

PUB. SEWER STATUS VERIFIED BY \_\_\_\_\_

ISSUE DATE: 2/7/2011

# PERMIT

P 534463

APPROVAL DATE: 6/8/2011

A REPAIR

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

\_\_\_\_\_ IS PERMITTED TO INSTALL  ALTER

ADDRESS: \_\_\_\_\_ PHONE NUMBER: \_\_\_\_\_

SUBDIVISION: Rix Property LOT NUMBER: \_\_\_\_\_

ADDRESS: 944 Hoods Mill Road PROPERTY OWNER: Justin and Jennifer Rix

SEPTIC TANK CAPACITY (GALLONS): N/A

PUMP CHAMBER CAPACITY (GALLONS): \_\_\_\_\_

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

SQUARE FEET OF HOUSE: \_\_\_\_\_

LINEAR FEET OF TRENCH REQUIRED: \_\_\_\_\_

TRENCHES:	
LOCATION:	
PURPOSE:	

PLANS APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

- 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

**NEITHER THE HOWARD COUNTY COUNCIL OR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT CALL 410-313-1771 FOR INSPECTION OF SEPTIC SYSTEM**

NOT TO SCALE

See As-Built Drawing On  
Separate Sheet

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH 3' INLET 2-3' BOTTOM 6-8'

NUMBER OF TRENCHES 5

TOTAL LENGTH 200'

ABSORPTION AREA 600+ Sidewall

DISTRIBUTION BOX LEVEL

DISTRIBUTION BOX BAFFLE Yes

DISTRIBUTION BOX PORT Yes

SEPTIC TANK DATA

SEPTIC TANK I LEVEL Yes

MANUFACTURER Advantex

CAPACITY AX20 GAL

SEAM LOC TOP

TANK LID DEPTH 1.5'

BAFFLES N/A

BAFFLE FILTER No

MANHOLE LOC Front + Rear

6" PORT LOC None

WATERTIGHT TEST No

SLOTTED N/A

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:

2/17/2011 Established repair area. Two trees will have to be removed (BB) 3/31/2011 Laid out trenches and tank location. Two more trees will have to be removed to facilitate trench installation. (BB)

INSTALLATION: 6/1/2011 Advantex unit set. House connection made. Started on trenches. (BB)

6/2/2011 System finished except for distribution box levelers and Advantex Unit test. (BB)

6/8/2011 Final inspection not done. Had seminar to go to. Advantex unit checked/inspected by Advantex inspector. Installer said that levelers were put in and adjusted. Gave O.K. to backfill. (BB)

