

SACRAMENTO - SAN JOAQUIN RIVER

DELTA

PUMPOUT GUIDE & MAP FOR BOATERS

DOWNLOAD PUMPOUT NAV from your Android or Apple device for FREE



Updated in 2018



Funded by the California State Parks Division of Boating and Waterways and published in cooperation with the San Francisco Estuary Partnership. Funding is provided to Cal Parks by the U.S. Fish and Wildlife Service Sport Fish Restoration and Boating Trust Fund.

CAPTAIN YOUR BOAT THE CLEAN WAY

Follow the tips in this guide for running a tight ship, and you can avoid such delicacies as flushing your head into a school of stripers or spilling bilge oil into the sparkling blue deep. With these tips in mind and this map in hand, you can help keep our waters clear and clean for everyone who boats, sails, surfs, skis, swims, and fishes in San Francisco Bay and the Delta.

So open up this guide and review its tips for preventing pollution, and its map of the pumpouts and port-a-potty dump stations located at marinas and yacht harbors around San Francisco Bay. Then stash your new guide in a handy dry place so you can always find it when you feel like doing your part to keep our Bay a world-class waterway.



DID YOU KNOW ?

FOUR MILLION

More than one million motorized boats are registered in California and an estimated four million recreational boaters enjoy CA's marinas, lakes, rivers and coastal waters every year

10,000 TO 1

One boater flushing untreated sewage overboard produces as much bacterial pollution as 10,000 people whose sewage passes through a treatment plant

OVER 100

Over 100 different intestinal pathogens — viruses, parasites, and bacteria — can be found in sewage

80

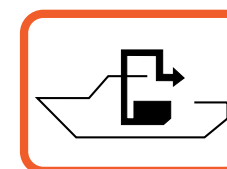
There are over 80 pumpout stations throughout the Bay/Delta, and most of them are free!

\$2,000

That's the fine for dumping untreated sewage where you are not supposed to. Yep, even your bucket!

THE 10 STEPS TO PUMPOUT

WATCH FOR THE NATIONAL PUMPOUT SIGN!



- Follow pumpout instructions. If instructions aren't posted or aren't clear, **ASK!** Encourage the marine operator to post easy-to-understand instructions.
- Remove hose from rack for ideal vacuum and close nozzle valve on pumpout hose.
- Remove deck waste fitting cover from boat and insert nozzle.
- Turn on pump.
- Open nozzle valve.
- Check flow through sight glass. If flow doesn't occur within one minute, place nozzle in water for ten seconds. If there's still no flow, check for an air leak in the line or a block in the holding tank air vent.
- When tank is empty, close nozzle valve.
- Slowly remove nozzle from deck waste fitting by tipping nozzle to side to "crack" the seal made under pressure.
- When finished rinse Bay/Delta water through the system for 5-10 seconds. Pump out only your holding tank. **Pumpouts should never be used for bilge water or solid objects!**
- Turn off pump and return hose to rack for the next boater.

DON'T FEEL LIKE IT? GO MOBILE!

If you don't want to service the holding tank yourself, consider using a mobile pumpout service. Check the bottom of the map for services in your area.

BROKEN PUMPOUT STATION?

Report broken systems through the app or to the marina operator. Grant funds are available for marinas to repair or replace pumpouts through the California State Parks Division of Boating and Waterways Clean Vessel Act Program. Visit www.dbw.ca.gov/cvagrants for more information.

NEW! PUMPOUT NAV Clean sewage management in your pocket!



FREE ANDROID AND iOS APP FOR SMART PHONES & TABLETS

Search for "Pumpout Nav" in the app store of your Android or Apple device. Any recent device will work!

FIND PUMPOUTS! WHEN THE TIME COMES

Pumpout Nav helps you find the closest operational pumpout to your location. Look for the green pins to find your station.

FIRST TIME USER? ALL YOU NEED TO KNOW

Watch a pumpout how-to video, learn about sewage impacts, what the law says, and your onboard system.

