

LAYOUT 8/7/09 INSP 4 \_\_\_\_\_  
 INSP 2 8/21/09 INSP 5 \_\_\_\_\_  
 INSP 3 8/24/09 INSP 6 \_\_\_\_\_

ISSUE DATE: 8/7/2009

P 531073

APPROVAL DATE: 8/31/09

A 520364

# PERMIT

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

Valiant Technical Services, LLC IS PERMITTED TO INSTALL  ALTER

ADDRESS: 11462 Old Hopkins Rd, Clarksvi PHONE NUMBER: \_\_\_\_\_

SUBDIVISION: \_\_\_\_\_ LOT NUMBER: \_\_\_\_\_

ADDRESS: 11462 Old Hopkins Rd PROPERTY OWNER: Dr. George Lear Jr.

SEPTIC TANK CAPACITY (GALLONS): \_\_\_\_\_ OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): N/A COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: \_\_\_\_\_

*Trenches: 2' wide  
 Inlet @ 3' 10' C.T.C.  
 Bottom @ 7'*

SQUARE FEET PER BEDROOM: \_\_\_\_\_

LINEAR FEET OF TRENCH REQUIRED: 240 LF (3x80')

TRENCHES:	Trench to be feet wide. Inlet feet below original grade. Bottom maximum depth feet below original grade. Effective area begins at feet below original grade. feet of stone below distribution pipe.
LOCATION:	Install new 'Hoot' system as shown on approved plan. <i>Install 3 x 80' trenches on center. set D box @ top      Gender at SDA.</i>
NOTES:	Installation under BRF for Hoot H-600 ABNR system. <i>* make sure system stays out of well area.</i>

PLANS APPROVED: Kevin Wolf DATE: 8/5/2009

- NOTE: PERMIT VOID AFTER 2 YEARS
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED

**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 CALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM**

**TRENCH/DRAINFIELD DATA**

(If Installed/Needed)

WIDTH	INLET	BOTTOM
2'	3'	7-7.5'
NUMBER OF TRENCHES		3
TOTAL LENGTH		240'
ABSORPTION AREA		480' <sup>sq</sup> ft
DIST. BOX LEVEL		Yes
DIST. BOX BAFFLE		9 4.5' band
DIST. BOX PORT		Yes

**AdvanTex AX 20 Model 3a.**

BAY RESTORATION FUND

MANUFACTURER ~~AdvanTex~~ <sup>Myers Bros</sup>

CAPACITY 2100 GAL

SEAM LOC Top

TANK LID DEPTH 2.5'

BAFFLES Front 6"

BAFFLE FILTER —

MANHOLE LOC Front/Rear

6" PORT LOC none

WATERTIGHT TEST —

AERATOR TEST OK

DATE ON LID —

★ See Separate sheet  
for As-Built

8/7/09 Set Dbox @ top center of SDA. Install 3x 80' trenches running either direction. Contractor verified in field. Run in along well radius. Locate old septic tank, install new hoot tank out of SDA as much as possible. Call for f/u map (KW) 8/20/09 (2:00 pm)

