



Vessel Wash Wastewater Treatment System Profile

Facility Information

Roseman's Boat Yard

5 Roseman's Lane

Cape May, NJ 08204

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Roseman's Boat Yard is a small, full-service marina that services approximately 40-plus boats annually for winter storage. Boats serviced range from 35' - 60' in length with an average length of 45'. The vessel wash wastewater treatment system is used throughout the year. Approximately 100% of the hulls washed are painted with a soft ablative paint.

Treatment System Information

Roseman's Boat Yard uses a homemade vessel wash wastewater system. A railway is used to haul and launch boats. A heavy duty poly tarp is placed under the vessel once it is hauled out of the water and on the railway. Pressure wash wastewater is pumped into a series of 55-gallon plastic barrels. Paint chips and organic matter remaining on the tarp are collected and disposed of in the garbage.



Roseman's two-barrel system facilitates the process of settling solids in wash waste water.

The water passes over a piece of filter fabric, which helps remove any large solids that may have been pumped off of the tarp. Organic matter and paint chips are allowed to settle in the first barrel. When the first barrel is full, water, via a connecting hose, begins to transfer to the second barrel.

An automatic sump pump located in the second barrel is activated when it is approximately three-quarters full. The water is then pumped into the sanitary sewer line. Barrel number one is allowed to settle for

Continued on reverse



After approximately two weeks, the water evaporates completely and any undissolved solids (paint chips and other organic matter) are left behind.

approximately 24 hours and is then pumped down until approximately five gallons remain. The remaining wastewater is poured into a five-gallon bucket and set aside to evaporate. It takes approximately two weeks for the water to evaporate, and a cake consisting of paint chips and organic matter remains in the bucket after evaporation. This cake is then bagged and placed in the garbage.

Pros and Cons of System

Low cost for installation and materials. Owner used existing plastic drums and poly tarps. The simple design eliminated the need to deal with freezing.

Estimated Cost

Pre-treatment (Pads, filters, screens, tanks, etc.): N/A

Treatment system: Approximately \$500 for poly tarp, sump pump and hoses if the materials were not already on hand.

Maintenance (Labor, filters, etc.)

N/A

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