

**CHARLES COUNTY DEPARTMENT OF HEALTH  
DIVISION OF ENVIRONMENTAL HEALTH  
PO BOX 1050  
WHITE PLAINS, MARYLAND 20695  
Phone 301-609-6751 Fax 301-609-6684**

**BAY RESTORATION FUND GRANT APPLICATION CHECKLIST- FY19**

**There are a limited number of BRF permits for New Construction being issued.**

Applicant Name: \_\_\_\_\_ Property ID# \_\_\_\_\_

Phone Number: \_\_\_\_\_ Date Package submitted: \_\_\_\_\_

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

The items below are needed before an agreement letter can be written. Please submit them together as soon as possible as **one package**.

- BRF Application
- Bid from a BAT manufacturer
- Tax return to verify income
- Site Plan. (Hand-drawn site plans acceptable for repairs only)
- For a site with a failing drain field, the following must be acquired and submitted with this package
  - Septic Permit
- For new construction the following must be acquired and submitted with this package
  - Septic Permit
  - Building Permit

Once all of the above have been submitted an agreement letter may be issued.

- Agreement signed & stamped by Land Records and returned to the Health Dept.

Once everything above has been submitted a permit **may** be issued.

- Permit issued by Health Dept is good for **60 days only**. **The tank must be installed and be inspected by Planchek within 60 days of the permit being issued.**

Once the tank is installed an inspection will be done by the Health Dept after the electrical has been inspected by Planchek.

- Copy of electrical inspection from Planchek

The following will need to be submitted to the Health Department after the tank has been installed.

- Letter from homeowner stating satisfactory install of tank
- Statement from distributor/Certificate of Insurance
- Invoice

\_\_\_\_\_  
Signature

**CHARLES COUNTY DEPARTMENT OF HEALTH  
DIVISION OF ENVIRONMENTAL HEALTH  
4545 CRAIN HIGHWAY, PO BOX 1050  
WHITE PLAINS, MARYLAND 20695**

**BAY RESTORATION GRANT APPLICATION  
NITROGEN-REDUCING PRETREATMENT UNIT**

**This application is designed to aid in determining your eligibility. Submit completed applications to the address above. Please note if you are issued a BRF permit it will be valid for 60 days past the date of issuance.**

<u>BUILDING</u>	<u>TYPE</u>	<u>BAT Funding Eligibility for Type of Property</u>	<u>WATER SUPPLY</u>
A: <input type="checkbox"/> Existing Home:	<input type="checkbox"/> Repair	<input type="checkbox"/> A: 100% BAT cost, if <b>Income &lt; \$300K</b> (Check line 22 Form 1040/Keep copy in file) OR allow only 50%	<input type="checkbox"/> Existing Water Tag # _____
B: <input type="checkbox"/> Existing Business	<input type="checkbox"/> Upgrade	<input type="checkbox"/> B: 50% of BAT cost	_____
C: <input type="checkbox"/> Existing Non-profit	<input type="checkbox"/> New Construction	<input type="checkbox"/> C: 100% of BAT cost (keep copy of non-profit status in file)	<input type="checkbox"/> Public Water _____
D: <input type="checkbox"/> New Home	<input type="checkbox"/> Other _____	<input type="checkbox"/> D: 100% of BAT cost minus \$1,200, ( <b>Note: If income is greater than 300K, it is 50% of BAT cost minus \$1,200</b> )	
E: <input type="checkbox"/> New Business		<input type="checkbox"/> E: (100% of BAT cost minus \$1,200) x 50%	
F: <input type="checkbox"/> New Non- Profit		<input type="checkbox"/> F: 100% of BAT cost minus \$1,200 (keep copy of non-profit status in file)	
<b>If income is more than \$300,000 only 50% of the BAT cost is eligible for BRF Funding</b>			