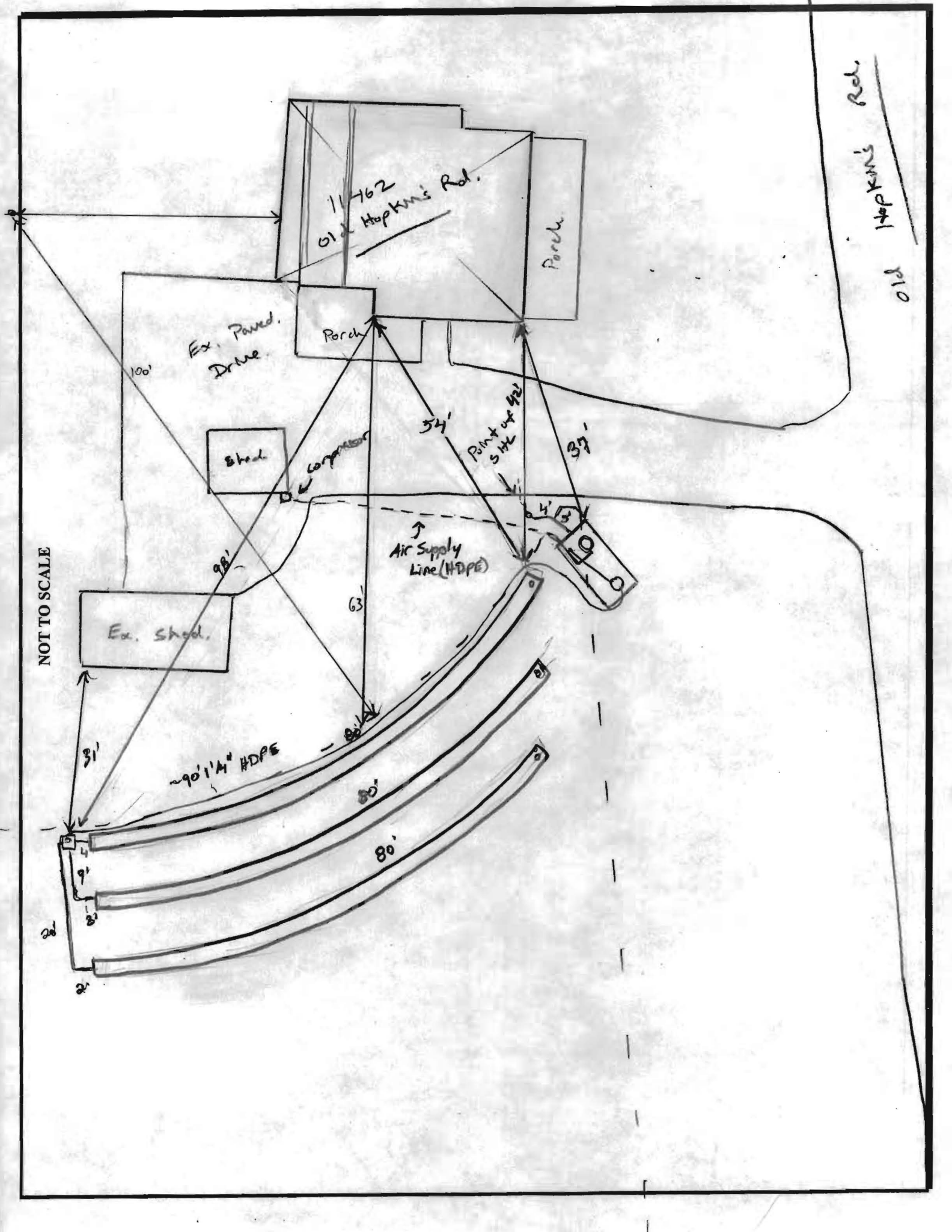
Top trench dug per layout. Heavy bands of stratified micaceous SL @ about 3-5'. Stone very dirty. Majority of stone confined w/ clay, silt and ash that was wet down. Not washed. OK to finish top trench w/ hot stone. Contractor get rest of stone from Frederick (S.W. Smelt) (KW)

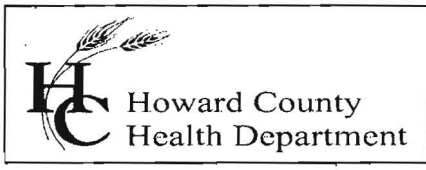
8/24/09 All 3 trenches complete. No Distribution network set-up yet. Contractor switch stone to cleaner stone (Frederick quarry) (KW)

FINAL INSPECTOR K. Wolf DATE OF APPROVAL 8/31/09

8/25/09 Hoot tank set. Compressor being installed. Dist. network being installed. Water filled up in tanks. Will need to find D.W. pump & collapse. (KW)

8/28/09 D.W. pumped and collapsed. System complete. Will need certification from manufacturer (KW)





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

### Bay Restoration Fund (BRF) Installation Questionnaire

Provide a scaled site plan with the following information. A house location survey is acceptable.