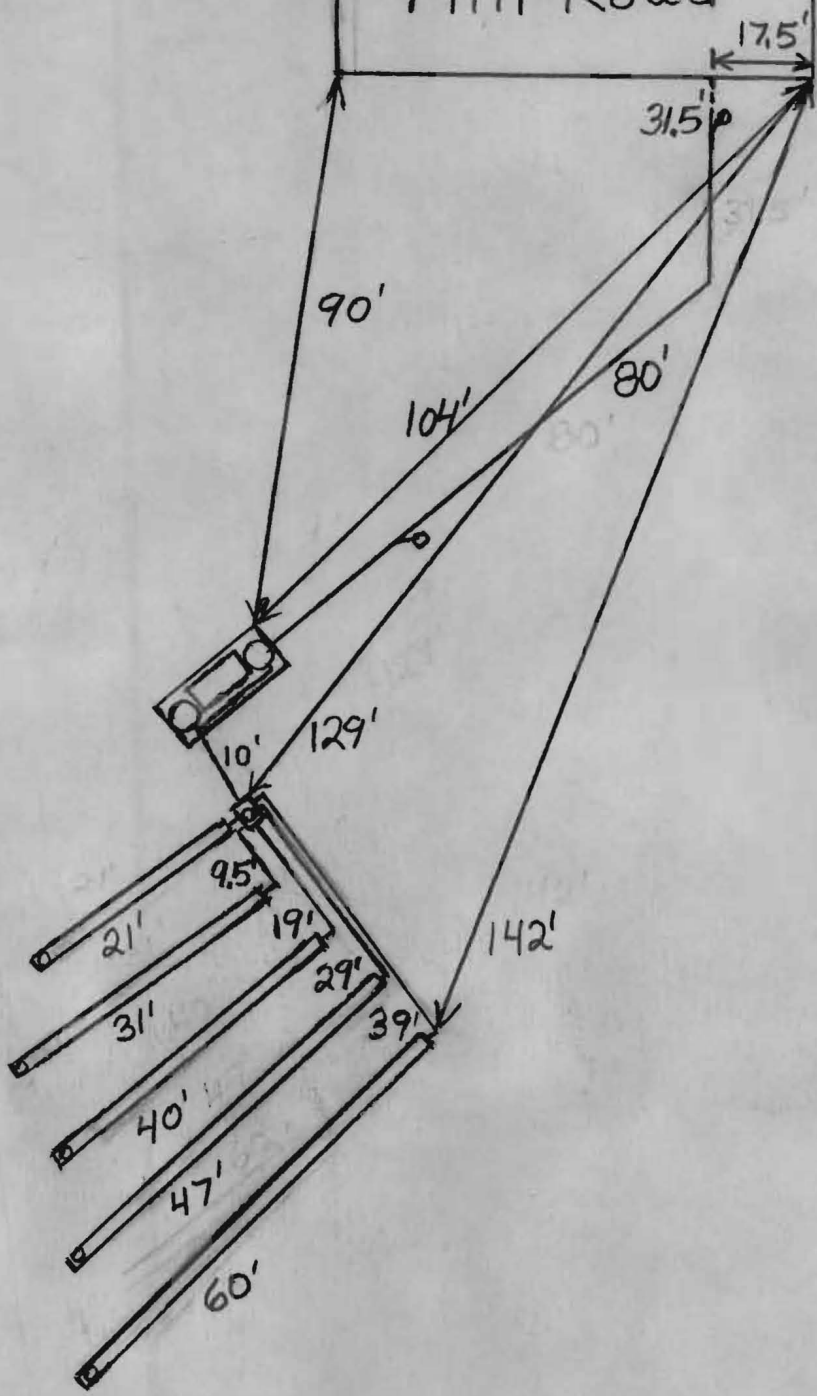
FINAL INSPECTOR B. Baker

DATE OF APPROVAL 2/8/2011

Pit Well

944 Hoods Mill Road

USPY 52 F 60



①

Bill/Justin - I see two options. Either three 9' Wide Beds or 3' Trenches Spaced Close Together

LPD is required for beds. I may however use gravity with the trenches if you can get fall to a 2' inlet at the highest trench. To get fall to trenches they would probably have to have a hung sewer or some kind of pump. Either way pretreatment will be required due to limited repair area. Any future repairs would most likely be near or above grade. A drip system should work. Less likely but still a possibility would be a sand mound or an at-grade system. Further perc testing with passing results would be required for one of these systems. They all require a pumped system and the drip and mound systems are expensive.

Here are the specs for this repair. They may change somewhat due to topography or any encountered obstacles. We'll figure that out during the layout.

### Beds:

9' Wide With Lengths of 15', 30' and 45'.

15' Bed - Inlet 2.5' and Bottom at 8'

30' Bed - Inlet 3' and Bottom at 7'

45' Bed - Inlet at 3.5' and Bottom at 6'

Also Gravel to Cover the Laterals

(2)

Each Bed Will Need Two  $1\frac{1}{4}$ " Laterals With Turn-ups  $\sim 200'$  of  $1\frac{1}{4}$ "

A 3" Force Main and Manifold Are Needed

A  $\frac{1}{2}$  or  $\frac{3}{4}$  HP Pump Will Be Needed

Filter Cloth to Cover the Beds

Trenches: Low Pressure Dosing

3' Wide Trenches That Will Be About 4' Apart at the Closest Points  $\sim 170'$  Total

20' Trench - Inlet 2.5' and Bottom 8'

25' Trench - Inlet 2.5' and Bottom at 7.5'

30' Trench - Inlet 3' and Bottom at 7'

40' Trench - Inlet 3.5' and Bottom at 6.5'

55' Trench - Inlet 4' and Bottom at 6'

Enough Gravel to Cover the Laterals

Each Trench Needs a  $1\frac{1}{2}$ " Lateral With Turn-up  $\sim 180'$  of  $1\frac{1}{2}$ "

A 3" Force Main and Manifold Are Needed

A  $\frac{1}{2}$  HP Pump

Filter Cloth

A Second Septic Tank or Equivalent of Roughly 1,000 Gallons is Required for These LPD Systems

An Alarm, Control Box, Manhole Riser and Any Other Normal Parts are Needed for the Pump  
 $\frac{1}{4}$ " Holes Will Be Used in the Laterals

Trench System - Gravity Distribution

3' Wide Trenches that Will Be About 4' Apart at the Closest Points

20' Trench - Inlet 2' and Bottom at 8'

25' Trench - Inlet 2' and Bottom at 7.5'

30' Trench - Inlet 2' and Bottom at 7'

40' Trench - Inlet 2' and Bottom at 6.5'

55' Trench - Inlet 2' and Bottom at 6'

Distribution Box, Filter Cloth, Observation Ports, etc.