1. OWNER \_\_\_\_\_ ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_  
PHONE NUMBER (HOME) \_\_\_\_\_ WORK \_\_\_\_\_  
SOCIAL SECURITY NUMBER # (Required For Payment Purposes) \_\_\_\_\_
2. BUILDING ADDRESS \_\_\_\_\_  
(House Number, Street, City)
3. PROPERTY TAX ACCOUNT NUMBER \_\_\_\_\_
4. SUBDIVISION \_\_\_\_\_ LOT NUMBER \_\_\_\_\_ TAX MAP \_\_\_\_\_ PARCEL \_\_\_\_\_

**\*\* DESCRIBE ANY PROBLEMS WITH YOUR EXISTING SYSTEM \*\***

5. LOT LOCATED WITHIN CHESAPEAKE BAY CRITICAL AREA: YES \_\_\_\_\_ NO \_\_\_\_\_ UNKNOWN \_\_\_\_\_
6. NUMBER OF BEDROOMS: \_\_\_\_\_

<b>NAME, MAILING ADDRESS AND PHONE NUMBER OF APPLICANT:</b> _____ _____ _____
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**ATTACH A SITE PLAN SHOWING THE SIZE AND SHAPE OF THE PROPERTY, HOUSE LOCATION, WELL AND SEPTIC SYSTEM ON THE PROPERTY.**

*The applicant 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 Charles County which are applicable hereto; (4) the applicant will perform no work on the above property not specifically described in this application; (5) The applicant will ensure that the BAT tank will be installed and have the final electrical inspection by Planchek completed within 60 days of the BRF permit being issued ,(6) the applicant grants County officials and approved contractors the right to enter onto the property for the purpose of inspecting the work permitted, posting notices, and performing maintenance and sampling,.

SIGNED \_\_\_\_\_ DATE \_\_\_\_\_

# **Instructions for Completing the Bay Restoration Grant Application for a Nitrogen-Reducing Pretreatment Unit**

The following are instructions for completing an application to upgrade existing septic systems with nitrogen reducing pretreatment units. The information listed below corresponds to the items listed on the Bay Restoration Grant Application.

- Building: Indicate the type of building on the property.
- Type: Indicate the type of septic system project for the property.
- Water Supply: Indicate the type of water supply on the property.

Item 1: List the property owner's name and mailing address including the street address, city, state, and zip code. Also include the home and work telephone numbers for the property owner.

Item 2: List the building address of the property, including the house number, street name, and city.

Item 3: Transfer the 12-digit tax account number from the corresponding County property tax bill.

## **1) Applicant Information:**

Applicant must sign the application and agree to the terms of the application. Provide name, mailing address and phone number of the applicant in the box provided.

## **2) Site Plan:**

Submit a site plan showing the size and shape of the property, house location, well and septic system on the property, property lines, rights of way, easements, and existing improvements such as decks, garages, sheds and swimming pools.

## **3) Federal Tax return:**

A copy of the previous year's federal tax return.

## **4) Bid:**

A bid from a B.A.T tank manufacturer is required. Owner will present to the County their BAT System of choice from the Fixed Pre-Approved Vendor list. Operating costs will be at the Owner's expense.

## **5) For New Construction:**

A building permit and septic permit must be acquired and submitted with this package.

**Application package is not complete until all of the above requests have been met. Once all requests are met a BRF agreement will be typed for pick-up and taken to land records for recording. Only after the agreement is brought back to the office recorded will a permit be typed. This permit will only be valid for 60 days past the date of issuance. The BAT will need to be installed and have a final electrical inspection by Planchek during that 60 day period.**

For More Information Contact:  
Latoya Reeder  
Well & Septic Program  
301-609-6792  
Latoya.reeder1@maryland.gov

Mail Application To:  
Charles County Department of Health  
Environmental Health Division  
4545 Crain Highway  
PO Box 1050  
White Plains, Maryland 20695

**BATs eligible for Bay Restoration Fund grant program**

The following technologies have successfully completed the field verification and designated as BAT Class I and are eligible to Bay Restoration Funds onsite sewage disposal system grant program:

Model	Contact Information	Certifications	MDE Field Performance Analysis for Total Nitrogen
Advantex®-RT	<p align="center"><b>Manufacturer</b> Orenco Systems®, Inc. <a href="http://www.orenco.com/">www.orenco.com/</a></p> <p align="center"><b>Local Distributor</b></p> <p align="center"><b>Eastern Region -</b> Service Energy Paul Hufschmidt - 302-734-7433 <a href="mailto:phuffy@serviceenergy.com">phuffy@serviceenergy.com</a></p> <p align="center"><b>Central, Southern, Western -</b> Atlantic Solutions Bob Johnson- 1-877-214-9283 <a href="mailto:bjohnson@septicssystems.net">bjohnson@septicssystems.net</a></p>	Other 3rd Party	<p align="center">Mean % Reduction of TN: 76%</p> <p align="center">Mean Effluent Concentration: 14 mg/l</p> <p align="center"><u>Data &amp; Analysis</u></p>
Advantex®-AX20	<p align="center"><b>Manufacturer</b> Orenco Systems®, Inc. <a href="http://www.orenco.com/">www.orenco.com/</a></p> <p align="center"><b>Local Distributor</b></p> <p align="center"><b>Eastern Region -</b> Service Energy Paul Hufschmidt - 302-734-7433 <a href="mailto:phuffy@serviceenergy.com">phuffy@serviceenergy.com</a></p> <p align="center"><b>Central, Southern, Western -</b> Atlantic Solutions Bob Johnson- 1-877-214-9283 <a href="mailto:bjohnson@septicssystems.net">bjohnson@septicssystems.net</a></p>	Other 3rd Party	<p align="center">Mean % Reduction of TN: 71%</p> <p align="center">Mean Effluent Concentration: 17 mg/l</p> <p align="center"><u>Data &amp; Analysis</u></p>
SeptiTech®	<p align="center"><b>Manufacturer</b> SeptiTech, Inc. <a href="http://www.septitech.com">www.septitech.com</a></p> <p align="center"><b>Local Distributors</b></p> <p align="center"><b>Eastern Region -</b> Gillespie &amp; Sons Inc. Jim Gillespie - (410) 778-0900 <a href="mailto:jimg@gillespieandson.com">jimg@gillespieandson.com</a></p> <p align="center"><b>Central Region -</b> Maryland Concrete Septic Tank Inc. Trent Glace- (443) 491-3598 <a href="mailto:trent@marylandconcreteinc.com">trent@marylandconcreteinc.com</a></p>	ETV And NSF 245	<p align="center">Mean % Reduction of TN: 67%</p> <p align="center">Mean Effluent Concentration: 20 mg/l</p> <p align="center"><u>Data &amp; Analysis</u></p>
Hydro-Action® - AN Series	<p align="center"><b>Manufacturer</b> Hydro-Action/AK Industries Inc. <a href="http://www.hydro-action.com">www.hydro-action.com</a></p> <p align="center"><b>Regional Distributor</b> Blue Water Environmental, LLC Mark O'Rourke - (240) 444-6401 Email: <a href="mailto:Mark@BWEnvironmental.com">Mark@BWEnvironmental.com</a></p> <p align="center"><b>Local Distributors</b></p> <p align="center"><b>Central-Eastern Region-</b> Sample Excavating Co. Inc. Mike Sample - (443) 807-8639 Email: <a href="mailto:Sample415@yahoo.com">Sample415@yahoo.com</a></p> <p align="center"><b>Southern Region</b> -Outback Porta-Jon, Inc. Steve Willson - (410) 257-1600 Email: <a href="mailto:Willson05@comcast.net">Willson05@comcast.net</a></p>	NSF 245	<p align="center">Mean % Reduction of TN: 66%</p> <p align="center">Mean Effluent Concentration: 20.3 mg/l</p>