THROUGHOUT CALIFORNIA WELL, ALMOST

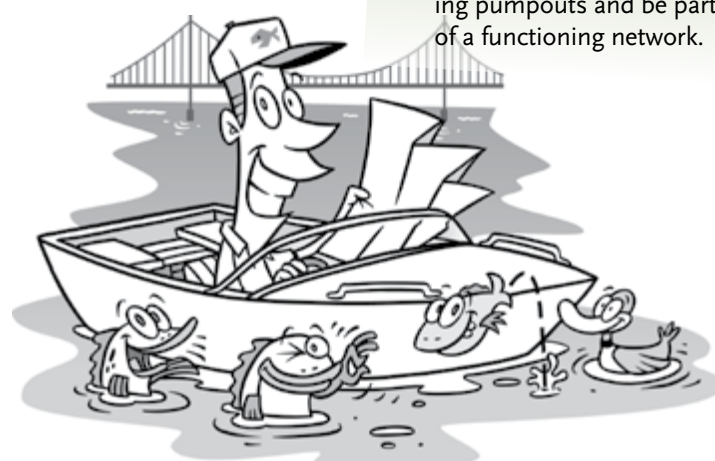
Pumpout Nav covers the Sacramento Delta and the San Francisco Bay as well as Southern California from Santa Barbara to San Diego. Other parts of the state (and beyond!) will be added soon.

SPEAK UP!

LET US KNOW IF SOMETHING'S NOT RIGHT If a pumpout is not accessible or doesn't work, report it through the app. The pin color will change and the marina will get notified.

DATA DRIVEN FOR A FUNCTIONAL PUMPOUT NETWORK

We update Pumpout Nav by monitoring units on a regular basis. Help us find non-working pumpouts and be part of a functioning network.



THE GREEN PAGES

BOATING INFORMATION

California Division of Boating & Waterways (888) 326-2822

San Francisco Estuary Partnership (415) 820-7900

COUNTY POLICE & SHERIFF BOAT/MARINE UNITS

Contra Costa (925) 646-2441

Napa (707) 253-4451

Sacramento (916) 264-5471

San Joaquin (209) 468-4400

Solano (707) 421-7090

Yolo (530) 666-8282

U.S. Coast Guard (415) 399-3530

OIL & SEWAGE SPILLS

National Response Center (800) 424-8802

California Office of Emergency Services (800) OILS-911 (645-7911)

Oil Recycling (800) CLEAN-UP www.earth911.com

BOATING SAFETY

California Division of Boating and Waterways www.dbw.parks.ca.gov

FISH & WILDLIFE

California Dept. of Fish & Wildlife Hotline (CalTip) (888) 334-2258

National Invasive Species Hotline (877) 786-7267

Marine Mammal Center (injured animals) (415) 289-7325

WildCare (injured terrestrial animals) (415) 456-SAVE

HUMAN HEALTH

California Dept. of Public Health, Environmental Health Investigations Branch (Fish consumption warnings) (510) 620-3620 www.ehib.org

California Dept. of Public Health, Environmental Management Branch (Shellfish Information Hotline—warnings) (800) 553-4133

PARTNERS



California State Parks Division of Boating and Waterways One Capitol Mall - Suite 410 Sacramento, CA 95814 (888) 326-2822 www.dbw.parks.ca.gov



San Francisco Estuary Partnership 375 Beale Street, Suite 700 San Francisco, CA 94105

(415) 820 - 7900 www.sfestuary.org/boating

Order your free maps by contacting the San Francisco Estuary Partnership

Design and Illustrations: Darren Capenas
Cartoons: David Colton
Photos: © Allison Adams, Bradman, James Muller & Natasha Dunn

RULES AND REGS

UNTREATED SEWAGE

- Discharges of untreated sewage are prohibited within the navigational waters of the U.S. — an area that includes the entire San Francisco Bay and Delta and extends three miles seaward beyond the coast. [CWA §312 (j)]
- Fines of up to \$2,000 can be imposed for illegal discharges. [CWA §312 (j)]
- It is legal to discharge untreated sewage at sea (you must be at least three miles out from the coast) except in the Gulf of the Farallones National Marine Sanctuary, Monterey Bay National Marine Sanctuary, and Cordell Bank National Marine Sanctuary, (see map), which have the same discharge restrictions (no untreated sewage) as inland waters. [Title 15, CFR, Sec. 922.82(a)(2)(ii)(A)]

