

COASTAL MARINAS WITH PUMP-OUT STATIONS

ARANSAS BAY Aransas County Nav. Dist. Marina Cove Harbor Marina Key Allegro Marina, Inc.	(361) 729-6661 (361)790-5438 (361)729-8264
CLEAR LAKE Endeavor Marina Lakewood Yacht Club Legend Point Marina Del Sol Maritime Sanitation Portofino Harbor Seabrook Marina Inc. South Shore Harbour Waterford Harbor Marina Wharf at Clear Lake*	(832)864-4000 (281)474-2511 (281)334-3811 (281)334-3909 (281)334-5978 (281)334-6007 (281)474-2586 (281)334-0515 (281)334-4400 (281)334-5976
CORPUS CHRISTI BAY Bahia Marina Corpus Christi Municipal Marina	(361)776-7295 (361)882-7333
CORPUS CHRISTI CHANNEL Island Moorings Marina	(361)749-4100
GALVESTON BAY Galveston Yacht Club, Inc. Harborwalk Marina Houston Yacht Club	(409)762-9689 (409)935-3737 (281)471-1255
GULF INTRACOASTAL WATERWAY Bridge Harbor Yacht Club Matagorda Harbor	(979)233-2101 (979)863-2103
LAGUNA MADRE Willacy Cnty Nav. Dist/Port Mansfield	(956)689-3332
LAVACA BAY Nautical Landing Marina	(361)552-2615
NECHES RIVER Beaumont Yacht Club	(409)832-145
OYSTER CREEK Kirby Marina, Inc.	(979)239-1081
PORT ARANSAS HARBOR Port Aransas City Marina	(361)749-5429
REDFISH BAY San Patricio Cnty Nav Distr. #1	(361)758-1890
SABINE Pleasure Island Commission Sabine Pass Port Authority	(409)982-4675 (409)971-2411
TRES PALACIOS BAY Serendipity Resorts & Marina	(361)972-5454

*private

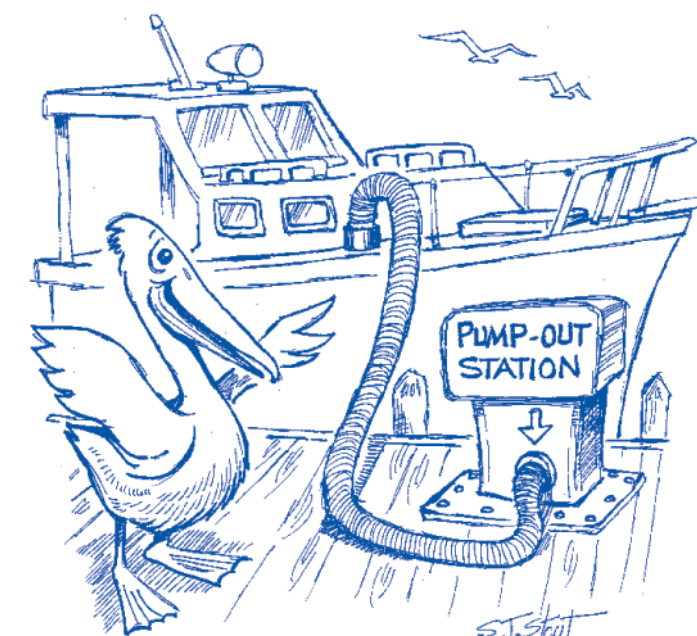
INLAND LAKE MARINAS WITH PUMP-OUT STATIONS