- The house footprint and any accessory structures
- Well location on the property and any neighboring wells within 100 foot of the property lines and any wells within 200 foot down grade from the septic system
- All septic systems on neighboring properties that are within 100 foot of the property lines or within 200 feet up grade from the well serving the property (records may be available from the Health Department; however, if records are not available the systems must be field located)
- Contour at two foot intervals is recommended and may be required for some installations

Will any components of the existing septic be utilized with the proposed treatment unit?  
 (Yes, no or N/A if the component is not part of the system)

- Septic tank No
- Pump chamber No
- Distribution box No
- Drainfields No
- Drywell No
- Mound system No
- Other \_\_\_\_\_

If the existing septic tank or pump chamber is being utilized the tanks will need to be water tightness tested by the contractor/manufacturer of the pretreatment unit under supervision by the Health Department. Mid seam tanks must be replaced. Confirm that the tank baffles are functional. The pump chamber pumps and high water alarm will need to be tested after the installation.

If a new tank is required, are there site access restrictions? No

The contractor shall provide the following information in order to assure that the proposed installation will function properly. If an entire system is being installed, provide the waste line elevation at the point where the new system will be connected to the existing waste line. This information will be used to demonstrate that the installation will not be too deep.

- The manufacturer's recommended maximum depth of the proposed unit 3'
- Elevation of the connection to the existing waste line 3
- If a new waste line from the house to the system is to be installed, include the invert elevation at the house NA

Invert elevations of the following:

(May be provided as depth below ground surface if contour is not provided)

- Septic tank inlet 3
- Septic tank outlet 3' 4"
- Distribution box \_\_\_\_\_
- Beginning of trench or drywell if there is not a distribution box \_\_\_\_\_
- Depth to top of tank 2' 6"