ONBOARD TREATMENT SYSTEMS

- All boats with installed toilets must have a U.S. Coast Guard-certified Marine Sanitation Device if operating in U.S. navigational waters. [33 CFR Part 159]
- Vessels with a Type I or Type II Marine Sanitation Device must treat their sewage before discharge. For a Type I MSD, the fecal coliform count in the effluent must be no greater than 1,000 per 100 milliliters of water and have no visible floating solids. For a Type II MSD, the fecal coliform count must be no greater than 200 per 100 milliliters, and suspended solids no greater than 150 milligrams per liter. [33 CFR Part 159]

NO DISCHARGES HERE

- Discharges of any kind, treated or not, are prohibited in Richardson Bay — a designated No-Discharge Area. [40 CFR Part 140.4]



- When operating on the navigable waters of any lake, reservoir, or freshwater impoundment, the vessel toilet must be sealed, rendered inoperable, or designed so no human sewage can be discharged in the water. [Div.104, Part 13, Chapter A, CHSC]

More rules and regs at www.dbw.ca.gov/Pumpouts (Educational Resources)

ONBOARD TREATMENT SYSTEM ?

A type I or II MSD is also called an onboard treatment system. These systems macerate sewage and treat it with chemicals or electricity. Some type III MSDs have macerators but DO NOT treat the sewage. Although onboard treatment systems do treat sewage, they are not nearly as effective as land based treatment systems and do not address nutrient loading or medications that pass through the body. Nutrients can cause blooms in aquatic plants, including invasive species. Have your system inspected regularly to ensure it is treating to specifications, so you are not inadvertently dumping inadequately treated sewage overboard.

FREQUENTLY HEARD MYTHS !

"If I have an on board treatment system ... I can discharge into the Delta"

[40 CFR 140.3] states that it is illegal to discharge any sewage (treated or untreated) into "rivers that do not support interstate traffic." The entire Delta falls into this category. This means you cannot discharge into the Delta. **BUSTED!**

"...I can discharge into freshwater lakes and reservoirs"

[40 CFR 140.3] also states that these water bodies are protected from any sewage discharge. **SORRY!**

"...I can discharge into my marina or yacht harbor"

It is not only courteous to not discharge sewage in confined quarters, but the California Health and Safety Code [CHSC 117515] states that it is also illegal to do so! This means no discharging into any marina or yacht harbor. **FALSE!**

"...I don't have to secure my Y-Valve"

If you are operating your vessel in any body of water that is illegal to discharge in, [33 CFR 159.7] states that you must secure the device as to prevent overboard discharge! This includes the Delta, freshwater areas, and marina and yacht harbors. **NOT!**

See Onboard Equipment section in this guide for a diagram of Y-Valve Function.

THE ONBOARD EQUIPMENT

YOUR DEVICE

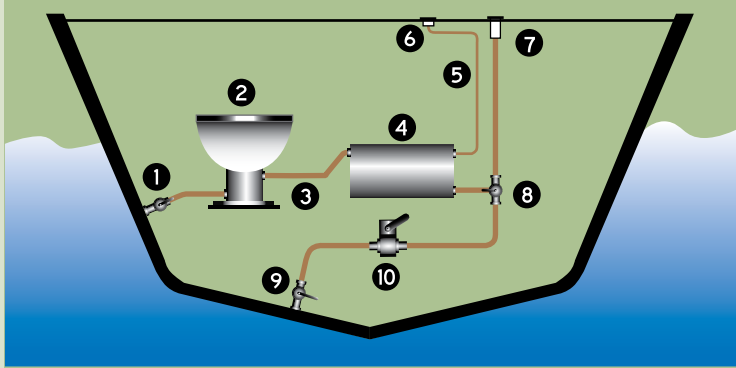
A Marine Sanitation Device (MSD) prevents pollution from the discharge of untreated sewage from a boat. According to U.S. Coast Guard regulations, all boats with an installed toilet must have one of the approved three types listed below:

