



# Vessel Wash Wastewater Treatment System Profile

## Facility Information

All Seasons Marina

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All Seasons Marina is a large, full-service marina that prepares approximately 325 boats annually for winter storage. Boats stored for the winter range from 18' - 50' in length with an average length of 27 feet. The vessel wash wastewater system at the marina is in the development stage, and is used predominantly during September through December. Approximately half of the boats washed at the marina are painted. Of those that are painted, approximately half of the hulls are painted with a hard paint and the remaining are typically painted with a soft ablative paint.



The complete wash wastewater treatment system

## Treatment System Information

All Seasons Marina uses a closed-loop vessel wash wastewater system designed by Ocean and Coastal Consultants. A 19' x 45' vinyl wash pad is used to capture the wash wastewater. The wastewater is then pumped off

*Continued on reverse*

the pad using a bilge pump. A polymer is injected into to the wastewater flow, causing the solid metals and organics to flocculate.

The waste stream then passes through a bag filter, and the solid metals and organics are removed. The wastewater then passes through a sand filter, similar to a pool filter, to remove dissolved metals. The sand filter is still under development and modifications are being made to increase the amount of dissolved metals removed. The wastewater is then stored in a tank and can be recycled.



**Captured wash wastewater**



**Retained sludge**

The treatment system is currently in the development process and additional testing is planned for the fall 2008. Updates will be provided as they become available.

### **Pros and Cons of System**

Since the system is designed to be mobile, upfront capital costs are low. Additionally, during the winter, spring and summer, the system can be disassembled and removed.

### **Estimated Cost**

The system is currently still in the development stage.

### **Maintenance (Labor, filters, etc.)**

The system is designed to be operated after each boat wash operation. Replaceable components include the geotextile bag, pH adjustment, treated sand and flocculent.

Estimated costs for the treatment system will be provided when development is completed.

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