

LAYOUT 6/15/09 INSP 4 _____
INSP 2 6/19/09 INSP 5 _____
INSP 3 _____ INSP 6 _____

ISSUE DATE: 7/2/09
6/30/2009

PERMIT-HOOT H-600 BNR
SEPTIC SYSTEM

P 531067

APPROVAL
DATE:

7/13/09

Tracked By Pat

A _____

TAX ID # 5344077

ON-SITE SEWAGE DISPOSAL SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH

Garland Brian

INSTALL ALTER

ADDRESS: 12871 Highland Road PHONE NUMBER: _____

SUBDIVISION _____ LOT _____

ADDRESS: 12871 Highland Road PROPERTY OWNER: Garland Brian

HOOT SYSTEM BNR H-600 CAPACITY (GALLONS): _____
600gpd **Top Seamed Three Compartment Tank including Pump Tank**

PUMP CHAMBER CAPACITY (GALLONS): ~~750~~

43R

LOCATION:	Existing tanks must be pumped and collapsed. Installation of new 'Hoot' system tank should be kept 100' from existing well or no closer than existing tanks.
NOTES:	A test of the blower, alarm, sensors in pump chamber, and the unit itself is required. Install Hoot system unit per manufacturer's instructions.

Note: *Certification start-up letter from manufacturer needs to be sent in to Health Dept. prior to septic system approval.*****

PLANS APPROVED: K. Wolf DATE: 6/30/2009

NOTES: PERMIT VOID AFTER 2 YEARS
CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
WATERTIGHT SEPTIC TANKS REQUIRED
ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED
MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED
CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS PERMIT

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT ALL 410-313-1771 FOR INSPECTION OF SEPTIC SYSTEM



MAYER BROS., INC.

Precast Concrete Products

6264 Race Rd. Elkridge, MD 21075

Federal ID 52-0706744

Letter of Satisfaction
Hoot System Installation

Address of Property: 12871 Highland Rd
Highland MD 20777

Date of Final Inspection: 7-13-09

Installer: Garland Brian

Hoot Technician/Inspector: Ed McMullen

I hereby certify that the Hoot system installed at the property listed above has been installed according to proper Hoot installation practices. I also have verified the start up of the system and it is in proper working order.

Sincerely,

Name of Inspector
Mayer Bros., Inc.

PH: 410-796-1434

Fax: 410-796-1438

WBE

NPCA Certified Plant

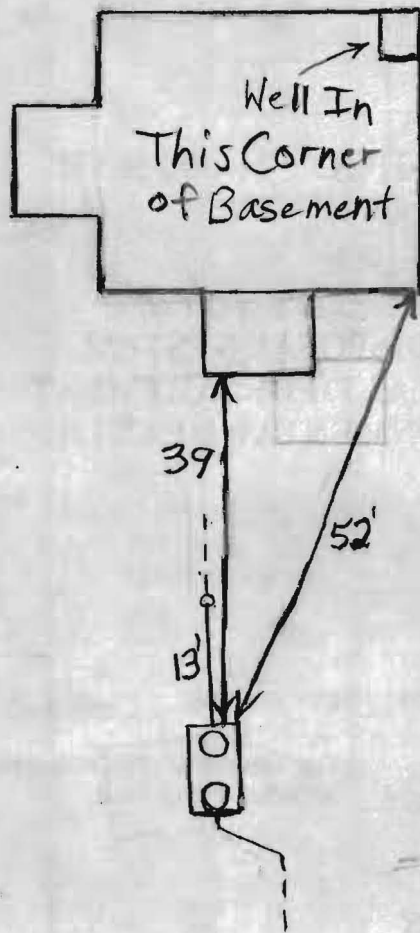
mayerbro@connext.net

www.mayerbrosprecast.com

Grease Interceptors, Grease Solutions, HOOT Aerobic Treatment Units, Septic Tanks, Holding Tanks, Storm Water Structures, Hydroceptor, Bench Barrier, Water Meter Vaults, Sectional Valve Vaults, Top Slabs, Curb Heads, Curb Bumpers, PermEntry Basement Entries, Scapewel Window Wells, Custom Precast Products