Type I and II MSDs break up the sewage and disinfect it with chemicals. It is legal in some instances to discharge from either type directly overboard, but you must add the appropriate chemicals for treatment. **Without this treatment, discharge from a Type I or II system is considered raw sewage and remains illegal within the three-mile limit (see Rules and Regs).**

Type III MSDs, most commonly used by boaters, provide a holding tank for storing untreated sewage until it can be properly disposed of at an onshore pumpout station that connects to a local sewer system. All MSDs can be pumped out by mobile units that dispose of the waste into sewer systems. **Adding chemical deodorizers does not constitute treatment and does not allow you to dump wastes overboard.**

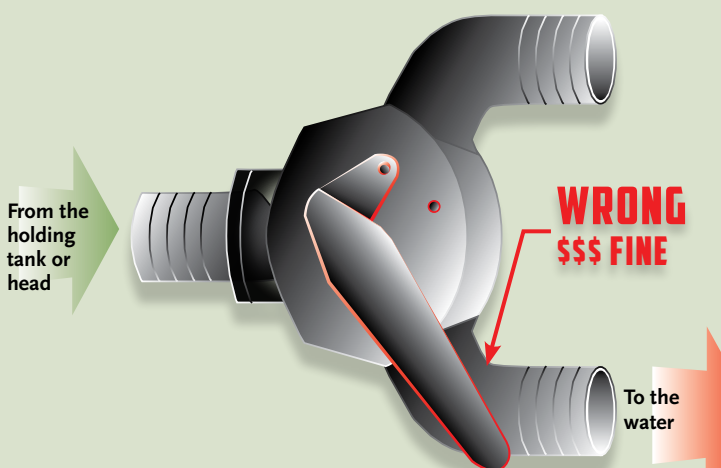
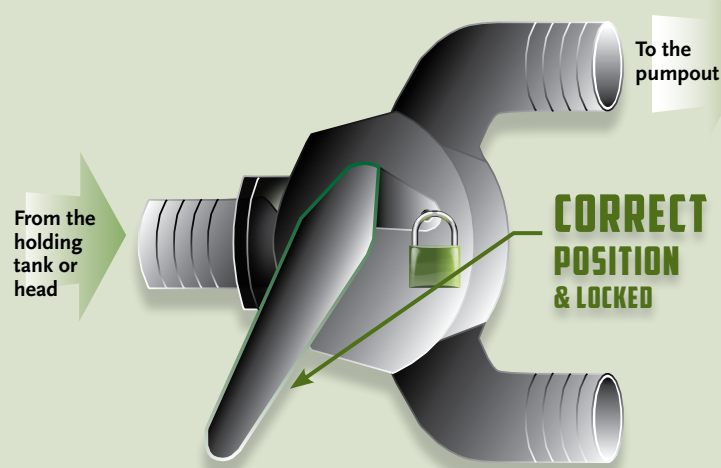
TYPICAL TYPE III MSDS

Holding Tank with Multiple Discharge Options



- Raw Water to Head
- Marine Head
- Discharge to Tank
- Holding Tank
- Tank Vent Hose
- Vent Fitting
- Waste Deck Fitting (Pumpout)
- Y-valve
- Thru-hull Discharge Valve
- Macerator Pump

THE Y VALVE



Almost all marine sanitary systems have a Y-valve. These devices allow vessel operators to divert the flow of sewage to discharge directly overboard when out at sea (3 miles from the coastline).

While navigating or while anchored within the three miles limit, you must secure the Y-valve in the closed position with a padlock or nonreleasable wire tie or remove the handle entirely.

