



## **BMP A03: Marine Activities**



### **Targeted Pollutants:**

- Bacteria
- Metals
- Oil & Grease
- Organics
- Sediment
- Total Residual Chlorine

**Purpose:** To prevent or reduce the discharge of pollutants from over-the-water activities from going into the ocean.

**Application:** Marine activities conducted over the water.

- Practices:** **Vessel Maintenance and Storage**
1. Perform maintenance and repair activities in a designated area on-shore when possible to reduce the potential for direct pollution to water bodies. Use non-toxic materials/chemicals for maintenance when possible.
  2. Provide tarps or solid covers for work areas and shroud any sandblasting and spray painting activities to prevent dust and overspray from escaping. This may include a plywood barrier along the outside edge of the deck railings and/or tarps, shrink-wrap, or plastic sheeting to help prevent fugitive material from entering surface waters.
  3. Use secondary containment on paint cans, do not mix paint over the water, and perform painting activities in a manner consistent with BMP D05: Outdoor Painting and Sandblasting.
  4. Limit over-water hull surface maintenance to minor sanding and minor painting. Major hull resurfacing must be performed at dry dock (on land).
  5. Vacuum or sweep up loose paint chips, paint dust, abrasive blast material, and metal shavings, etc., from outdoor work areas and properly dispose of it.
  6. All vessel washing and cleaning activities are to be performed in designated areas such as a wash rack. Use phosphate-free and biodegradable detergents.
  7. Collect and properly dispose of discharge water from washing activities in accordance with BMP B01: Equipment, Vehicle, and Boat Washing/Cleaning.
  8. Store small boats with exposed oily components or other potential pollutant sources off of the ground (e.g. on trailer) and under cover to prevent contact with storm water. (use drip pans under leaking equipment).
  9. Notify EH&S immediately at **(858) 534-3660** if there is a spill/release into the ocean.
  10. Provide regular training to employees and/or contractors regarding storm water pollution prevention for over water activities.

Practices (continued)	<p><b><u>Sewage and Bilge Water</u></b></p> <ol style="list-style-type: none"> <li>1. DO NOT discharge oily bilge water or wastewater containing hydrocarbons into the ocean or on land.</li> <li>2. Fecal matter and other solid waste are to be contained using a U.S. Coast Guard-approved marine sanitation devices (MSD) and discharged per U.S. Coast Guard-approved methods.</li> <li>3. Pump-out stations are to be maintained in good condition and without leaks.</li> <li>4. Pump bilge water into storage tanks on shore for proper disposal.</li> <li>5. Promote the use of oil-absorbing materials in the bilge areas of all boats with inboard engines. Inspect, maintain, recycle, and/or properly dispose of these materials. Dispose of oil saturated materials as hazardous waste in a manner consistent with BMP C03: Hazardous Waste Management.</li> </ol> <p><b><u>Fueling Operations</u></b></p> <ol style="list-style-type: none"> <li>1. Fueling of equipment and vessels is to be conducted in a manner consistent with BMP B02: Fueling Operations.</li> <li>2. Use automatic shut-off nozzles and promote the use of “whistles” and fuel/air separators on air vents or tank stems on inboard fuel tanks to reduce the amount of fuel spilled into surface waters during fueling.</li> </ol> <p><b><u>Pier, Deck, Seawall, and Floor Cleaning</u></b></p> <ol style="list-style-type: none"> <li>1. DO NOT dump or sweep debris and wastes into the storm water conveyance system.</li> <li>2. Repair or replace leaking connections, valves, pipes, hoses, and equipment that come into contact with storm water.</li> </ol> <p><b><u>Marine Life Handling</u></b></p> <ol style="list-style-type: none"> <li>1. DO NOT dump or sweep fish waste into the storm water conveyance system.</li> <li>2. Dispose of fish waste or unwanted bait properly or freeze and use on the next trip.</li> </ol>
Frequency & Maintenance:	<ol style="list-style-type: none"> <li>1. Monitor over water activities to ensure pollutants are not being discharged into the water.</li> <li>2. Keep outdoor work areas clean. Use dry cleaning methods (e.g., sweeping, vacuuming) to collect loose materials. DO NOT hose down the area to the receiving water or to a storm drain inlet. Review procedures in BMP A01: Housekeeping.</li> <li>3. Maintain spill response material (e.g., spill kit) in a location that is easy to access and is known to personnel. Inspect spill kit provisions on a regular basis and replace as needed.</li> </ol>
Additional Information:	<ul style="list-style-type: none"> <li>• EH&amp;S web pages on Blink: <a href="http://blink.ucsd.edu/ehs">http://blink.ucsd.edu/ehs</a></li> <li>• EH&amp;S provides storm water pollution prevention training: (858) 534-3660</li> </ul>