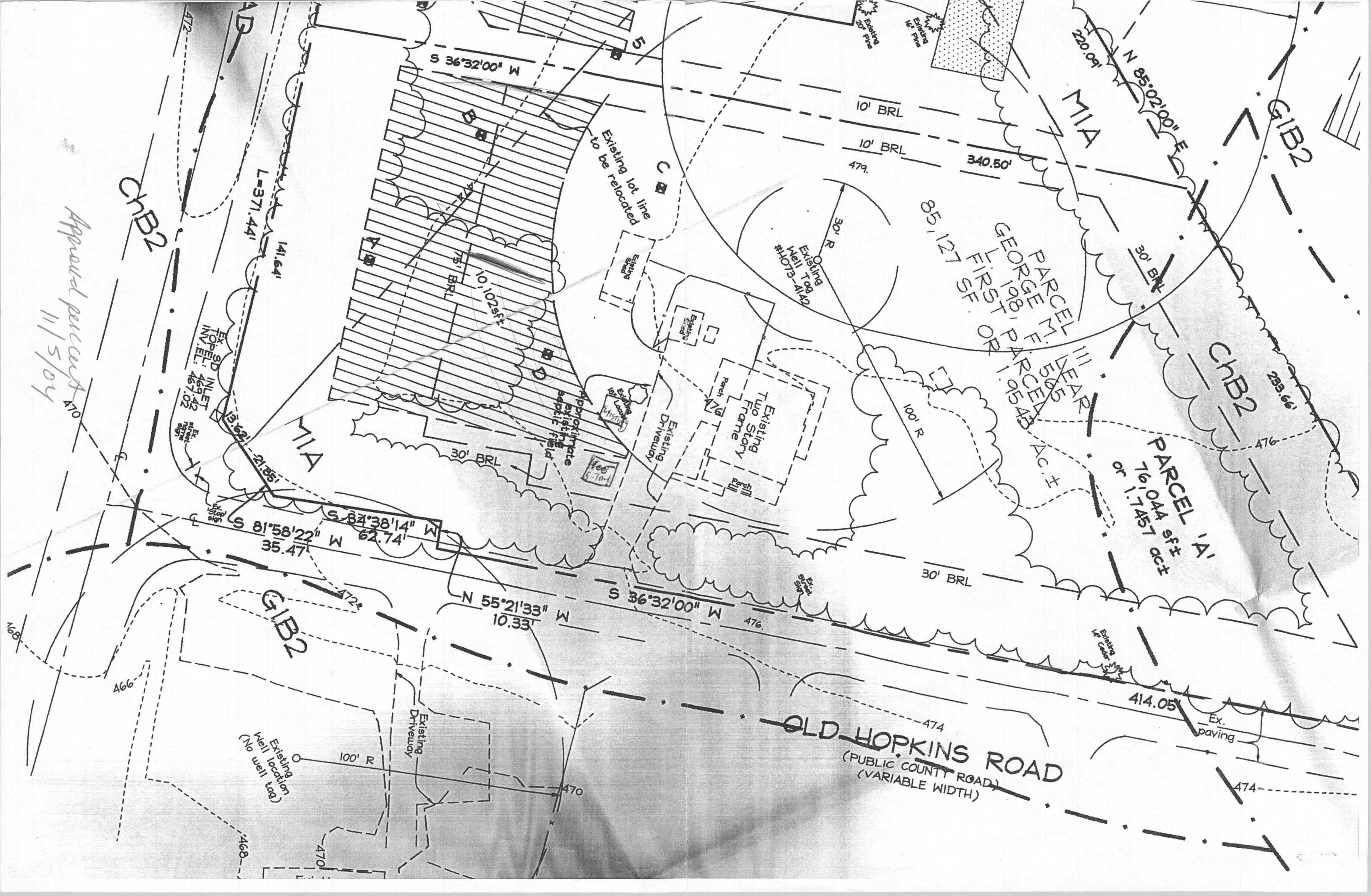
A system start-up certification from the manufacturer must be sent to the Health Department.

All system installations are site specific and additional information may be required.

Form completed by GARLAND BRIAN Date 4/3/09  
 Print Name  
 Phone # 301 854-2161

*Sarah  
4261*

Approved per city 11/5/04 470



ChB2

L=371.44'

EX 3D INLET  
TOP EL: 469.42  
INV EL: 467.02

MIA

S 81°58'22" W 35.47'  
S 84°38'14" W 62.74'

GIB2

N 55°21'33" W 10.33'

S 36°32'00" W 476'

OLD HOPKINS ROAD  
(PUBLIC COUNTY ROAD)  
(VARIABLE WIDTH)

S 36°32'00" W

Existing lot line  
to be relocated

Existing  
Driveway

Existing  
Two Story  
Frame  
Building

Approximate  
existing  
septic field

Existing  
Well Top  
#1073-4142

PARCEL  
A  
GEORGE  
PARCE  
FIRE  
OR

PARCEL  
A  
16,044 sq ft  
or 1,745 sq ft

ChB2

GIB2

MIA

10' BRL

10' BRL

479.

340.50'

30' R

85.127

100' R

30' BRL

30' BRL

233.66'

476

414.05'

Ex.  
paving

474

Existing  
Well location  
(No well top)

100' R

470

474

472

472

141.64'

75' BRL

10,102sqft

479.

30' BRL

233.66'

476

414.05'

Ex.  
paving

474

Existing  
Well location  
(No well top)

100' R

470

474

472

472

141.64'

75' BRL

10,102sqft

479.