[33CFR 159.7 & Div 104 Part 13 Chapter A CHSC]

CLEAN BOATING

DISINFECTANTS & DEODORIZERS

Many chemical disinfectants and deodorizers used in Marine Sanitation Devices (MSDs) contain chemicals of concern including: Chlorine compounds (including sodium hypochlorite), formaldehyde, paraformaldehyde, ammonium compounds, glutaraldehyde, paradichlorobenzene, or anti-microbials (such as Dovicil or Bronopol). It only takes one-tenth of a part per million of chlorine to harm or kill aquatic organisms in the vicinity of a discharge. Use enzyme and bio-active treatments when possible as these are biodegradable and less toxic treatments. Read labels carefully and use only the amount recommended to ensure adequate treatment.

GREEN SOLUTIONS FOR SMELLY PROBLEMS:

- Empty your holding tank on a regular basis. Full and overfull tanks are difficult and dangerous to drain.
- Periodically rinse the entire system with water. As described in the 9th step to pumpout.
- Clean with a vinegar solution. Before you add any holding tank treatment, use a vinegar solution, about once a month, immediately after a tank has been emptied. This solution will help to reduce scale buildup and it will keep the walls of the hose clean.
- Deodorize with borax and baking soda. To clean and deodorize the boat's head, use a mix of ½ cup borax per 1 gallon of water. Clean frequently with a solution of baking soda and water, and sprinkle baking soda around the rim.
- Change hoses when needed. Over time, the system hoses, made up of a rubbery material, start absorbing the sewage smell. Perform the following quick test: Use a rag with hot water and put it around the hoses for a few minutes. Remove the rag and if the rag has a bad odor, like sewage, the odor is permeating through the hose and it's time to change it.

www.BoatingCleanandGreen.com

THE ALTERNATIVES

PRODUCT	NON-TOXIC APPROACH
DETERGENT & SOAP	Fresh water and a lot of elbow grease
BLEACH	Hydrogen peroxide
SCOURING POWDERS	Baking soda or salt
FLOOR CLEANER	One cup white vinegar in 2 gallons water
WINDOW CLEANER	One cup vinegar in 1 quart warm water
VARNISH CLEANER	Wipe with 1/2 cup vinegar and 1/2 cup water solution
HEAD CLEANER	Brush with baking soda
SHOWER CLEANER	Wet surface, use scouring cloth with baking soda
ALUMINUM CLEANER	Use 2 tablespoons cream of tartar in 1 quart of water
CHROME CLEANER/POLISH	Apple cider vinegar to clean, baby oil to polish
FIBERGLASS STAIN REMOVER	Baking soda paste
DRAIN OPENER	Disassemble and replace; avoid toxic products
MILDEW REMOVER	Paste of equal parts lemon juice and salt
WOOD POLISH	Use 3 parts olive oil and 1 part white vinegar; almond or olive oil (interior unvarnished wood only)

Check with your local chandlery for green products.

This guide was produced by the San Francisco Estuary Partnership in cooperation with the California State Parks Division of Boating and Waterways. Funding was provided by a Clean Vessel Act grant, administered by California State Parks Division of Boating and Waterways and funded by the U.S. Fish and Wildlife Services, Sport Fish Restoration and Boating Trust Fund. The information presented in this guide is accurate to the best of our knowledge. The San Francisco Estuary Partnership assumes no responsibility and disclaims any liability for any injury resulting from the use or effect of any product or information in this publication.