Hoot® BNR	<p><b>Manufacturer</b> Hoot Aerobic Systems, Inc. <a href="http://www.hootsystems.com">www.hootsystems.com</a></p> <p><b>Local Distributor -</b> Mayer Bros. Nancy Mayer- (410) 796-1434 <a href="mailto:nancy@mayerprecast.com">nancy@mayerprecast.com</a></p>	Other 3rd Party	<p>Mean % Reduction of TN: 64%</p> <p>Mean Effluent Concentration: 21 mg/l</p> <p><u>Data &amp; Analysis</u></p>
RetroFAST	<p><b>Manufacturer</b> Bio-Microbics, Inc. <a href="http://www.biomicrobics.com">http://www.biomicrobics.com</a></p> <p><b>Local Distributors</b></p> <p><b>Eastern Region -</b> Gillespie &amp; Sons, Inc. Jim Gillespie- (410) 778-0900 <a href="mailto:jimg@gillespieandson.com">jimg@gillespieandson.com</a></p> <p><b>Central Region -</b> Maryland Concrete Septic Tank, Inc. Trent Glace- (443) 491-3598 <a href="mailto:trent@marylandconcreteinc.com">trent@marylandconcreteinc.com</a></p>	ETV	<p>Mean % Reduction of TN: 57%</p> <p>Mean Effluent Concentration: 25 mg/l</p> <p><u>Data &amp; Analysis</u></p> <p>Limited to households of 1 to 4 occupants and 3 bedroom or less</p>
Singlair TNT & Singlair Green (plastic tank)	<p><b>Manufacturer</b> Norweco, Inc. <a href="http://www.norweco.com">www.norweco.com</a></p> <p><b>Local Distributors</b></p> <p><b>Eastern Shore -</b> Towers Concrete Products John Short- (443) 786-0594 <a href="mailto:btowers62@gmail.com">btowers62@gmail.com</a></p> <p><b>Southern Region -</b> Superior Tank Jeff Earnshaw- (301) 274-3772 <a href="mailto:superiortank@dlg.com">superiortank@dlg.com</a></p> <p><b>Western Region -</b> C.R. Semler Charlie Semler- (301) 824-2780 <a href="mailto:crsemmler@crsemmler.com">crsemmler@crsemmler.com</a></p> <p><b>Western Region -</b> Garrett &amp; Allegany Co. Pile's Concrete Products Co. Inc. Brett Zimmerman- (814) 445-6619 <a href="mailto:brett_zimmerman@hotmail.com">brett_zimmerman@hotmail.com</a></p> <p><b>Central Region -</b> Back River Pre-Cast LLC Matt Geckle- (410) 833-3394</p>	Other 3rd Party  And <u>NSF 245</u>	<p>Mean % Reduction of TN: 55%</p> <p>Mean Effluent Concentration: 27 mg/l</p> <p><u>Data &amp; Analysis</u></p>
AquaKlear	<p><b>Manufacturer</b> AquaKlear Inc <a href="http://www.aquaklear.net/">http://www.aquaklear.net/</a></p> <p><b>Local Distributor -</b> BayStar Precast Corp. Dave Care - 410-977-3453 <a href="mailto:careless32@comcast.net">careless32@comcast.net</a></p>	Other 3rd Party And <u>NSF 245</u>	<p>Mean % Reduction of TN: 54%</p> <p>Mean Effluent Concentration: 27.5 mg/l</p>

# BAY RESTORATION FUND RANKING DOCUMENTATION July 1, 2017

VENDOR IN ASCENDING ORDER	COST OF PURCHASE, INSTALLATION AND 2 YEAR OPERATION MAINTENANCE	VERIFIED BY
1	BioMicrobics RetroFast**	Vendor
2	AquaKlear AK6S245	Vendor
3	Singular TNT	Vendor
4	Singular Green	Vendor
5	Hoot BNR	Vendor
6	Hydro Action AN series	Vendor
7	AdvanTex AX20	Vendor
8	SeptiTech M400D	Vendor
9	AdvanTex AX20RT	Vendor

All prices are Estimate Averages across Maryland and subject to change per county, contact Manufacturer. The BRP Program no longer funds the non field verified systems for installation. Price does not include electrical costs per year. \*\* RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less. Price includes use of new tank. For use of existing tank, manufacturer must certify tank suitable and watertight.

