



THE CHANGING TIDE

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RECYCLING REVIEW

Needed: Oil Collection, Spill Prevention and Hazardous Waste Disposal Services

In January 2000, the Santa Monica Bay Restoration Project concluded a survey to determine the availability of and need for hazardous waste recycling and disposal facilities for recreational boaters in Los Angeles, Orange and San Diego Counties. This effort, part of the California Coastal Commission's statewide *Boating Clean and Green Campaign*, included conducting extensive phone interviews with marina and fuel dock personnel. The purpose of the survey was to 1) determine the types of services currently available to boaters in local harbors and marinas, and 2) identify where boating-related recycling and waste disposal services are still needed.

Of the 90 marina managers, dockmasters and harbormasters contacted, 69 agreed to participate in the survey. They were asked whether absorbent pads, used oil collection/recycling services, hazardous waste disposal, bilge pumpout facilities and fueling services were available on-site to boaters and boat tenants.

Results of the Survey

Overall, the results show that only 45% of Southern California's marinas/fuel

docks offer facilities for disposing of used oil, and even less (14%) offer disposal facilities for paints, solvents, and other hazardous wastes. However, 52% of these marinas/fuel docks do provide bilge pads, either free or for a fee. Many of the bilge pads provided by marinas are being recycled at the same location where they were distributed, closing the recycling loop and providing boaters with a single pick up and drop off location. (Bilge pad distribution and collection volumes at fuel docks were not determined.)

One of the more surprising results of the survey is that there is only one oily bilge water pumpout station in each of Los Angeles and Orange Counties, and none in San Diego County.

Given the large number of boaters in Southern California, many more of these facilities are needed to help prevent oily bilge water discharges.

In future studies, it would be worth noting whether marina personnel know of other, nearby recycling and disposal facilities if the marina itself does not provide such facilities. Such information

would help in determining whether boaters are informed of alternative location disposal opportunities.

Recommendations

Several actions can be taken to improve boater awareness of both the need for and locations of recycling facilities. For example, a comprehensive educational campaign should include posting signs at launch ramps and fuel docks regarding fuel and oil spills. The audience is captive, in a sense, and may take the time to read signs while waiting to launch or refuel their boats. Also, a greater number of marinas and fuel docks should be encouraged to provide recycling/disposal opportunities and boaters should be motivated to use them.

Block Grant funds, based on the \$0.16 tax placed on each gallon of oil, are available to cities and counties statewide. These funds can be used to develop or enhance used oil and bilge pad collection services, and even to provide free bilge pads to boaters. Marinas interested in developing such a collection program are urged to work with their city or county to explore this opportunity.

For more information, or a complete Facility Survey Report, call Stefanie Hada at (213) 576-5781.



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The SMBRF, CIWMB and CDBW are working together to implement an educational program that promotes the recycling of boat-generated used motor oil.

GETTING CLEAN WITHOUT USING SOAP

California is home to more than 900,000 registered boats. Collectively, they add up to a whole lot of boat cleaning hours, detergents and water usage, resulting in thousands of gallons of soapy water discharged directly into marina/harbor waters and inland area storm drains. Because soapy water contains detergents and phosphates, it is harmful to marine organisms and can result in excessive algae growth under certain conditions. However, there is a new "tool" on the market that boat owners can use to clean their boats (and cars) without using soap.

The IONMAN Wash System: What It Is and How It Works

The IONMAN Wash System provides an alternative to the excessive water, soap, and detergents used to wash cars, boats and aircraft. This soap-less system is a smart approach to conserving water and preventing urban storm water pollution, and even utilizes time and money saving technologies (which are positive incentives to the public).

The IONMAN Wash System utilizes low flow (2.1 gallons per minute) and high pressure (1200 PSI) de-ionized water to accomplish all cleaning operations. The use of more aggressive de-ionized water helps eliminate the need for soap and



allows for spot-free air drying. For the "caked-on" dust or dirt on your boat or car, a little elbow grease (i.e., rubbing or wiping) is all that's required to lift the dirt off of the surface. There is no need for soap to get the job done. The company owner, who uses the system on his personal boat, says that it even cleans the teak as well as the hull.