I'm Raising the Gravel Depth in Order to Try to Get Some Air to the Trenches Since They Aren't LPD

Included Are Some Drawings Showing Hypothetical Trench and Bed Layouts - Hopefully They Are Close

I Can Get You the Lateral Hole Spacing Later, If Necessary

4

170'

Manifold 3' Wide

or  
Distribution  
Box Lines

(H)

20'

12'

25'

30'

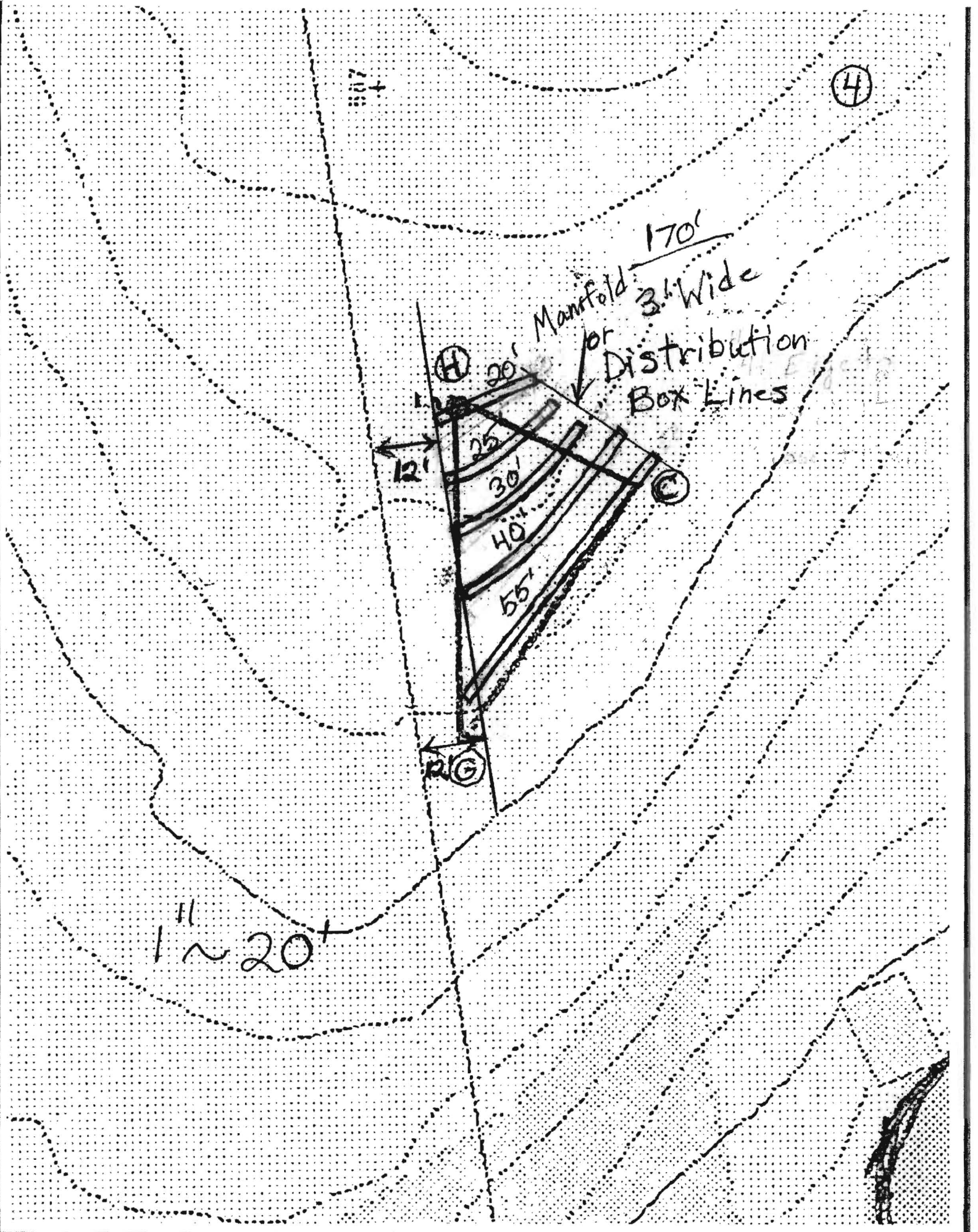
40'

