

**PENNSYLVANIA COASTAL RESOURCES
MANAGEMENT PROGRAM**

FINAL REPORT

Pennsylvania Clean Marina Project

**Project Number: 11.PS.05
Completed September 30, 2013**

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The views expressed herein are those of the authors and do not necessarily reflect those of the U.S. Department of Commerce, NOAA, the PA DEP or any of their sub-agencies.





Pennsylvania Clean Marina Project

I. Project Summary

The goal of NOAA's national Clean Marinas Program is to reduce the pollution from sewage, plastic waste and litter, fueling, and boat maintenance that is associated with recreational boating and fishing. With assistance from a PA CRM grant number 11.PS.05, Pennsylvania Sea Grant (PASG) worked with a host of marinas and other partners to provide leadership, coordination, and technical assistance to encourage the adoption of clean boating and clean marina practices along Pennsylvania's two coastlines. PASG drew many ideas from successful clean marina programs in other states. The main work accomplished in the scope of the grant period included helping marinas to recycle 14,000 pounds of boat shrink wrap and 12,620 pounds of marine debris. The 180 participating volunteers contributed more than 700 hours to coastal clean-up and recycling efforts. Two pollution prevention workshops were attended by 72 participants, and a feasibility study that polled about a third of Pennsylvania's coastal marinas found a considerable amount of interest in starting a Clean Marina Certificate program. The Ridley Township Marina was identified as a model marina with the commitment to help to pilot a certificate program to become one of the first Pennsylvania recognized Clean Marinas. The survey also identified areas where marinas requested technical assistance.

While Pennsylvania boasts over 85,000 miles of rivers and streams, 76 natural lakes, 2,300 constructed impoundments, 76 miles of Lake Erie shoreline, and 112 miles of tidal waters for boaters to enjoy (Pennsylvania Fish and Boat Commission) a Pennsylvania Clean Marina Certificate Program has not been established. Most of Pennsylvania's 400 marinas sit at the water's edge with the potential for many pollutants associated with boating to run directly into the water and impact downstream habitats.

II. Work Elements Completed

Pollution prevention workshops for 72 marina operators and associates - The Philadelphia area workshop that took place March 18, 2013 at the Corinthian Yacht Club was attended by 46 participants and an Erie County workshop that took place March 25, 2013 at the Tom Ridge Environmental Center was attended by 26 participants (see agendas, Appendix A). Workshop topics were chosen based on the interest expressed in our marina operator survey. As part of the workshop preparation, a Pennsylvania Clean Marina logo and masthead and footer were developed; these were used for workshop publicity. The program evaluations indicated that the programs were highly successful and several participants recommended the workshops be offered on an annual basis (see Appendix B).

Boat shrink-wrap recycling program – PASG coordinated efforts between participating marinas and an Erie shrink-wrap plastic recycler. An organization meeting followed the March 25th pollution prevention workshop. During the spring and summer of 2012 and 2013 nearly 14,000 pounds of shrink wrap were collected from 12 marinas and recycled by Engineered Plastics LLC. Since the shrink wrap recycling program inception, Pennsylvania Sea Grant has facilitated the recycling of a grand total of 123,748 pounds of boat shrink wrap. This recycling has had the environmental benefit of saving landfill space while reducing the pollution produced and energy needed to make new plastic products.

Litter recycling and marine debris clean-ups – After running a small shrink wrap recycling program for Philadelphia area marinas from 2009-2011 it became evident that there is not enough financial incentive for recyclers to be interested in continuing. The marinas are small and spread out over a large geographic region. As a result, PASG shifted strategy to promote the collection and recycling of marina debris. Clean-up events had an environmental benefit while raising awareness of the benefits of recycling in Marinas and the community. During the grant period, PASG coordinated the following 4 marine debris clean-ups events involving local marinas and volunteers:

- On June 8, 2012 PASG worked with Tinicum Township, Tinicum Coastal Partnership (representing 8 DE County Marinas), PA DCNR, the Corinthian Yacht Club, and 46 volunteers from Deloitte financial consulting to collect and recycle marine debris from Little Tinicum Island (Tinicum Township, Delaware County). This recycling effort marked the first time this annual debris clean-up project separated and recycled the plastic, aluminum, glass, and scrap metal collected from the island. The contribution of 270 hours of volunteer time made it possible to remove harmful litter from the Delaware River environment and send 6,020 pounds of marine debris to the Covanta co-generation plant and 1,200 pounds of comingled recyclables to Grey's Ferry Transfer Station.
- On June 7, 2013 PASG worked with the same partners to help coordinated another Little Tinicum Island clean-up. Because of inclement weather, it was unsafe for volunteers to take boats to LTI so the group moved their clean-up location to assist the coastal City of Chester with clean-up and recycle litter in the Highland Garden and Sun Park sections of the City (see Mayor's thank you, Appendix C). This marked the first time Chester staff separated the recyclables from the litter collected and before the event some of the participating staff did not know what materials could be recycled. Thirty-nine volunteers contributed 190 hours that made it possible to send an estimated 4,000 pounds of coastal debris to the Covanta trash-to-steam plant and 900 pounds of comingled recyclables to the DELCORA recycling center.
- PA Sea Grant assisted Pennsylvania Greenways and Ridley Township Marina in recycling debris from their October 15, 2012 Little Tinicum Island clean-up. As a result of PASG's influence, event volunteers separated the recyclables collected for the first time.
- Sea Grant worked with the 9th Street Youth and community Center and the Philadelphia Union staff to organize a youth coastal debris clean-up near Barry Bridge Park on the Chester waterfront on March 23, 2013. Most of what was collected, about 500 lbs., was recycled by the 85 participants. In all, about 255 volunteer hours were contributed.

- We continue to bring awareness of coastal debris problems while we look for additional ways to promote “single stream” recycling for area marinas as a way to save on business costs, reduce pollution, and promote recycling in coastal communities.

Study to determine the feasibility of establishing a Pennsylvania Clean Marina Certificate Program

PA Sea Grant staff reviewed other states’ Clean Marina programs to determine what elements might be relevant for Pennsylvania. PASG staff also held a conference call with Mike Danko, who oversees New Jersey’s successful Clean Marina Program, to discuss options and ideas for a Pennsylvania. To gain additional input, Ann Faulds and Barbara Kelley attended a Delaware River Yachting League and two Tinicum Shoreline Partnership meetings for informal feedback concerning the Clean Marina program. Ann Faulds also met with Laurel Anders, from Pennsylvania Fish and Boat Commission, and Pauline Hetrick, co-owner of Seven Points Marina on Raystown Lake near Hesston, Pa, to discuss interest and potential among Pennsylvania inland marinas. Seven Points is the largest marina in Pennsylvania and the region.

A written survey of marina operators to study the feasibility of establishing a Pennsylvania Clean Marina Certificate Program for the coastal Erie and Philadelphia areas was conducted during the fall of 2012. Marina operators took the survey in person or through a telephone interview. Seventeen marinas participated in the 26 question survey, five businesses from the Erie area and twelve from the Philadelphia area; those interviewed constituted about a third of Pennsylvania’s coastal marinas. Descriptive data about the nature of the businesses polled is also contained in the survey summary (see survey summary, Appendix D).

Survey Results - Erie and Delaware county results were similar, so all survey findings were combined for analysis. About 82% of participants indicated their business or club might be interested in learning more about the Clean Marina initiative. More than half the respondents indicated a representative from their business or club might be interested in being a clean marina program advisor. Respondents indicated February (n=9), March (n=5), and April (n=3) were the months they preferred for scheduling a Clean Marina workshop. January, September, October, and November were each mentioned once.

While environmental stewardship, reducing waste disposal costs, and receiving free technical assistance were the most common incentives chosen from the listed in question 1, the other incentives listed were chosen by at least 7 respondents. Marina dredging was the most common concern expressed by marina operators in question 5 in both the Erie (where low, seasonal water levels reduced the marina water depth) and the Philadelphia area (where ongoing siltation is also compromising marina water depths). Maintenance and boat management (n=3) and Philadelphia Airport issues (n=3, all in DE County) were also popular topics suggested by participants. However, when asked to choose topics of interest from the list of suggested topics in question 25, boater safety ranked the highest (n=9) followed by understanding state regulations (n=7), emergency response (n=7). Marina dredging, waste containment, and understanding federal regulations all ranked the same (n=6). These findings will be helpful in designing program topics and incentives.

Questions 18-20 explored participant values relating to water quality and marinas. On a scale of 1-5 (where 1 = the lowest ranking and 5 indicates the highest ranking), the average responses to “*how important is clean water for the success of your business*” was 4.2. The average response to “*how healthy would you rate the health of the aquatic environment at your marina*” was 3.4. Eleven out of 17 respondents indicated that water quality improvements would help their business. These responses indicate a high level of appreciation for clean water.