Highland Road

NOT TO SCALE



ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH _____ INLET _____ BOTTOM _____

NUMBER OF TRENCHES _____

TOTAL LENGTH _____

ABSORPTION AREA _____

DISTRIBUTION BOX LEVEL _____

DISTRIBUTION BOX BAFFLE _____

DISTRIBUTION BOX PORT _____

SEPTIC TANK DATA

SEPTIC TANK I LEVEL Yes

MANUFACTURER Mayer Bros

CAPACITY 2000+ GAL

SEAM LOC Top

TANK LID DEPTH 1-1.5'

BAFFLES Yes

BAFFLE FILTER No

MANHOLE LOC Front+Rear

6" PORT LOC None

WATERTIGHT TEST No

SLOTTED No

DATE ON LID Dry

PUMP/SEPTIC TANK LEVEL N/A

MANUFACTURER _____

CAPACITY _____ GAL

SEAM LOC _____

TANK LID DEPTH _____

BAFFLES _____

BAFFLE FILTER _____

MANHOLE LOC _____

6" PORT LOC _____

WATERTIGHT TEST _____

SLOTTED _____

DATE ON LID _____

PRE-CONSTRUCTION:

6/15/09 Couldn't locate tank on site. To meet with homeowner. BB 6/19/09 Met with homeowner and located septic tank and well. Install new tank farther from well but in same general area. BB

INSTALLATION:

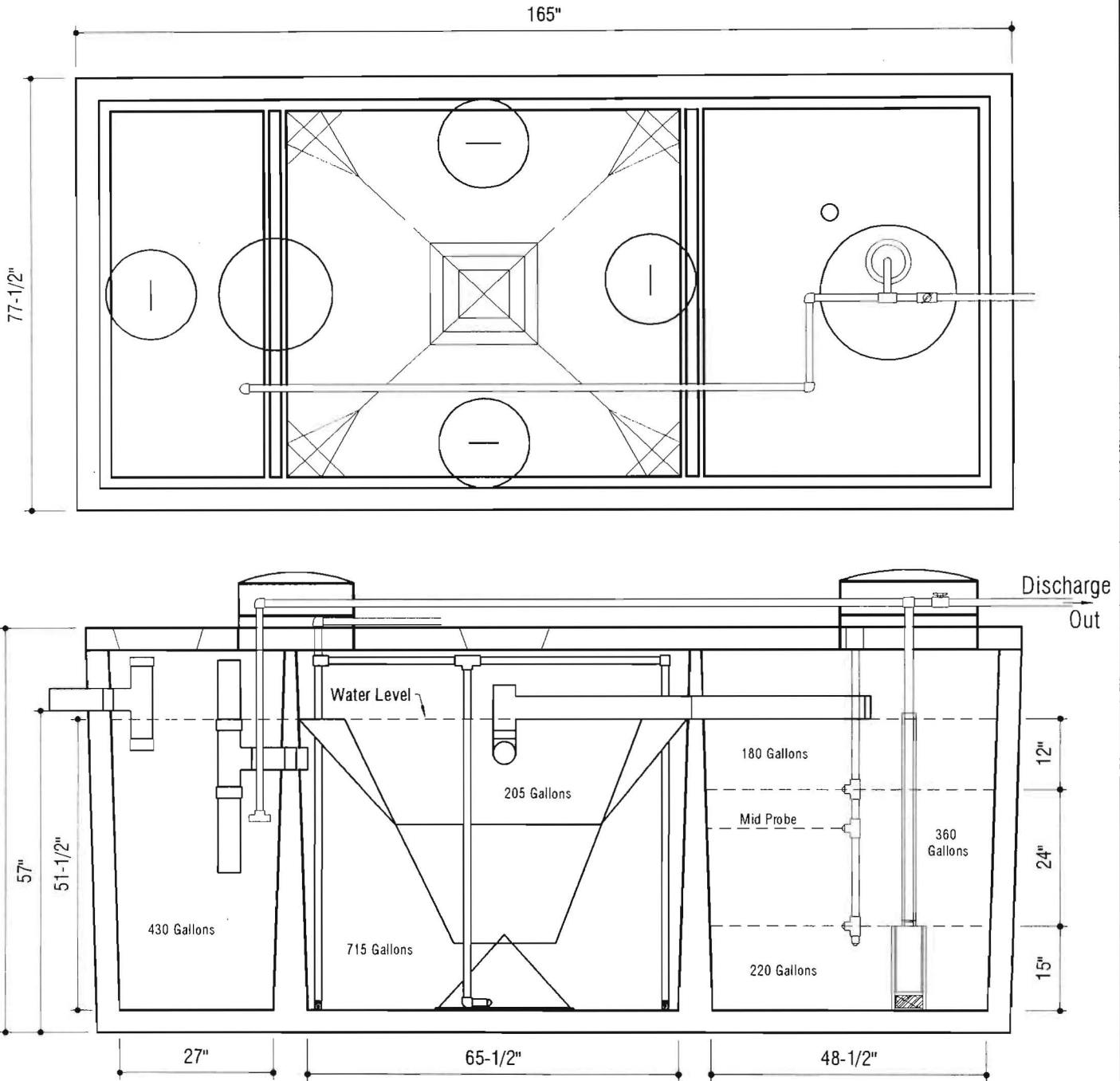
7/13/09 New tank installed in same area but further from house than old tank. Existing drywells not failing. BB

