane, Leonardtown, MD 20650

Dear Mr. Doe

Your application request for Bay Restoration Funding for the Advanced Treatment Unit (ATU) has been re-evaluated based on additional grant money becoming available. This letter will help guide you through the process to obtaining funds through the Bay Restoration Fund (BRF). With limited funding and to ensure fair distribution of funds, properties with a failing OSDS that are not within the Critical Area Buffer will be funded based on available funds and the income based sliding scale. The replacement OSDS must be installed in conjunction with the ATU.

**Funding Eligibility:**

Since this property is not located within the 1000-foot Critical Area, you are only eligible for a percentage of the predetermined grant allowance. To determine the percentage of grant funding you are eligible for, a copy of your **2010 Federal Income Tax Return** needs to be submitted to this Office for review. The table below illustrates how the grant money will be disbursed according to the income based sliding scale.

| % Septic<br>BAT<br>Grant<br>Subsidy* | Federal<br>2010<br>Marginal<br>Tax rate | Taxable Income |         |                           |         |                              |         |                      |         |
|--------------------------------------|---|----------------|---------|---------------------------|---------|------------------------------|---------|----------------------|---------|
|                                      |   | Single         |         | Married Filing<br>Jointly |         | Married Filing<br>Separately |         | Head of<br>Household |         |
|                                      |   | over           | up to   | Over                      | up to   | over                         | up to   | over                 | up to   |
| 100%                                 | 10%                                     | 0              | 8,375   | 0                         | 16,750  | 0                            | 8,375   | 0                    | 11,950  |
| 100%                                 | 15%                                     | 8,375          | 34,000  | 16,750                    | 68,000  | 8,375                        | 34,000  | 11,950               | 45,500  |
| 75%                                  | 25%                                     | 34,000         | 82,400  | 68,000                    | 137,300 | 34,000                       | 68,650  | 45,500               | 117,650 |
| 50%                                  | 28%                                     | 82,400         | 171,850 | 137,300                   | 209,250 | 68,650                       | 104,625 | 117,650              | 190,550 |
| 25%                                  | 33%                                     | 171,850        | 373,650 | 209,250                   | 373,650 | 104,625                      | 186,825 | 190,550              | 373,650 |
| 25%                                  | 35%                                     | 373,650        |         | 373,650                   |         | 186,825                      |         | 373,650              |         |

\*2009 Federal Income Tax Return required if an IRS time extension was requested for 2010 return

\*\*For all other applications (businesses, non-residential, apartments, etc), not in the Critical Area, only 25% of the ATU will be funded\*\*



**What will be reimbursed?**

The BRF will only go towards a portion of the cost for; (1) the ATU (2) Operation and Maintenance for a 5-year period and (3) the installation cost of the unit, components and labor (including electrical connections).

**ATU Selection:**

There are four ATUs that have been approved by the Maryland Department of the Environment for installation with the use of BRF money. These vendors have been field tested and verified and have a predetermined grant allowance. All additional costs not covered by the grant award are the responsibility of the property owner. It is highly recommended that the property owner contacts the vendors to determine which ATU might suit their property best. Electrical consumption varies between the ATUs and should be considered when choosing a unit. You may choose any of the four pre-approved technologies and must contact the vendor directly. A signed contract between the property owner and the chosen vendor needs to be submitted to this Office. **See Attachment 1 for vendor information.**

**Conditions of Financial Assistance**

By reading and signing this form, you understand the conditions and limitations set forth in this document. This form must be returned to this Office along with the vendor contract and Federal Tax Return in order for the review process to continue.

**Agreement and Easement**

An Agreement and Easement document must be completed and signed by all parties. Once all signatures are obtained, the document must be recorded in the Land Records of St. Mary's County and a copy returned to the Office of Environmental Health. A copy of this document has been included for your review. A completed Agreement and Easement document will be provided to you for signature and recordation once the grant is awarded.

**Award of Grant**

Once we have received the vendor contract, your 2010 Federal Tax Return and the Conditions of Financial Assistance form, you will be notified with the approved grant amount and further instructions on installation of the septic system. No change orders will be accepted and the award amount will only be available for reimbursement up to 90 days after recordation of the Agreement and Easement document. ***Any ATUs that are installed prior to award of the grant are not eligible for grant funding.***

**Local Permitting Requirements**

All work on the OSDS must be permitted and inspected through the Office of Environmental Health. Your St. Mary's County licensed septic contractor must obtain all appropriate permits and pay all required fees prior to start of installation. The Agreement and Easement document must be completed and recorded prior to start of installation. Permit and recordation fees are not eligible for BRF funding.

If you have any questions or concerns, please do not hesitate to contact me at 301-475-4321. Thank you.

