## California State Parks Division of Boating and Waterways Commission

Regular Meeting
November 9, 2016
Sacramento, California





### California State Parks Division of Boating and Waterways





David O. Livingston Chair 2013-2017 Contra Costa



Randy Short Vice Chair 2014-2019 Bishop



Douglas W. Metz Member 2006-2020 Coronado



Frank Peralta Member 2012-2020 Bonita



Virginia Madueño Member 2013-2017 Riverbank



Member 2014-2018 Sacramento



Cecily Harris Member 2015-2018 San Carlos

#### **Boating and Waterway Commission**





#### **Current Transformation Efforts**

- Impact over process
- Service over competition
- Adapt for changing needs



### By the Numbers...

### California Boating:

775,000 Registered Vessels

3,000,000 Paddlecraft

1,400 Marinas/Facilities

### California Waterways:

1,100 Miles of Coast

3,000 Lakes and Reservoirs

190,000 Miles of Rivers





\*Economic Impact does not include Paddlecraft





2015/16 DBW Budget \$75,582,000

#### **DBW Funding**

- Fuel Tax
- Vessel Registration
- Quagga Mussel Sticker Fees
- Loan Repayments/Interest
- Sport Fish Restoration and Boating Federal Trust Fund





#### Statistic-based Work

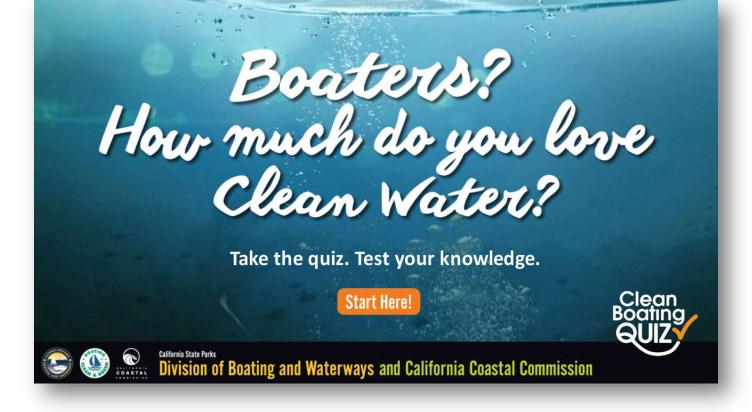
- Updating Boating Needs Assessment
- Analyzing accident reports
- Examine industry studies
- Identify marketing surveys
- Deliver where facilities are needed
- Determine funding sources
- Identify local and underserved areas
- Elevate strategic partnerships
- Prioritize projects