30' BRL

233.66'

476

414.05'

Ex.  
paving

474

# Mayer Bros., Inc.

Manufacturers of

PRECAST CONCRETE PRODUCTS

6264 Race Road Elkridge, MD 21075  
 Phone: (410) 796-1434 Fax: (410) 796-1438

www.mayerbrosprecast.com

E-MAIL: mayerbro@connext.net

## Proposal For Bay Restoration Fund Septic Upgrade

<b>Submitted To:</b> George M. Lear Jr.	<b>Installer:</b> Garland Brian Sr. LLC	<b>Date:</b> 6/17/09
<b>Street:</b> 11462 Old Hopkins Rd.	<b>Street:</b> 12871 Highland Rd.	<b>County:</b> Howard
<b>City, State, &amp; Zip Code:</b> Clarksville, MD 21029	<b>City, State, &amp; Zip Code:</b> Highland, MD 20777	<b>Permit No.:</b>
<b>Site Address:</b> Same	<b>Contact:</b> Garland Brian	<b>MDE Contact:</b> John Boris
<b>Phone:</b> _____ <b>Cell:</b> _____	<b>Phone:</b> 301-854-2161 <b>Fax:</b> 301-854-3603	<b>MDE phone:</b>
<b>email:</b>	<b>Email:</b>	<b>MDE email:</b>

We hereby submit specifications and estimate for the following:

**MDE Pre-Bid Central Region**

**Installation of Hoot 600 BNR Unit, 5 year warranty, Operations & Maintenance \$13,100.00**

**HOMEOWNER RESPONSIBLE FOR:**

Completing MDE Conditions of Financial Assistance Form; Completing Easement Form, and filing with County;  
 Filing all completed paperwork for reimbursement; Final transfer of payment to Mayer Bros., Inc.

**INSTALLER RESPONSIBLE FOR:**

Site visit to evaluate scope and feasibility, Installation Permits, and Miss Utility Notification  
 Safe Abandonment of existing septic system, Electrical supply to Hoot System, external disconnect  
 Installation and Hook up of Hoot System according to Installation Instructions, Water Supply to start up system  
 Coordinating inspection and obtaining final approval from local health department.  
 Final grading, seed and straw, one site visit as needed to address any settling that may occur.

**MAYER BROS., INC. RESPONSIBLE FOR:**

Supplying Hoot 600 BNR, Setting in excavation, Start up inspection and approval  
 Homeowner review of 5 year Warranty, Registration and Service Policy (5 yr Operations and Maintenance)  
 Final payment to installation Contractor

Tax included in above (\$363.00)  
**TOTAL \$13,100.00**

**\* NOTE: NO work will be scheduled until easement is recorded and permits have been issued.**

**TOTAL PRICE: \$13,100.00 Delivered with MBI Truck Crane to Set**

**Payment To Be Made As Follows:** Reimbursement from MDE. Homeowner to transfer immediately to MBI

While extreme caution is exercised during excavation activities, we can not be responsible for any underground utilities which are not marked by Miss Utility. We will take all reasonable precautions, but private utilities such as sprinkler systems or electrical service to outbuildings are the homeowners responsibility.  
 Driveways and sidewalks will be protected and avoided as much as possible, but we are not responsible for damage.

Authorized Signature: \_\_\_\_\_  
 Nancy J. Mayer - Mayer Bros., Inc.

We warrant all work to meet standards of and to be acceptable to inspection and governmental agencies. Work is considered to be completed when accepted by appropriate county inspection agency and Hoot licensed representative.

Acceptance of Proposal The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

**\*\*\* No work will begin until receipt of signed proposal and MDE Approval \*\*\***

Accepted: George M. Lear Jr.  
 Homeowner

Garland L. Brian Sr.  
 Installer

Date

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

000174

THIS AGREEMENT is made this 25th day of June, among George M. Lear, Jr, 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 11462 Old Hopkins 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 9685 Folio 696.

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:

- 20  
20  
20
- 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.

- 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: 7-13-09

George M. Lear Jr.  
Owner GEORGE M. LEAR JR.