Questions 21 - 23 explored spills and environmental emergencies. Of the 47% of respondents that reported that a spill or environmental emergency had affected their business, nearly a third considered their response to the emergency inadequate. Sixty-four percent reported their business did not have any spill containment booms.

The two most commonly recycled material were cans (n=11) and bottles and plastic (n=9). Only 2 marinas indicated they recycled all the materials collected in the “single stream” recycling program offered in larger communities in the Philadelphia area (cans, bottles and plastic, glass, paper and cardboard comingled).

Participants named the following equipment they would like to purchase with pollution prevention grants: all projects (n=4), vacuum sander, recycling tanks, reclamation systems (n=2) and pump out station (n=1). The most popular technical assistance suggestion that participants indicated would be helpful in implementing good environmental practices associated with boat maintenance was funding (n=12) followed by manuals, printed materials, or web resources (n=10), workshops and training (n=7), and I don’t know (n=3).

We augmented the Pennsylvania marina study with a 2005 San Francisco BayKeeper Clean Marina Program Coordinator Survey (Appendix E). Of the 16 programs surveyed, 8 programs were managed by Sea Grant and 3 were managed by a trade association; other managers mentioned included state CZM program, U.S. Army Corps of Engineers, BoatUs, U.S. Coast Guard Axillary, Non-point source program, and a small business assistance section (local government). The program cost ranged from \$13K to \$120K per year with an average annual cost of about \$49K. Some programs mentioned they expended more initially. Salary was the most significant program cost followed by equipment, publicity and publications, recognition incentives, and travel. More than a third of those polled recommended involving the marina industry in the development and management of the program. Several also mentioned that a non-regulator group was more appropriate to head the program than a regulatory group. The most common funding sources mentioned were federal or federal–state matching fund programs including: EPA non-point 319 funds (n=4); NOAA matching funds such as CZM 310 (n=2), 306, 309, state CZM grants, and Sea Grant; EPA Estuary Program (n=2); U.S. Army Corps of Engineers; and U.S. FWS. Non-federal funding sources included BoatUs Foundation, state special waterway improvement funds, inspection fees (n=2), donations, power plant revenue, and in-kind services.

III. Clean Marina Certificate Program Recommendations

After conducting a survey of Marina operators, reviewing existing programs and materials, and evaluating features that might serve the needs of Pennsylvania boaters and marinas, it is apparent that a Clean Marina Certificate Program would be feasible to start if funding could be established. While it is unreasonable to expect every marina to pursue a certificate, our research indicates a core group of marinas are interested in a certificate program; Ridley Township Marina agreed to be a pilot should we receive project start-up funds. The Pennsylvania Fish and Boat Commission (PFBC) expressed an interest in partnering to provide inland marinas assistance. Seven Points Marina, who is actively pursuing a CM certificate from a surrounding state, and is highly interested in becoming PA certified. Seven points also expressed an interest in advising during program start-up. Designating model marina management and practices gives extension specialist the opportunity to serve many additional marinas that have an interest in improving their practices but may not be interested in pursuing a certificate.

In putting together a Pennsylvania certificate pilot program, PASG recommends the following:

- **Combine forces with PFBC** with Sea Grant coordinating coastal portions and PFBC coordinating inland marinas. The two organization could work together to find start-up funds.
- **Establish a PA Clean Marina Working Group** in conjunction with industry representatives. Invite representatives from coastal marina businesses, yacht clubs, Pennsylvania Fish and Boat Commission, U.S. Coast Guard, Conservation Districts, and others to assist in developing the program and reviewing the handbook. Involve the work group with pre and post certification inspections and in reviewing drafts of the PA Clean Marina Program Manual.
- **Utilize the Great Lakes Clean Marina online training program**
www.miseagrant.umich.edu/great-lakes-clean-marina for core multistate topics and supplement with Pennsylvania specific regulations and contacts.
- **Create a clean marina certificate manual** drawing from the *PA Handbook for Marina and Boat Operators: Practices for Clean Water* (1997, PA DEP and Bucks County Conservation District) and clean marina manuals from other states. The manual should reference (and not duplicate) appropriate information available on the Great Lakes Clean Marina website. A section on dredging regulations and best practices for Pennsylvania marinas will make this manual popular and unique. This handbook will serve as central guidance for marinas pursuing best management practices and the certificate program.
- **Pilot a Pennsylvania Clean Marina Certificate Program** with a public marina (such as Ridley Township Marina) and the Clean Marina Work Group. Strive to position a model marina to be awarded the first PA Clean Marina Certificate. The program and manual should address the needs of all Pennsylvania marinas.

- **Develop incentives for marina and boater participation** based on the finding of the 2013 Marina Operator survey. Flags, logos, and plaques have been developed by other programs. Draw upon 2011-2013 feasibility canvassing work.
- **Establish a comprehensive Website** and clearinghouse of clean marina and boating resources and best practices.

IV. List of Appendices

- A. Workshop Agendas
- B. *Workshop* Evaluation Summary
- C. Chester City Thank You Letter
- D. 2012 Pennsylvania Marina Operator Survey Summary
- E. 2005 San Francisco BayKeeper Clean Marina Program Coordinator Survey

Appendix A, Workshop Agendas



Pollution Prevention Workshop

March 18, 2013, 8:30 am to 12:30 pm at the Corinthian Yacht Club
The program is free however, advanced registration is required

Many of you participated in a recent Pennsylvania Sea Grant survey that found topics of interest for yacht clubs and marina operator. The marinas have spoken and we're pleased to invite you to a Pennsylvania Sea Grant Pollution Prevention workshop that will feature three popular topics.

Tentative Agenda

8:30 Registration and Refreshments

9:00 Welcome & Introduction

Understanding the Dredging Process – best practices for marina operators and waterfront property owners

- Daniel Mensah, Pennsylvania DEP
- David Caplan, US Army Corp of Engineers
- Anne Marie Gohsler, PWS; President, Gohsler Wetland & Ecology

Preventing and Responding to Spills

Funding Your Environmental Projects (Grant list, maybe DCNR Carolyn Wallis)

Lunch (provided)

This interactive program will provide the opportunity to ask questions and network over a complimentary lunch. Participants will take away a number of handouts and resources including materials on new dredging regulations, the application process, spill management and helpful links and resources.

To Register: e-mail your contact information and club or marina name (if appropriate) to Ann Faulds amf12@psu.edu. You will receive directions, program details, and a registration confirmation. The registration deadline is March 13th.



Pollution Prevention Workshop

March 25, 2013, 8:30 am to 12:00 pm at the Tom Ridge Environmental Center
The program is free however, advanced registration is required

Many of you participated in a recent Pennsylvania Sea Grant survey suggesting topics of interest for yacht clubs and marina operators. The marinas have spoken and we're pleased to invite you to the Pennsylvania Sea Grant Pollution Prevention workshop featuring relevant topics such as preventing and responding to spills, threats posed by falling water levels in the Great Lakes, the dredging process and required permitting, and aquatic invasive species identification and prevention in Pennsylvania

Tentative Agenda

- 8:30 Registration and Refreshments**
- 9:00 Welcome & Introduction**
- 9:15 Aquatic Invasive Species – Identification and Prevention**
- Sara Grisè, Pennsylvania Sea Grant
- 9:45 Understanding the Dredging Process – best practices for marina operators and waterfront property owners**
- Donald Benczkowski, Pennsylvania DEP
 - Eric Guerrein , Lakeshore Towing
 - Jim Grazio, Pennsylvania DEP
- 11:15 Preventing and Responding to Spills**
- Coley Wodke, United States Coast Guard
 - Brian Gay, Peat Sorb
- 11:50 Shrink Wrap Recycling**
- Megan Corbin, Engineered Plastics

This interactive program will provide the opportunity to ask questions and network over complimentary refreshments. Participants will take away a number of handouts and resources including materials on new dredging regulations, the application process, spill management and helpful links and resources.

To Register: e-mail your contact information and club or marina name (if appropriate) to Tom Cermak tjc29@psu.edu. You will receive directions, program details, and a registration confirmation. The registration deadline is March 22nd.





Clean Marina Pollution Prevention Workshop Evaluation Summary

Corinthian Yacht Club
March 18, 2013
Tom Ridge Environmental Center
March 25, 2013

Select all that apply. Are you a:

1. Marina or yacht club operator or member (18)
2. Environmental consultant (2)
3. Boating or marina related business (but not a marina or environmental consultant) (1)
4. Federal, state, or municipal employee (1)
5. Other – please specify *non-profit* (1)

1. This workshop has been successful.

1. Strongly Agree (19)
2. Agree (3)
3. Neutral (1)
4. Disagree
5. Strongly Disagree

2. Attending this workshop was a good use of my time.

1. Strongly Agree (18)
2. Agree (5)
3. Neutral
4. Disagree
5. Strongly Disagree

3. The time allocated for discussion was just right.

1. Strongly Agree (13)
2. Agree (9)
3. Neutral (1) (*suggest more*)
4. Disagree
5. Strongly Disagree

4. Presentation materials (slides, maps and handouts) increased my understanding.

1. Strongly Agree (20)
2. Agree (2)
3. Neutral
4. Disagree
5. Strongly Disagree

5. The presenters were well prepared and gave clear presentations

1. Strongly Agree (18)
2. Agree (4)
3. Neutral (1)
4. Disagree
5. Strongly Disagree

6.) What did you like the best about this workshop?