Printed on recycled paper with soy-based inks. March 2018



SACRAMENTO - SAN JOAQUIN RIVER

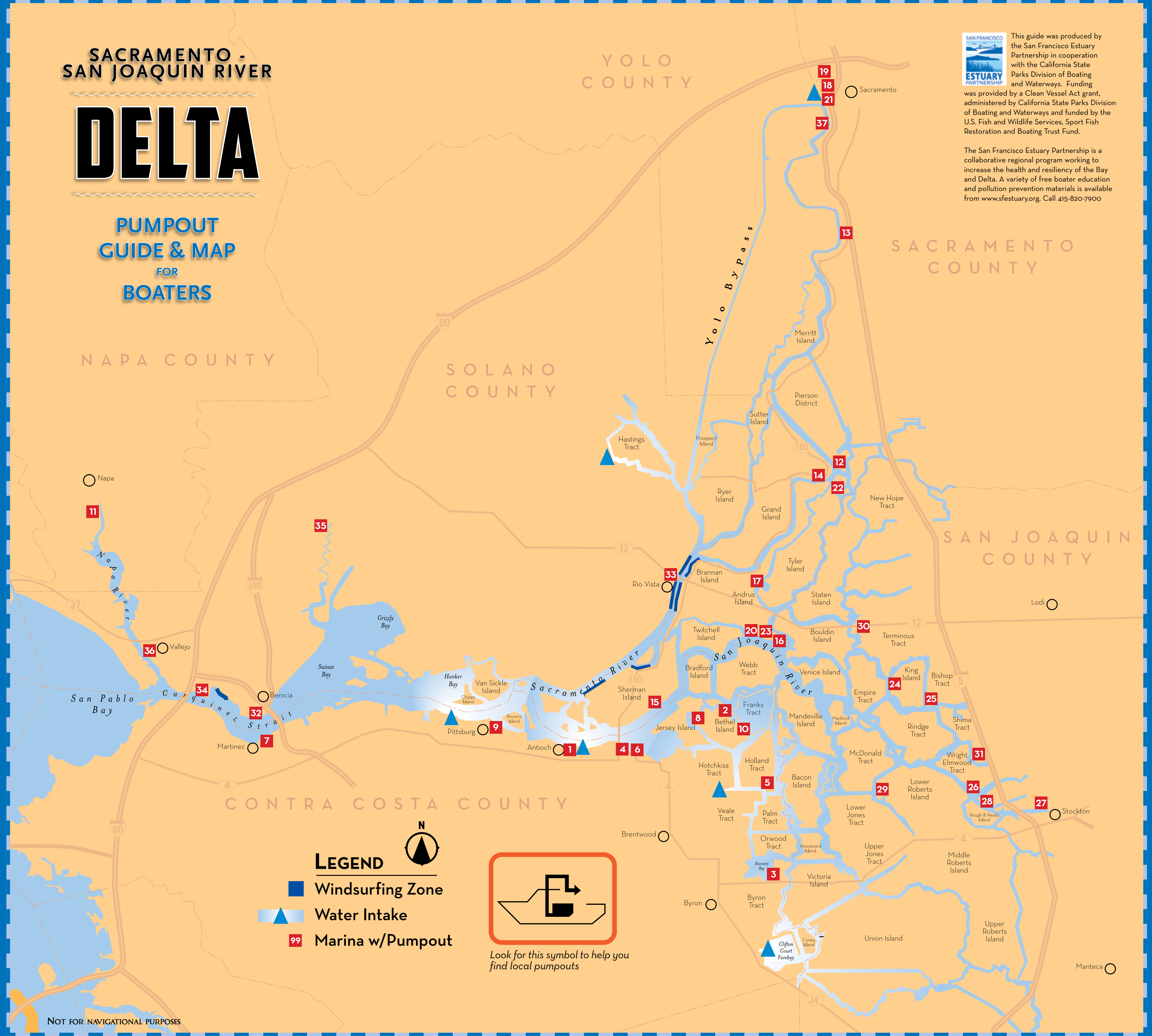
DELTA

PUMPOUT GUIDE & MAP FOR BOATERS



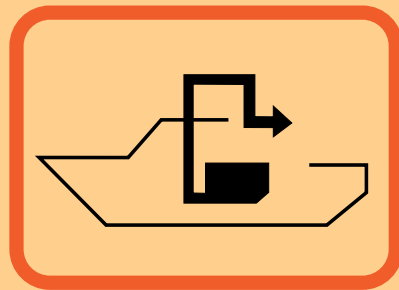
This guide was produced by the San Francisco Estuary Partnership in cooperation with the California State Parks Division of Boating and Waterways. Funding was provided by a Clean Vessel Act grant, administered by California State Parks Division of Boating and Waterways and funded by the U.S. Fish and Wildlife Services, Sport Fish Restoration and Boating Trust Fund.