AMISTAD Amistad Marina	(830)774-4157
BELTON Frank's Lakeview Marina Pier 36 Marina	(254)939-7443 (254)986-2466
CANYON Canyon Lake Marina Cranes Mill Marina	(830)935-4333 (830)899-7718
CEDAR CREEK Don's Port Marina, Inc. Star Harbor Marina	(903)432-2268 (903)489-1483
CONROE April Plaza Marina Bentwater Yacht Club, Inc. Del-Lago Marina Inland Discount Marina The Palms Marina Walden Marina	936)588-1144 (936)597-6153 (936)582-7570 (936)588-1126 (936)856-6423 (936)582-1060
EAGLE MOUNTAIN Fort Worth Boat Club* Harbor One Marina Lake Country Marina Lakeview Marina West Bay Marina & Resort	(817)236-8393 (817)236-8150 (817)236-8362 (817)236-1331 (817)444-1622
FORK RESEVOIR Lake Fork Marina	(903)765-2764
GRANBURY Groggy Dawg Marina Lake Granbury Marina	(817)573-9100 (915)727-0993
GRAPEVINE Scott's Landing Marina Silver Lake Marina Twin Coves Marina	(817)481-4549 (817)481-1918 (972)724-1804
JOE POOL Joe Pool Marina Lynn Creek Marina	(972)299-9010 (817)640-4200
LAKE O'PINES Big Cypress Marina	(903)665-8582
LAVON Collin Park Marina, Inc.	(972)442-3567
LBJ LBJ Yacht Club & Marina	(830)693-9172
LEWISVILLE Cottonwood Creek Marina Eagle Point Marina Hidden Cove/Marine Quest Lakeview Marina/Lake Dallas Boat Pier 121 Marina	(972)292-1100 (972)436-6561 (972)294-1443 (940)321-2675 (972)625-2233
MEREDITH Marina at Lake Meredith	(806)865-3391
PALESTINE Emerald Bay Marina	(903)825-3464
POSSUM KINGDOM Bluff Creek Marina The Breakers The Cliffs The Harbor Marina Scenic Point Northview Villa Marina Inc. Willow Beach Marina	(940)779-3911 (940)549-6470 (940)779-4555 (940)779-7628 (940)779-3266 (940)779-2331 (940)779-3004
RAY HUBBARD Bayview Marina Captain's Cove Marina Chandler's Landing Marina	(972)412-1978 (972)226-7100 (971)771-8865
RAY ROBERTS Lake Ray Roberts Marina	(940)458-7343
RICHLAND-CHAMBERS Northshore Marina	(903)296-5253
TAWAKONI Lake Tawakoni Marina	(903)447-2255
TEXOMA Big Mineral Camp Cedar Bayou Marina Cedar Mills Marina Eisenhower Yacht Club Flowing Wells Resort Grandpappy Point Marina Highport Marina Mill Creek Marina Texoma Marina and Resort Walnut Creek Resort	(903)523-4287 (903)523-4248 (903)523-4222 (903)463-3999 (903)786-2930 (903)465-6330 (903)786-7000 (903)786-2227 (903)523-4308 (903)523-4211
TRAVIS Austin Yacht Club Briarcliff Marina Commander's Point Yacht Basin Easy Street Marina Emerald Point Marina Hurst Harbor Lake Travis Marina Lakeway Marina Marshall Ford Marina Northshore Marina Paradise Cove Marina The Reserve at Lake Travis Resort Ranch Marina Rough Hollow Yacht Club Sail and Ski Yacht Club Sandy Creek Yacht Club South Shore Marina VIP Marina	(512)266-1336 (830)264-2666 (512)266-2333 (512)267-4289 (512)266-1535 (512)266-1800 (512)266-3290 (512)261-7511 (512)266-1559 (512)267-6222 (512)266-8006 (512)745-3954 (512)264-2533 (512)261-2288 (512)266-2507 (512)219-8535 (512)637-3150 (512)331-5375
TYLER Lake Tyler Marina & RV #1	(972)839-4800
WACO Lake Waco Marina Ridgewood Marina Ron's Marina One, LTD	(254)848-4471 (254)772-0160 (254)754-1642
WHITNEY Lake Whitney Marina Uncle Gus' Marina	(254)694-3129 (254)622-3333

*private

Here's the Scoop on Poop.....

DON'T POLLUTE!



A Pump-Out Guide for Boats

TIPS ON CLEAN BOATING ON TEXAS WATERWAYS

1 CLEAN WATER & BOAT SEWAGE:

Are we boating in a toilet?

Sewage waste discharged from boats may degrade water quality by introducing disease-causing microorganisms into the marine environment and depressing oxygen levels as the sewage decays. Low dissolved oxygen levels can result in fish kills. Shellfish beds with a fecal coliform bacteria count of 14 per 100 milliliters of water must be closed. Waters with a count of 200 fecal coliform bacteria per 100 milliliters are closed to swimming and other primary contact recreation activities, which hurts tourism and deteriorates the quality of life for all of us.

2 NO-DISCHARGE AREAS:

Dilution is not the solution.

Under the Clean Water Act, states may petition the EPA to designate no-discharge areas where discharge of all sewage, treated or not, is prohibited.

The EPA will usually not approve a no-discharge area unless there are adequate pumpout facilities available to mariners. Type III MSDs are the only type that can be used legally in a no-discharge area, and must be emptied at a pumpout station. Clear Lake is currently the only no-discharge area on the Texas coast. All inland freshwater lakes in Texas are no-discharge areas.

3 WHAT DO THE LAWS SAY?

What's the Poop?

State and Federal laws prohibit the discharge of untreated sewage from boats on all Texas waterways, including the coastal areas within three miles of the shore. Boats with Type I and II marine sanitation

devices (MSDs) may discharge treated effluent in coastal waters unless they are in a no-discharge area.