### Preserving Our Waterways for Generations to Come





### DBW Clean and Green Programs Built of Strong Partnerships





### The Clean Vessel Act Helps Keep Sewage Out of Our Waterways





### Control and Management of Aquatic Invasive Species





### Dressinid Mussel Infestation Prevention Efforts Growing





# Surrendered and Abandoned Vessel Exchange Promotes Inter-Agency Communication





### Building Our Boating Infrastructure





### Public and Private Marina Loans Good for DBW and the Public





### Local Assistance for Public Boat Launching Facilities





### Soil Erosion Control Vital to Coastline and Facilities





### Yacht and Ship Licensing Protects Boaters





### For-Hire Licensure Adds to Consumer Protection





# Enhancing Boater Safety through Education, Outreach and Enforcement





# Life Jacket Trade-ins, Loan Stations, Schools and Media Outreach Directly Save Lives





### Law Enforcement Training and Grant Programs Promote Safety





### Mandatory Boater Education in Place to Begin January 2018





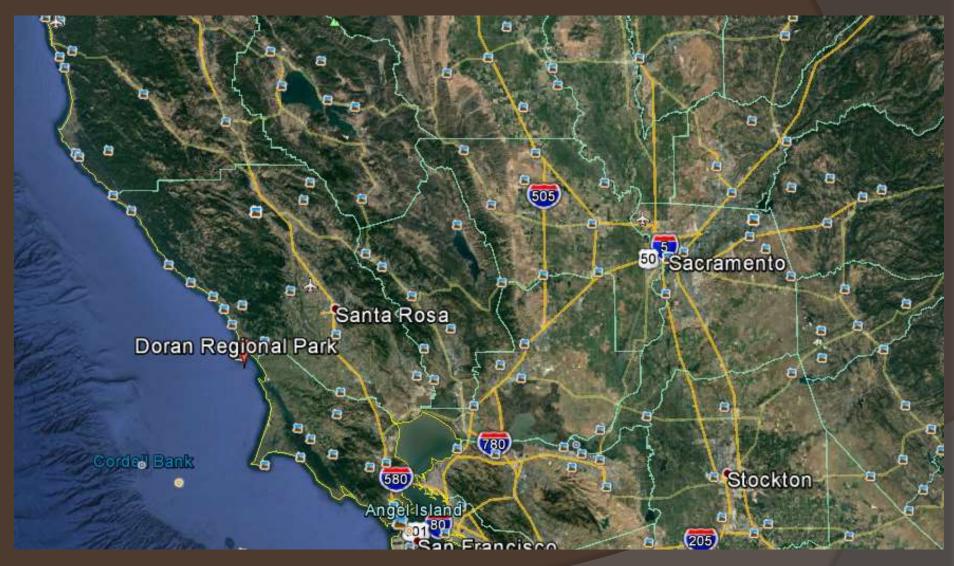
For information about DBW grants, loans and program details visit:

www.BoatCalifornia.com
Thank you!