The San Francisco Estuary Partnership is a collaborative regional program working to increase the health and resiliency of the Bay and Delta. A variety of free boater education and pollution prevention materials is available from www.sfestuary.org. Call 415-820-7900



LEGEND

- Windsurfing Zone
- Water Intake
- Marina w/Pumpout



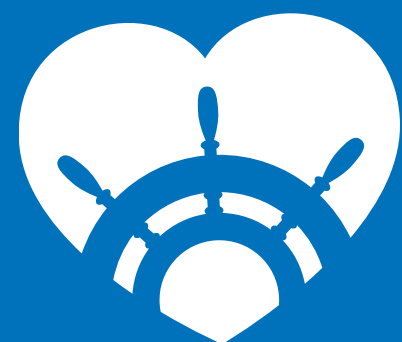
Look for this symbol to help you find local pumpouts

NOT FOR NAVIGATIONAL PURPOSES

DON'T DUMP... USE THESE PUMPS

MARINA WITH PUMPOUT	LOCATION	PUMPOUT COST	HOURS	PORTAPOTTY DUMP	PUBLIC RESTROOMS
CONTRA COSTA COUNTY					
1 ANTIOCH MARINA	5 Marina Plaza, Antioch, CA 94509	Free	Guest dock: 24 hours Fuel dock: 8-5	No	Yes 8-5
2 BETHEL HARBOR	3405 Harbor Road, Bethel Island, CA 94511	\$10	7-5	No	Yes
3 DISCOVERY BAY YACHT HARBOR	8901 Marina Rd., Discovery Bay, CA 94505	Free to tenants Others \$15	24 hours	No	Yes
4 DRIFTWOOD MARINA	6338 Bridgehead Rd., Oakley, CA 94561	Free	24 hours	No	No
5 HOLLAND RIVERSIDE MARINA	7000 Holland Tract Rd., Brentwood, CA 94513	Free to tenants Others \$7	8-6 8-5 Winter	No	Yes
6 LAURITZEN YACHT HARBOR	115 Lauritzen Lane, Oakley, CA 94561	Free to tenants Others \$5	8-4:30 M-Th, 8-6 F, 6-6 SS	No	Yes
7 MARTINEZ MARINA	7 N. Court St., Martinez, CA 94553	Free	24 hours	No	Yes 8:30-4:30
8 NEW LIFE MARINA	1200 Taylor Rd., Bethel Island, CA 94511	Info upon request	8-5	No	No
9 PITTSBURG MARINA	51 Marina Blvd. *E, Pittsburg, CA 94565	Free	24 hours	No	Yes 8-5
10 SUGAR BARGE RESORT	1440 Sugar Barge Road, Bethel Island, CA 94511	\$15	8-5	Yes	Yes
NAPA COUNTY					
11 NAPA VALLEY MARINA	1200 Milton Road, Napa, CA 94559	\$10	8-5 M-F 9-5 Sat, 9-4 Sun	No	Yes
SACRAMENTO COUNTY					
12 BOATHOUSE MARINA	13900 River Rd., Locke, CA 95690	Free	9-5	No	No
13 CLIFF'S MARINA	8651 River Rd., Sacramento, CA 95832	\$20-40	9-4 W-Sun, winter 9-5 Tu-Sun, summer	No	Yes
14 DAGMAR'S LANDING	14181 Hwy. 160, Walnut Grove, CA 95690	Free to tenants, others \$0.50/linear foot	By appt.	No	No
15 EDDO'S HARBOR	19530 Sherman Island E. Levee Rd., Rio Vista, CA 94571	Free	9-5:30	No	Yes
16 KORTH'S PIRATES' LAIR MARINA	169 W. Brannan Island Rd., Isleton, CA 95641	Free to tenants Others \$10	8-5	Use pumpout	Yes
17 OXBOW MARINA	100 Oxbow Marina Dr., Isleton, CA 95641	Free	24 hours	No	Yes 8:30-5:00
18 RIVERBANK MARINA	1371 Garden Hwy., #200, Sacramento, CA 95832	Free	7-6, Public; 24 hours, Tenants	Yes	No
19 RIVERVIEW MARINA	1801 Garden Hwy., Sacramento, CA 95833	Free	10-2 winter; 10-2 M-Th, 9-5 F-Sun summer	No	No
20 SACRAMENTO DELTA BAY MARINA	9500 W. Brannan Island Rd., Isleton, CA 95641	\$20	8:30-7 summer; 9-4 winter	No	Yes
21 SACRAMENTO MARINA	1710 Ramp Way, Sacramento, CA 95818	Free	24 hours	No	Yes
22 WALNUT GROVE MARINA	1400 Old Levee Rd., Walnut Grove, CA 95690	\$20	8-5 M-Sat	Yes	Yes
23 WILLOW BERM MARINA	140 Brannan Island Rd., Isleton, CA 95641	Free	8:30-4:30	No	No

