

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- FY26**

NEW CONSTRUCTION is no longer being funded- Failing systems are the highest in Priority. Adding bedrooms is considered new construction. If funding is still available at the end of the fiscal period, some funding could be available.

**[DO NOT SUBMIT AN INCOMPLETE PACKAGE AND/OR BEFORE A SEPTIC PERMIT IS ISSUED.]**

Applicant Name: \_\_\_\_\_ 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 complete package.**

- BRF Application
- Bid from a BAT manufacturer
- Federal Tax return to verify income (Submit first 2 pages of the last Federal Tax return) Verification of income – **Business- (50% funding) ● Small Business (75% funding, only if listed as a Small Business Vendor on eMMA/SBR <https://emma.maryland.gov/>**
- **Property Owner (not a business)-** (If income is more than \$300,000 only 50% of the cost is eligible for BRF Funding)
  - **First 2 pages of last year's Tax Form 1040**
  - **OR**
  - **Provide a signed statement stating that does not file taxes and attach a copy of the social benefit statement or 1099 form.**
- Site Plan. (Hand-drawn site plans acceptable for repairs only. Site plan must show all wells and septic tanks within 100 feet of property)
- For a site with a failing drain field or septic tank, a permit must be acquired first and then submitted with this package
  - Septic Permit (If a septic permit hasn't been issued, **do not** submit this package until a permit is issued)
- ❖ **For BAT connections only, before an agreement letter can be written a review of the property file will be completed to ensure that there is a septic system to be connected to. If septic information isn't in the file then the system will need to be uncovered. The depth of gravel measured and where the water table is to ensure the required separation is present.**

Once all 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.

- The BRF permit issued by Health Dept is good for **60 days only**.

**The BAT tank must be installed and be inspected by Planckek within 60 days of the permit being issued. This also applies to Sandmounds and I&A systems.**

Once the tank is installed and the electrical has been inspected by Planckek, an inspection will be done by the Health Dept.

- Submit copy of electrical inspection from Planckek before calling for a final inspection.

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

- Statement from distributor/Certificate of Insurance
- BAT Invoice (with the complete address on it)

**PLEASE KEEP THIS OR MAKE A COPY FOR YOUR RECORDS**

<b>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 BRF FY26</b>					<b>Date Application Received</b>	
					<b>Official Use Only</b>	
<b>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.</b>						
<b>Building</b>		<b>Type</b>		<b>BAT Funding Eligibility</b>		<b>Water Supply</b>
A: <input type="checkbox"/> Existing Home:  B: <input type="checkbox"/> Existing Business  C: <input type="checkbox"/> Existing Non-profit  D:		[ <input type="checkbox"/> ] Repair  [ <input type="checkbox"/> ] Upgrade		<input type="checkbox"/> A: 100% BAT cost, if <b>Income &lt; \$300K</b> (Check Total Income line from 1040) <b>50% BAT cost, if Income &gt;300K</b> <input type="checkbox"/> B: 50% of BAT cost 75% of BAT cost ( <b>Must be registered with the Maryland Small Business Reserve Program</b> ) <input type="checkbox"/> C: 100% of BAT cost (keep copy of non-profit status in file) <input type="checkbox"/> D: (Income eligibility* BAT cost-\$1200)		<input type="checkbox"/> Existing Well Tag #  CH- _____  <input type="checkbox"/> Public Water
<b>If income is more than \$300,000 only 50% of the BAT cost is eligible for BRF Funding</b>						
Owner				Address		
City, State Zip				Phone Number (Home)		Phone Number (Work)
Email Address ( <b>Communication regarding BRF only</b> )				Social Security Number (Required for Payment Purposes)		
Building Address  _____						
House Number, Street, City						
Property Tax Account Number		Subdivision		Lot Number	Tax Map	Grid Parcel
<b>** DESCRIBE ANY PROBLEMS WITH YOUR EXISTING SYSTEM ** i.e. (Tank Failure, Drainfield failing, etc.)</b>						
LOT LOCATED WITHIN CHESAPEAKE BAY CRITICAL AREA: YES _____ NO _____ UNKNOWN _____						
Number of existing Bedrooms:		For failing septic systems, repair Permit issued  <input type="checkbox"/> No ( <b>Stop permit required</b> ) <input type="checkbox"/> Yes, Permit # _____				
NAME, MAILING ADDRESS AND PHONE NUMBER OF APPLICANT IF DIFFERENT FROM PROPERTY OWNER						
<b>A SITE PLAN SHOWING THE SIZE AND SHAPE OF THE PROPERTY, HOUSE LOCATION, ALL STRUCTURES ON THE PROPERTY, LOCATION OF WELL AND SEPTIC SYSTEM ON THE PROPERTY MUST BE SUBMITTED.</b>						
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.(6) The annual O&M costs will be at the Owner's expense after the initial contract ends.						
SIGNED _____ (required)      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. **First 2 pages only of federal tax return.**