Sincerely,

Heather Moritz  
Sanitarian Supervisor

**Enclosures**

# Attachment 1

## BRF Approved Nitrogen Reduction Advanced Treatment Units

| Model   | Contact Information   | Fixed Cost* | Operation and Maint. Costs per Year ** | Increase in Electrical Cost and Consumption per year*** | Reduction of Total Nitrogen |
|---|---|-------------|--|---|-----------------------------|
| Hoot Aerobic Systems, Inc<br>Hoot 600 BNR®<br><a href="http://www.hootsystems.com">www.hootsystems.com</a>      | <b>Distributor</b><br>Mayer Bros, Inc.<br>Contact: Nancy Mayer<br>Phone: (410) 796-1434<br>Email:<br><a href="mailto:mayerbro@connext.net">mayerbro@connext.net</a>                                 | \$12,740    | \$150                                  | \$71.22/year<br>765.77kWh/year                          | 52%                         |
| Norweco, Inc.<br>Singulair 960 TNT®<br><a href="http://www.norweco.com">www.norweco.com</a>                     | <b>Distributor</b><br>Superior Tank, Inc.<br>Contact: Jeff Earnshaw<br>Phone: (301) 274-3772<br>Email:<br><a href="mailto:superiortank@olg.com">superiortank@olg.com</a>                            | \$10,903    | \$300                                  | \$91.11/year<br>979.66kWh/year                          | 50%                         |
| Orenco Systems®, Inc.<br>Advantex®-AX<br><a href="http://www.orenco.com">www.orenco.com</a>                     | <b>Distributor</b><br>Atlantic Solutions, Ltd<br>Contact: Owen Townley<br>Phone: 1-877-214-9283<br>Email:<br><a href="mailto:otownley@septicssystems.net">otownley@septicssystems.net</a>           | \$12,740*   | \$200                                  | \$31.23/year<br>335.8kWh/year                           | 69%                         |
| SeptiTech, Inc<br>SeptiTech® M440D,<br>M550D, M750D<br><a href="http://www.septitech.com">www.septitech.com</a> | <b>Distributor</b><br>RCR Septic Services, LLC<br>Contact: Chris Wireman<br>Phone: (443) 463-0637<br>Email:<br><a href="mailto:cwireman@rcrsepticsservices.com">cwireman@rcrsepticsservices.com</a> | \$12,740*   | \$300                                  | \$179.91/year<br>1934.5kWh/year                         | 59%                         |

\*Predetermined fixed cost of unit. Additional cost not covered by grant is the responsibility of the property owner.

\*\*Based on price to homeowner per year. All prices are Estimates and subject to change, contact manufacturer.

\*\*\*Based on an average rate from BGE, 8/2011 of \$0.093 per kWh and unit sized for 3 to 4 bedrooms

Information provided from the Maryland Department of the Environment website

[http://www.mde.state.md.us/programs/Water/BayRestorationFund/OnsiteDisposalSystems/Pages/Water/cbwrf/osds/brf\\_bat.aspx](http://www.mde.state.md.us/programs/Water/BayRestorationFund/OnsiteDisposalSystems/Pages/Water/cbwrf/osds/brf_bat.aspx)

**EXAMPLE: CATEGORIES 3&4, Non-failing OSDS, ATU required component of new installation of entire OSDS**

June 23, 2011

Jane Doe  
P.O. Box 3  
Hollywood, MD 20636

Re: Bay Restoration Fund Request Status  
HD file #: 135-00  
Property Location: 12345 That Lane, St. Inigoes, MD 20684

Dear Ms. Doe,

Your application request to obtain Bay Restoration Funding for the required Advanced Treatment Unit (ATU) has been re-evaluated. This letter will help guide you through the process to obtaining funds through the Bay Restoration Fund (BRF). With limited funding and to ensure fair distribution of funds, properties located within the Critical Area Buffer that require the ATU to be installed as a component of the Onsite Sewage Disposal System (OSDS) will be funded based on available funds and the income based sliding scale. The entire OSDS must be installed in conjunction with the ATU.

**Funding Eligibility:**

Since this property does not have a failing OSDS, you are only eligible for a percentage of the predetermined grant allowance. To determine the percentage of grant funding you are eligible for, a copy of your **2010 Federal Income Tax Return** needs to be submitted to this Office for review. The table below illustrates how the grant money will be disbursed according to the income based sliding scale.

| % Septic<br>BAT<br>Grant<br>Subsidy* | Federal<br>2010<br>Marginal<br>Tax rate | <i>Taxable Income</i> |         |                           |         |                              |         |                      |         |
|--------------------------------------|---|-----------------------|---------|---------------------------|---------|------------------------------|---------|----------------------|---------|
|                                      |   | Single                |         | Married Filing<br>Jointly |         | Married Filing<br>Separately |         | Head of<br>Household |         |
|                                      |   | over                  | up to   | Over                      | up to   | over                         | up to   | over                 | up to   |
| 100%                                 | 10%                                     | 0                     | 8,375   | 0                         | 16,750  | 0                            | 8,375   | 0                    | 11,950  |
| 100%                                 | 15%                                     | 8,375                 | 34,000  | 16,750                    | 68,000  | 8,375                        | 34,000  | 11,950               | 45,500  |
| 75%                                  | 25%                                     | 34,000                | 82,400  | 68,000                    | 137,300 | 34,000                       | 68,650  | 45,500               | 117,650 |
| 50%                                  | 28%                                     | 82,400                | 171,850 | 137,300                   | 209,250 | 68,650                       | 104,625 | 117,650              | 190,550 |
| 25%                                  | 33%                                     | 171,850               | 373,650 | 209,250                   | 373,650 | 104,625                      | 186,825 | 190,550              | 373,650 |
| 25%                                  | 35%                                     | 373,650               |         | 373,650                   |         | 186,825                      |         | 373,650              |         |

\*2009 Federal Income Tax Return required if an IRS time extension was requested for 2010 return

\*\*For all other applications (businesses, non-residential, apartments, etc), not in the Critical Area, only 25% of the ATU will be funded\*\*

**What will be reimbursed?**

The BRF will only go towards a portion of the cost for; (1) the ATU (2) Operation and Maintenance for a 5-year period and (3) the installation cost of the unit, components and labor (including electrical connections).