DATE: 7/9/09

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

DATE: 7/20/09

Beal Ripen  
Howard County Health Department

TWP FD SURE \$ 20.00  
RECORDING FEE 20.00  
TOTAL 40.00  
Res# CH05 Rpt # 82549  
HDR JHE Blk # 1945  
JUL 20, 2009 10:51 am



# 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

July 9, 2009

George M. Lear, Jr.  
11462 Old Hopkins Road  
Clarksville, MD 21029

RE: Tax Map 41, Grid 15, Parcel 111

Dear Mr. Lear:

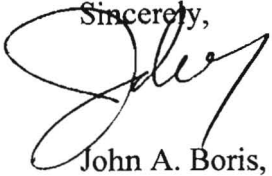
Your bid package for the Bay Restoration Fund (BRF) Onsite Sewage Disposal System (OSDS) Program has been approved for the use of funds totaling not more than \$13,100.00. The accepted bid amount is for the installation of a Hoot 600 installed by Garland Brian for your property located at 11462 Old Hopkins Road. **You have 45 days from the date of this letter to install the chosen system and submit to the Maryland Department of the Environment (MDE) the items below for disbursement.** An extension may be granted due to site conditions if you supply MDE a request in written letter form. 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 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](mailto:jboris@mde.state.md.us).

Sincerely,



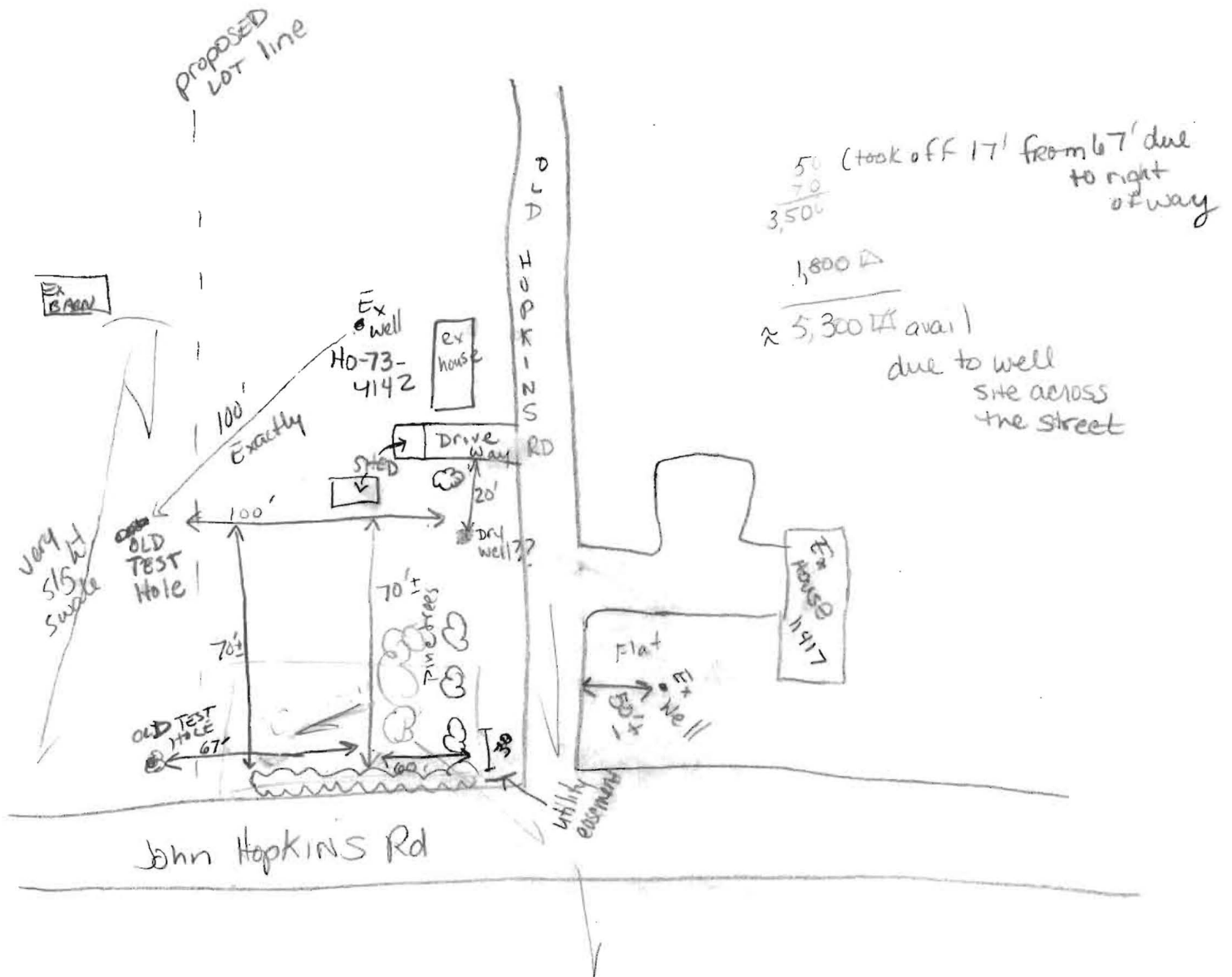
John A. Boris, Jr., R.S.  
Bay Restoration Fund Project Manager