**For small business to receive 75% funding for BATs you need to be registered with the Small Business Reserve with the eMMA- <https://emma.maryland.gov/>**

## 4) Bid:

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

**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 Planck during that 60 day period.**

<b><u>For More Information Contact:</u></b>	<b><u>Mail Application To:</u></b>
Latoya Reeder 301-609-6751 Well & Septic Program <a href="mailto:Latoya.reeder1@maryland.gov">Latoya.reeder1@maryland.gov</a>	Charles County Department of Health Environmental Health Services 4545 Crain Highway P.O. Box 1050 White Plains, MD 20695

The following technologies have successfully completed field verification (BAT Class I) Page 1 of 3

<b>Model</b>	<b>Contact Information</b>	<b>Certifications</b>	<b>MDE Field Performance Analysis for Total Nitrogen</b>
<b>Fuji Clean CN-Series</b>	<p align="center"><b>Manufacturer</b> Fuji Clean USA www.fujicleanusa.com</p> <p align="center"><b>Local Distributor</b> Bay Area Environmental Don Jones – (410) 836-9206 manager@jonespumpservice.com</p>	<p align="center">NSF 245  And other</p>	<p align="center">Mean % Reduction of TN:  77%</p> <p align="center">Mean Effluent Concentration:  14.1 mg/l</p> <p align="center">Data &amp; Analysis</p>
<b>Advantex®-RT</b>	<p align="center"><b>Manufacturer</b> Orenco Systems®, Inc. www.orenco.com/</p> <p align="center"><b>Local Distributor</b> Atlantic Solutions Bob Johnson- 1(877)214-9283 bjohnson@septicssystems.net</p>	<p align="center">Other 3rd Party</p>	<p align="center">Mean % Reduction of TN: 76%</p> <p align="center">Mean Effluent Concentration: 14.5 mg/l</p> <p align="center">Data &amp; Analysis</p>
<b>Advantex®-AX20</b>	<p align="center"><b>Manufacturer</b> Orenco Systems®, Inc. www.orenco.com/</p> <p align="center"><b>Local Distributor</b> Atlantic Solutions Bob Johnson- 1(877)214-9283 bjohnson@septicssystems.net</p>	<p align="center">Other 3rd Party</p>	<p align="center">Mean % Reduction of TN: 71%</p> <p align="center">Mean Effluent Concentration: 17.2 mg/l</p> <p align="center">Data &amp; Analysis</p>
<b>SeptiTech®</b>	<p align="center"><b>Manufacturer</b> SeptiTech, Inc. www.septitech.com</p> <p align="center"><b>Local Distributors Eastern Region</b> Gillespie &amp; Sons Inc. Jim Gillespie - (410) 778-0900 jimg@gillespieandson.com</p> <p align="center"><b>Central Region</b> Bay Area Environmental Don Jones - (410) 836-9206 manager@jonespumpservice.com</p>	<p align="center">ETV and NSF 245</p>	<p align="center">Mean % Reduction of TN: 67%</p> <p align="center">Mean Effluent Concentration: 19.7 mg/l</p> <p align="center">Data &amp; Analysis</p>

<p><b>Hydro-Action® - AN Series</b></p>	<p><b>Manufacturer</b> Hydro-Action/AK Industries Inc.. www.hydro-action.com</p> <p><b>Regional Distributor</b> Blue Water Environmental, LLC Mark O'Rourke - (240) 444-6401 mark@bwenvironmental.com.</p> <p><b>Local Distributors</b> <b>Central-Eastern Region</b> Sample Excavating Co. Inc. Mike Sample - (443) 807-8639 sample415@yahoo.com</p> <p><b>Southern Region</b> Outback Porta-Jon, Inc. Steve Wilson- (410) 257-1600 wilson05@comcast.net</p>	<p>NSF 245</p>	<p>Mean % Reduction of TN:  66%</p> <p>Mean Effluent Concentration:  20.3 mg/l</p> <p>Data &amp; Analysis</p>
<p><b>Hoot® BNR</b></p>	<p><b>Manufacturer</b> Hoot Aerobic Systems, Inc. www.hootsystems.com</p> <p><b>Local Distributor</b> Mayer Bros. Nancy Mayer- (410) 796-1434 nancy@mayerprecast.com</p>	<p>Other 3rd Party</p>	<p>Mean % Reduction of TN: 64%</p> <p>Mean Effluent Concentration: 21.4 mg/l</p> <p>Data &amp; Analysis</p>
<p><b>RetroFAST</b></p>	<p><b>Manufacturer</b> Bio-Microbics, Inc. http://www.biomicrobics.com</p> <p><b>Local Distributors</b> <b>Eastern Region</b> Gillespie &amp; Sons, Inc. Jim Gillespie- (410) 778-0900 jim@gillespieandson.com</p> <p><b>Central Region</b> Bay Area Environmental Don Jones - (410) 836-9206 manager@jonespumpservice.com</p>	<p>ETV</p>	<p>Mean % Reduction of TN: 58%</p> <p>Mean Effluent Concentration: 25.4 mg/l</p> <p>Data &amp; Analysis</p> <p>Limited to households of 1 to 4 occupants and 3 bedroom or less</p>

