

**SOIL ANALYSIS FAILS**

Use alternative methods of on-site wastewater treatment [69.6(2)b]

**UNSUITABLE FOR ABSORPTION FIELD [IAC 567, CH 69.6(2)b]**

In the event the percolation rate exceeds 60 minutes per inch of water absorption, the soil conditions are unsuitable for the use of a subsurface absorption system. Soils with a percolation rate below one minute per inch are also unsuitable. Plans for alternative method of wastewater treatment shall be submitted to the administrative authority for approval prior to construction.

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ ST: \_\_\_\_\_

All systems are followed by a septic tank with a discharge.

Septic Tank Size from Front Page = \_\_\_\_\_ gallon tank

(All sand filters require oversize SEPTIC TANK to the next class size.)

Septic Tank Size:[Increase one(1) class or 250 gallons] Total Septic Tank Size = \_\_\_\_\_ gal.

1. **MOUND SYSTEMS [IAC 567, CH 69.7(455B)]**  
From 60 to a maximum of 120 Minutes per Inch = \_\_\_\_\_ ft. x \_\_\_\_\_ ft.
2. **INTERMITTENT SAND FILTERS [IAC 567, CH 69.9(455B)]** Sampling of discharge from sand filters required once per year.
  - a. **SUBSURFACE SAND FILTERS [IAC 567, CH 69.9(3)]**  
**Single** - [IAC 567, CH 69.9(3)b(1)] (240 sq. ft. per bedroom or .6 gpd) = \_\_\_\_\_ ft. x \_\_\_\_\_ ft.  
**Double** - [IAC 567, CH 69.9(3)b(2)]  
 (160 sq. ft.-1<sup>st</sup> Filter per bedroom or 1.1 gpd/sqft.) 1<sup>st</sup> Filter = \_\_\_\_\_ ft. x \_\_\_\_\_ ft.  
 (80 sq. ft.-2<sup>nd</sup> Filter per bedroom or .5 gpd/sqft) 2<sup>nd</sup> Filter = \_\_\_\_\_ ft. x \_\_\_\_\_ ft.
  - b. **FREE ACCESS SAND FILTER [IAC 567, CH 69.9(4) (Moratorium on all Free Access Sand Filters effective February 2006.)**  
**Single Filters** - [IAC 567, CH 69.9(3)e] (2 to 5 gpd/sqft.) = \_\_\_\_\_ ft. x \_\_\_\_\_ ft.  
**Dual Filters** - [IAC 567, CH 69.9(3)e] (> 3.5 gpd/sqft) = \_\_\_\_\_ ft. x \_\_\_\_\_ ft.
3. **CONSTRUCTED WETLANDS [IAC 567, CH 69.11(455B)]**  
Exceed 120 Minutes per Inch percolation rate. Followed by a smaller sand filter.  
Sampling required twice a year. = \_\_\_\_\_ Sq. ft. (or) = \_\_\_\_\_ lineal ft.  
(300 sqft per Bedroom) (3 ft X 100 ft. per Bedroom)
4. **WASTE STABILIZATION PONDS [IAC 567, CH 69.12(455B)]**  
Sampling required twice a year. = A \_\_\_\_\_ ft. x B \_\_\_\_\_ ft. x C \_\_\_\_\_ ft. x D \_\_\_\_\_ ft.
5. **INDIVIDUAL MECHANICAL AEROBIC WASTEWATER TREATMENT SYSTEM [IAC 567, CH 69.10(455B)]**  
Additional treatment required through a half size sand filter or subsurface absorption systems. Maintenance contract required with certified technician and recorded with abstract title. Inspection required twice a year or every 6 months. Sampling required at each inspection for CBOD5, TSS, & coliform bacteria.  
**MUST HAVE A MAINTENANCE CONTRACT AND RECORDED AT THE COUNTY RECORDER'S OFFICE.**
6. **ALTERNATIVE OR INNOVATIVE ON-SITE WASTEWATER TREATMENT AND DISPOSAL SYSTEMS [IAC 567, CH 69.18(455B)]** **MUST HAVE A MAINTENANCE CONTRACT AND RECORDED AT THE COUNTY RECORDER'S OFFICE.**

**PRESSURE SYSTEM OPTION [IAC 567, CH 69.6(5)]**

Pressure system can be used if gravity to secondary treatment is not possible on any of the above systems.

Any combination of single oversized of multiple septic tanks and/or filter types and/or wetlands or waste stabilization ponds may be considered depending on location and condition of down stream use of stream or drain below discharge.

**OTHER OPTIONS**

**IMPERVIOUS VAULT TOILETS [IAC 567, CH 69.13(455B)]**

**PORTABLE TOILETS** [IAC 567, CH 69.14(455B)]  
**CHEMICAL TOILETS** [IAC 567, CH 69.15(455B)]