

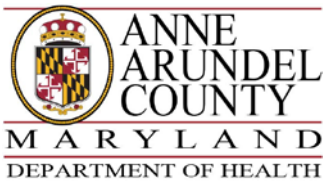


Instructions for Completing the Bay Restoration Fund Grant Application For a Nitrogen-Reducing Pretreatment Unit

The following are instructions for completing an application for a grant for a nitrogen-reducing pretreatment unit. The information listed below corresponds to the items listed on the Bay Restoration Fund Grant Application.

- Building:** Indicate the type of building on the property.
- Type:** Indicate the reason for the septic system upgrade or repair.
- 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 phone and email contact information.
- 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 your County property tax bill.
- Item 4:** Transfer the subdivision name and lot number from your County property tax bill.
- Indicate the dimensions of the existing and proposed living space in square feet. Include dimensions for unfinished basements, finished basements, first floor, second floor and total floor areas.
- Indicate the number of existing bedrooms and the current perc application number for the property. Owners should complete a perc application prior to submitting a Bay Restoration Fund Grant Application.
- Applicant Information:** Applicant must sign the application and agree to the terms of the application. Provide name and mailing address of the applicant in the box provided.
- Income Information:** Include a copy of the first page of the most recent federal income tax form 1040 for each person listed on the deed. Social Security numbers should be deleted.
- Email Application to:** hdepeter+brf@aacounty.org
- Or Mail Application to:** Anne Arundel County Department of Health
Bureau of Environmental Health
Sanitary Engineering Program
3 Harry S. Truman Parkway
Annapolis, Maryland 21401

For more information, call 410-222-7324 or visit www.aahealth.org/brf.



BAY RESTORATION GRANT APPLICATION
NITROGEN-REDUCING PRETREATMENT UNIT

This application is designed to aid our office in determining your eligibility. This application is considered public information under the Freedom of Information Act. Submit completed applications to the address above.

BUILDING

- Residential
Commercial
Other

TYPE

- Repair of failing septic system
Upgrade of septic system
Addition on property
Demo and rebuild project
New construction on vacant lot

WATER SUPPLY

- Private well
Public water

1. OWNER _____ MAILING ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____ EMAIL _____

PHONE NUMBER: HOME _____ CELL/WORK _____

2. BUILDING ADDRESS _____

(House Number, Street, City)

3. TAX ACCOUNT NUMBER _____

4. SUBDIVISION _____ LOT NUMBER _____

Describe any problems with your existing system: _____

DIMENSIONS (in square feet)

- Unfinished Basement
Finished Basement
First Floor
Second Floor
Total Floor Area

Existing

Proposed

Table with 2 columns: Existing, Proposed. Rows for Unfinished Basement, Finished Basement, First Floor, Second Floor, Total Floor Area.

Number of Bedrooms: _____

Perc Application No: _____

NAME, ADDRESS AND PHONE NUMBER OF APPLICANT:

Phone Number:

The applicant hereby certifies and agrees as follows:

(1) that the applicant is authorized to make this application; (2) that the information is correct; (3) that the applicant will comply with all regulations of Anne Arundel County which are applicable hereto; and (4) that the applicant grants County officials the right to enter onto the property for the purpose of inspecting the work permitted and posting notices.

Signed _____

Date _____

BAY RESTORATION FUND RANKING DOCUMENTATION December 1, 2021

| VENDOR IN ASCENDING ORDER | COST OF PURCHASE, INSTALLATION AND 2 YEAR OPERATION MAINTENANCE | VERIFIED BY |
|---------------------------|---|-------------|
| Fuji Clean CEN 5 | \$12,244 | Vendor |
| Singulair TNT | \$13,383 | Vendor |
| Singulair Green | \$13,542 | Vendor |
| AquaKlear AK6S245 | \$13,592 | Vendor |
| BioMicrobics RetroFast** | \$14,109 | Vendor |
| Hydro Action AN series | \$15,104 | Vendor |
| Fuji Clean CEN 7 | \$16,140 | Vendor |
| Hoot BNR | \$17,426 | Vendor |
| SeptiTech M400D | \$17,794 | Vendor |
| AdvanTex AX20 | \$18,560 | Vendor |
| Advantex AX20RT | \$21,130 | 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 |
| Singulair Green | 55% | 27 mg/L | MDE |
| Singulair 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 | \$79.41 | MDE |
| Fuji Clean CEN 7 | \$91.03 | MDE |
| Hydro Action AN series | \$100.50 | MDE |
| AquaKlear AK6S245 | \$106.68 | MDE |
| Advantex AX20 | \$109.19 | MDE |
| Singulair TNT | \$110.31 | MDE |
| Singulair Green | \$111.49 | MDE |
| BioMicrobics RetroFast** | \$113.94 | MDE |
| Advantex AX20RT | \$115.91 | MDE |
| Hoot BNR | \$118.84 | MDE |
| SeptiTech M400D | \$124.16 | 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 2 YEAR CONTRACT | MINIMUM NUMBER OF SITE VISITS PER YEAR* | VERIFIED BY |
|---------------------------|--|---|-------------|
| AdvanTex AX20 | \$225.00 | 1 | Vendor |
| Advantex AX20RT | \$225.00 | 2 | Vendor |
| Fuji Clean CEN 5 | \$225.00 | 2 | Vendor |
| Fuji Clean CEN 7 | \$225.00 | 2 | Vendor |
| AquaKlear AK6S245 | \$250.00 | 1 | Vendor |
| BioMicrobics RetroFast** | \$275.00 | 1 | Vendor |
| SeptiTech M400D | \$275.00 | 1 | Vendor |
| Hoot BNR | \$325.00 | 1 | Vendor |
| Singulair TNT | \$325.00 | 2 | Vendor |
| Singulair Green | \$325.00 | 2 | Vendor |
| Hydro Action AN series | \$300.00 | 2 | 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 kWh/year) | INCREASED ELECTRICAL COSTS PER YEAR ASSUMING \$0.13 PER kWh | VERIFIED BY |
|---------------------------|---|---|-------------------|
| Advantex AX20RT | 210.2 kWh/year | \$29.43 | OSET NTP |
| AdvanTex AX20 | 210.2 kWh/year | \$29.43 | OSET NTP |
| AquaKlear AK6S245 | 298.7 kWh/ year | \$41.82 | Vendor |
| Fuji Clean CEN 5 | 446.7 kWh/year | \$62.54 | Manufacturer |
| Fuji Clean CEN 7 | 648.2 kWh/year | \$90.75 | Manufacturer |
| Hydro Action AN series | 734.26 kWh/year | \$102.80 | Pump Manufacturer |
| Hoot BNR | 765.77 kWh/ year | \$107.21 | NSF International |
| Singulair TNT | 979.66 kWh/ year | \$137.15 | NAT Testing Lab |
| Singulair Green | 979.66 kWh/year | \$137.15 | NAT Testing Lab |
| BioMicrobics RetroFast** | 1401.6 kWh/year | \$196.22 | Pump Manufacturer |
| SeptiTech M400D | 1741.05 kWh/year | \$243.75 | Vendor |

\$0.14 is an assumed average kW/h rate for Maryland 2019.
 ** 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
 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](tel: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](tel:410-537-3599)
RED Font = Technologies that have successfully completed Maryland's Bay Restoration Fund Field Verification process.