<p><b>Singulair TNT &amp; Singulair Green (plastic tank)</b></p>	<p><b>Manufacturer</b> Norweco, Inc. www.norweco.com</p> <p><b>Local Distributors</b> <b>Eastern Shore</b> Towers Concrete Products Jeffrey Powell (800) 773-9128 btowers62@gmail.com</p> <p><b>Southern Region</b> <b>Superior Tank</b> Jeff Earnshaw- (301) 274-3772 superiortanknorweco@gmail.com</p> <p><b>Western Region</b> <b>C.R. Semler</b> Charlie Semler- (301) 824-2780 crsemmler@crsemmler.com</p> <p><b>Western Region</b> <b>Garrett &amp; Allegany Co.</b> Pile's Concrete Products Co. Inc. Brett Zimmerman (814)445-6619 brett_zimmerman@hotmail.com</p> <p><b>Central Region</b> <b>Back River Pre-Cast LLC</b> Matt Geckle- (410) 833-3394</p>	<p>Other 3rd Party and NSF 245</p>	<p>Mean % Reduction of TN: 55%</p> <p>Mean Effluent Concentration: 27 mg/l</p> <p>Data &amp; Analysis</p>
<p><b>AquaKlear</b></p>	<p><b>Manufacturer</b> AquaKlear http://www.aquaklear.net/</p> <p><b>Local Distributor</b> Care Utilities Dave Care (410) 977-3453 careless32@comcast.net</p>	<p>Other 3rd Party and NSF 245</p>	<p>Mean % Reduction of TN: 54%</p> <p>Mean Effluent Concentration: 27.5 mg/l</p> <p>Data &amp; Analysis</p>

## **Certified Service Providers – Statewide and Southern MD Only**

### **AquaKlear model:**

<b>Statewide:</b>	BayStar Precast Corp.:	410-977-3453
	Dwayne C Jones Contracting Inc:	410-836-9206
<b>Southern Maryland:</b>	Outback Porta Jon	410-257-1600

### **Bio-Microbics MicroFAST and RetroFAST models:**

<b>Statewide:</b>	BAT Onsite LLC:	301-829-9047
	Dwayne C Jones Contracting Inc:	410-836-9206
	Hydro-Terra Group:	410-861-5376
	Raymond Harrison Septic Services:	410-778-4806

### **FUJI model:**

<b>Statewide:</b>	Bay Area Environmental:	410- 836-9206
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### **HOOT BNR and ANR models:**

<b>Statewide:</b>	BAT Onsite LLC:	301-829-9047
	O.S.I.S. LLC:	410-796-1434
<b>Western &amp; Southern MD:</b>	O.S.I.S. LLC:	410-796-1434

### **Hydro-Action AN Series model:**

<b>Statewide:</b>	O.S.I.S. LLC:	410-796-1434
	Outback Porta Jon:	410-257-1600
	Sample Excavating Co Inc:	443-807-8639

### **Orengo Advantex AX20 and AX20RT models:**

<b>Statewide:</b>	Atlantic Solutions:	1-877-214-9283
	BAT Onsite LLC:	301-829-9047

<b>Southern MD:</b>	Dwayne C Jones Contracting Inc:	410-836-9206
	Outback Porta Jon:	410-257-1600

### **SeptiTech M400 models:**

<b>Statewide:</b>	BAT Onsite LLC:	301-829-9047
<b>Western &amp; Southern MD:</b>	Dwayne C Jones Contracting Inc:	410-836-9206

### **Norweco Singulair TNT & Green models:**

<b>Statewide:</b>	BAT Onsite LLC:	301-829-9047
<b>Southern MD:</b>	Dwayne C Jones Contracting Inc:	410-836-9206
	Superior Septic Tank:	301-274-3772
	Cullison Excavating:	301-994-1616
	Spek Septic:	240-925-0085

If you have a unit not included on this list, or you do not know which type of unit you have, please contact the MDE On-site Systems Division for more information at 410-537-3599.