Enclosure

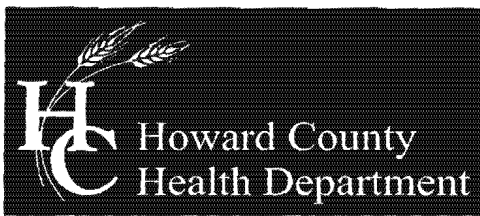
cc: Jay Prager  
Steve Krieg, Regional Consultant  
Howard County Health Department

2009 JUL 14 11:31:40

North ↑



Site visit for 11462  
OLD Hopkins Rd.  
ID 10  $\Delta$  for existing Lot



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

June 17, 2009

Dr. George Lear Jr.  
11462 Old Hopkins Road  
Clarksville, Maryland 21029

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

Dear Dr. George Lear Jr.,

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 Funds 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', with a long horizontal flourish extending to the right.

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  
Governor

Shari T. Wilson  
Secretary

Anthony G. Brown  
Lieutenant Governor

Robert M. Summers, Ph.D.  
Deputy Secretary

June 9, 2009

Dr. George Lear Jr.  
11462 Old Hopkins Rd,  
Clarksville, Maryland 21029

Dear Dr. George Lear Jr.:

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 11462 Old Hopkins Rd, Clarksville, Maryland 21029 and shown on Tax Map 41, Grid 15, Parcel 111. 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 two 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](http://www.hootsystems.com)    Email: [mayerbro@connext.net](mailto:mayerbro@connext.net)

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

<sup>1</sup> Allegany, Garrett, Frederick, Washington,

<sup>2</sup> Baltimore, Harford, Howard, Carroll, Montgomery, Anne Arundel, Cecil

<sup>3</sup> Prince George's, Charles, Calvert, St. Mary's

<sup>4</sup> 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](http://www.orenco.com)

Email: [bjohnson@septicystems.net](mailto:bjohnson@septicystems.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

The applicant may choose any one of the two 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 must procure three (3) bids from the other vendors (including installation quotes) however the grant amount will be limited to the least expensive of the preapproved vendor technologies appropriate for the designated region and may not exceed the proposed fixed cost for that technology. 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	\$14,200
	5 to 6	\$14,200
Central	3 to 4	\$12,950
	5 to 6	\$13,100
Southern	3 to 4	\$12,700
	5 to 6	\$13,500
Eastern	3 to 4	\$13,068
	5 to 6	\$13,700

- 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.