**ATU Selection:**

There are four ATUs that have been approved by the Maryland Department of the Environment for installation with the use of BRF money. These vendors have been field tested and verified and have a predetermined grant allowance. All additional costs not covered by the grant award are the responsibility of the property owner. It is highly recommended that the property owner contacts the vendors to determine which ATU might suit their property best. Electrical consumption varies between the ATUs and should be considered when choosing a unit. You may choose any of the four pre-approved technologies and must contact the vendor directly. A signed contract between the property owner and the chosen vendor needs to be submitted to this Office. **See Attachment 1 for vendor information.**

**Conditions of Financial Assistance**

By reading and signing this form, you understand the conditions and limitations set forth in this document. This form must be returned to this Office along with the vendor contract and Federal Tax Return in order for the review process to continue.

**Agreement and Easement**

An Agreement and Easement document must be completed and signed by all parties. Once all signatures are obtained, the document must be recorded in the Land Records of St. Mary's County and a copy returned to the Office of Environmental Health. A copy of this document has been included for your review. A completed Agreement and Easement document will be provided to you for signature and recordation once the grant is awarded.

**Award of Grant**

Once we have received the vendor contract, your 2010 Federal Tax Return and the Conditions of Financial Assistance form, you will be notified with the approved grant amount and further instructions on installation of the septic system. No change orders will be accepted and the award amount will only be available for reimbursement up to 90 days after the Agreement and Easement document is recorded. *Any ATUs that are installed prior to award of the grant are not eligible for grant funding.*

**Local Permitting Requirements**

All work on the OSDS must be permitted and inspected through the Office of Environmental Health. Your St. Mary's County licensed septic contractor must obtain all appropriate permits and pay all required fees prior to start of installation. The Agreement and Easement document must be completed and recorded prior to start of installation. Permit and recordation fees are not eligible for BRF funding.

If you have any questions or concerns, please do not hesitate to contact me at 301-475-4321. Thank you.

Sincerely,

Heather Moritz  
Sanitarian Supervisor

**Enclosures**

# Attachment 1

## BRF Approved Nitrogen Reduction Advanced Treatment Units

| Model   | Contact Information   | Fixed Cost* | Operation and Maint. Costs per Year ** | Increase in Electrical Cost and Consumption per year*** | Reduction of Total Nitrogen |
|---|---|-------------|--|---|-----------------------------|
| Hoot Aerobic Systems, Inc<br>Hoot 600 BNR®<br><a href="http://www.hootsystems.com">www.hootsystems.com</a>      | <b>Distributor</b><br>Mayer Bros, Inc.<br>Contact: Nancy Mayer<br>Phone: (410) 796-1434<br>Email:<br><a href="mailto:mayerbro@connext.net">mayerbro@connext.net</a>                                 | \$12,740    | \$150                                  | \$71.22/year<br>765.77kWh/year                          | 52%                         |
| Norweco, Inc.<br>Singular 960 TNT®<br><a href="http://www.norweco.com">www.norweco.com</a>                      | <b>Distributor</b><br>Superior Tank, Inc.<br>Contact: Jeff Earnshaw<br>Phone: (301) 274-3772<br>Email:<br><a href="mailto:superiortank@olg.com">superiortank@olg.com</a>                            | \$10,903    | \$300                                  | \$91.11/year<br>979.66kWh/year                          | 50%                         |
| Orenco Systems®, Inc.<br>Advantex®-AX<br><a href="http://www.orenco.com">www.orenco.com</a>                     | <b>Distributor</b><br>Atlantic Solutions, Ltd<br>Contact: Owen Townley<br>Phone: 1-877-214-9283<br>Email:<br><a href="mailto:otownley@septicssystem.net">otownley@septicssystem.net</a>             | \$12,740*   | \$200                                  | \$31.23/year<br>335.8kWh/year                           | 69%                         |
| SeptiTech, Inc<br>SeptiTech® M440D,<br>M550D, M750D<br><a href="http://www.septitech.com">www.septitech.com</a> | <b>Distributor</b><br>RCR Septic Services, LLC<br>Contact: Chris Wireman<br>Phone: (443) 463-0637<br>Email:<br><a href="mailto:cwireman@rcrsepticsservices.com">cwireman@rcrsepticsservices.com</a> | \$12,740*   | \$300                                  | \$179.91/year<br>1934.5kWh/year                         | 59%                         |

\*Predetermined fixed cost of unit. Additional cost not covered by grant is the responsibility of the property owner.

\*\*Based on price to homeowner per year. All prices are Estimates and subject to change, contact manufacturer.

\*\*\*Based on an average rate from BGE, 8/2011 of \$0.093 per kWh and unit sized for 3 to 4 bedrooms

Information provided from the Maryland Department of the Environment website

[http://www.mdc.state.md.us/programs/Water/BayRestorationFund/OnsiteDisposalSystems/Pages/Water/cbwrt/osds/brf\\_bat.aspx](http://www.mdc.state.md.us/programs/Water/BayRestorationFund/OnsiteDisposalSystems/Pages/Water/cbwrt/osds/brf_bat.aspx)

**EXAMPLE: CATEGORY 3&4, Voluntary upgrade of tank only**

June 8, 2011

John Doe  
P.O. Box 1  
Chaptico, MD 20621

Re: Bay Restoration Fund Request  
HD file #: 123-01  
Property Location: 12345 That Lane, Chaptico, MD 20621

Dear Mr. Doe,

Your application request for Bay Restoration Funding for the Advanced Treatment Unit (ATU) has been re-evaluated based on additional grant money becoming available. This letter will help guide you through the process to obtaining funds through the Bay Restoration Fund (BRF). With limited funding and to ensure fair distribution of funds, properties without a failing OSDS within the Critical Area Buffer will be funded based on available funds and the income based sliding scale.