FINAL INSPECTOR

B. Baker

DATE OF APPROVAL

7/13/09



DESIGN DATA & GENERAL NOTES

- [1] Concrete strength $f'c=4,000$ p.s.i. @ 28 days. Density = 150 pcf.
- [2] Cement - Portland Type I/II per ASTM C 150-92.
- [3] Admixtures & plasticizers per ASTM C 260-86 & C 494-92.
- [4] Reinforcing per ASTM A185. Min. 1-1/2" cover.

Mayer Brothers, Inc.

6264 Race Road
 Elkridge, Maryland 21075
 Tel. 410.796.1434
 Fax. 410.796.1438
www.mayerbrosprecast.com



**600 GPD BNR SYSTEM
 H-600 ABNR**

with 750 GALLON PUMP CHAMBER

Dwg. No. Hoot Form #1

No Scale

March 19, 2009

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

000177

THIS AGREEMENT is made this 21st day of May, among Garland Brian, Sr., hereinafter referred to as "Owner," the ~~/~~Howard 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 12871 Highland Road, in the 5th Election District of Howard County, Maryland, and the deed to same is recorded among the Land Records of Howard County, Maryland, in Ellicott City and in Liber 3834 Folio 341.

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.

WHEREAS, Owner understands that participation in the Bay Restoration Fund is voluntary.

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.

20
20
113

- 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 can be further extended at the behest of the property owner. The Department and County encourage the property owner to 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 acknowledges and agrees that the proposed installation of a BAT system funded by the BRF is voluntary. 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 agrees to grant \$ 13,100.00 toward the cost of installation of the BAT System, and financial responsibility is limited to this amount. Owner will present to the Department a signed contract from the demonstrating the total cost of installation. 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. Owner acknowledges in the event the total project cost is greater than \$25,000 the proposal will have to be approved by the Maryland State Board of Public Works.
- K. The Owner agrees to contact both the Water Management Administration, On-Site Systems Division of the Wastewater Permits Program and the County at least forty-eight (48) hours prior to system installation, so that the Department has the opportunity to be present at the time of installation or thereafter for inspection.
- L. The Owner must install BAT system according to the manufacturer recommended plans and specifications approved by the Department.
- M. 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.
- N. 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 Howard County.
- O. 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.
- P. This agreement may be voided at the discretion of the Department if the system construction is not completed within forty-five (45) days of the effective date of this agreement.