*Moved very smoothly and information as great
Learned a lot about water levels and shoreline access
Spill containment and clean up information
Presenters wealth of knowledge
Being able to speak directly with regulators
Lunch!
Dredging regulation information
All the speakers*

7. Do you have suggestions for improving the workshop?

*Name tags
Include invitation to general public to inform them about these topics
Offer on an annual basis*

Thank you very much for your input! Do you have any additional comments or suggestions for future programs?

Appendix C, Chester City Thank You Letter

John Linder
Mayor



610-447-7723 Voice
610-447-7706 Fax
JLinder@chestercity.com

NAFIS NICHOLS, DEPUTY MAYOR/COUNCILMAN

PORTIA WEST, COUNCILWOMAN

WILLIAM JACOBS, COUNCILMAN

ELIZABETH WILLIAMS, COUNCILWOMAN

JULY 29TH, 2013

GREETINGS;

ON BEHALF OF CHESTER CITY COUNCIL AND THE CITIZENS OF THE GREAT CITY OF CHESTER, I WOULD LIKE TO JOIN COUNCILWOMAN PORTIA WEST AND HER DEPARTMENT OF STREETS HIGHWAYS & PUBLIC IMPROVEMENTS, IN RECOGNIZING DELOITTE CONSULTING SERVICES' OUTSTANDING CIVIC SERVICE AND STEWARDSHIP TO THE COMMUNITY OF CHESTER AND ITS CITIZENS.

CIVIC ENGAGEMENT IS OF PARAMOUNT IMPORTANCE TO THE PROGRESSION OF OUR GREAT CITY AND THROUGH YOUR ORGANIZATION'S EFFORTS A SAFER, FRIENDLIER, AND MORE ENJOYABLE ENVIRONMENT WILL BECOME A REALITY FOR ALL OF US TO ACHIEVE TOGETHER. YOUR COMMITMENT TO THE CITY NOT ONLY ENHANCES OUR OUTWARD VIEW BUT ALSO ENCOURAGES UNITY, PROMOTES SOCIAL CONSCIOUSNESS, AND NOURISHES THE SPIRIT OF SERVICE IN ALL OF US.

WE EXTEND TO YOU OUR SINCEREST THANKS, AND HONORARY MEMBERSHIP TO OUR CHESTER FAMILY.

WITH KINDEST REGARDS AND THANKS+,

JOHN A. LINDER, MAYOR



Appendix D, Survey Summary

2012 Marina Survey

Please tell us the name of your marina or club _____

Part 1: Clean Marina Initiative

Pennsylvania Sea Grant would like to gauge the interest in starting a Clean Marina initiative, a voluntary, incentive-based program that encourages marina operators and recreational boaters to protect coastal water quality by engaging in environmentally sound operating and maintenance procedures. While Clean Marina programs vary from state to state, they all offer information, guidance, and technical assistance to marina operators, local governments, and recreational boaters on Best Management Practices (often called BMPs) that can be used to prevent or reduce pollution. Participating Clean Marinas are recognized in a variety of ways for their environmental stewardship.

1. Please circle any of the benefits below that you think would be an incentive or selling point for your business or club. Some potential benefits for marina operators and owners include (*n=15*):
 - A. **Demonstrate marina is a good steward of the environment.** Many states distribute special flags and signs for Clean Marinas to display. Clean Marinas are also allowed to use the Clean Marina logo on all advertising and letterhead. (*11*)
 - B. **Reduce waste disposal costs.** Best Management Practices can reduce the amount of waste produced so disposal costs are less. (*11*)
 - C. **Generate higher revenue.** Studies have shown that Clean Marinas can charge slightly higher slip fees and have fewer vacancies. (*10*)
 - D. **Receive free technical assistance.** Best Management Practices guidebooks, training workshops, and on-site visits are available to marina operators. (*11*)
 - E. **Reduce legal liabilities.** By participating in a Clean Marina Program, marinas can ensure they are meeting all regulatory requirements, thus avoiding fines. (*7*)
 - F. **Enjoy free publicity.** States recognize Clean Marinas in a number of ways such as press releases, newsletters, and boating guides. (*9*)
 - G. **Attract knowledgeable customers.** Clean Marinas are aesthetically pleasing facilities that can attract responsible clientele that will follow good boating practices. (*9*)
 - H. **Improve water quality and habitat for living resources.** The marina and boating industry depends on clean waters and a healthy coastal environment for their continued success. (*8*)

2. Is a Clean Marina initiative something your business or club might be interested in learning more about? (*n=17*)

 9 Yes

 3 No

 5 Maybe - would like to know more

Comments: *Maybe, what are your incentives?*

3. Would you or someone from your business or club be interested in being an advisor for planning a Clean Marina program? (*n=17*)

 5 Yes

 7 No

 5 Maybe - would like to know more

Would need to know more about it before committing. Does it cost?

4. What time of year is best for you to attend a workshop or program? (*n=16*)
- A. February (*9*)
 - B. March (*5*)
 - C. April (*3*)
 - D. September
 - E. October
 - F. Other: *January; November; Any (2); Shift work, depends*

5. What topics would you like to see covered in a workshop? (<i>Topics participants offered as suggestions; n=10</i>)
<i>Dredging (5)</i>
<i>Maintenance and boat management (3)</i>
<i>[Philadelphia] Airport issues and advocacy (3, all in Delaware County)</i>
<i>Bulkhead regulations (2)</i>
<i>Fuel dock (2)</i>
<i>Funding opportunities (2)</i>
<i>Ecology, environment, basin water quality (2)</i>
<i>Training for boat operators and fork lift operators, marina financing</i>
<i>BPMs - Clean Marina practices</i>
<i>Boat storage and dry dock</i>
<i>Emergency response & Boat Safety</i>
<i>Boat Winterization (Anti-freeze)</i>
<i>All topics</i>

6. If grants were available to help you purchase pollution prevention equipment (such as vacuum sanders, recycling tanks, wash water reclamation systems, or other items that prevent pollution) what items would you most want to purchase and/or install? (Please do not include capital projects such as bulkhead construction or projects that do not prevent pollution, such as dredging.) (*n=11*)

<i>For all projects (4)</i>
<i>Vacuum, recycling tanks, reclamation systems (2)</i>
<i>Capital projects, dredging, bulkhead (2)</i>
<i>Boat ramp, fork lift, vacuum</i>
<i>Pump out station</i>

Part 2: About Your Marina

7. Which of the following best describes your marina? (*n=16*)
- A. Private marina (no boat maintenance or repairs provided by staff) (*4*)
 - B. Private yacht club (a private membership organization that docks boats in slips that it owns.) (*5*)
 - C. Public marina (federal, state, or municipally owned) (*3*)
 - D. Boatyard without slips (only conduct boat repairs) (*2*)

- E. Boatyard with slips
- F. Other: _____

8. How many years has the marina at this location been in operation? (*n=14*)

5 years
10
15
20 (<i>2</i>)
30 (<i>2</i>)
35
49
65
80
105
109
120 Average = 49 years

9. When are you open? (*n=16*)

Months of the year
12 months - <i>8</i>
8-9 months - <i>1</i>
7 months - <i>1</i>
6 months - <i>1</i>

Days of the week
7 days a week - <i>7</i>
6 days a week - <i>3</i>
5 days a week - <i>1</i>

10. Which of the following amenities does your business provide? (Circle all that apply) (*n=?*)

- A. Boat ramp (*6*)
 - B. Mooring field or anchorage (*6*)
 - C. General boat repairs including hauling and washing (*6*)
 - D. Dry dock (*9*)
 - E. Restaurant and/or bar (*9*)
 - F. Banquet or meeting facility (*7*)
- Others mentioned: *Transient slips (2), gas (2), pumpout station, fishing pier, museum, trap shooting & swimming pool*

11. How many slips do you have at your facility? (n=14)	
moorings only (3)	
6	
20 (2)	
50	
90	
97	
168	
190	
253	
468	
500	Average = 186

12. What is the typical craft length at your marina? (n=14)	
20 ft sail	
20-30 ft	
20-60 ft	
25 ft (4)	
25-40 ft	
27-40 ft	
28 ft	
30 ft or smaller	
30 ft	

13. How many boats do you typically dry dock? (n=15)	
No facility or moorings only (4)	
18	
20	
35	
50	
85	
95	
100	
140	
150	
150	
190	Average = 88