pubinfo@parks.ca.gov



1-888-326-2822



County of Sonoma

Proposed Grant: \$990,000



County of Sonoma

Proposed Grant: \$990,000

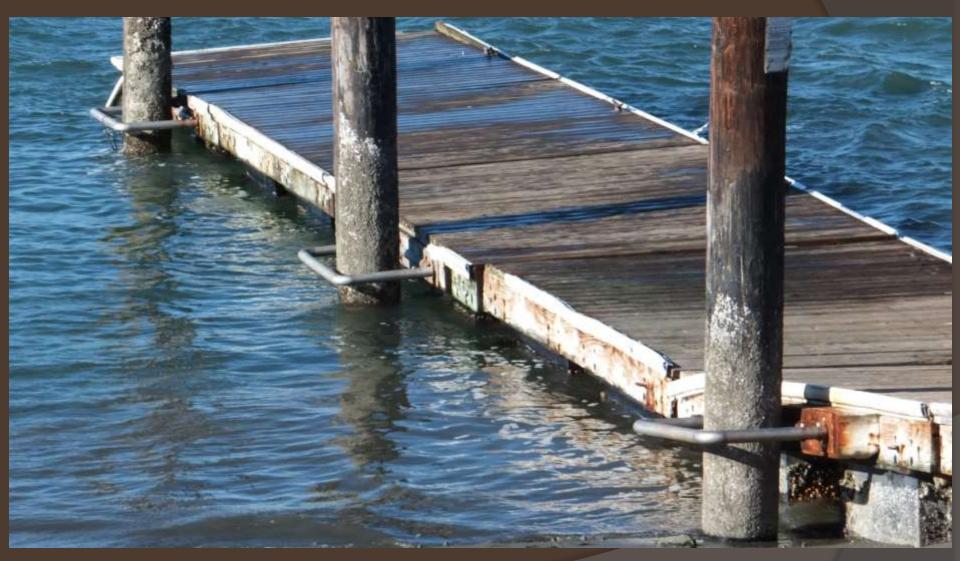


County of Sonoma Proposed Grant: \$990,000



Single-Lane Boat Launch Ramp





Pile-Guided Boarding Floats



Parking Area



Boat Wash Area with Overflow Parking in the Background



Fish Cleaning Station

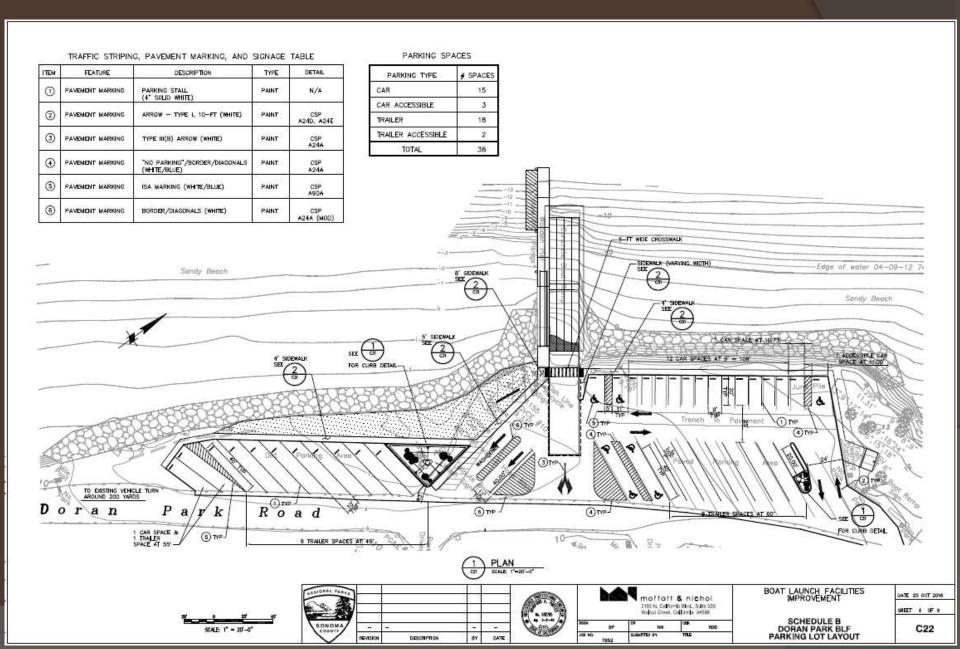


Table 1: Doran Park BLF Project Cost Estimate	
CONSTRUCTION SCOPE	COST ESTIMATE
Mobilization	\$ 127,000
Dem olition	42,300
Boat Launch Ramp	151,897
Concrete Ramp Apron	26,600
Pile-Guided Boarding Floats and Gangway	138,610
Parking Area	83,923
Boat Wash Area	16,200
Accessible Pathways	47,610
Fish Cleaning Station	27,400
Site Utilities and Landscaping	43,360
Project Signage	5,000
Construction Subtotal	\$ 709,900
NON-CONSTRUCTION COSTS	
Biological Monitoring and Mitigation	65,000
Escalation 2.3%	16,328
Contingency 10%	70,990
Engineering 10%	70,990
Inspection 5%	35,495
Permits 3%	21,297
Non-Construction Subtotal	\$ 280,100
TOTAL ESTIMATED PROJECT COST	\$ 990,000
Source = County Engineer's Cost Estimate dated 9/22/16	
*Percentages are of the Construction Subtotal	
*2.3% per year for 1 year = 2.3% escalation	

### DORAN PARK BOAT LAUNCHING FACILITY

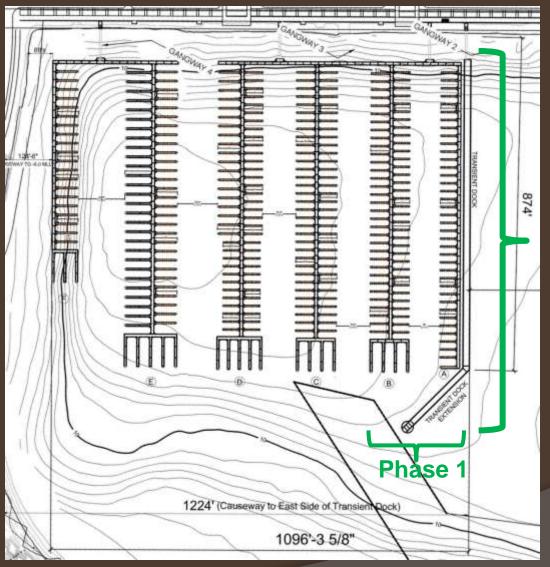
DBW seeks the Commission's advice and comment on this proposed \$990,000 Harbors and Watercraft Revolving Fund planning and construction grant to the County of Sonoma for the Doran Park Boat Launching Facility improvements described in this November 9, 2016 Feasibility Report.



