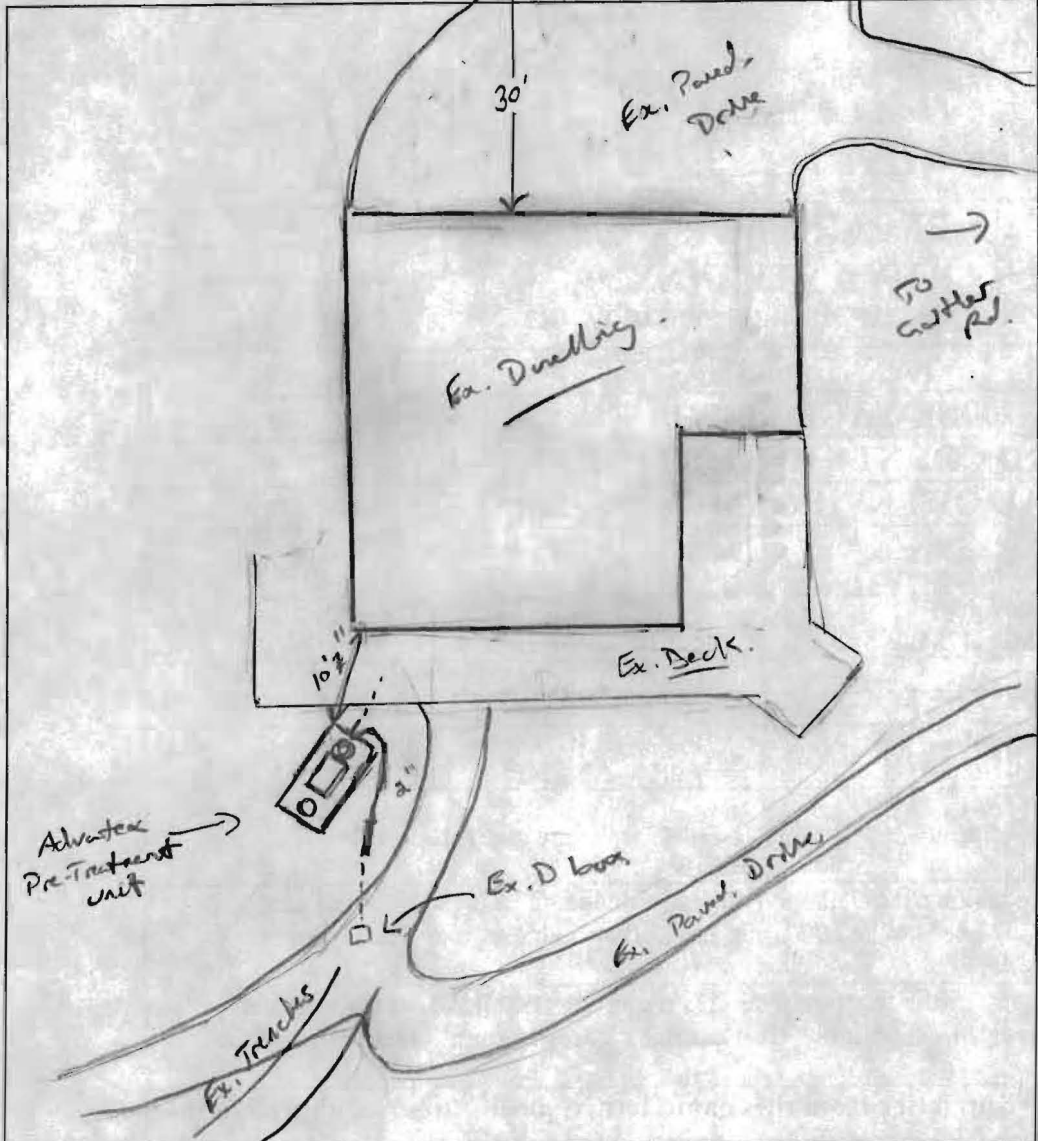


LAYOUT \_\_\_\_\_ INSP 4 \_\_\_\_\_  
 INSP 2 8/2/09 INSP 5 \_\_\_\_\_  
 INSP 3 \_\_\_\_\_ INSP 6 \_\_\_\_\_

ISSUE DATE:	7/29/2009	<b>PERMIT FOR - ADVANTEX AX20 PRETREATMENT SEPTIC TANK</b>	P	531088
APPROVAL DATE:	8/2/09		A	18567
<b>TAX ID # 03-293076</b>				
<b>ON-SITE SEWAGE DISPOSAL SYSTEM</b>				
<b>HOWARD COUNTY HEALTH DEPARTMENT</b>				
<b>BUREAU OF ENVIRONMENTAL HEALTH</b>				
Fogles Septic Clean Has Permission To			INSTALL <input type="checkbox"/> ALTER <input checked="" type="checkbox"/> The Septic System at	
PROPERTY ADDRESS:	455 Gaither Road Sykesville, MD 21784	HOMEOWNER: PHONE NUMBER:	David Carl	
SUBDIVISION:		LOT:		
CONTRACTOR ADDRESS:	580 Obrecht Road Sykesville, MD 21784	CONTRACTOR PHONE NUMBER:	(410)795-5670	
Advantex AX20	600gpd	Top Seamed Compartmented Tank with Aerobic Pretreatment		
LOCATION:	The existing tank must be pumped out and filled in. The location of the new Advantex tank needs to be 100' from the well or no closer than the existing tank.			
NOTES:	A complete test of the functioning unit is required. <b>Install Advantex unit per manufacturer's instructions. Unit cannot be deeper than 3 feet below grade.</b>			
<p><b>Note: 1) A certification start-up letter from the manufacturer needs to be submitted to the Health Dept. before the Advantex system can be approved for funding.</b></p> <p><b>2) The rest of the septic system must be examined to verify that it is functioning properly. A suitable repair must be performed if the system is not functioning properly or at the point of failure. Percolation testing and additional fees may be required if additional work is required for the septic system to operate correctly.</b></p>				
PLANS APPROVED:	B. Baker	DATE:	7/29/2009	
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				
<b>NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM</b>				
<b>PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT</b>				