**Funding Eligibility:**

Since this property does not have a failing OSDS, you are only eligible for a percentage of the predetermined grant allowance. To determine the percentage of grant funding you are eligible for, a copy of your 2010 Federal Income Tax Return needs to be submitted to this Office for review. The table below illustrates how the grant money will be disbursed according to the income based sliding scale.

| % Septic<br>BAT<br>Grant<br>Subsidy* | Federal<br>2010<br>Marginal<br>Tax rate | Taxable Income |         |                           |         |                              |         |                      |         |
|--------------------------------------|---|----------------|---------|---------------------------|---------|------------------------------|---------|----------------------|---------|
|                                      |   | Single         |         | Married Filing<br>Jointly |         | Married Filing<br>Separately |         | Head of<br>Household |         |
|                                      |   | over           | up to   | Over                      | up to   | over                         | up to   | over                 | up to   |
| 100%                                 | 10%                                     | 0              | 8,375   | 0                         | 16,750  | 0                            | 8,375   | 0                    | 11,950  |
| 100%                                 | 15%                                     | 8,375          | 34,000  | 16,750                    | 68,000  | 8,375                        | 34,000  | 11,950               | 45,500  |
| 75%                                  | 25%                                     | 34,000         | 82,400  | 68,000                    | 137,300 | 34,000                       | 68,650  | 45,500               | 117,650 |
| 50%                                  | 28%                                     | 82,400         | 171,850 | 137,300                   | 209,250 | 68,650                       | 104,625 | 117,650              | 190,550 |
| 25%                                  | 33%                                     | 171,850        | 373,650 | 209,250                   | 373,650 | 104,625                      | 186,825 | 190,550              | 373,650 |
| 25%                                  | 35%                                     | 373,650        |         | 373,650                   |         | 186,825                      |         | 373,650              |         |

\*2009 Federal Income Tax Return required if an IRS time extension was requested for 2010 return

\*\*For all other applications (businesses, non-residential, apartments, etc), not in the Critical Area, only 25% of the ATU will be funded\*\*

### **What will be reimbursed?**

The BRF will only go towards a portion of the cost for; (1) the ATU (2) Operation and Maintenance for a 5-year period and (3) the installation cost of the unit, components and labor (including electrical connections).

### **ATU Selection:**

There are four ATUs that have been approved by the Maryland Department of the Environment for installation with the use of BRF money. These vendors have been field tested and verified and have a predetermined grant allowance. All additional costs not covered by the grant award are the responsibility of the property owner. It is highly recommended that the property owner contacts the vendors to determine which ATU might suit their property best. Electrical consumption varies between the ATUs and should be considered when choosing a unit. You may choose any of the four pre-approved technologies and must contact the vendor directly. A signed contract between the property owner and the chosen vendor needs to be submitted to this Office. *See Attachment 1 for vendor information.*

### **Agreement and Easement**

An Agreement and Easement document must be completed and signed by all parties. Once all signatures are obtained, the document must be recorded in the Land Records of St. Mary's County and a copy returned to the Office of Environmental Health. A copy of this document has been included for your review. A completed Agreement and Easement document will be provided to you for signature and recordation once the grant is awarded.

### **Award of Grant**

Once we have received the vendor contract and your 2010 Federal Tax Return, you will be notified with the approved grant amount and further instructions on installation of the ATU. No change orders will be accepted and the award amount will only be available for reimbursement up to 90 days after the Agreement and Easement document is recorded. *Any ATUs that are installed prior to award of the grant are not eligible for grant funding.*

### **Local Permitting Requirements**

All work on the OSDS must be permitted and inspected through the Office of Environmental Health. Your St. Mary's County licensed septic contractor must obtain all appropriate permits and pay all required fees prior to start of installation. The Agreement and Easement document must be completed and recorded prior to start of installation. Permit and recordation fees are not eligible for BRF funding.

If you have any questions or concerns, please do not hesitate to contact me at 301-475-4321. Thank you.

Sincerely,

Heather Moritz  
Sanitarian Supervisor

**Enclosures**

# Attachment 1

## BRF Approved Nitrogen Reduction Advanced Treatment Units

| Model   | Contact Information   | Fixed Cost* | Operation and Maint. Costs per Year ** | Increase in Electrical Cost and Consumption per year*** | Reduction of Total Nitrogen |
|---|---|-------------|--|---|-----------------------------|
| Hoot Aerobic Systems, Inc<br>Hoot 600 BNR®<br><a href="http://www.hootsystems.com">www.hootsystems.com</a>      | <b>Distributor</b><br>Mayer Bros, Inc.<br>Contact: Nancy Mayer<br>Phone: (410) 796-1434<br>Email:<br><a href="mailto:mayerbro@connex.net">mayerbro@connex.net</a>                                   | \$12,740    | \$150                                  | \$71.22/year<br>765.77kWh/year                          | 52%                         |
| Norweco, Inc.<br>Singulair 960 TNT®<br><a href="http://www.norweco.com">www.norweco.com</a>                     | <b>Distributor</b><br>Superior Tank, Inc.<br>Contact: Jeff Earnshaw<br>Phone: (301) 274-3772<br>Email:<br><a href="mailto:superiortank@olg.com">superiortank@olg.com</a>                            | \$10,903    | \$300                                  | \$91.11/year<br>979.66kWh/year                          | 50%                         |
| Orenco Systems®, Inc.<br>Advantex®-AX<br><a href="http://www.orengo.com">www.orengo.com</a>                     | <b>Distributor</b><br>Atlantic Solutions, Ltd<br>Contact: Owen Townley<br>Phone: 1-877-214-9283<br>Email:<br><a href="mailto:otownley@septicssystems.net">otownley@septicssystems.net</a>           | \$12,740*   | \$200                                  | \$31.23/year<br>335.8kWh/year                           | 69%                         |
| SeptiTech, Inc<br>SeptiTech® M440D,<br>M550D, M750D<br><a href="http://www.septitech.com">www.septitech.com</a> | <b>Distributor</b><br>RCR Septic Services, LLC<br>Contact: Chris Wireman<br>Phone: (443) 463-0637<br>Email:<br><a href="mailto:cwireman@rcrsepticsservices.com">cwireman@rcrsepticsservices.com</a> | \$12,740*   | \$300                                  | \$179.91/year<br>1934.5kWh/year                         | 59%                         |

\*Predetermined fixed cost of unit. Additional cost not covered by grant is the responsibility of the property owner.