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Others May Fret, But Southern California Boaters Have Naut-A-Care in the World!

Introducing a unique, hassle-free way to change your oil, clean your boat's engine and dispose of oily bilge water without having to pull your boat from the water or search for a bilge pumpout facility (there are only two in Southern California). It's called *Naut-A-Care*, a company which has been helping Southern California boaters "boat cleaner" since 1992.

Although headquartered in Newport Beach, Naut-A-Care provides several environmentally-friendly boat-to-boat maintenance services to Southern California boaters from Marina del Rey to San Diego. When duty calls, Naut-A-Care's HAZMAT trained employees are dispatched aboard one of four specially equipped Naut-A-Care service vessels to provide slip-side oil changes, bilge pumpouts and engine steam cleaning services. In addition, their staff can be called upon to clean up accidental spills of hazardous waste.

Oil Changes

Naut-A-Care vessels are equipped with a specially designed oil evacuation and delivery system to perform oil changes on vessels of all sizes. This system reduces the chance of accidental oil spills and eliminates the potential for illegally disposing of used oil and filters because all of the oil collected by Naut-A-Care's vessels is taken to a recycling center.

The Bilge

The marine bilge system on board Naut-A-Care vessels has been specifically designed to remove oily wastewater from the bilge area. This system not only removes the free-floating liquid bilge waste, it also steam cleans the interior surface of the bilge, removing all traces of hazardous waste. The oily bilge water collected is processed through a high tech oil/water separator which reduces the hydrocarbons to less than 15 parts per million. And, although the resulting wastewater is Coast Guard certified as safe for discharge into harbors, Naut-A-Care maintains a strict no-discharge policy.

Instead of dumping the processed water overboard, the company employs a "closed-loop" system in which all waste removed is stored and taken to its land-based facility. There, it is manifested and turned over to a licensed industrial waste service for recycling and disposal.

Naut-A-Care's mobile system and services reduce the need for detergents and overboard bilge water discharges, both of which can harm the marine environment and pose a threat to human health.

The company also services boats in Miami and has plans to establish a franchise in Fort Myers, Florida. For information on Naut-A-Care's services and products, including bilge filtration systems, contact them toll free at (877) 582-5823, or visit their website: www.naut-a-care.com.



DESTINATION SERIES

Have Boat, Will Cruise.

Long Beach Harbor

If you've got a boat, why not make Long Beach Harbor's *Downtown Marina* your next destination? It is one of two separate marinas owned and operated by the City of Long Beach (the other being Alamitos Bay Marina). Built



in the early 80s, Downtown Marina is located in the heart of Long Beach's redevelopment and has become a premier destination due to its many shops, restaurants and attractions. Within easy walking, shuttle and water taxi distance, boaters can visit the Long Beach Aquarium of the Pacific, Queen Mary, Shoreline Village, Pine Avenue, and the new exciting Russian submarine, Scorpion.

Aquarium of the Pacific

The Long Beach Aquarium of the Pacific is located on the north side of Rainbow Harbor. The aquarium, one of the largest in the United States, showcases three diverse habitats from the Pacific Ocean's three regions — Southern California/Baja, the Tropical Pacific, and the Northern Pacific. The Aquarium boasts more than 12,000 marine animals, representing over 550 species in 17 major habitats. There are also 30 smaller exhibits of interest to visitors. The Long Beach Aquarium of the Pacific is open daily from 9 a.m. to 6 p.m. General admission is \$14.95 for adults, \$11.95 for seniors (60 years and older), and \$7.95 for children (3-11 years).

Queen Mary

The Queen Mary, "a floating city of elegance" is listed on the National Register of Historic Places and remains one of the most famous ships in history. Between 1936-1967, the ship made 1001 Atlantic crossings and carried as many as 3,131 people on each voyage. The Queen

Mary was even used for military purposes during World War II. The ship arrived at its final port of call in Long Beach's Queensway Bay on Saturday, December 9, 1967. Today, the Queen Mary features an on-board hotel with 365 rooms, Champagne Brunch, several restaurants, a wedding chapel, and 16 Art Deco reception salons. A variety of tours are available, including the new

"Ghosts and Legends of the Queen Mary." The Queen Mary also hosts an impressive summer fireworks show every Saturday night through Labor Day weekend.