<b>IF YOU ARE WORKING YOU MUST CALL 410-313-1771 TO SCHEDULE INSPECTIONS</b>				

HO-88-0877



**TRENCH/DRAINFIELD DATA**  
(If Installed/Needed)

WIDTH	INLET	BOTTOM
_____	_____	_____
NUMBER OF TRENCHES _____		
TOTAL LENGTH _____		
ABSORPTION AREA _____		
DIST. BOX LEVEL _____		
DIST. BOX BAFFLE _____		
DIST. BOX PORT _____		

**AdvanTex AX 20 Model 3a.**  
BAY RESTORATION FUND

MANUFACTURER	Monarch
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	3'
BAFFLES	6" Front
BAFFLE FILTER	open/clothed
MANHOLE LOC	Front/Rear
6" PORT LOC	none
WATERTIGHT TEST	N/A
AERATOR TEST	OK
DATE ON LID	?

8/7/09 AdvanTex installed over ex. septic tank. Ex. tank pumped and hauled off site. Start-up test runs look's good. Had contractor add in 6" baffles to inlet of tank. OK to backfill. Need start-up certification from manufacturer for final approval. (K) Start-up certification received from manufacturer. (K)

FINAL INSPECTOR J. Waff DATE OF APPROVAL 8/21/09

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

000248

THIS AGREEMENT is made this 23rd day of June, among David I. Carl, 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 455 Gaither Road, in the 3rd 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 11601 Folio 76.

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  
85
- 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 \$ 12,950.40 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: 7/11/09

David I Carl  
Owner DAVID I CARL

DATE: 7/18/09

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

DATE: 7/13/09

William J. ...  
Howard County Health Department

IMP FD SURE \$ 20.00  
RECORDING FEE 20.00  
TOTAL 40.00  
Rec'd CHES Rcpt # 02266  
MOR JME Blk # 1259  
Jul 14, 2009 03:20 PM



# 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

David I. Carl  
455 Gaither Road  
Sykesville, MD 21784

RE: Tax Map 4, Grid 13, Parcel 71

Dear Mr. Carl:

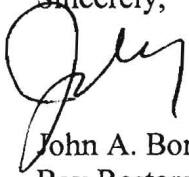
Your bid package for the Bay Restoration Fund (BRF) Onsite Sewage Disposal System (OSDS) Program has been approved for the use of funds totaling not more than \$12,950.40. The accepted bid amount is for the installation of an Orenco Advantex for your property located at 455 Gaither Road. **You have 45 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 \$12,950.40. 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,

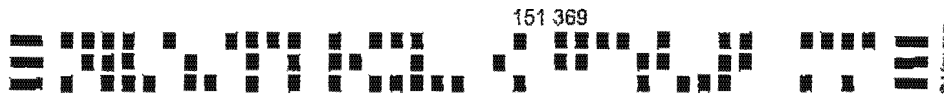


John A. Boris, Jr., R.S.  
Bay Restoration Fund Project Manager

Enclosure

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

2009 JUL 14 2:39



# AdvanTex® Field Maintenance Report

## Start-Up Summary Report

Atlantic Solutions, MD  
(401) 293-0176

Property Owner/Tracking # David Carl		Operator		Installed Date	
Site Address 455 Gaiher Rd., Sykesville MD 21784				Start-Up Date 07/17/2009	
Phone Number (410) 465-4435	Permit #	Mode Mode 1A	Bedrooms	Occupants	Occupancy Date
Designer/Engineer Atlantic Solutions		Phone (401) 293-0176	Authorized Installer Fogles Septic		Phone (410) 795-5870
AdvanTex Dealer Atlantic Solutions, LTD		Phone (401) 293-0176	Electrician		Phone

### Primary Treatment

If using a single Processing Tank, complete the following:

Processing Tank

Septic Volume ( 1600 gal.)    Recirc Volume ( 500 gal.)

Construction     Concrete     Fiberglass     Other

Manufacturer: Minerich

If using a separate Septic Tank and Recirc Tank, complete the following:

Septic Tank ( \_\_\_\_\_ gal.)

Construction     Concrete     Fiberglass     Other

Manufacturer: \_\_\_\_\_

Recirc Tank ( \_\_\_\_\_ gal.)

Construction     Concrete     Fiberglass     Other

Manufacturer: \_\_\_\_\_

Pump Model: PF300511

Floats set properly at 11 -in. 13 -in. 29 -in.

### Secondary Treatment

RSV setting: 16 -in.

Residual head measurement:

Pod #1 60 -in. Pod #2 \_\_\_\_\_ -in. Pod #3 \_\_\_\_\_ -in.

Discharge Tank/Basin ( \_\_\_\_\_ gal.)

Construction     Concrete     Fiberglass     PVC (Basin)

Manufacturer: \_\_\_\_\_

Pump Model: \_\_\_\_\_

Floats set properly at \_\_\_\_\_ -in. \_\_\_\_\_ -in. \_\_\_\_\_ -in.

Discharge pump flow rate (drawdown test): ( \_\_\_\_\_, gpm)

Discharge pump dose volume: ( \_\_\_\_\_ gal./dose)

Comments \_\_\_\_\_

Signature \_\_\_\_\_ Date 8/7/09

Fax completed form to 1-866-384-7404

### Control Panel

Panel ID (RTU or UL #) RTU120142	"On" Timer Setting	"Off" Timer Setting
-------------------------------------	--------------------	---------------------

### Filter Pods

Pod #1 Serial No. 408930	Pod #2 Serial No.	Pod #3 Serial No.
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### Other System Components

Disinfection equipment (manufacturer): \_\_\_\_\_

Dispersal system (type of): Gravity

### Declarations (Initial)

\_\_\_\_\_ Oranco's Start-Up Procedure was followed.

\_\_\_\_\_ All lids are secured.

\_\_\_\_\_ Circuit breakers are on and control panel is latched.

\_\_\_\_\_ "For Service Call" label with phone # was affixed to panel.

\_\_\_\_\_ Homeowner Package was reviewed with:

Builder on (date) \_\_\_\_\_

Resident on (date) \_\_\_\_\_

The system is ready for use  Yes  No (explain)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



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

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

May 11, 2009

David Carl  
455 Gathier Road  
Sykesville, Maryland 21784

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

Dear David Carl,

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', written over a horizontal line.

Sara Sappington, R.S.  
Well and Septic Program