The following is the list of other approved technologies:

<b>Amphidrome</b>			
Manufacturer:	<b>F.R. Mahony &amp; Associates, Inc.</b>	<a href="http://www.frmahony.com">www.frmahony.com</a>	
Distributor:	Rockland , MA	(781) 982-9300	
<b>Bioclere</b>			
Manufacturer:	<b>Aquapoint, Inc.</b>	<a href="http://www.aquapoint.com">www.aquapoint.com</a>	
	Robbie Tippet	(240) 298-7572	<a href="mailto:rtipp4@aol.com">rtipp4@aol.com</a>
	Sam Seymour	(585) 473-3300	<a href="mailto:sseymour@aquapoint.com">sseymour@aquapoint.com</a>
<b>Ecoflex</b>			
Manufacturer:	<b>Premier Tech Environment</b>		
	Allison Blodig	(785) 250-3215	<a href="mailto:bloa@premiertech.com">bloa@premiertech.com</a>
<b>Hoot H-Series, ANR</b>			
Manufacturer:	<b>Hoot Aerobic Systems, Inc.</b>	<a href="http://www.hootsystems.com">www.hootsystems.com</a>	
Distributor:	Nancy Mayer	(410) 796-1434	<a href="mailto:mayerbro@connext.net">mayerbro@connext.net</a>
<b>Nitrex</b>			
Manufacturer:	<b>Lombardo Associates, Inc</b>	<a href="http://www.lombardoassociates.com">www.lombardoassociates.com</a>	
	Pio Lombardo	(617) 964-2924	<a href="mailto:pio@lombardoassociates.com">pio@lombardoassociates.com</a>
<b>ReCip RTS</b>			
Manufacturer:	<b>Bio-Concepts, Inc.</b>	<a href="http://www.bioconceptsinc.com">www.bioconceptsinc.com</a>	
	Al Privette	(252) 249-7040	<a href="mailto:alprivette@coastal.net">alprivette@coastal.net</a>
	Chris Wilhelm	(443) 375-0497	<a href="mailto:snrwastewater@gmail.com">snrwastewater@gmail.com</a>
<b>SeptiTech</b>			
Manufacturer:	<b>SeptiTech, Inc.</b>	<a href="http://www.septitech.com">www.septitech.com</a>	
Distributor:	Bruce Melton	(410) 878-2952	<a href="mailto:rbmelton@progressiveseptic.com">rbmelton@progressiveseptic.com</a>
	Western MD, Scott Everhart	(304) 676-3823	<a href="http://www.cseenterprises.net">www.cseenterprises.net</a>
<b>Singulair Model TNT</b>			
Manufacturer:	<b>Norweco, Inc.</b>	<a href="http://www.norweco.com">www.norweco.com</a>	
Distributor:	Eastern Shore - John Short	(443) 786-0594	<a href="mailto:btowers62@gmail.com">btowers62@gmail.com</a>
	Western Shore - Jeff Earnshaw	(301) 274-3772	<a href="mailto:superiortank@olg.com">superiortank@olg.com</a>
<b>Waterloo Biofilter</b>			
Manufacturer:	<b>Waterloo BioFilter Systems, Inc.</b>	<a href="http://www.waterloo-biofilter.com">www.waterloo-biofilter.com</a>	
Distributor:	Jones Pump Service	(410) 836-9206	<a href="mailto:manager@jonespumpservice.com">manager@jonespumpservice.com</a>

**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

You will receive an Agreement and Easement with the award letter that 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. The Agreement and Easement establishes the voluntary nature of the program and allows State and County personal access to the property to monitor the system.

➤ **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](mailto: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

10:37 AM 5/11/04

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

THIS AGREEMENT is made this 25th day of June, among George M. Lear, Jr, 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 11462 Old Hopkins 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 9685 Folio 696.

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.

- 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: 7-13-09

George M. Lear Jr.  
Owner

DATE: 7/9/09

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

DATE: 7/20/09

Beal Ripen  
Howard County Health Department