Shoreline Village

Located directly between Downtown Marina's visitor slips and the Aquarium is Shoreline Village. Here, boaters can take advantage of the many conveniently located shops and restaurants. For example, the Yardhouse features the world's largest selection of draft beer, with 250 beers on tap. Other waterfront restaurants, such as Parker's Lighthouse and Tequila Jack's, offer a festive atmosphere for dining and socializing. There are even some unique gift shops such as the Village Hat Shop and Flag World.

Pine Avenue

Pine Avenue starts at Rainbow Pier and leads directly inland. About four blocks away, just on the other side of the Convention Center, is the beginning of the trendy section of this street where there are more shops and boutiques, restaurants, bars and a multi-plex movie theater. Following an extensive 20-year redevelopment effort, the revitalized area

has resumed its role as the focal point of downtown Long Beach. Boaters choosing to visit this area can either walk up Pine Avenue, or take the frequent-running Long Beach Passport Shuttle directly from Rainbow Harbor.

Scorpion Submarine

Scorpion, a Foxtrot-class submarine, was built in 1972 and retired from the Russian navy in 1994. It opened to the public on July 14, 2000 in Queensway Bay alongside the Queen Mary.

Only 24 feet wide, the Scorpion is stuffed with gauges, engines, pistons, pumps, beds and a tiny kitchen. The Scorpion submarine tour includes the torpedo room, crew's quarters, galley, formerly "top secret" communications center and a gift shop. There is also a 75-seat theater where guests can watch a video detailing submarine history. Low heeled shoes are recommended (boat shoes would be perfect). The submarine is open daily from 9 a.m. to 9 p.m. General admission is \$9.00 (military and youth discounts available with I.D.).

In addition to plenty of visitor berths and the recreational opportunities highlighted above, Long Beach provides boaters with 15 conveniently located drop-off locations for used oil. **That's more than any other marina in southern California!** All it takes is a simple phone call to the marina office for exact locations and hours of access (562/436-0888). If needed, boaters can even call for mobile oily bilge-water pumpout or used oil collection services (Marina Propulsion Services, 562/795-5641).

Websites with more information include:

www.aquariumofpacific.org

www.queenmary.com

www.shorelinevillage.com

www.golongbeach.org

www.ci.long-beach.ca.us/tourism/

For guest slip information, visit:

www.smbay.org/GUIDE/672.htm

SANTA BARBARA, VENTURA, LOS ANGELES, ORANGE,
San bernardino & riverside COUNTIES

tidebits

did you know ..

- Of the 69 marinas participating in SMBRF's Facility Survey, 31 (45%) provide used oil disposal facilities for boaters.
- Combined, these 31 marinas collect approximately 9,307 gallons of oil in a month.
- 38 of the marinas surveyed (55%) provide absorbent pads for tenants to use in their bilge or for spills.
- Some marinas collect up to 500 used pads each month from boaters for recycling.

(IONMAN...continued from page 2)

According to a 1997 publication from the Metropolitan Water District, people use an average of 150 gallons of water for each hand car wash. IONMAN monitored its customer usage and has calculated the following:

- Average water use is 3.3 to 6.15 gallons
- Average wash time took 2 to 4.25 min.
- Average charge was \$1.57 to \$2.90

Observation of repeat users suggests that it takes 3 gallons to wash a compact car/small pick-up truck, 4.5 gallons for a standard sedan, and 6 gallons for an SUV. The cost to use the unit is \$.99/min, and users are charged only for the time they are actually spraying. To date, eight IONMAN Wash Systems have been installed in Southern California in the following locations:

Fullerton Airport
Somerset Park Apartments (Placentia)
Long Beach Marina, Davie's Launch Ramp
Newport Dunes Waterfront Resort
Duffy Electric Boats (Newport Beach and Sunset Beach)
Balboa Yacht Basin
Two Harbors (Catalina Island)

In addition, the company has proposed installing its first public access unit in the City of Avalon on Catalina Island.

The negative environmental effects of vehicle washing is an everyday problem -- one on which individuals can make a significant impact. For more information on IONMAN Wash Systems, please call (714) 993-9394 or check www.ionman.com.



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