VENDOR IN ASCENDING ORDER	MEAN % REDUCTION TN (Using 60mg/L influent)	MEAN EFFLUENT CONCENTRATION	VERIFIED BY
1	Advantex AX20RT	14 mg/L	MDE
2	AdvanTex AX20	17 mg/L	MDE
3	SeptiTech M400D	20 mg/L	MDE
4	Hydro Action AN series	20 mg/L	MDE
5	Hoot BNR	21 mg/L	MDE
6	BioMicrobics RetroFast**	25 mg/L	MDE
7	Singular Green	27 mg/L	MDE
8	Singular TNT	27 mg/L	MDE
9	AquaKlear AK6S245	27 mg/L	MDE

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.

\*\* RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less.

VENDOR IN ASCENDING ORDER	PRICE PER POUND OF N REDUCED	VERIFIED BY
1	AquaKlear AK6S245	MDE
2	AdvanTex AX20	MDE
3	Advantex AX20RT	MDE
4	BioMicrobics RetroFast**	MDE
5	Hoot BNR	MDE
6	Singular TNT	MDE
7	Singular Green	MDE
8	Hydro Action AN series	MDE
9	SeptiTech M400D	MDE

Price per pound of N reduced equals ((Price of technology plus (increased electrical costs multiplied by Ten))divided by Ten) multiplied by (24.32 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.

\*\* RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less.

VENDOR IN ASCENDING ORDER	OPERATION AND MAINTENANCE PER YEAR AFTER THE 2 YEAR CONTRACT	MINIMUM NUMBER OF SITE VISITS PER CONTRACT	VERIFIED BY
1	AquaKlear AK6S245	\$100.00	Vendor
2	BioMicrobics RetroFast**	\$175.00	Vendor
3	Singular TNT	\$300.00	Vendor
4	Singular Green	\$300.00	Vendor
5	Hoot BNR	\$175.00	Vendor
6	AdvanTex AX20	\$200.00	Vendor
7	SeptiTech M400D	\$300.00	Vendor
8	Advantex AX20RT	\$300.00	Vendor
9	Hydro Action AN series	\$300.00	Vendor

Analysis based on price to homeowner per year. All prices are Estimates and based on basic service level. Prices are 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.**

VENDOR IN ASCENDING ORDER	1 YEAR ELECTRICAL CONSUMPTION (represented as kWh/year)	INCREASED ELECTRICAL COSTS PER YEAR ASSUMING \$0.13 PER kWh	VERIFIED BY
1	AquaKlear AK6S245	298.7 kWh/year	Vendor
2	Advantex AX20RT	335.8 kWh/year	OSET NTP
3	AdvanTex AX20	335.8 kWh/year	OSET NTP
4	Hoot BNR	765.77 kWh/year	NSF International
5	Singular TNT	979.66 kWh/year	NAT Testing Lab
6	Singular Green	979.66 kWh/year	NAT Testing Lab
7	BioMicrobics RetroFast**	1401.6 kWh/year	Pump Manufacturer
8	Hydro Action AN series	1564.55 kWh/year	Pump Manufacturer
9	SeptiTech M400D	1741.05 kWh/year	Vendor

\$0.13 is an assumed average kWh rate for Maryland 2017. \*\* RetroFast unit limited to households of 1-4 occupants with 3 bedrooms or less. HydroAction utilizes a mixer pump during start up. Pump use is discontinued after start up. Usage data will vary after start-up period.

For a list of vendors visit: <http://bit.ly/MDESepticUpgradeProgram> 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 accordance with HB347. MDE strongly advises that the applicant contact the vendor directly for more information.

Please contact the county Environmental Health Division for specific process on submitting an application

For a list of county contact information, 410-537-3599

Please contact the Maryland Department of the Environment for specific questions regarding becoming a Best Available Technology in Maryland.

For MDE contact information, 410-537-3599

RED Font = Technologies that have successfully completed Maryland's Bay Restoration Fund Field Verification process.