- Q. 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.
- R. 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: 6/15/09

Garland L. Brian Sr.
Owner GARLAND L. BRIAN SR

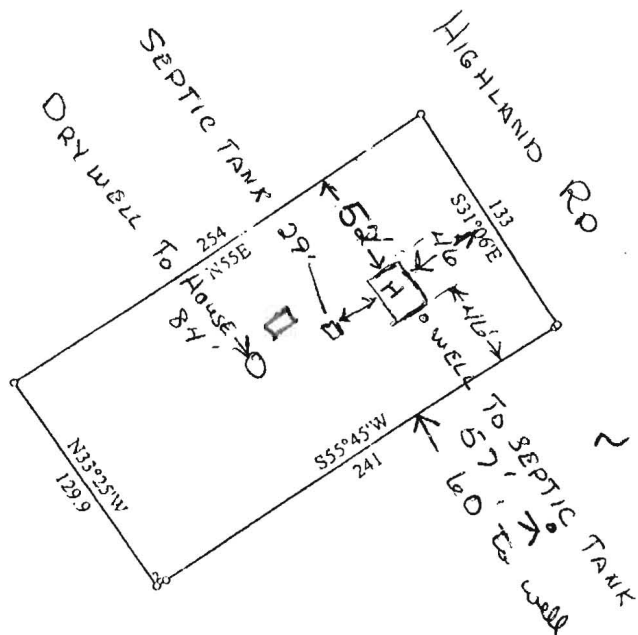
DATE: 5-26-09

Jay Prager
Jay Prager, Deputy Program Manager
Wastewater Permits Program
Maryland Department of the Environment

DATE: 6/17/2009

Bert Nifan
Howard County Health Department

IMP. FD. SHARE \$	20.00
RECORDING FEE	20.00
TOTAL	40.00
Rest CHRG	Rept # 49067
NTW KLB	RTK # 2102
Jun 17, 2009	@1:37 PM



Tank
~ 2 1/2' Deep

Title:		Date: 02-01-2005
Scale: 1 inch = 100 feet	File: BRIAN 200456.des	
Tract 1: 0.755 Acres: 32875 Sq Feet: Closure = s42.5517w 133.6 Feet: Precision = 1/412: Perimeter = 764 Feet		
001=S55.45W 241	003=N33.25W 129.9	005=S31.06E 133
002=S55.45W 5.75	004=N55E 254	

Garland L. Brian, Sr.
12871 Highland Road
Highland, MD 20777

June 1, 2009


Subject: Locations of well and septic

Attention: Sara Sappington, R. S.

The old septic tank will be removed and a new H600 ABNR Hoot tank will be supplied by Mayer Bros. The scaled site plan of the lot showing the location of the well and septic components are enclosed. There will be approximately 3' of dirt on to of the new tank.

The installer will be Garland L Brian, Sr. LLC, phone number 301-854-2161. If you have questions or need further information I may be reached at the above address or phone.

Sincerely,



Garland L. Brian, Sr.



MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore MD 21230

410-537-3000 • 1-800-633-6101

Martin O'Malley
Governor

Shari T. Wilson
Secretary

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Deputy Secretary

May 21, 2009

Garland Brian, Sr.
12871 Highland Road
Highland, MD 20777

RE: Tax Map 40, Grid 4, Parcel 48

Dear Mr. Brian:

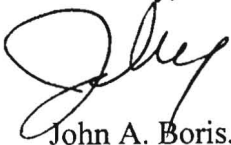
Your bid package for the Bay Restoration Fund (BRF) Onsite Sewage Disposal System (OSDS) Program has been approved for the use of funds totaling not more than \$13,100.00. The accepted bid amount is for the installation of a Hoot 600 for your property located at 12871 Highland Road. You may choose to deviate from the selected unit, however the grant award for acceptable reimbursable expenses may not exceed \$13,100.00. All grants awarded through the Maryland Department of the Environment (MDE) are reimbursable. This means that all work done prior to this letter cannot be considered for reimbursement. In order to be eligible for reimbursement you must sign and record a copy in the land records of Howard County the Agreement and Easement for Installation of Best Available Technology Systems with Bay Restoration Funds. You must provide MDE with the following:

- The contractor's and manufacturer's invoice. These invoices should include everything quoted in the bid. All expenditures greater than the bid amount will not be covered.
- A copy of the installation inspection performed by the Howard County Environmental Health program.
- A completed State Grant or Loan Payment Disbursement Request Form
- A copy of the Agreement and Easement for Installation of Best Available Technology Systems with Bay Restoration that shows that it has been recorded in the land records of Howard County.

All submitted documentation would be reviewed for compliance. Once all documentation is submitted, you will receive a payment directly from the State Comptroller's office.

The Maryland Department of the Environment thanks you for participating in this important program. If you have any further questions, please feel free to contact me at 410-537-3678 or 800-633-6101 ext 3678 or email at jboris@mde.state.md.us.

Sincerely,

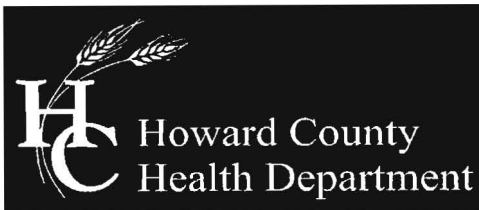


John A. Boris, Jr., R.S.
Bay Restoration Fund Project Manager

Enclosure

cc: Jay Prager
Steve Krieg, Regional Consultant
Howard County Health Department

100-1-11 7:37



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

May 13, 2009

Garland Brian
12871 Highland Road
Highland, Maryland 20777

RE: Bay Restoration Fund On-site Sewage Disposal
System Program

Dear Garland Brian,

The Health Department received your preliminary approval letter from the Maryland Department of the Environment for funding from the Bay Restoration Fund. This funding is for the installation of best available technology (BAT) for removing nitrogen as part of your on-site sewage disposal system.

Once the specific technology has been determined and approved by the Maryland Department of the Environment, you or your consultant will be responsible for providing a detailed cross-sectional/spec sheet of what is proposed to be installed at your property, i.e. new tank, BAT to be used with existing tank, etc. If a new tank is to be used, a drawing showing the new, detailed tank along with a profile showing the depth and amount of earth cover shall be submitted to this office. These details should be available from the manufacturer. If the existing tank is to be used, a structural analysis of the tank, i.e. water tightness, mid or top seam, cosmetic or physical damage, slotted, etc., needs to take place and approved by the manufacturer.

In addition, a scaled site plan showing the exact locations of the well and septic components, i.e. septic tank and dry well, must be submitted to this department for review. Neighboring septic systems and wells may need to be included on the site plan. Elevations of system components may be required based on site characteristics. Also submit contact information of the contractor that is to install the system, including a phone number. BAT systems may be subject to Howard County Health Department Code and the Annotated Code of Maryland Regulations (COMAR), i.e. setback to dwelling, existing drive, existing well, slopes, etc.

Once these comments have been reviewed by the Health Department, and a copy of the Agreement and Easement for Installation of Best Available Technology Systems with Bay Restoration has been received in the Health Department, the septic permit can be released. A fee of \$396.00 is required in order to receive this septic permit for installation of the pretreatment system for the above referenced property.

If you have further questions regarding this matter, please contact me at (410) 313-1771.

Sincerely,

A handwritten signature in black ink, appearing to read 'Sara Sappington', is written over a horizontal line.

