



## Septic Services, Inc.

On-Site Septic Inspections  
2754 N. Barley Sheaf Rd.  
Coatesville, PA 19320  
Phone: 610-383-7440  
Fax: 610-383-6221  
[www.septic-services.com](http://www.septic-services.com)

August 19, 2006

RE: On-site septic inspection  
Mike Fry  
1515 Fox Run Drive  
Coatesville, PA 19320

Septic Services, Inc. has completed an inspection of the on-site treatment system at the above referenced address. The following report is based on the field survey and general information gathered at the time of our inspection.

At the present time the home is occupied. The original sewage permit, perc test information and design criteria were not available for our review.

The septic system consists of one septic tank, a Zabel effluent filter, a Bull Run rotational valve (for switching to an alternate drain field) one 500 gallon dosing station and four sub-surface pressure dosed trenches. All system components are located in the rear of the property.

### Septic Tank

The septic tank is where primary treatment for all wastewater from the home occurs. The septic tank is a cylindrical concrete 1,000-gallon structure. All drain and waste lines exit the home from the main soil line and enter the tank at the inlet baffle. The tank is located at the rear of the home and is buried below grade. There is a 4" observation port over the inlet of the septic tank. This is used for marking the tanks location, inspecting the soil line from the home, and also as an additional access to the line if snaking the line should ever be necessary.

At the center of the septic tank is the central manhole. The manhole has been extended by a vertically installed 24" diameter pipe to within 18" of grade. The pipe extension is covered with a 29" diameter concrete septic tank lid. All septic tank inspections took place through the central manhole. The septic tank should always be cleaned through the

manhole whenever regular maintenance is performed. Inspection of the septic tank was done by using an articulated mirror. The top and sides of the septic tank were inspected from above the liquid level only. From our observations the top and sides of the septic tank appeared to be in satisfactory condition. The inlet and outlet baffles were observed to be intact. The purpose of baffles is two-fold. The inlet baffle is located at the inlet pipe and is used to divert liquid flow directly down without churning up settled or floating solids. The outlet baffle has the important function of preventing floating solids from exiting directly through the overflow or outlet pipe and entering the absorption area. Trapping all solids in the tank preserves the soil absorption area from the damaging effects of organic solids and also allows for the further treatment of the solids to take place. Regular maintenance pumping should be done every two to three years.

The Zabel effluent filter is housed in a separate 35 gallon crock and is extended to grade with a septic lid. The effluent filter is rated to extract particulate material up 1/32 of an inch. The filter should be cleaned as part of regular septic maintenance.

Between the filter and the septic tank is a Bull Run Valve. This is used to switch flow from the new system back to an existing original drain field. The original field was found to be dry and is capable of being used in a schedule of alternating use between both soil absorption areas.

#### Dosing Tank

The dosing station consists of a 500 gallon tank with a sewage ejection pump. The pump runs by means of a float switch. The float raises and lowers with the liquid level and, correspondingly, turns the sewage ejection pump on or off. There is another float switch located above the on/off float. The higher float is the high water alarm. If for any reason the liquid rises above the on/off switch, the alarm will go off and alert the homeowner of a problem. The alarm is a buzzer and it is located in the basement next to the electrical panel. The alarm and pump were observed to be on different circuits. They are designed to have separate circuits so that if the pump circuit breaker should fail an alarm will still be heard, notifying the homeowner of a problem.

#### Absorption Area

The soil absorption area consists of four pressure dosed trenches. The trenches were also located at the rear of the property. Each trench was measured to be approximately 5 feet wide by 45 feet long for a total of 675 square feet. The amount of crushed stone aggregate inside of the trenches was measured at 12". A 1" diameter hole was made through the soil cover and a 3/8" metal "T" bar probing rod was inserted through the crushed stone of each trench. There were no measurable amounts of standing liquid in the trenches, this is indicative of a satisfactory system.

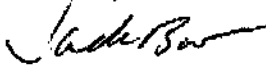
**Summary**

Based on our many years of experience in the septic industry, our continuing education in this field, and also all preliminary information provided to us, it is Septic Services, Inc. determination that the septic system at the above referenced address is currently in satisfactory condition.

**Disclaimer**

This is a report of the conditions of the septic system at the time of inspection, not a warranty. Septic Services, Inc. provides no warranty, expressed or implied, including any warranty of merchantability or fitness for purpose, or any other warranty whatsoever, that the system meets any code requirements or specifications, or will function properly for any period of time whatsoever, or otherwise will not malfunction or cause contamination of the ground waters of the Commonwealth of Pennsylvania.

Sincerely,



Jack Burt  
Septic Services, Inc.