14. Do your customers shrink-wrap their boats during the winter months? *(n=17)*
(12) Yes
(5) No

15. If you answered "YES" in # 8, about how many shrink wraps are typically taken off each spring at your marina? <i>(n=9)</i>	
some	
some do and some don't	
10	
20	
20 - 25	
40	
70	
100	
150	Average = 59

16. Does your marina have a fuel dock on-site? *(n=17)*
(6) Yes
(11) No
 ___ No, however, we receive requests for an on-site fuel dock

17. Does your marina offer boater sewage pump-out facilities? *(n=17)*
(6) Yes
(11) No
 ___ No, however, we receive requests for pump-out facilities

18. On a scale 1-5, how important is clean water for the success of your business? *(n=17)*
 (1=not at all important, 5=very important)

1 *(1)* 2 *(0)* 3 *(3)* 4 *(3)* 5 *(10)* *(average=4.2)*

19. On a scale 1-5, how would you rate the health of the aquatic environment at your marina?
 (1=not at all healthy, 5=extremely healthy) *(n=17)*

1 *(0)* 2 *(2)* 3 *(5)* 4 *(7)* 5 *(2)* *(average=3.4)*

20. Would improvements in water quality help your business? *(n=17)*
(11) Yes
(3) No
(5) Not sure

Please explain:

Water quality is very good.
There's a lot of trash in river and it accumulates in shallows, tidal flats are smelly and unsightly
Water quality improves all aspects of boating and fishing.
More people would boat.

21. Has there ever been an oil spill or other environmental emergency that affected your business?

(n=15)

(3) Yes, onsite

(4) Yes, offsite

(8) No (Go to number 17)

22. If you answered "YES" in # 15, were you prepared to deal with the spill or environmental emergency in a timely manner? (n=7)

(5) Yes

(2) No

Please describe your response and how the spill affected your business: *damage to boats*

23. What materials are available at your marina in case of a boater fuel spill? (Circle all that apply)

(n=14)

A. Booms (6)

B. Absorbent Pads (7)

C. Nothing (1)

D. Other: *Bilge socks*

24. Does your business currently recycle any of the materials below? (Circle all that apply) (n=14)

A. Scrap metal (6)

B. Boat shrink-wrap (8)

C. Cans (11)

D. Bottles and plastic (9)

E. Glass (5)

F. Paper (5)

G. Cardboard (4)

H. Fishing line (1)

I. Oil (5)

J. Other: _____

25. Which of the following topics are you interested in learning more about? (Circle all that apply) (n=17)

A. Understanding state regulations (7)

H. Petroleum control (4)

B. Understanding federal regulations (6)

I. Emergency response (7)

C. Marina design and maintenance (4)

J. Vessel maintenance (5)

D. Marina management (2)

K. Waste containment (6)

E. Stormwater management (4)

L. Pump-out stations and sewage handling

F. Boater safety tips (9)

(5)

G. Marina recycling to reduce costs (3)

M. Marina dredging (6)

N. Other: _____

26. What assistance would be useful to help the marina implement good environmental practices associated with boat maintenance? (*n=15*)

A. Funding (*12*)

B. Workshops and training (*7*)

C. Manual, printed materials, or web resources (*10*)

D. I don't know (*3*)

E. Other: _____

Comments: _____

If you have any additional comments that would help us plan, please feel free to write on a separate page. Thank you for your time and input!

The Port Authority operates a boat haul-out and storage facility and Lampe Marina which are separate locations.

Tinicum Coastal Partnership presentation - use small gathering

Appendix E, 2005 CMP Coordinator Survey Responses



Baykeeper

San Francisco Bay Chapter • 55 Hawthorne Street, Suite 550
 San Francisco, California 94105-3924
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Clean Marina Recognition Program Survey Responses

Q1. What was the reason for starting a Clean Marina Program?

Program Title	Response
Connecticut Clean Marina Program	Federal Law or policy-to achieve full federal approval of Coastal Nonpoint Source Pollution Control Program
Cumberland River Basin Clean Marina	TVA implemented a CMP on the Tennessee River. Our marina operators encouraged us to start a program
Delaware Clean Marina Program	Federal Law or policy- CZARA (NREC came to Sea Grant, thought it would be better to be with a non regulatory agency.
District of Columbia Clean Marina Program	Federal Law or policy
Coastal Georgia Clean Marina Program	Other-just a good idea to help marinas
Louisiana Clean Marina Program	Federal law or policy-CZMA 6217
Maryland Clean Marina Initiative	Federal Law or policy-CZARA-'90 6217
Michigan Clean Marina Program	Voluntary
Alabama-Mississippi Clean Marina Program	Other- water quality & nps concerns within several agencies in both AL & MS.
New Jersey Clean Marina Program	Other- our program was created in response to CZARA/6217, however we were not mandated by this rule to create it. NJ decided to address NPS pollution via a voluntary program rather than imposing additional regulations on the industry
Ohio Clean Marinas program (program is new)	Federal Law or policy, State law, Other- education effort to help marinas comply with regulations
Clean Marina Program San Diego	Other-Marinas in San Diego Region were being considered for a NPDES permit from the Regional Water Quality Control Board so with cooperation with RWQCB marina owners organized to develop this program.
Ontario marine Operators Clean Marine Eco-Rating	Other-to take environmental BMPs Initiative to head off laws or regulations
Tennessee Valley Authority Clean Marina Initiative	Federal law or policy-Recognition of large % non-compliance with boat sewage management regulations/Other-Interactions with leaders of the National Clean Boating Campaign and numerous Clean boating events held at marinas throughout 650 miles of

	Tennessee River made us aware of how much boating pollution being generated.
Clean Texas Marina Program	Federal law or policy, State law or policy, Other- program created by Sea Grant in 95, promoted by NOAA & and finally the Texas General Land Office funded small project to work w/ Sea Grant, Marina Assoc. Of TX & TCEQ on starting the program.
Virginia Clean Marina Program	Federal law or policy-EPA lists Virginia as not in compliance with nonpoint pollution/water quality standards

Q2-Q3

Program Title	Q2. When did you begin planning the program?	Q3. When did you become fully operational?
Connecticut Clean Marina Program	December 2000 (applied for funding)	January, 2003 (first workshop)
Cumberland River Basin Clean Marina	Spring 2003	Winter 2004
Delaware Clean Marina Program	Late 2001	2003
District of Columbia Clean Marina Program	1999+	2002
Coastal Georgia Clean Marina Program	2002-2003	2004
Louisiana Clean Marina Program	3 yrs ago	Last month (June 2005)
Maryland Clean Marina Initiative	1997	End of 1998
Michigan Clean Marina Program	2002	We have a guidebook, pledge & workshops, haven't yet certified any marinas
Alabama-Mississippi Clean Marina Program	2002	2004
New Jersey Clean Marina Program	NJ implemented a pilot program about 5 yrs. Ago. A few marinas participated in the pilot program, 1 marina was designated a CM. Then progress stalled for awhile. The effort picked up again in Dec. 2003 to create an official statewide program	Held a kick off workshop in March 2005, and a press event in June 05. The press event marked the official launch from the States perspective, but the workshop introduced the program to the marina industry and other interested parties.
Ohio Clean Marinas program (program is new)	2003	April 1, 2005
Clean Marina Program San Diego	Spring 2003	Summer 2004
Ontario marine Operators Clean	Mid 1990's	Late 1999

Marine Eco-Rating		
Tennessee Valley Authority Clean Marina Initiative	August 1999-surveyed marinas, held CMI pilot project	2002
Clean Texas Marina Program	May, 2001	February, 2002
Virginia Clean Marina Program	1999	2000

Q4. What were the primary challenges and/or obstacles you faced in instituting a program?

Program Title	Response
Connecticut Clean Marina Program	Ensuring all relevant regulatory programs were covered (at industry's request).
Cumberland River Basin Clean Marina	Funding, time and personnel
Delaware Clean Marina Program	Apathy of operators-not being done by regulatory program. They tend not to respond without threats to regulations (operations & maintenance plan passed but hasn't been enforced for almost 10 yrs. CMP must be in compliance but marinas don't worry about it, since its not enforced. Lack of interest by operators. Cost for operators such as spill plans and storm water permits \$100 (not being regulated).
District of Columbia Clean Marina Program	The benefits outweigh the work needed to be done to achieve clean marina status
Coastal Georgia Clean Marina Program	Getting folks to sign up and follow through
Louisiana Clean Marina Program	Getting marinas involved & having them believe it will not be regulatory but the intention is voluntary, and told them that program wasn't started to slam people. Some agencies leery to get involved with program
Maryland Clean Marina Initiative	Mistrust of "the government". Getting industry to buy-in. Ensuring recommendations were sensible, feasible
Michigan Clean Marina Program	Funding
Alabama-Mississippi Clean Marina Program	Funding: initial program development funding was easier to come by, but long term funding and support is harder.
New Jersey Clean Marina Program	Effective coordination and communication among the partners. The initial pilot stalled & some sense of trust among the players was lost. Regaining that trust & effectively moving on was a major challenge. An extensive amount of work went into revising, updating, editing & changing the program guidebook to reflect NJ's policies. NJ's program requires that marina's be in full compliance with all applicable state & federal laws and it was important that the guidebook reflect as many of these as possible & that all the info be accurate & up to date. This is in addition to the extensive list of BMPs. NJ has also created a points system and deciding upon the process for cm designation required numerous meetings and

	discussions.
Ohio Clean Marinas program (program is new)	Fear of regulation
Clean Marina Program San Diego	Making the program sincerely effective and based on good management practices. And keeping the costs very low.
Ontario marine Operators Clean Marine Eco-Rating	Money
Tennessee Valley Authority Clean Marina Initiative	Encouraging marina participation in a VOLUNTARY program, getting the 12 Watershed Team CMI Coordinators trained and active.
Clean Texas Marina Program	Getting industry to support program and getting marinas to pledge
Virginia Clean Marina Program	No single major obstacle

Q5. Which agency or organization has the primary responsibility for managing the Clean Marina Program?