Sara Sappington, R.S.
Well and Septic Program



MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore MD 21230

410-537-3000 • 1-800-633-6101

Martin O'Malley
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Shari T. Wilson
Secretary

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Deputy Secretary

May 4, 2009

Garland Brian
12871 Highland Rd,
Higland, Maryland 20777

Dear Garland Brian:

Thank you for completing an application for the Bay Restoration Fund (BRF) Onsite Sewage Disposal System (OSDS) Program. The application submitted is for the property located at 12871 Highland Rd, Higland, Maryland 20777 and shown on Tax Map 40, Grid 4, Parcel 48. This letter is to notify you of preliminary approval and high priority for funding from the BRF for the installation of best available technology (BAT) for removing nitrogen as part of your on-site sewage disposal system.

This notification letter is intended to assist you through the process of contracting a vendor for the purchase and installation of a BAT, and invoicing procedures to obtain funding from the BRF. The following sections outline the requirements necessary for proceeding with the project.

➤ **Vendor Selection:**

(Option 1): Applicant Selects a Fixed Price Pre-Approved Vendor:

Maryland Department of the Environment has preselected the following three BAT vendors who will provide and install the technology at a predetermined cost:

- **Hoot Aerobic Systems, Inc. (Hoot BNR®):**
Distributor: Mayer Brothers, Inc. Contact: Nancy Mayer
 Phone: (410) 796-1434 Website: www.hootsystems.com Email: mayerbro@connext.net

Region	Bedrooms	Fixed Price
Western ¹	3 to 6	\$14,200
Central ²	3 to 6	\$13,100
Southern ³	3 to 6	\$13,500
Eastern ⁴	3 to 6	\$13,700

¹ Allegany, Garrett, Frederick, Washington,

² Baltimore, Harford, Howard, Carroll, Montgomery, Anne Arundel, Cecil

³ Prince George's, Charles, Calvert, St. Mary's

⁴ Caroline, , Queen Anne's, Dorchester, Kent, Somerset, Talbot, Wicomico, Worcester

- **Orenco Systems, Inc. (AdvanTex® AX)**

Distributor: Atlantic Solutions, Ltd.

Contact: Bob Johnson

Phone: 1-877-214-9283 **Website:** www.orenco.com **Email:** bjohnson@septicssystems.net

Region	Bedrooms	Fixed Price
Western	3 to 4	\$14,868.40
	5	\$16,606.80
	6	\$20,422.80
Central	3 to 4	\$12,950.40
	5	\$14,464.80
	6	\$18,280.80
Southern	3 to 4	\$12,700.40
	5	\$14,264.80
	6	\$18,080.80
Eastern	3 to 4	\$13,068.40
	5	\$14,806.80
	6	\$18,622.80

- **Bio-Microbics, Inc. (MicroFast®)**

Distributor: Feemire & Associates

Phone: (410) 768-8500 **Website:** www.biomicrobics.com

Email: www.freemire.com

Region	Bedrooms	Fixed Price
Western	3 to 4	\$11,625
	5 to 6	\$13,807
Central	3 to 4	\$11,425
	5 to 6	\$14,107
Southern	3 to 4	\$11,525
	5 to 6	\$14,507
Eastern	3 to 4	\$10,625
	5 to 6	\$13,807

The applicant may choose any of the three pre-approved technologies and must contact the vendor directly. When choosing from the above technologies the applicant may want to request information on the annual cost of power consumption from the vendor. After vendor selection, the homeowner must provide MDE with a signed contract between the homeowner and the vendor. **MDE will provide BRF funding for 100% of the chosen technology.**

(Option 2): Applicant Selects Vendor and Procures Bids

Applicants may also select from other MDE approved BAT vendors, which are listed below. The applicant can procure bids from the other vendors however the grant amount will be limited to the least expensive of the preapproved vendor technologies appropriate for the designated region. Your property is located in the Central region and the total grant allotment is capped based on the following table:

Region	Bedrooms	Fixed Price
Western	3 to 4	\$11,625
	5 to 6	\$14,200
Central	3 to 4	\$11,425
	5 to 6	\$13,100
Southern	3 to 4	\$11,525
	5 to 6	\$13,500
Eastern	3 to 4	\$10,625
	5 to 6	\$13,700

The following is the list of other approved technologies:

