



Vessel Wash Wastewater Treatment System Facility Information

- **Full service marina**
- **Wash approximately 100 boats per season**
- **Range from 17-34', average of 24'**
- **50% soft paints, 50% hard paints**
- **System is used from March - December**



Treatment System Information

- Closed loop system that can recycle wastewater and/or evaporate as necessary
- A heavy duty poly tarp is used to cover a 12'x30' area to capture the wash wastewater
- Gravel is sloped to direct water into a corner of the tarp





Treatment System Information (cont'd.)

- Wash wastewater is pumped from the pad
- A screen prevents large solids from being pumped
- Water is pumped into a series of 55 gallon barrels





Treatment System Information (cont'd.)

- Wastewater is allowed to flow through the four tanks allowing solids to settle
- Wastewater then passes through a bag filter and is stored in 250 gallon floating dock container





Treatment System Information (cont'd.)

- Wastewater in the storage tank can be diverted to the pressure washer or the evaporator
- The water passes through a 25 micron filter prior to be used in the pressure washer
- Rain water can be pumped off tarp when the system needs water





Wash Wastewater Disposal

- An evaporator is used to dispose of wash wastewater
- Evaporator is made from sliding glass doors, shingles, water pump and other materials
- Commercial evaporators are available for purchase





Estimated Cost

- **Treatment System – Approximately \$1,200 to cover the costs of items not on hand**
 - Floating dock container, poly tarp, shingles, pumps, sliding glass doors, filters and miscellaneous materials
- **Maintenance – Approximately \$1,000 per year**
 - Covers cost to commission and decommission system, and bag and cartridge filters



Pros and Cons

- **Low cost of installation and materials**
- **No permits needed**
- **Freezing temperatures have not presented a problem**
- **Solid matter is removed and wastewater can be recycled**
- **May not meet requirements for discharging wastewater to a sanitary sewer line**