Program Title	Response
Connecticut Clean Marina Program	CT. Dept. Of environmental protection's office of long island sound programs (which is the states coastal management office)
Cumberland River Basin Clean Marina	U.S.A.C.E Nashville district
Delaware Clean Marina Program	Delaware Sea Grant, Delaware Dept. Of Natural Resources & Env't. Control (DNREC), Boat US, and the USCG Auxiliary
District of Columbia Clean Marina Program	NPS & DC
Coastal Georgia Clean Marina Program	Marine Extension Service and Sea Grant (Georgia's Environmental Protection Agency does the inspection)
Louisiana Clean Marina Program	
Maryland Clean Marina Initiative	Maryland Dept. Of Natural Resources
Michigan Clean Marina Program	3 equal partners: SeaGrant, Michigan Boating Trades Assc. & DEQ-non regularity part (business assistance)
Alabama-Mississippi Clean Marina Program	MS-AL Sea Grant consortium (MASGC)
New Jersey Clean Marina Program	The Coastal Management Program within the NJDEP
Ohio Clean Marinas program (program is new)	Ohio sea grant program
Clean Marina Program San Diego	We are managed by our industry through a subcommittee of our Environmental Committee of the Port Tenants Assoc.
Ontario marine Operators Clean Marine Eco-Rating	Ontario marine operators association (OMOA)

Tennessee Valley Authority Clean Marina Initiative	Tennessee Valley Authority owns and manages the program, with support from state wildlife agencies. USCG and others.
Clean Texas Marina Program	Initially Texas Sea Grant, now TCEQ, Small Bus. & Local govt assistance section
Virginia Clean Marina Program	Virginia Sea Grant Marine Advisory Program at Virginia Institute of Marine Science

Q6. Who designed your region's Clean Marina Program?

Program Title	Response
Connecticut Clean Marina Program	State/Federal agency- with significant industry involvement
Cumberland River Basin Clean Marina	State/Federal agency-TVA
Delaware Clean Marina Program	Formed committee with 8-12 marina operators, Sea Grant, DNREC, Boat US, and USCG Auxiliary. Used Maryland as a baseline
District of Columbia Clean Marina Program	State/Federal agency - National Park Service
Coastal Georgia Clean Marina Program	GA DNR
Louisiana Clean Marina Program	Too big for staff & went to sea grant. Entered contact for not much money and produced documents and foot work, big help.
Maryland Clean Marina Initiative	MD DNR
Michigan Clean Marina Program	3 partners
Alabama-Mississippi Clean Marina Program	State/Federal agency-MASGC
New Jersey Clean Marina Program	Marina industry, state/fed agency,
Ohio Clean Marinas program (program is new)	Marina industry, state/fed agency, local govt, non-profit-LEMETA
Clean Marina Program San Diego	Marina industry
Ontario marine Operators Clean Marine Eco-Rating	Marina industry, Ministries with assistance from federal & provincial envt.
Tennessee Valley Authority Clean Marina Initiative	State/Federal agency-TVA
Clean Texas Marina Program	Sea grant
Virginia Clean Marina Program	Marina Industry, State/Federal agency

Q7. Do you partner with any other agencies or groups?

Program Title	Response
Connecticut Clean Marina Program	Connecticut Marine Trades Association-advisory/planning role

Cumberland River Basin Clean Marina	We modeled our program after the TVA program. Tennessee Wildlife Resource Agency provides information on the Clean Vessel Act. Cumberland River Compact non-profit organization, sponsors workshops and events to promote Clean Marinas. All partners reviewed and suggested changes for the guidebook
Delaware Clean Marina Program	A partnership between DNREC's Divisions of Soil and Water and Water Resources, University of Delaware's Sea Grant Marine Advisory Service and the Center for the Inland Bays, Boat US, USCG Auxiliary (Delaware does not have a statewide industry group of marina managers).
District of Columbia Clean Marina Program	National Park Service and D.C. City Government
Coastal Georgia Clean Marina Program	Coastal Georgia marine business association
Louisiana Clean Marina Program	DEQ-319 program (have to be partners acrd NOAA & EPA due to CZARA. Dept. Of Wildlife & Fisheries-implement programs asst. Marinas-pump-out grants
Maryland Clean Marina Initiative	We had an Advisory committee comprised of: Marine Trade Associations of MD (also provided marina operators to sit on advisory committee), USCG, MD Dept. Of Envnt., City of Annapolis, Univ. Of MD Sea Grant, Boat U.S. Foundation, MD Envnt. Service and 9 marina & boatyard operators.
Michigan Clean Marina Program	Partnerships among the Michigan Department of Environmental Quality, the Michigan Boating Industries Association, the Michigan SeaGrant
Alabama-Mississippi Clean Marina Program	Alabama Department of Conservation and Natural Resources, Alabama Department of Environmental Management; Auburn University Marine Extension and Research Center; Mississippi Department of Environmental Quality; and the Mobile Bay National Estuary Program
New Jersey Clean Marina Program	DEP Coastal Mngt. Office serves as the lead agency for the CMP. Coastal Mngt. Office coordinates w/ representatives from the DEP, other state and federal agencies, industry groups, not-for-profit organizations, and academia to implement the program. Coastal Mngt. Office has entered into a formal agreement w/ NJ Marine Sciences Consortium (NJMSC; NJ SeaGrant) to carry out additional tasks such as outreach to marina owners, yacht clubs & boatyards, coordination of educational workshops, and provision of technical assistance. Other partners: Barnegat Bay National Estuary Program, The Jacques Cousteau National Estuary Research Reserve, Manasquan River Watershed Association, NJ Dept. Of Transportation-Office of Maritime Resources, partnership for the Delaware Estuary, Rutgers Cooperative Extension, USCG Auxiliary
Ohio Clean Marinas program (program is new)	OEPA, ODNR, NOAA
Clean Marina Program San Diego	No, After we established the program we attached our administration through the San Diego Port Tenants Association's Environmental

	Committee w/ a representative from our committee that oversees the collections of the fees and reporting of the reviews and certifications.
Ontario marine Operators Clean Marine Eco-Rating	Environment Canada & Ontario Ministry of Environment-for financial & technical assistance clean marine industry partnership for promotion & advice. E/C MUE
Tennessee Valley Authority Clean Marina Initiative	Alabama Dept. Environmental Mgmt, Alabama Marine Police; TN Wildlife Resources Agency; TN and KY Marina Assoc; USCG and Auxiliary; Boone Lake Asso; Boone Watershed Partnership; Env't. Crimes Joint Task Force; Johnson City Power Squadron; Norris Lake Dockowners Assoc; others. *Watershed Reps. Incorporate CMI support into their annual work scope which includes water quality, landuse and permitting functions.
Clean Texas Marina Program	Texas Commission of Environmental Quality TCEQ-provides technical guidance & confirmation/sign off. Marina Association of Texas (MAT)-provides industry support & good advisory personnel. TX Parks & Wildlife (TPWD)-funds for educations projects & pumpout grants. H-GAC & Brazos Rive Authority-do local programs
Virginia Clean Marina Program	Yes, VDEQ,VDCR,VDGIF, industry, all serve on marina technical advisory panel (MTAP)

Q8. Please describe the level in which your project is administered & explain why:

Program Title	Response
Connecticut Clean Marina Program	Statewide-we're a small state with only one marine trades assoc.
Cumberland River Basin Clean Marina	Regional level- Cumberland river basin includes TN & KY
Delaware Clean Marina Program	Statewide-some funding limited to Inland Bays counties (only 3 counties in the state)
District of Columbia Clean Marina Program	Regional-program for District and Park Service sites within the DC area
Coastal Georgia Clean Marina Program	County-wide level/only coastal now-too large for whole state now to be done by one person
Louisiana Clean Marina Program	Designated coastal zone, southern part
Maryland Clean Marina Initiative	Statewide-most sensible scale MD has about 600 marinas manageable
Michigan Clean Marina Program	Statewide
Alabama-Mississippi Clean Marina Program	Statewide-for both states, inland and coastal marinas
New Jersey Clean Marina Program	Statewide level-the entire state is designated "coastal" implementation of CZARA/6217 mngt. Measures. We wanted to offer the program to all marinas-those located on lakes, rivers, bays, and the ocean.
Ohio Clean Marinas program (program is	Regional level-lake Erie/ funding & impact

new)	
Clean Marina Program San Diego	Regional Level-We administer this program within our industry in our region.
Ontario marine Operators Clean Marine Eco-Rating	Regional Level-We administer this program within our industry in our region.
Tennessee Valley Authority Clean Marina Initiative	Regional level-TVA region covers portions of 7 states including TN, AL, KY, MS, GA, NC and VA.
Clean Texas Marina Program	Statewide-355 marinas, with 2/3 on inland waters (lakes & rivers) and 1/3 coastal
Virginia Clean Marina Program	Statewide level

Q9. Approximately how much does it cost annually to run your program?