Amphidrome

Manufacturer: **F.R. Mahony & Associates, Inc.** www.frmahony.com
 Distributor: David Kershner (610) 351-0963 d.kershner@ketllc.com

Bioclere

Manufacturer: **Aquapoint, Inc.** www.aquapoint.com
 Robbie Tippett (240) 298-7572 rtipp4@aol.com
 Sam Seymour (585) 473-3300 sseymour@aquapoint.com

Ecoflex

Manufacturer: **Premier Tech Environment**
 Allison Blodig (785) 250-3215 bloa@premiertech.com

Hoot H-Series, ANR

Manufacturer: **Hoot Aerobic Systems, Inc.** www.hootsystems.com
 Distributor: Nancy Mayer (410) 796-1434 mayerbro@connext.net

Nitrex

Manufacturer: **Lombardo Associates, Inc** www.lombardoassociates.com
 Pio Lombardo (617) 964-2924 pio@lombardoassociates.com

ReCip RTS

Manufacturer: **Bio-Concepts, Inc.** www.bioconceptsinc.com
 Al Privette (252) 249-7040 alprivette@coastal.net

SeptiTech

Manufacturer: **SeptiTech, Inc.** www.septitech.com
 Distributor: Bruce Melton (410) 878-2952 rbmelton@progressiveseptic.com
 Western MD, Scott Everhart (304) 676-3823 www.cseenterprises.net

Singulair Model TNT

Manufacturer: **Norweco, Inc.** www.norweco.com
 Distributor: Eastern Shore - John Short (443) 786-0594 btowers62@gmail.com
 Western Shore - Jeff Earnshaw (301) 274-3772 superiortank@olg.com

Waterloo Biofilter

Manufacturer: **Waterloo BioFilter Systems, Inc.** www.waterloo-biofilter.com
 Distributor: Jones Pump Service (410) 836-9206 manager@jonespumpservice.com

If you choose to acquire bids according to this option, you are advised that MDE will provide BRF funding up to the aforementioned dollar amount, and you will have to pay any difference.

Conditions of Financial Assistance Document

By reading and signing this form, you agree to the limitations and conditions set forth in this document. This form must be returned with your submission of bids or vendor contract. Your submission will not be processed if this form does not accompany the bids or vendor contract when you submit them.

➤ **Award of Grant:**

- MDE will review the contract or bids submitted by the applicant. The grant award will be obligated based on the predetermined vendor/technology list or the lowest acceptable bid. The applicant may pay the cost difference of a more expensive bid.
- No change orders will be accepted by MDE.

- The applicant will be notified with an Award Letter with the amount of the grant obligation, Agreement and Easement document and further instructions.
- The award amount is available for reimbursement within 6 months of Department signature on the Agreement and Easement document. Upon request of the applicant, the original 6-month period may be extended at the discretion of the Department.

Agreement and Easement Document

The Agreement and Easement you will receive with the award letter must be signed by all parties and recorded in the Land Records of Howard County, Maryland. The cost of recordation is not eligible for BRF funding. A draft copy of the Agreement and Easement is provided to you in this letter for your review. A completed Agreement and Easement will be provided to you after you are notified of the grant approval amount.

➤ **Local Permitting Requirements:**

- All required local permits must be obtained.
- The County has the right to determine your availability to connect to public sewer. If you have access and your system is failing or your property is in an area that is scheduled to have a public sewer line your request for funds may be denied.
- Contact Howard County Health Department for more information.

➤ **Issuance of Funds From the BRF:**

After review of the submitted invoice and associated documents, the Office of the Comptroller of the State of Maryland will issue a check to the property owner.

Once again the Department thanks you for participating in this important program. If you have any questions, please feel free to contact me at 410-537-3678 or by email at jboris@mde.state.md.us.

Sincerely,



John Boris
Bay Restoration Fund Project Manager

Enclosure

cc: Jay Prager
MDE Regional Sanitarian
County Health Department or other related department

83-L 100 81 11002