## BAY RESTORATION FUND RANKING DOCUMENTATION February 23, 2024

VENDOR IN ASCENDING ORDER	COST OF PURCHASE, INSTALLATION AND 2 YEAR OPERATION MAINTENANCE	VERIFIED BY
Singular TNT	\$17,182	Vendor
Singular Green	\$17,362	Vendor
AquaKlear AK6S245	\$17,497	Vendor
BioMicrobics RetroFast**	\$18,132	Vendor
Fuji Clean CEN 5	\$18,221	Vendor
Hydro Action AN series	\$19,368	Vendor
Fuji Clean CEN 7	\$20,610	Vendor
Hoot BNR	\$22,295	Vendor
SeptiTech M400D	\$22,717	Vendor
AdvanTex AX20	\$23,687	Vendor
Advantex AX20RT	\$26,925	Vendor

All prices are Estimate Averages across Maryland and subject to change per county, 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 DESCENDING ORDER	MEAN % REDUCTION TN (Using 60mg/L influent)	MEAN EFFLUENT CONCENTRATION	VERIFIED BY
Fuji Clean CEN 5	77%	14.1 mg/L	MDE
Fuji Clean CEN 7	77%	14.1 mg/L	MDE
Advantex AX20RT	76%	14.5 mg/L	MDE
AdvanTex AX20	71%	17 mg/L	MDE
SeptiTech M400D	67%	20 mg/L	MDE
Hydro Action AN series	66%	20.3 mg/L	MDE
Hoot BNR	64%	21 mg/L	MDE
BioMicrobics RetroFast**	58%	25.4 mg/L	MDE
Singular Green	55%	27 mg/L	MDE
Singular TNT	55%	27 mg/L	MDE
AquaKlear AK6S245	54%	27.5 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
Fuji Clean CEN 5	\$101.12	MDE
Fuji Clean CEN 7	\$115.60	MDE
Hydro Action AN series	\$127.98	MDE
AquaKlear AK6S245	\$136.87	MDE
Singular TNT	\$140.17	MDE
AdvanTex AX20	\$139.13	MDE
Singular Green	\$141.52	MDE
BioMicrobics RetroFast**	\$144.44	MDE
Advantex AX20RT	\$147.49	MDE
Hoot BNR	\$151.11	MDE
SeptiTech M400D	\$156.51	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 from 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 YEAR*	VERIFIED BY
AdvanTex AX20	\$250.00	1	Vendor
Advantex AX20RT	\$250.00	1	Vendor
Fuji Clean CEN 5	\$350.00	2	Vendor
Fuji Clean CEN 7	\$350.00	2	Vendor
AquaKlear AK6S245	\$275.00	1	Vendor
BioMicrobics RetroFast**	\$275.00	1	Vendor
SeptiTech M400D	\$275.00	1	Vendor
Hoot BNR	\$250.00	1	Vendor
Singular TNT	\$350.00	2	Vendor
Singular Green	\$350.00	2	Vendor
Hydro Action AN series	\$250.00	1	Vendor

All prices are estimates and based on the 2-yr O&M BAT bid submitted to the State. Some prices have been rounded.  
Prices are subject to change and may vary based on location. Contact manufacturer for O&M price details.

\* Based off manufacturer-required service visits per year

**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 kW h/year)	INCREASED ELECTRICAL COSTS PER YEAR ASSUMING \$0.16 PER kW h
Advantex AX20RT	210.2 kWh/year	\$33.63
Advantex AX20	210.2 kWh/year	\$33.63
AquaKlear AK6S245	298.7 kWh/year	\$47.79
Fuji Clean CEN 5	448.7 kWh/year	\$71.47
Fuji Clean CEN 7	648.2 kWh/year	\$103.71
Hydro Action AN series	734.26 kWh/year	\$117.48
Hoot BNR	765.77 kWh/year	\$122.52
Singular TNT	979.66 kWh/year	\$156.75
Singular Green	979.66 kWh/year	\$156.75
BioMicrobics RetroFast**	1401.6 kWh/year	\$224.26
SeptiTech M400D	1741.05 kWh/year	\$278.57

\$0.16 is an assumed average kW h rate for Maryland 2024.

\*\* 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:  
[https://mde.maryland.gov/programs/Water/BayRestorationFund/OnsiteDisposalSystems/Documents/BAT\\_CLASS\\_1.pdf](https://mde.maryland.gov/programs/Water/BayRestorationFund/OnsiteDisposalSystems/Documents/BAT_CLASS_1.pdf)

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.**