\*\*Based on price to homeowner per year. All prices are Estimates and subject to change, contact manufacturer.

\*\*\*Based on an average rate from BGE, 8/2011 of \$0.093 per kWh and unit sized for 3 to 4 bedrooms

Information provided from the Maryland Department of the Environment website

[http://www.mde.state.md.us/programs/Water/BayRestorationFund/OnsiteDisposalSystems/Pages/Water/cbwrt/osds/brf\\_bat.aspx](http://www.mde.state.md.us/programs/Water/BayRestorationFund/OnsiteDisposalSystems/Pages/Water/cbwrt/osds/brf_bat.aspx)



**EXAMPLE: AWARD LETTER, 100% funded**

October 18, 2011

John Doe  
P.O. Box 3  
Hollywood, MD 20636

Re: Bay Restoration Fund Award  
HD file # 844-07  
Property Address: 12345 That Lane, Hollywood, MD 20636

Dear Mr. Doe,

Based on the contract submitted for the installation of a Nitrogen Reducing Advanced Treatment Unit (ATU) through the Bay Restoration Fund (BRF), we are pleased to announce the award amount of **\$10,903**. This will cover the cost of the installation of a **Singulair 960 TNT®** system as well as the cost of Operation and Maintenance for 5 years. The grant does not cover any cost associated with the installation of a disposal system (including Sand Mounds), recordation or permit fees.

This award amount is only available for reimbursement up to 90 days after the Agreement and Easement document is recorded. All applicants who fail to have the ATU installed, inspected and approved within this time period must re-apply for grant funding.

**When can the septic system be installed?**

The enclosed Agreement and Easement document needs to be signed and recorded in land records and a copy brought back to the Office of Environmental Health within **30 days** of receipt. Failure to do so will result in the grant funding being rescinded and will require reapplication. An installation application must be submitted and paid for by your St. Mary's County licensed septic contractor prior to start of construction on the new septic system.

**How do I get reimbursed?**

Reimbursement is done directly to the ATU vendor who then pays the septic contractor. Again, the grant money awarded does not include the cost to have a new disposal field or Sand Mound system installed. This part of the septic system is your responsibility.

Thank you for participating in this important program that will contribute to the improved health of the Chesapeake Bay. If you have any questions or concerns, please do not hesitate to contact me at 301-475-4321.

Sincerely,

Heather Moritz  
Sanitarian Supervisor

**Enclosure**

## **EXAMPLE: AWARD LETTER, Partial Funding**

February 11, 2009

John Doe  
12345 That Lane  
City, MD 20636

Re: Bay Restoration Fund Award  
HD file # 123-09  
Property Address: 12345 That Lane, Hollywood, MD 20636

Dear Mr. Doe,

Based on the contract and Federal Tax Form submitted for the installation of a Nitrogen Reducing Advanced Treatment Unit (ATU) through the Bay Restoration Fund (BRF), we are pleased to announce the award amount of **\$9555.00** towards the installation of an **Advantex®-AX** system. Any additional costs not covered by the award amount are the responsibility of the property owner. The grant does not cover any cost associated with the installation of a disposal system (including Sand Mounds), recordation or permit fees.

This award amount is only available for reimbursement up to 90 days after the Agreement and Easement document is recorded. All applicants who fail to have the ATU installed, inspected and approved within this time period must re-apply for grant funding.

### **When can the septic system be installed?**

The enclosed Agreement and Easement document needs to be signed and recorded in land records and a copy brought back to the Office of Environmental Health within **30 days** of receipt. Failure to do so will result in the grant funding being rescinded and will require reapplication. An installation application must be submitted and paid for by your St. Mary's County licensed septic contractor prior to start of construction on the new septic system.

### **How do I get reimbursed?**

Reimbursement is done directly to the ATU vendor who then pays the septic contractor. Again, the grant money awarded does not include the cost to have a new disposal field or Sand Mound system installed. This part of the septic system is your responsibility.

Thank you for participating in this important program that will contribute to the improved health of the Chesapeake Bay. If you have any questions or concerns, please do not hesitate to contact me at 301-475-4321.

Sincerely,

Heather Moritz  
Sanitarian Supervisor

**Enclosure**

G:\002 EHI Programs\Septic Program\BRF - Bay Restoration Fund\\$\$\$ GRANT \$\$\$\Award letter.doc

**ST. MARY'S COUNTY HEALTH DEPARTMENT  
OFFICE OF ENVIRONMENTAL HEALTH  
21580 PEABODY STREET  
P.O. BOX 316  
LEONARDTOWN, MD 20650**

**Conditions of Financial Assistance Document**

I, \_\_\_\_\_ have applied for the installation of a nitrogen-reducing Advanced Treatment Unit (ATU) for my property located at \_\_\_\_\_ . I understand that the Bay Restoration Fund will only fund the cost of the ATU, the Operation and Maintenance for a 5-year period, the installation, labor and components (including electrical connections) directly related to the removal of nitrogen. No portion of the disposal field (including Sand Mounds) will be covered by the Bay Restoration Fund and I am fully responsible for these costs.