MARINA WITH PUMPOUT	LOCATION	PUMPOUT COST	HOURS	PORTAPOTTY DUMP	PUBLIC RESTROOMS
SAN JOAQUIN COUNTY					
24 KING ISLAND RESORT	11530 West 8 Mile Rd., Stockton, CA 95219	209-477-5364	Fuel dock	Free	8-4 winter 8-5 summer
25 PARADISE POINT MARINA	8095 Rio Blanco Rd., Stockton, CA 95219	209-952-1000	Fuel dock	Info upon request	8-6 Sun-Th 8-6:30 Fr-Sat
26 RIVER POINT LANDING RESORT	4950 Buckley Cove Way, Stockton, CA 95219	209-951-4144	Fuel dock	\$15	9-5:30 summer 8:30-4:30 winter
27 STOCKTON DOWNTOWN MARINA	445 W. Weber Ave., Ste 128B, Stockton, CA 95203	209-462-4200	Guest dock	Free	24 hours
28 STOCKTON YACHT CLUB	3235 River Dr., Stockton, CA 95204	209-946-9259	Guest dock	Free	24 hours
29 TIKI LAGUN RESORT	12988 W. McDonald Rd., Stockton, CA 95206	209-941-8975	Fuel dock	\$10	9-5
30 TOWER PARK MARINA	14900 West Hwy. 12, Lodi, CA 95242	209-369-1041	Fuel dock	Free	24 hours
31 VILLAGE WEST MARINA	6649 Embarcadero Dr., Stockton, CA 95219	209-951-1551	Fuel dock	Free	24 hours
SOLANO COUNTY					
32 BENICIA MARINA	266 East B St., Benicia, CA 94510	707-745-2628	Fuel dock	Free	24 hours
33 DELTA MARINA YACHT HARBOR	100 Marina Dr., Rio Vista, CA 94571	707-374-2315	Guest dock	Free	8-5 summer; 8-4 Sun-Th, 8-5 Fr-Sat winter
34 GLEN COVE MARINA	2000 Glen Cove Marina Rd., Vallejo, CA 94591	707-552-3236	Dock 8	Free	24 hours
35 SUISUN CITY MARINA	800 Kellogg St., Suisun City, CA 94585	707-429-BOAT	End of fuel dock	Free	24 hours
36 VALLEJO MUNICIPAL MARINA	42 Harbor Way, Vallejo, CA 94590	707-648-4370	J dock & fuel dock	Free	24 hours
YOLO COUNTY					
37 SHERWOOD HARBOR MARINA	3505 South River Rd., West Sacramento, CA 95691	916-371-3471	Fuel dock	\$10	24 hours
MOBILE PUMPOUT SERVICE					
SEPTIC BROTHERS MARINE PUMP-OUT	Discovery Bay to Walnut Grove to Antioch	209-329-0768		\$25-75	Down-Dusk



Save the waters you love

Pump, Don't Dump



NEW! Download the FREE PUMPOUT NAV app on your phone and find the closest operational Pumpout Station for your boat in California.

- Get up-to-date status on Pumpout Stations
- Learn how to safely dispose of your waste
- Report any issues while using the equipment
- And more!

Available from Apple & Android app stores