

EPA New England Boat
Pressure Wash Water Control
Virtual Trade Show

Planned for Spring CY07

EPA New England Boat Pressure Wash Water Control Virtual Trade Show - Highlights

- ❑ EPA New England Partnership: Marina Team & Center for Environmental Industry and Technology (CEIT)
- ❑ On line virtual trade show
- ❑ Introduces Marina & Boatyard Owners to technologies for controlling boat pressure wash water

EPA New England Boat Pressure Wash Water Control Virtual Trade Show - Highlights (cont'd)

- **Background introductory and regulatory information provided**
- **Vendor application process (instructions, criteria & form)**
- **Technologies displayed automatically listed on CEIT Innovative Technology Inventory**

EPA New England Boat Pressure Wash Water Control Virtual Trade Show - Highlights (cont'd)

- Links to related sources of information
- Technology names highlighted with color key for application



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Boat Pressure Wash Water Control Technologies Virtual Trade Show Introduction

Marina and boatyard owners need access to information on technologies to help them control the impact of wastewater from their pressure washing of boats. When boats are pressured washed, which usually occurs at or near the shoreline, preventative measures must be taken to prevent the release of harmful ingredients in cleaners, bottom paints, and harmful residue on boat hulls to marina basin waters.

Under the Clean Water Act, EPA and states (when approved by EPA) regulate point sources that discharge pollutants into waters of the United States through the National Pollutant Discharge Elimination System (NPDES) permit program. Discharges within a marina facility or boatyard that typically require NPDES permits include process water, cooling water, and storm water runoff from drainage systems.

Any permit of this type issued to control marine pressure washing discharges would likely impose discharge limitations to ensure that state water quality standards are met in the receiving water. The concentrations of metal in these discharges can be high in comparison to water quality standards. Meeting water quality standards is thus likely to require the installation of a wastewater treatment system to comply with the requirements of such a permit. This approach is likely not the most cost effective option for most boat yards and marinas. The most promising options are:

- Recycling
- Containment followed by off-site disposal
- Discharge via a connection to a Publicly Owned Treatment Works
- Pollution prevention measures such as filtration and treatment which can be of a recycling or containment system

This virtual trade show is designed to introduce marina and boatyard owners to technologies for controlling pressure wash water in the above areas such as, for example, recycling systems, containment tanks, and filtration related products.

Information is set out in a fact sheet format that details system specifications, site and pretreatment requirements, costs, maintenance needs, and other factors useful for evaluating and selecting a system appropriate to local conditions. While more detailed information should be obtained from system manufacturers and state regulators, these summaries provide a starting point for evaluating available options.

As vendors develop new or modified products that they would like to have listed at the web site, please see the [Instructions](#) or contact [EPA's Center for Environmental Industry & Technology](#).

The technology fact sheets are complemented by summary descriptions and links to:

- [Regulations](#)
- [Links to other sources of information](#)

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Boat Pressure Wash Water Control Technologies Virtual Trade Show Application Form

Please copy, fill out and send form to Larry Wells:

By e-mail to wells.larry@epa.gov
 By fax to Larry Wells at: (617) 918-1810
 By mail:
 Larry Wells (SPP)
 USEPA Region I
 One Congress Street Suite (1100)
 Boston, MA 02114-2023

Please see instructions before filling out this form.

Note: The length of your technology descriptions is not constrained by the size of the blocks or cells on the forms.

MANUFACTURER INFORMATION

Company: _____
 Address: _____
 Telephone: _____
 Fax: _____
 eMail: _____
 Website: _____
 Contact: _____

ADDITIONAL CONTACT INFORMATION (if applicable)

Regional Distributor/Office: _____
 Telephone: _____
 eMail: _____
 Website: _____
 Contact: _____

TECHNOLOGY INFORMATION

Technology Name: _____

Narrative Description

Specifications

Site Constraints/Installation Requirements

Application (Check those that apply to your technology and provide a description)

Wash ___ Collection ___ Filtration ___ Treatment ___ Recycle ___
 Reuse ___ Pollution Prevention ___ Other ___

Performance

Inspection/Maintenance

Costs



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Boat Pressure Wash Water Control Technologies Virtual Trade Show Regulations

National Pollutant Discharge Elimination System

The National Pollutant Discharge Elimination System permit program controls water pollution by regulating point sources that discharge pollutants into water of the United States.

The Clean Water Act authorizes EPA and states (when approved by EPA) to regulate point sources that discharge pollutants into waters of the United States through the National Pollutant Discharge Elimination System (NPDES) permit program. Examples of discharges within a marina facility that typically require a NPDES permit include, process water, cooling water, and storm water runoff from drainage systems.

Pressure wash water is a form of process water. If pressure washing is used, for example, for cleaning or to remove marine growth from vessels, the wash water and associated paints chips and other pollutants generated by the pressure washing, cannot be discharged into a water of the United States unless it is permitted by an NPDES permit issued by EPA or an authorized state.

Any permit of this type issued to control marine pressure washing discharges would likely impose discharge limitations to ensure that state water quality standards are met in the receiving water. The concentrations of metals in these discharges can be high in comparison to water quality standards. Meeting water quality is thus likely to require the installation of a wastewater treatment system to comply with the requirements of such a permit. This approach is likely not the most cost effective option for most boat yards and marinas. The most promising options are:

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- Pollution prevention measures such as filtration and treatment which can be part of a recycling or containment system

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[Massachusetts Coastal Zone Management Program](#) [EXIT Disclaimer](#)

Pressure Wash Demonstration Projects:

As part of a comprehensive effort to assist marinas in tackling the pressure washing issue, CZM awarded \$12,500 each to Cape Ann Marina in Gloucester and Arey's Pond Boatyard in Orleans for the installation of treatment systems that will remove pollutants from pressure wash water. Each of these facilities hosted a demonstration project that allowed the general public, marina operators, and state officials to view the funded systems.

[Pressure Wash Information:](#) [EXIT Disclaimer](#)

The State of Maine conducted a study in 2002 to determine what contaminants are in the bottom paint, wash water, and bottom sediments surrounding the wash area. The study was performed at boatyards and marinas with marine railways that typically perform pressure washing in the intertidal zone where wash water flows directly and into the water. The Maine study revealed that in addition to the expected high copper levels, lead levels were unexpectedly high.

California Sea Grant (CA SEA Grant)

- [Selecting Hull Paint:](#) [EXIT Disclaimer](#)
The University of California extension of Sea Grant Program provides information on selecting paint for a boat hull.
- [Boating Pollution Economics and Impacts:](#) [EXIT Disclaimer](#)
This page may answer your questions on the benefits of preventing boating pollution. Even small amounts of pollution become a problem when they accumulate over time. Manufacturing, using and disposing boating products and equipment all contribute to the environmental impacts and costs of pollutants.

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Boat Pressure Wash Water Control Virtual Trade Show Technologies

Coming Soon!

- W** = Wash
- C** = Collection
- F** = Filtration
- T** = Treatment
- R** = Recycle
- R** = Reuse
- P** = Pollution Prevention
- O** = Other

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URL: <http://www.epa.gov/region1/test/ceits/boatpwwct/technologies.html>

EPA New England Marina Contacts

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Deborah Cohen: 617-918-1145

✓ **Massachusetts Clean Marina Guide:**

<http://www.mass.gov/czm/marinas/guide/macleanmarinaguide.htm>

✓ **New England Regional Marina Website:**

<http://www.epa.gov/region1/marinas/index.html>EPA

✓ **EPA Environmental Management Plan Workbook:**

<http://www.epa.gov/region1/marinas/pdfs/MarinaEMPJuly05.pdf>