Program Title	Response
Connecticut Clean Marina Program	One staff level salary plus add'l funding for special projects
Cumberland River Basin Clean Marina	
Delaware Clean Marina Program	\$20,000-\$40,000
District of Columbia Clean Marina Program	
Coastal Georgia Clean Marina Program	About 1/4 to 1/8 of my salary & travel & flags (around \$12-14k/year)
Louisiana Clean Marina Program	Not sure, maybe about \$50,000
Maryland Clean Marina Initiative	Salaries vary. Operational (printing, outreach, etc.) About \$35,000 covers workshops, boat shows, "clean boating" materials ("freebies") etc.
Michigan Clean Marina Program	Since program is new & haven't yet certified a marina, difficult to answer
Alabama-Mississippi Clean Marina Program	During program development 80k/yr (2 yrs) and then 50k/yr after that
New Jersey Clean Marina Program	Program officially began in Mar 2005. So far we have contracted with SeaGrant for \$81,000, however this includes much work conducted leading up to the official launching at the workshop. This does not include my salary (I'm the official coordinator of the CMP, but carrying out program duties is only part of what I do).
Ohio Clean Marinas program (program is new)	\$50,000
Clean Marina Program San Diego	\$5,000
Ontario marine Operators Clean Marine Eco-Rating	\$100,000

Tennessee Valley Authority Clean Marina Initiative	plus or minus \$50K
Clean Texas Marina Program	
Virginia Clean Marina Program	\$70K

Q10. Please list the primary sources of funding for your program:

Program Title	Response
Connecticut Clean Marina Program	*State-state match is necessary, Federal-CWA 319 funds, NOAA OCRM funds (CZMA 310,309) 100%
Cumberland River Basin Clean Marina	Federal U.S. ACOE 100%
Delaware Clean Marina Program	Mainly EPA & FWS (looking into CVA funding), cost share, in-kind funding from Boat US, DE Estuary project fund from the FWS. EPA funds are passed through from DNREC and Inland Bays
District of Columbia Clean Marina Program	Federal/NPS & DC 100%
Coastal Georgia Clean Marina Program	Federal-100% sea grant
Louisiana Clean Marina Program	State 50%, Federal-NOAA 306 grant 6217 50%
Maryland Clean Marina Initiative	State-special funds (waterway improvement fund)-salary & 1/2 operating 60%, Federal-NOAA provided maj. Of operation \$ at first. Now from EPA Ches. Bay Program. (operational) 40% both are current funds. We cobble together funding in diff. Amts every year.
Michigan Clean Marina Program	Federal sources-CZM grant/ Other-in-kind contribution of time
Alabama-Mississippi Clean Marina Program	State-MASCG, ADCNR,MSDEQ, MBNEP 100%
New Jersey Clean Marina Program	Federal-310 funding (sec. 310 of the CZMA) 100%
Ohio Clean Marinas program (program is new)	State 25% federal 75%
Clean Marina Program San Diego	1) Fees-\$250 fee to each marina to be reviewed and certified: Includes: burgee, decal...90% 2)other-Donations from other organizations/dockmasters association donated \$500 10%
Ontario marine Operators Clean Marine Eco-Rating	Provincial 30%, federal 30% other OMOA & member pay for eco-rating certification 40%
Tennessee Valley Authority Clean Marina Initiative	Other-Power revenues 100%
Clean Texas Marina Program	State=Sea Grant through TCEQ 50%, Federal=EPA grants through TCEQ 30%, and MAT some in-kind 20%
Virginia Clean Marina Program	State 25-50% federal 25-50%

Q11. How will the funding for your program be maintained in the next 5 to 10 years?

Program Title	Response
Connecticut Clean Marina Program	Federal sources
Cumberland River Basin Clean Marina	Federal sources-U.S.A.C.E, Private and Other Sources-local events & recognition items sponsored by Cumberland River Compact
Delaware Clean Marina Program	Federal sources- same as current, primarily from EPA & FWS
District of Columbia Clean Marina Program	Federal sources and Private/other sources
Coastal Georgia Clean Marina Program	Federal sources-SeaGrant, State-possible from leasing fees
Louisiana Clean Marina Program	Federal sources-grant money
Maryland Clean Marina Initiative	Federal Sources- EPA Ches.Bay Program and others as identified. State Sources. Private & other sources-as identified possibly
Michigan Clean Marina Program	Federal sources/Private and other Sources-charged for workshop
Alabama-Mississippi Clean Marina Program	State sources
New Jersey Clean Marina Program	CZMA sec 310 funding (10yrs?)
Ohio Clean Marinas program (program is new)	Federal sources & state sources
Clean Marina Program San Diego	Private and other sources-total by marinas who wish to be certified from our organization at \$250/marina
Ontario marine Operators Clean Marine Eco-Rating	Federal sources, provincial, private and other sources-OMOA & members participating eco-rating
Tennessee Valley Authority Clean Marina Initiative	Private and other sources
Clean Texas Marina Program	Federal sources-unknown, State-unknown, Other-MAT-varied amounts
Virginia Clean Marina Program	Federal sources, local, private, state sources

Q12. Please rank and list the percentage of the program's most significant expenses?

Program Title	Response
Connecticut Clean Marina Program	*(This changes year to year based on the projects chosen) 1)personnel 2)other-guidebooks, training classes 3)recognition items-flags, plaques, etc.. 4) publicity-little cash necessary-press releases, website, etc.
Cumberland River Basin Clean Marina	1)personnel 80% 2)equipment 15% 3)publicity 5 %....we do not have money to spend on recognition items or extra equipment
Delaware Clean Marina Program	1)personnel 2)equipment-pumpout stations 3) recognition items-flags made, boater education cards, 2700 absorbent pads, flyers and brochures (not big expense since they have 1certified marina)

District of Columbia Clean Marina Program	1)personnel 2)other-contractor 3)equipment 4)recognition items 5)publicity
Coastal Georgia Clean Marina Program	1)personnel 94% 2)other-travel gas 5% 3)equipment 1%
Louisiana Clean Marina Program	1)personnel 95% 2) recognition items 2% 2)publicity 2% 3)equipment-computer already on desk
Maryland Clean Marina Initiative	1)personnel 50% 2)recognition items 30%-printing, events 3)publicity 10% 4) other 10% -free materials for boaters
Michigan Clean Marina Program	Equipment-guidebook
Alabama-Mississippi Clean Marina Program	1)personnel 40% 2)equipment 40% 3)recognition items 10% 4) publicity 10%....these are all different in the early part of the program vs. Established programs
New Jersey Clean Marina Program	1)personnel 2)other-program materials, workshops 3)recognition items (burgee, free "gifts" for participation 4)publicity. I cant give %s but personnel is the greatest cost. In the planning stage, the cost of the program materials is significant part including creation, design, and printing of the guidebook, cd-roms, brochures, fliers, etc. The workshops are a large % of costs as well. Publicity at this point is cheap/free as we are just highlighting the marinas and the program on the website and in press releases. Recognition items, we are currently designing a burgee.
Ohio Clean Marinas program (program is new)	1)personnel 90% 2)recognition items 5% 3)publicity 2% 4)equipment 2% 5)other-1% for supplies
Clean Marina Program San Diego	1)personnel 10% 2)recognition items 90%
Ontario marine Operators Clean Marine Eco-Rating	1)personnel 30% 2)other 70% envt. Certification eco-rating
Tennessee Valley Authority Clean Marina Initiative	1)personnel 50% 2)incentives 30% 3)recognition items 10% 4)equipment 3% 5)publicity 7%
Clean Texas Marina Program	1)personnel 70% 2)equipment 5% 3)recognition items 5% 4)publicity 0% 5)other 20%
Virginia Clean Marina Program	1)personnel 90% 2)other-travel 10%

Q13. Approximately how many hours of work per week are required to administer your program?