4 HOW DOES THIS AFFECT ME?

Complying with vessel sewage discharge laws and regulations, and using pumpout facilities are necessary to protect water quality, public health and the marine environment. Mariners are encouraged to get ready for no-discharge areas all along the Texas Gulf Coast by retrofitting their boats with holding tanks. This may not seem fair to those who have done the "right thing" earlier by installing a Type I or II MSD, but the national movement toward designation of no-discharge areas is changing the rules. If you have a Type I or II MSD, don't discharge it while in confined shallow waters, marinas, shellfish beds or contact recreation areas. Use shoreside restrooms before going out to sea and when docked or moored in the harbor, and dispose of port-a-potty waste properly on shore. Flip over this brochure for a list of Texas pump out facilities.

5 MARINE SANITATION DEVICES

The Federal Clean Water Act requires that all boats with an installed head have one of three types of Coast Guard-approved marine sanitation devices (MSDs) attached to the toilet.

Failure to comply can result in a \$2,000 fine. Type I and II MSDs are flow-through systems that treat the sewage using chemical, electrical and/or incineration methods before discharging the waste overboard; i.e., Lectra-San or Mircophor. A macerator pump is not an MSD. Type III MSDs are holding tanks that store sewage on the boat. The waste is not treated in

a Type III device, even if odor-reducing chemicals are added. It is illegal to discharge or empty the contents of your boat's holding tank in U.S. territorial water (within the 3-mile limit). Some boats are equipped with a "Y"-valve that allows for the direct discharge of raw sewage. This valve can only be used outside the 3-mile limit. Coast Guard regulations require that the "Y"-valve must be secured in the closed position (by a padlock, non-releasable tie, removal of the handle or other physical barrier) when the boat is within three miles of shore. Boaters can be fined for noncompliance. If you use a portable toilet, remember it is illegal to dump it overboard. Use shoreside facilities to empty it.

Vessels 65 feet and under may have any of the three types of MSDs. Vessels over 65 feet must have a Type II or III system. Type I and II MSDs must bear a U.S. Coast Guard certification label. Type III systems do not require a Coast Guard label.

SPECIAL NOTE: Waste treated by Type I and II MSDs is unhealthy for marine waters because (1) chemical treatment often sanitizes only the outer surfaces of waste clumps, (2) chemicals routinely used in MSDs are harmful to sea life and water quality (chlorine, formaldehyde, formaline, phenol derivatives, ammonia compounds), (3) poorly maintained MSDs may not treat effluent to the prescribed standards, and (4) even treated sewage contributes nutrients and lowers dissolved oxygen levels in water, lowering water quality for marine life.

6 DID YOU KNOW?

A new law was passed in November 2010 that requires owners of recreational boats to obtain a decal from the Texas Commission on Environmental Quality (TCEQ) under the Clean Water Certification Program. The program is intended to protect and improve the quality of water in Texas by requiring boats located on any Texas waterway (including

coastal waters) to self-certify that their MSD has been installed properly and will be operated to prevent the discharge of sewage into Texas waters. The Clean Water decal costs \$15 and expires December 31 on every odd calendar year. For more information about the Clean Water Certification Program, please visit TCEQ's website at www.tceq.texas.gov/goto/cleanwatercert.

7 HEAD MAINTENANCE

Every two months, add one quart of household white vinegar to the head bowl and flush (dry cycle) until vinegar disappears from the bowl. Let the vinegar stand in the plumbing lines for 12 to 24 hours, then use the head as normal. Vinegar clears the lines of salt and calcium which creates blockage.

Add half a cup of vegetable oil and flush until the oil disappears from the bowl - allow to sit over night. The oil helps lubricate the moving parts of your head.

When cleaning the head, never use chlorine bleach, ammonia, pine oil products, formaldehyde, phenol derivatives, paint or lacquer thinners or solvents. These products are extremely damaging to the lining of the sanitation hoses. Once these hoses are damaged, odors can become a problem. Clean the head with a mild household cleaning product. Also, it is not necessary to use a special, expensive marine toilet paper. An inexpensive single or dual ply from a grocery store will work just fine. However, be sure to use a minimal amount (three or four squares). Do not dispose cigarette butts or feminine or safe sex products in the head.

Never use a plunger to "unclog" your toilet! Marine heads are equipped with special flapper and duck bill valves to assist in pumping and evacuating effluent. Plungers can damage these valves and make your head inoperable.

**FOLLOW THESE TIPS,
USE PUMP OUT
STATIONS AND HAVE
A GREAT TIME
BOATING ON TEXAS
WATERWAYS!**

**Sea Grant**
Texas

Coastal Science Serving Texans

<http://texas-sea-grant.tamu.edu>

Clean Texas Marina Program

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