\_\_\_\_\_  
*Property Owners Signature*

\_\_\_\_\_  
*Date*

*St. Mary's County Health Department, Division of Environmental Health*

**AGREEMENT AND EASEMENT FOR INSTALLATION  
OF BEST AVAILABLE TECHNOLOGY SYSTEMS  
WITH BAY RESTORATION FUNDS.**

THIS AGREEMENT is made this \_\_\_\_\_ day of \_\_\_\_\_, among \_\_\_\_\_ hereinafter referred to as "Owner," the St. Mary's County Health Department hereinafter collectively referred to as the "County," and the Department of the Environment, hereinafter referred to as the "Department."

WHEREAS, Owner owns a tract of land located on \_\_\_\_\_ in the **6th** Election District of St. Mary's County, Maryland, and the deed to same is recorded among the Land Records of St. Mary's County, Maryland, in \_\_\_\_\_

WHEREAS, the Bay Restoration Fund (BRF) may provide a grant for the cost attributable to upgrading an onsite sewage disposal system to the Best Available Technology (BAT) for the removal of nitrogen.

WHEREAS, the BRF may also provide a grant for the cost difference between a traditional onsite sewage disposal system and a system that utilizes the BAT for the removal of nitrogen.

NOW, THEREFORE, the parties hereto agree as follows:

- A. Owner hereby grants to the Department and the County the right to enter upon the property at any reasonable time for access to the system to make periodic inspections and the Owner agrees to provide any information and data requested and needed by the Department to develop accurate and thorough test results.
- B. Owner acknowledges and agrees that a manufacturer-approved installer will install the BAT system.
- C. Owner acknowledges and agrees the manufacturer will provide for Operation and Maintenance of the BAT for a period of 5 years as a condition of sale of the BAT. After the 5 year period the Operation and Maintenance contract must be further extended at the expense of the property owner in perpetuity. The property owner must continuously maintain an Operation and Maintenance contract during the lifetime of the system.
- D. Owner acknowledges and agrees that the manufacturer appointed Operation and Maintenance provider will have access to the BAT system at all times.
- E. Owner acknowledges and agrees that the manufacturer or manufacturers designee will have access to sample the effluent of the BAT system. Owner agrees that there shall be no liability on the part of the County or Department to Owner if this BAT system fails, and that the County and the Department do not warrant or guarantee that the BAT system will adequately or properly function.
- F. Owner acknowledges and agrees that neither the County nor the Department nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.
- G. The Owner will devote such care and effort to the maintenance of the BAT system so that any malfunction is not the result of poor maintenance, faulty operation, or neglect.
- H. The Department and/or County agree to grant **\$10,903** toward the cost of installation of the BAT System, and financial responsibility is limited to this amount. Operating costs will be at the Owner's expense.
- I. The Owner acknowledges that the BRF grant can only be used for that portion of the OSDS attributable to (BAT) for the removal of nitrogen.

- J. The Owner must install BAT system according to the manufacturer recommended plans and specifications approved by the Department.
- K. The Owner agrees and acknowledges that if installation deviates substantially from the approved plans or changes such that performance of the system is compromised or reduced, BRF funding will not be provided.
- L. This agreement shall run with the land and binds the Owner, his heirs, successors, assigns except that the provisions of paragraph A, C, D and E shall be binding for a period of 5 years only after installation of the system and occupation of the home. Owner further agrees that he shall inform in writing any purchaser or lessee of the property that the system may require maintenance or other attention. The Owner agrees to record this agreement in the land records of St. Mary's County.
- M. This agreement shall not be construed to limit any authority of the Department to protect the public health, safety or comfort or to issue any other orders to take any other action that is now or may hereafter be within its authority.
- N. This agreement may be voided at the discretion of the County if the system construction is not completed within 90 days of recordation of the Agreement and Easement document.
- O. This agreement contains the entire agreement and understanding between the County and the Owner and the Department. There are no additional terms other than as contained in this agreement. This agreement may not be modified except in writing signed by each of the parties or by their authorized representatives.
- P. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

DATE: \_\_\_\_\_

\_\_\_\_\_

Owner

DATE: \_\_\_\_\_

\_\_\_\_\_

Daryl Calvano  
 Environmental Health Director  
 St. Mary's County Health Department

**BAY RESTORATION FUND SITE VISIT**

HD file # \_\_\_\_\_

Property Owner: \_\_\_\_\_

Property Address: \_\_\_\_\_

Sanitarian: \_\_\_\_\_ Date: \_\_\_\_\_

Sewage breaking ground surface?                      YES \_\_\_\_\_                      NO \_\_\_\_\_