Program Title	Response
Connecticut Clean Marina Program	35
Cumberland River Basin Clean Marina	
Delaware Clean Marina Program	200-400 hours per year (funding is limited-more money, the program would be more effective)
District of Columbia Clean Marina Program	

Coastal Georgia Clean Marina Program	8hrs/week
Louisiana Clean Marina Program	10 hours
Maryland Clean Marina Initiative	60 +/-
Michigan Clean Marina Program	1/2 of FTE
Alabama-Mississippi Clean Marina Program	30 during development and 20 after that
New Jersey Clean Marina Program	We contracted part of the work to SeaGrant. He puts in about 15 hours a week, however that varies and may increase as more & more marinas join. I work about 15 hours per week on the program
Ohio Clean Marinas program (program is new)	40
Clean Marina Program San Diego	1
Ontario marine Operators Clean Marine Eco-Rating	30
Tennessee Valley Authority Clean Marina Initiative	30
Clean Texas Marina Program	20
Virginia Clean Marina Program	30-40

Q14. Approximately how many full-time and part-time staff are required to administer your program?

Program Title	Response
Connecticut Clean Marina Program	1ft,plus participation from other staff
Cumberland River Basin Clean Marina	9 part time on CRBCM
Delaware Clean Marina Program	1 and others devote their time, especially individual at DNREC (about 100 hrs)
District of Columbia Clean Marina Program	1
Coastal Georgia Clean Marina Program	0.20 full time
Louisiana Clean Marina Program	3
Maryland Clean Marina Initiative	1 full time, 1 part time
Michigan Clean Marina Program	none- 10 people
Alabama-Mississippi Clean Marina Program	2 pt
New Jersey Clean Marina Program	SeaGrant also hired a part time position to work on graphics, layouts, and design of all printed material

Ohio Clean Marinas program (program is new)	2
Clean Marina Program San Diego	1
Ontario marine Operators Clean Marine Eco-Rating	2p/t
Tennessee Valley Authority Clean Marina Initiative	7
Clean Texas Marina Program	1
Virginia Clean Marina Program	1 FTE

Q15. Who performs site inspections/assessments?

Program Title	Response
Connecticut Clean Marina Program	Environmental analyst/coastal planner
Cumberland River Basin Clean Marina	Envt. Protection Specialists at each project/lake
Delaware Clean Marina Program	Sea grant agent-ports & marine specialist, along with DNREC employees in the NPS program
District of Columbia Clean Marina Program	Envt. Specialists & marina operators
Coastal Georgia Clean Marina Program	EPD-state environmental agent
Louisiana Clean Marina Program	From Marina, CR specialist, water quality specialist
Maryland Clean Marina Initiative	Clean Marina Program coordinator and part time staff.
Michigan Clean Marina Program	May do it themselves or hire a retired marina operator
Alabama-Mississippi Clean Marina Program	CMP, regulatory agencies (state & fed) & other marina operators
New Jersey Clean Marina Program	A marina owner receives the guidebook & conducts a self-assessment of their facility. Points are awarded for the BMPs implemented at the facility. When the marina owner is confident that his facility can score at least 80%, he then requests a confirmation visit. A representative of the DEP Coastal Mngt. Office, the Bureau of Compliance & Enforcement, and the NJMSC must be present for the confirmation team visit. Up to 2 additional participants (members of the committee) can attend as well.
Ohio Clean Marinas program (program is new)	Sea grant agents
Clean Marina Program San Diego	Other-minimum of 3 from 3 competing marinas
Ontario marine Operators Clean Marine Eco-Rating	Private envt. Company
Tennessee Valley Authority Clean Marina	Water resources specialist

Initiative	
Clean Texas Marina Program	Water resources specialist, hazmat specialist, waste management specialist & business specialist
Virginia Clean Marina Program	MTAP rep

Q16. What benefits do participating marinas receive?

Program Title	Response
Connecticut Clean Marina Program	1) Publicity-Clean Marina flag & logo, press coverage/recognition 2) Technical Assistance-this is ongoing throughout certification process
Cumberland River Basin Clean Marina	1) Publicity 2) Regulatory 3) Technical assistance
Delaware Clean Marina Program	Flag, certificate, newsletter (working on website to help promote recognition), pumpout funding assistance, guidebook, spill kits & laminate card
District of Columbia Clean Marina Program	1) Publicity 2) Regulatory 3) Technical assistance
Coastal Georgia Clean Marina Program	1) Publicity 2) Regulatory 3) Technical assistance
Louisiana Clean Marina Program	1) Publicity-web-link to their website (improving webpage) & promote them 2) regulatory-asst. W/ question, CZ permits...building & modified measures 3) technical assistance
Maryland Clean Marina Initiative	1) Publicity- Annual award ceremony, certificate signed by gov., flag, press releases, web presence 2) technical assistance-confidential compliance asst. (Maryland is set up differently than some other states-we have 2 separate environmental agencies 1) MD. Dept. Of the Env't. Is regulatory, issues permits, and is legally responsible for water quality in MD. MD Clean Marina Program is <u>Not</u> housed there. 2) MD. Dept. Of Natural Resources-education and conservation oriented w/no enforcement capacity over marinas. This is where Clean Marina Program is housed. We will provide confidential compliance assistance to marinas and MDE is informed before every marina is "certified" to check for any violations etc.
Michigan Clean Marina Program	Publicity-Marketing, advertising & press release, media events, CM logo & flag
Alabama-Mississippi Clean Marina Program	1) Publicity-through local & state media, CMP presentations/displays, agency publications, websites 2) Regulatory-regulatory agencies are aware of the program and work closely with us and the marinas. 3) technical assistance-from CMP and partnering agencies 4) other-longterm income benefits from various marina sources (we hope! We are still a young program)
New Jersey Clean Marina Program	1) Publicity: the names of all pledged and certified marinas appears on the program website and also in press releases & other future publications. 2) Regulatory: all certified marinas must be in full compliance w/all applicable state & fed. Regulations. The NJDEP will provide advice & assistance to marinas as necessary to help

	bring the marinas into compliance. Our guidebook includes a description or at least a reference to many of the regulations was thoroughly reviewed for accuracy. 3) Technical Assistance: The NJMSC & the NJDEP are willing to work one on one w/ marina owners to help identify which BMPs are most appropriate at his/her facility. We are also offering workshops to present info on BMPs & other topics such as safety, etc. 4) Other-NJMSC & NJDEP are currently considering numerous 'perks' & give-aways & other incentives for pledged & certified marinas. These include fuel spill clean-up kits, stormdrain markers/stencils, boater education cards, and a burgee to display at all certified marinas.
Ohio Clean Marinas program (program is new)	1)Publicity-burgee/new release 2) technical assistance
Clean Marina Program San Diego	1)Publicity-marinas may use logo and right to be listed as "Clean Marina" 2)Regulatory-Manual lists all regulations that apply 3)technical assistance-assistance from marina dockmasters to help each other with technical issues to become CM
Ontario marine Operators Clean Marine Eco-Rating	1)Publicity 2)technical assistance 3)insurance discount on envt. Liability
Tennessee Valley Authority Clean Marina Initiative	1)Publicity-newspaper articles, publicity in TVA newsletters and websites 2)regulatory-support for MSD inspections, assistance with addressing regulatory issues at marina 3)technical assistance-help address stormwater issues, revegetation of shoreline, flow issues, location of resources 4)other-provide sample non-toxic boat cleaning & maintenance, spill supplies to try and evaluate, clean boating events
Clean Texas Marina Program	1)Publicity- Free marina rec, support, revenue from new boaters, cost & savings, morale. 2)Regulatory- TCEQ gives some exemptions for CMs & help getting permits 3) Technical Assistance-TCEQ & Sea Grant & TPWD gives education & technical assistance 4)Other- less mess from boaters, increased revenue, better boater effort & less costs
Virginia Clean Marina Program	1)Publicity 2)Technical assistance 3)Other

Q17-19

Program Title	Q17. # Of marinas in area where the program is being implemented	Q18. # of marinas currently participating in the program	Q19. # of marinas that have been "certified"
Connecticut Clean Marina Program	About 300-350	32	5
Cumberland River Basin Clean Marina	60	7	1
Delaware Clean Marina Program	86	20	1 (4-5 are close to

			getting approved, waiting on state)
District of Columbia Clean Marina Program	15	10	5
Coastal Georgia Clean Marina Program	225	2	2
Louisiana Clean Marina Program	About 100		2
Maryland Clean Marina Initiative	About 600	83	107
Michigan Clean Marina Program	700	40	0
Alabama-Mississippi Clean Marina Program	About 400-450	About 30	6
New Jersey Clean Marina Program	540	18	0
Ohio Clean Marinas program (program is new)	300+	20	0
Clean Marina Program San Diego	45	20	20
Ontario marine Operators Clean Marine Eco-Rating	600	350	220
Tennessee Valley Authority Clean Marina Initiative	125	63	46
Clean Texas Marina Program	350+	25%	51
Virginia Clean Marina Program	300	51	22

Q20. Do you have a monitoring or tracking of pollutant reduction program?

