

Sample Monitoring Plan for a Sand Filter

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Permit # _____

System Owner: _____

Address: _____

Maintainer: _____

Brief System Description: Septic Tank with lift tank with sand filter with shallow trenches in loam

soil, sized at 1.67 with 1.5 feet of vertical separation distance.

Brief Operation Description: The wastewater flows from a two bedroom cabin with and an estimated flow rate of 300 gallons per day into a 1000 -gallon septic tank followed by a 1000 gallon lift station. It is then time dosed into an Orenco sand filter. From

there the sand filter effluent is pressure dosed into a shallow drainfield using a chamber technology for distribution.

List the components to be monitored below:

Component	Service Needed	Service Compliance Level	Monitoring and Frequency	Monitoring Compliance Level
Flow	none	none	Annually	Less than 300 gpd
Septic Tank	Pump when out of compliance	Complete Removal	Sludge Depth Scum Depth, Annually	< 12" from baffle, < 3" from baffle

Timers and pumps	Run pump drawn down test	Pump is operating at designed GPM	Annually	Timers set and within 10% of design GPM
Lift Tank	Pump when pumping septic tank	Complete Removal	Annually	none
Sand Filter Pressure Distribution	Flush lines when squirt heights vary	Squirt height changes by .5 feet or more	Annually	Change in squirt height does not change more than .5 feet
Sand Filter	Determine what is causing ponding	Eliminate Ponding	Annually	No ponding in filter
Sand Filter	Determine what is causing poor performance	Reduce BOD/TSS /FECAL	Annually	BOD < 20 mg/, TSS < 20 mg/L Fecal Coliform < 10,000 colonies per 100 ml
Pressure Distribution System in Trenches	Flush lines	Squirt height changes by .5 feet or more	Annually	Squirt height changes by .5 feet or more

Sample Mitigation Plan for Sand Filter

Permit # _____

Please list each component, possible failures, and responses:

Component	Possible Failure	Response
Flow	Too much flow	Look for leaky fixtures and leaky tanks, repair