.....  
Layout of property

# Attachment 1

## BRF Approved Nitrogen Reduction Advanced Treatment Units

| Model   | Contact Information   | Fixed Cost* | Operation and Maint. Costs per Year ** | Increase in Electrical Cost and Consumption per year*** | Reduction of Total Nitrogen |
|---|---|-------------|--|---|-----------------------------|
| Hoot Aerobic Systems, Inc<br>Hoot 600 BNR®<br><a href="http://www.hootsystems.com">www.hootsystems.com</a>      | <b>Distributor</b><br>Mayer Bros, Inc.<br>Contact: Nancy Mayer<br>Phone: (410) 796-1434<br>Email:<br><a href="mailto:mayerbro@connext.net">mayerbro@connext.net</a>                                 | \$12,740    | \$150                                  | \$71.22/year<br>765.77kWh/year                          | 52%                         |
| Norweco, Inc.<br>Singulair 960 TNT®<br><a href="http://www.norweco.com">www.norweco.com</a>                     | <b>Distributor</b><br>Superior Tank, Inc.<br>Contact: Jeff Earnshaw<br>Phone: (301) 274-3772<br>Email:<br><a href="mailto:superiortank@olg.com">superiortank@olg.com</a>                            | \$10,903    | \$300                                  | \$91.11/year<br>979.66kWh/year                          | 50%                         |
| Orengo Systems®, Inc.<br>Advantex®-AX<br><a href="http://www.orengo.com">www.orengo.com</a>                     | <b>Distributor</b><br>Atlantic Solutions, Ltd<br>Contact: Owen Townley<br>Phone: 1-877-214-9283<br>Email:<br><a href="mailto:otownley@septicssystems.net">otownley@septicssystems.net</a>           | \$12,740*   | \$200                                  | \$31.23/year<br>335.8kWh/year                           | 69%                         |
| SeptiTech, Inc<br>SeptiTech® M440D,<br>M550D, M750D<br><a href="http://www.septitech.com">www.septitech.com</a> | <b>Distributor</b><br>RCR Septic Services, LLC<br>Contact: Chris Wireman<br>Phone: (443) 463-0637<br>Email:<br><a href="mailto:cwireman@rcrsepticsservices.com">cwireman@rcrsepticsservices.com</a> | \$12,740*   | \$300                                  | \$179.91/year<br>1934.5kWh/year                         | 59%                         |

\*Predetermined fixed cost of unit. Additional cost not covered by grant is the responsibility of the property owner.

\*\*Based on price to homeowner per year. All prices are Estimates and subject to change, contact manufacturer.

\*\*\*Based on an average rate from BGE, 8/2011 of \$0.093 per kWh and unit sized for 3 to 4 bedrooms

Information provided from the Maryland Department of the Environment website

[http://www.mde.state.md.us/programs/Water/BayRestorationFund/OnsiteDisposalSystems/Pages/Water/cbwrf/osds/brf\\_bat.aspx](http://www.mde.state.md.us/programs/Water/BayRestorationFund/OnsiteDisposalSystems/Pages/Water/cbwrf/osds/brf_bat.aspx)

| VENDOR IN ASCENDING ORDER |                         | COST OF PURCHASE, INSTALLATION AND 5 YEAR OPERATION MAINTENANCE | VERIFIED BY |
|---------------------------|-------------------------|---|-------------|
| 1                         | Singular TNT            | \$11,079.00   | Vendor      |
| 2                         | Hoot BNR                | \$11,954.00   | Vendor      |
| 3                         | Advantex AX20           | \$12,300.00   | Vendor      |
| 4                         | SeptiTech M400D         | \$13,056.00   | Vendor      |
| 1                         | BioMicrobes RetroFast** | \$9,405.00  | Vendor      |
| 2                         | Aquasafe                | \$10,830.00   | Vendor      |
| 3                         | Singular Green          | \$11,079.00   | Vendor      |
| 4                         | Advantex AX20RT         | \$12,300.00   | Vendor      |
| 5                         | Bionest SOLO OT-60      | \$13,219.00   | Vendor      |
| 6                         | Hoot ANR                | \$15,607.70   | Vendor      |
| 7                         | Waterloo Biofilter 750  | \$16,317.00   | Vendor      |
| 8                         | Aquapoint Bioclere      | \$16,750.00   | Vendor      |
| 9                         | Nitrex***               | \$17,000.00   | Vendor      |
| #                         | Amphidrome              | \$22,921.50   | Vendor      |

| VENDOR IN ASCENDING ORDER |                    | % REDUCTION TN    | VERIFIED BY       |
|---------------------------|--------------------|-------------------|-------------------|
| 1                         | Advantex AX20      | 69%               | MDE               |
| 2                         | SeptiTech M400D    | 59%               | MDE               |
| 3                         | Hoot BNR           | 52%               | MDE               |
| 4                         | Singular TNT       | 50%               | MDE               |
| 1                         | Advantex AX20RT    | Deliberative Data | Deliberative Data |
| 2                         | Amphidrome         | Deliberative Data | Deliberative Data |
| 3                         | Aquasafe           | Deliberative Data | Deliberative Data |
| 4                         | Bioclere           | Deliberative Data | Deliberative Data |
| 5                         | Bionest            | Deliberative Data | Deliberative Data |
| 6                         | Hoot ANR           | Deliberative Data | Deliberative Data |
| 7                         | Nitrex***          | Deliberative Data | Deliberative Data |
| 8                         | RetroFast**        | Deliberative Data | Deliberative Data |
| 9                         | Singular Green     | Deliberative Data | Deliberative Data |
| #                         | Waterloo BioFilter | Deliberative Data | Deliberative Data |

| VENDOR IN ASCENDING ORDER |                    | PRICE PER POUND OF N REDUCED | VERIFIED BY       |
|---------------------------|--------------------|------------------------------|-------------------|
| 1                         | Advantex AX20      | \$595.71                     | MDE               |
| 2                         | Singular TNT       | \$744.67                     | MDE               |
| 3                         | SeptiTech M400D    | \$747.79                     | MDE               |
| 4                         | Hoot BNR           | \$770.85                     | MDE               |
| 1                         | Advantex AX20RT    | Deliberative Data            | Deliberative Data |
| 2                         | Amphidrome         | Deliberative Data            | Deliberative Data |
| 3                         | Aquasafe           | Deliberative Data            | Deliberative Data |
| 4                         | Bioclere           | Deliberative Data            | Deliberative Data |
| 5                         | Bionest            | Deliberative Data            | Deliberative Data |
| 6                         | Hoot ANR           | Deliberative Data            | Deliberative Data |
| 7                         | Nitrex***          | Deliberative Data            | Deliberative Data |
| 8                         | RetroFast**        | Deliberative Data            | Deliberative Data |
| 9                         | Singular Green     | Deliberative Data            | Deliberative Data |
| #                         | Waterloo BioFilter | Deliberative Data            | Deliberative Data |