55'

(C)

(G)

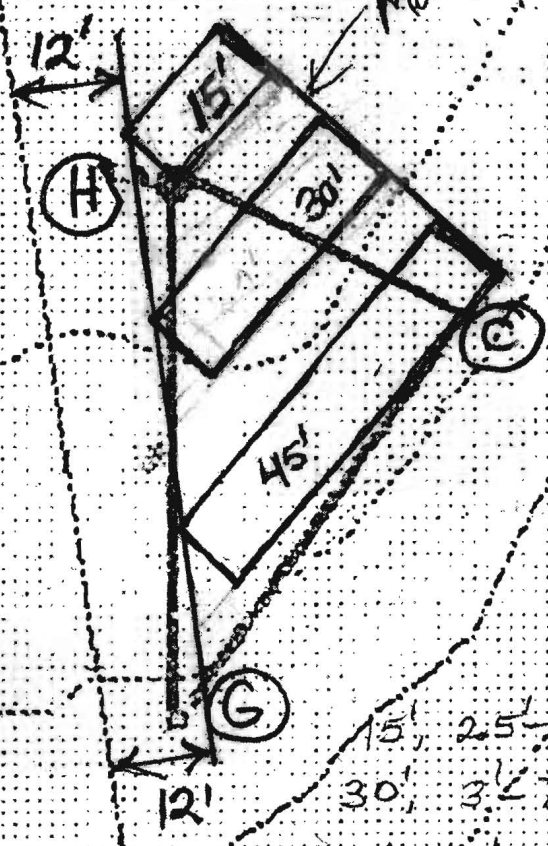
1" ~ 20'





5

Manifold



15', 2.5'-8'  
 30', 3'-7'  
 45', 3.5'-6'

1" ~ 20'

O & M Agreements  
submitted for recording  
AS  
2/8/2011

Circuit Court for  
HOWARD COUNTY  
Clerk of the Court.  
MARGARET D. RAPPAPORT  
8360 COURT AVENUE  
ELLCOTT CITY, MO 21043-  
(410) 313-2111

Transaction Block: 655  
Ref: 205  
AGREEMENT AMOUNT  
INP FD SURE \$5 20.00  
RECORDING FEE \$20.00 20.00  
SUBTOTAL: 40.00

Transaction Block: 656  
Ref: 206  
AGREEMENT AMOUNT  
INP FD SURE \$5 20.00  
RECORDING FEE \$20.00 20.00  
SUBTOTAL: 40.00

TOTAL CHARGES: 80.00

PAYMENTS  
CASH 80.00

TOTAL TENDERED: 80.00

Cashier: KMC Reg # H003  
Rcpt # 14940  
Date: Feb 09, 2011 Time: 02:59 pm



# Canaan Valley Institute

WORKING FOR THE SUSTAINABILITY OF THE MID-ATLANTIC HIGHLANDS SINCE 1995

January 28, 2010

Mr. Justin Rix  
944 Hoods Mill Road  
Cooksville, MD 21723

RE: Howard County Bay Restoration Fund OSDS Upgrade Program

Dear Mr. Rix:

Thank you for your application to participate in the Howard County Bay Restoration Fund OSDS Upgrade Program. The Howard County Health Department has verified that your existing septic system is failing and in need of repair. Based on your 2009 income tax return form, you are eligible to receive funding to cover **75%** of the cost to upgrade your system to one of the MDE approved BAT units up to \$12,307. Award amount will not exceed \$9230. The approved price includes the cost of the unit, installation of the unit, and 5 years of operation and maintenance. The price does not include the cost of permits.

In order to receive your OSDS upgrade, **you MUST follow these steps:**

1. **Sign this letter** on the bottom of page 2 **and return it** in the envelope provided **within 2 weeks of the date of this letter.**
2. File a septic repair permit application with the Howard County Health Department **within 2 weeks of the date of this letter.** The permit application fee is \$396.00 (\$165 for tank approval only).
3. Sign the enclosed Agreement and Easement for Installation of Best Available Technology Systems with Bay Restoration Funds, have it signed by a Howard County Health Department Bureau Director or Designee. Then take it to the Circuit Court and have it recorded in Land Records **within 2 weeks of the date of this letter.**
4. Prepare your property and schedule installation of the system. The system must be installed **within 6 weeks of the date the Agreement and Easement is recorded.**

If assistance is needed in completing any of the steps listed above, you may contact me at 304-940-3443 or [kristin.mielcarek@canaanvi.org](mailto:kristin.mielcarek@canaanvi.org).

