

**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

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 new construction the following must be acquired and submitted with this package
 - Building Permit
 - Septic 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

Once the tank is installed an inspection will be done by the Health Dept. The following will need to be submitted to the Health Department.

- Copy of electrical inspection from Planchek
- Letter from homeowner stating satisfactory install of tank
- Statement from distributor/Certificate of Insurance
- Invoice

Signature

Date

**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.

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

1. OWNER _____ ADDRESS _____
CITY _____ STATE _____ ZIP CODE _____
PHONE NUMBER (HOME) _____ WORK _____
SOCIAL SECUIRTY 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: _____

NAME, MAILING ADDRESS AND PHONE NUMBER OF APPLICANT: _____ _____
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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 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 5-year 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.

For More Information Contact:
Latoya Reeder
MDE Program
301-609-6792

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

BAY RESTORATION FUND RANKING DOCUMENTATION May 15, 2016

VENDOR IN ASCENDING ORDER	COST OF PURCHASE, INSTALLATION AND 5 YEAR OPERATION MAINTENANCE	VERIFIED BY
1 BioMarobics RetroFast™	\$10,092.75	Vendor
2 Aquaklear AKGS245	\$10,616.00	Vendor
3 Singular TNT	\$10,895.00	Vendor
4 Singular Green	\$10,925.25	Vendor
5 Hood BNR	\$12,677.75	Vendor
6 Hydro Action AN series	\$12,910.00	Vendor
7 Adventix AX20	\$13,235.00	Vendor
8 SeptiTech M400D	\$13,272.25	Vendor
9 Adventix AX20RT	\$15,054.75	Vendor

All prices are Estimate Averages across Maryland and subject to change, contact Manufacturer. The BRF 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 Adventix AX20RT	76%	14 mg/L	MDE
2 Adventix AX20	71%	17 mg/L	MDE
3 SeptiTech M400D	67%	20 mg/L	MDE
4 Hydro Action AN series	65%	20 mg/L	MDE
5 Hood BNR	64%	21 mg/L	MDE
6 BioMarobics RetroFast™	57%	25 mg/L	MDE
7 Singular Green	55%	27 mg/L	MDE
8 Singular TNT	55%	27 mg/L	MDE
9 Aquaklear AKGS245	54%	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 AKGS245	\$83.57	MDE
2 Adventix AX20	\$78.98	MDE
3 Adventix AX20RT	\$83.63	MDE
4 BioMarobics RetroFast™	\$84.94	MDE
5 Hood BNR	\$87.36	MDE
6 Singular TNT	\$90.24	MDE
7 Singular Green	\$90.47	MDE
8 Hydro Action AN series	\$92.13	MDE
9 SeptiTech M400D	\$94.27	MDE

Price per pound of N reduced equals [(Price of technology plus (increased electrical costs multiplied by Ten)/divided by Ten) divided 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 5 YEAR CONTRACT	MINIMUM NUMBER OF SITE VISITS PER CONTRACT	VERIFIED BY
1 Aquaklear AKGS245	\$100.00	1	Vendor
2 BioMarobics RetroFast™	\$175.00	1	Vendor
3 Singular TNT	\$175.00	1	Vendor
4 Singular Green	\$175.00	1	Vendor
5 Hood BNR	\$175.00	1	Vendor
6 Adventix AX20	\$200.00	1	Vendor
7 SeptiTech M400D	\$300.00	2	Vendor
8 Adventix AX20RT	\$300.00	2	Vendor
9 Hydro Action AN series	\$300.00	2	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 \$0.11 PER kWh
1 Aquaklear AKGS245	298.7 kWh/year	\$35.84
2 Adventix AX20RT	335.8 kWh/year	\$40.30
3 Adventix AX20	335.8 kWh/year	\$40.30
4 Hood BNR	765.77 kWh/year	\$91.89
5 Singular TNT	979.66 kWh/year	\$117.56
6 Singular Green	979.66 kWh/year	\$117.56
7 BioMarobics RetroFast™	1401.6 kWh/year	\$168.19
8 Hydro Action AN series	1564.55 kWh/year	\$187.75
9 SeptiTech M400D	1741.05 kWh/year	\$2308.93

\$0.12 is an assumed average kWh rate for Maryland 2016.

** 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.

VENDOR IN ASCENDING ORDER	VERIFIED BY
1 Vendor	OSET NTP
2 Vendor	OSET NTP
3 Vendor	NSF International
4 Vendor	NAT Testing Lab
5 Vendor	NAT Testing Lab
6 Vendor	Pump Manufacturer
7 Vendor	Pump Manufacturer
8 Vendor	Pump Manufacturer
9 Vendor	Vendor

For a list of vendor contact information, 410-537-3599 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 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 of 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.

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

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