Non Field Verified systems are listed alphabetically  
 For a flow chart on how to become a BAT in MD, click here.  
 As the data for non field verified systems is incomplete, MDE has classified the % reduction of TN and the Price per Pound of N Reduced for Non Field Verified Systems as Deliberative Data.

Price per pound of N reduced equals Price of technology plus increased electrical costs divided by (30 lbs of N per Year multiplied by percent reduction of N by system)  
 As the data for non field verified systems is incomplete, MDE has classified the % reduction of TN and the Price per Pound of N Reduced for Non Field Verified Systems as Deliberative Data.

| VENDOR IN ASCENDING ORDER |                    | 1 YEAR ELECTRICAL CONSUMPTION (represented as kWh/year) | INCREASED ELECTRICAL COSTS PER YEAR ASSUMING \$0.093 PER kWh | VERIFIED BY                |
|---------------------------|--------------------|---|--|----------------------------|
| 1                         | Advantex AX20      | 335.8 kWh/year  | \$31.23  | OSET NTP                   |
| 2                         | Hoot BNR           | 765.77 kWh/year   | \$71.22  | NSF International          |
| 3                         | Singular TNT       | 979.66 kWh/year   | \$91.11  | NAT Testing Lab            |
| 4                         | SeptiTech M400D    | 1934.50 kWh/year  | \$179.91   | Vendor                     |
| 1                         | Advantex AX20RT    | 335.8 kWh/year  | \$31.23  | OSET NTP                   |
| 2                         | Nitrex***          | 394.2 kWh/year  | \$36.66  | Vendor/OSET NTP            |
| 3                         | Waterloo BioFilter | 474.5 kWh/year  | \$44.13  | ETV                        |
| 4                         | Aquasafe           | 621.96 kWh/year   | \$57.84  | UL                         |
| 5                         | Hoot ANR           | 765.77 kWh/year   | \$71.22  | NSF International          |
| 6                         | Amphidrome         | 839.5 kWh/year  | \$78.07  | EPA, ETI                   |
| 7                         | Bioclere           | 886.44 kWh/year   | \$82.44  | New Jersey Pinelands study |
| 8                         | Singular Green     | 979.66 kWh/year   | \$91.11  | NAT Testing Lab            |
| 9                         | Bionest SOLO OT-60 | 1752 kWh/year   | \$162.94   | Pump Manufacturer          |
| #                         | RetroFast**        | 2584 kWh/year   | \$240.31   | Pump Manufacturer          |

| VENDOR IN ASCENDING ORDER |                 | OPERATION AND MAINTENANCE PER YEAR AFTER THE 6 YEAR CONTRACT | MINIMUM NUMBER OF SITE VISITS PER CONTRACT | VERIFIED BY |
|---------------------------|-----------------|--|--|-------------|
| 1                         | Hoot BNR        | \$150.00   | 1  | Vendor      |
| 2                         | Advantex AX20   | \$200.00   | 1  | Vendor      |
| 3                         | Singular TNT    | \$300.00   | 1  | Vendor      |
| 4                         | SeptiTech M400D | \$300.00   | 1  | Vendor      |
| 1                         | Bionest         | \$100.00   | 1  | Vendor      |
| 2                         | Aquasafe        | \$150.00   | 2  | Vendor      |
| 3                         | Waterloo        | \$150.00   | 1  | Vendor      |
| 4                         | Bioclere        | \$200.00   | 2  | Vendor      |
| 5                         | Advantex RT     | \$200.00   | 1  | Vendor      |
| 6                         | Nitrex          | \$200.00   | 1  | Vendor      |
| 7                         | Hoot ANR        | \$250.00   | 1  | Vendor      |
| 8                         | Singular Green  | \$300.00   | 2  | Vendor      |
| 9                         | RetroFast       | \$300.00   | 2  | Vendor      |
| #                         | Amphidrome      | \$330.00   | 1  | Vendor      |

All prices are Estimates and subject to change, contact manufacturer.  
 Additional Charges may apply with certain manufacturers. It is the responsibility of the homeowner to contact the manufacturer for precise details of contract.  
 Analysis based on price to homeowner per year.  
 \*\* Retrofast unit limited to households of 1-4 occupants with 3 bedrooms or less.  
 \*\*\* Nitrex unit electrical consumption is based on the electrical use of the Nitrex system coupled with an Advantex AX20.  
 For electrical pricing, click here.

**RED Font = Technologies that have successfully completed Maryland's Bay Restoration Fund Field Verification process.**  
**BLUE Font = Technologies that have not completed Maryland's Bay Restoration Fund Field Verification process.**  
 For a flow chart on how to become a BAT in MD, click here.  
 Please contact the county Environmental Health Division for specific process of submitting an application for the Bay Restoration Fund.  
 For a list of county contact information, CLICK HERE.  
 The information on this page is subject to change. Before selecting a technology for use on the property in question, please contact each vendor to verify the information is current and accurate. MDE is only a facilitator in presenting this information in.  
 For a list of vendor contact information, CLICK HERE.