494 RiverStone Road | Davis, WV 26260  
Phone: (304) 259.4739 or (800) 922.3601 | Fax: (304) 259.4759  
[www.canaanvi.org](http://www.canaanvi.org)

The system vendor may provide a contractor to install your BAT unit. CVI will provide payment of 75% of the cost of the system and installation (not to exceed \$9230) directly to the vendor. The homeowner will be responsible for the remaining balance. The vendor may also require proof of insurance from your contractor.

**If your system is not installed within the 8 week timeframe listed in the steps on page 1, the funds may be released and used elsewhere.**

For more information on septic repair permitting, contact:

Jeff Williams  
Program Supervisor, Well and Septic  
410-313-1771

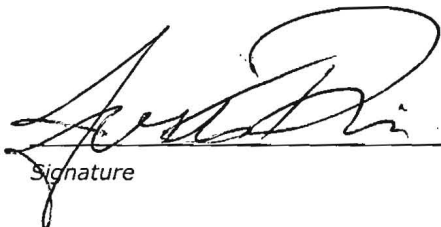
Please sign and return this original letter and keep a copy for your records. If you have any questions, please contact me at 304-940-3443 or by email at [kristin.mielcarek@canaanvi.org](mailto:kristin.mielcarek@canaanvi.org).

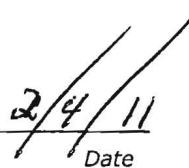
Sincerely,

Kristin Mielcarek, Watershed Circuit Rider

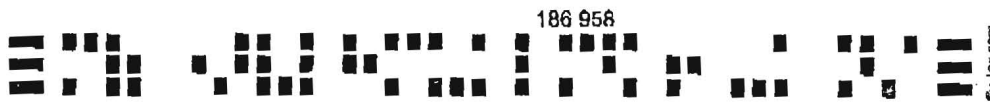
Accepted by: Justin Rix, Property Owner

I have read and agree to the conditions of this Agreement Letter.

  
Signature

  
Date

494 RiverStone Road | Davis, WV 26260  
Phone: (304) 259.4739 or (800) 922.3601 | Fax: (304) 259.4759  
[www.canaanvi.org](http://www.canaanvi.org)



# AdvanTex® Field Maintenance Report

## Start-Up Summary Report

Atlantic Solutions, MD  
(877) 814-8426

Property Owner/Trucking # Justin Rix		Operator <u>Owen Townley</u>		Installed Date 06/01/2011	
Site Address 944 Hoods Mill Rd, Cooksville MD 21723				Start-Up Date 06/01/2011	
Phone Number (410) 489-5473	Permit #	Mode Mode 3A	Bedrooms	Occupants	Occupancy Date
Designer/Engineer Atlantic Solutions		Phone (401) 293-0176	Authorized Installer <u>FARM + HOME EXCAVATING</u>		Phone
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 ( 1000 gal.) Recirc Volume ( 500 gal.)

Construction  Concrete  Fiberglass  Other

Manufacturer: MONARCH PRODUCTS

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: PF300S11

Floats set properly at 11 -in. 18 -in. 24 -in.

### Secondary Treatment

N/SV setting: 14 -in.

Residual head measurement:

Pod #1 4'0" -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 \_\_\_\_\_

### Control Panel

Panel ID (RTU or UI. #) RTU122846	"On" Timer Setting <u>0.3</u>	"Off" Timer Setting <u>19.7</u>
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### Filter Pods

Pod #1 Serial No. 412367	Pod #2 Serial No.	Pod #3 Serial No.
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### Other System Components

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

Dispersal system (type of):  
GRAVITY TO TRENCHES

### Declarations (Initial)

OT Oranco's Start-Up Procedure was followed.

OT All lids are secured.

OT Circuit breakers are on and control panel is latched.

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

OT Homeowner Package was reviewed with:

Builder on (date) 6-1-2011

Resident on (date) 6-1-2011

The system is ready for use  Yes  No (explain)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Signature Owen Townley

Date 6-8-2011