Program Title	Response
Connecticut Clean Marina Program	No
Cumberland River Basin Clean Marina	No
Delaware Clean Marina Program	No, but have pumpout station data to monitor improvements after installation.
District of Columbia Clean Marina Program	Yes-the checklist contained with guidebook addresses this subject matter and is part of the program requirement to address nonpoint source pollution
Coastal Georgia Clean Marina Program	No
Louisiana Clean Marina Program	Had one under non point
Maryland Clean Marina Initiative	No

Michigan Clean Marina Program	Marinas must be recertified every 3 years. Will be able to tell if they have incorporated new practices. Some marinas may get the guidebook & do nothing further w/the program however, they may use some suggestions from guidebook and still benefit.
Alabama-Mississippi Clean Marina Program	Yes-state waters are monitored by regulatory agencies. The program is only in its second year, so no reductions due to marina participation can be quantified.
New Jersey Clean Marina Program	No-the program has only been in place for 4 months. However, even after more time, it would be very difficult to attribute changes in water quality to the CMP and there are so many varied sources of NPS pollution, and NJ is implementing many water quality improvement programs & initiatives at this time. I have heard the National SeaGrant might be undertaking some kind of research into this.
Ohio Clean Marinas program (program is new)	No
Clean Marina Program San Diego	No-we leave that up to the regulatory agencies and environmental agencies.
Ontario marine Operators Clean Marine Eco-Rating	Yes, we monitor reduction & recycling of waste (hazardous & non) & industry-wide increase in envt. Products sold. We do not monitor water quality as part of the program
Tennessee Valley Authority Clean Marina Initiative	Yes-track marine sewage before and after CMI certification that is being hauled to SWTs reports of violations, complaints, Reductions in untreated sewage being released to the reservoirs is significant.
Clean Texas Marina Program	Yes, less solid waste problems, more recycling, better prepared stormwater planning & oil & gas spillage, more boaters involved in program through pledge. Less problems w/boat cleaning & better mps.
Virginia Clean Marina Program	No

Q21. What are some of the past and current problems or concerns to implementation of your program?

Program Title	Response
Connecticut Clean Marina Program	Since certification is based on operational standards greater than regulatory compliance, one of the hurdles, unfortunately, is actually getting marinas to baseline envt. Compliance. We've held workshops on envt. Compliance, provide the information in the cm guidebook, and provide ongoing technical asst. To help marinas achieve compliance
Cumberland River Basin Clean Marina	Funding, personnel, time, participation by marinas, etc. Our program is voluntary. Without funding for recognition items or equipment, marina participation is low.
Delaware Clean Marina Program	Apathy of many operators, no one cracking down on regulation, lack of funding to support fulltime CMP & equipment

District of Columbia Clean Marina Program	Maintaining interest in the program; getting commitment from non-members & encourage continued work efforts towards achieving compliance and beyond-key to achieving clean marina status
Coastal Georgia Clean Marina Program	Marinas just do not take the time to get involved- they want to, but just never find the time to implement.
Louisiana Clean Marina Program	Funding to keep it going. Continuing to get more marinas to sign up
Maryland Clean Marina Initiative	Reaching boaters, changing their habits. Earning respect of marina operators. Involve them in develop, and have them review things before finalizing. Have program staff w/boating or marina experience and excellent communication. Skills. Private business fearful of govt. Coming in to "inspect".
Michigan Clean Marina Program	Benefited by talking to other programs. Regulatory programs haven't set up proper implementation programs "gray area".
Alabama-Mississippi Clean Marina Program	Funding and long term support
New Jersey Clean Marina Program	This is peak boating season & marina owners are very busy. Only a small # of those that have signed have had the time to complete the self-assessment checklist. However, as the season draws to a close and marina activities slow for the winter months. We hope that more marina owners will have time to complete the process.
Ohio Clean Marinas program (program is new)	Fear of regulation
Clean Marina Program San Diego	We have no real problems implementing the program as this is a program initiated by our marina industry and managed by our industry on the premise that competing marinas will be the toughest judges to certify another marina
Ontario marine Operators Clean Marine Eco-Rating	Lack of money-the 1st 200 marinas participated because it was the right thing to do. It is harder to convince the rest.
Tennessee Valley Authority Clean Marina Initiative	Gaining owner/manager commitment to attaining certification, changing erroneous perceptions of managers and the boating public about pollution and its impacts; staying abreast of changes in regulation requirements and communicate them
Clean Texas Marina Program	Need to get industry involved early to be successful. Mat provides incentives to their members to participate. Getting marinas to volunteer to do what is required by program
Virginia Clean Marina Program	Time/availability of small businesses i.e. Marinas

Q22. Do you have any recommendations or comments for the development of Clean Marina Programs and their future steps?

Program Title	Response
Connecticut Clean Marina Program	Involve industry early-we did and were able to create a product better suited to the stated needs of the industry (which incidentally wasn't how we had originally planned on running the program)

Cumberland River Basin Clean Marina	Be enthusiastic about the program. Partner with organizations that can provide funding and support.
Delaware Clean Marina Program	Try to engage industry from the start
District of Columbia Clean Marina Program	Buy in and support from upper management and regulators
Coastal Georgia Clean Marina Program	Make permit renewal or new permit issuing contingent on being certified as a "clean marina".
Louisiana Clean Marina Program	Most people are interested-setting a high bar for marinas envt. Stewardship, comfort level for marinas. If one joins others might-concerned about image (if Peters is cleaner, I'll go there). Get message out-if they don't join, regulation will have to be enforced
Maryland Clean Marina Initiative	Actively involve industry leaders in development. Include boating groups too (i.e. Boat u.s. Found) keep programs at state or regional scale so they are manageable & useful. Don't recommend Nat'l level certif. As it would be bureaucratic and watered down. Develop a database to manage your info & track progress.
Michigan Clean Marina Program	Boating industry has an important voice. Must be comfortable w/partner. No not let program fall into regulatory program. Find a champion in the boating industry/find leader that will buy into situation and the rest will follow
Alabama-Mississippi Clean Marina Program	National cooperation between the many clean marina programs across the nation or at least regional cooperation
New Jersey Clean Marina Program	Please call
Ohio Clean Marinas program (program is new)	Develop good incentive programs. Make sure review team can interpret regulations
Clean Marina Program San Diego	Stay away from developing a program that is not developed by the stakeholders. Don't worry about the "fox guarding the hen house" because in a competitive arena, marina managers and dockmasters will insure that their competitors must pass the program just as they have had to pass it
Ontario marine Operators Clean Marine Eco-Rating	Best wishes!
Tennessee Valley Authority Clean Marina Initiative	Know your audience, plan carefully and include practices most needed in your watersheds. Devote the human resources and dedicated funding really needed to implement a successful program. Include a strong boater education component.
Clean Texas Marina Program	See previous...get industry involved and have an independent nonregulatory agency in charge
Virginia Clean Marina Program	Public/private partnerships housed in non-regulatory entity.

Program Title	Website
Connecticut Clean Marina Program	http://dep.state.ct.us/olisp/cleanmarina/
Cumberland River Basin Clean Marina	http://www.lrn.usace.army.mil/CleanMarinas/
Delaware Clean Marina Program	http://www.dnrec.state.de.us/dnrec2000/divisions/soil/dcmp/ipcleanmarina.htm
District of Columbia Clean Marina Program	Under construction.
Coastal Georgia Clean Marina Program	http://www.uga.edu/cleanmarina/
Louisiana Clean Marina Program	http://dnr.louisiana.gov/crm/coastmgt/interagencyaff/nonpoint/marina_cleanmarina.asp
Maryland Clean Marina Initiative	http://www.dnr.state.md.us/boating/cleanmarina
Michigan Clean Marina Program	http://www.michigan.gov/deq/0,1607,7-135-3585_4129_4186-8907--,00.html
Alabama-Mississippi Clean Marina Program	http://www.masgc.org/cleanmarinas/main.html
New Jersey Clean Marina Program	http://www.state.nj.us/dep/njcleanmarina/
Ohio Clean Marinas program (program is new)	http://www.sg.ohio-state.edu/cleanmarina/
Clean Marina Program San Diego	web link formerly housed at http://www.cleanmarinaprogramsd.org , program has moved statewide: http://cleanmarinasocalifornia.org/
Ontario marine Operators Clean Marine Eco-Rating	http://www.omoa.com/clean_marine_faq.asp
Tennessee Valley Authority Clean Marina Initiative	http://www.tva.gov/environment/water/boating.htm
Clean Texas Marina Program	http://www.cleanmarinas.org/
Virginia Clean Marina Program	http://www.vims.edu/adv/cleanmarina/