Treasure Island Enterprises
Proposed Recreational Marina Loan:\$4,200,000



**Existing Condition** 

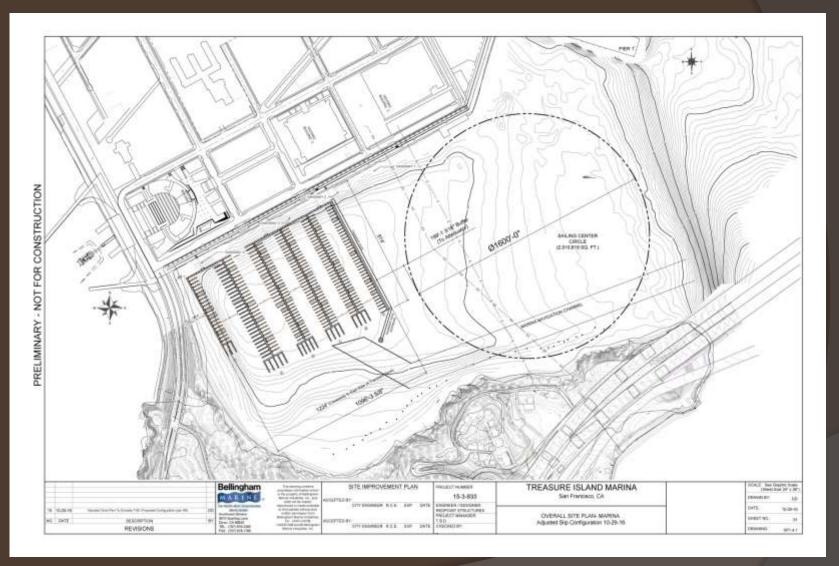


Proposed Revised Treasure Island Marina Site Plan

Phase 1

Table 1: P	hase 1 Development
<u>Slips</u>	<u>Length (feet)</u>
6	40
66	45
34	50
<u>3</u>	80
109	

**Source:** Treasure Island Financial Model 10/31/16



## Dredging:

- Basin and entrance channel \$2.6 million
- Maintenance
  - 1. TIE's 12/17/15 estimate, \$374,000 annually
  - 2. San Francisco Marina West entrance channel \$500,000 annually
  - Climate Change (changes in wave patterns and siltation)
  - 4. Other loans include maintenance dredging as part of ongoing operational expenses
  - 5. Two other loans in the bay area have defaulted due to siltation

#### TABLE 3: TREASURE ISLAND MARINA CASH FLOW PROJECTIONS AND DEBT COVERAGE RATIO CY 2015 THROUGH CY 2039 (Figures in Thousands)

Phase 1

partial

Phase 1

after

Construction. First full year

490

304

160

144

1.62

1.90

822

222

320

1.27

0.69

201

320

(119)

1.23

0.63

	submittal	Assumption	Assumption of	ccupancy c	Assumes 2% per year increase in revenue																				
T	Actual	Budget	Budget																						
REVENUES	<u>2015</u>	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
Berths - Regular (1)	301	301	348	686	880	907	1,073	1,184	1,338	1,453	1,449	1,512	1,542	1,573	1,605	1,637	1,669	1,703	1,737	1,772	1,807	1,843	1,880	1,918	1,950
Berths - Guest Revenue (2)	9	9	9	10	16	16	17	17	17	18	18	18	19	19	20	20	20	21	21	22	22	22	23	23	2
Berths - Liveaboards (3)	0	0	0	24	42	43	44	45	45	46	47	48	49	50	51	52	53	54	55	57	58	59	60	61	62
Transient Dock (2)	0	0	0	39	51	52	53	54	55	56	57	59	60	61	62	63	65	66	67	69	70	71	73	74	76
Dry Storage - Dinghy (2)	<u>0</u>	_ 0	<u>0</u>	<u>0</u>	<u>1</u>	1	<u>1</u>	1	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	1	<u>1</u>	1	1	1	<u>1</u>	1	<u>1</u>	<u>1</u>	<u>1</u>	
Subtotal: Slip Rent/Dry Storage	310	310	357	759	990	1,019	1,187	1,301	1,457	1,574	1,573	1,638	1,671	1,705	1,739	1,773	1,809	1,845	1,882	1,920	1,958	1,997	2,037	2,078	2,119
Laundry/Vending (2)	0	0	0	6	6	6	6	6	7	7	7	7	7	7	7	8	8	8	8	8	8	9	9	9	9
Electricity (2)	4	0	Q	<u>29</u>	<u>48</u>	49	<u>50</u>	<u>51</u>	<u>52</u>	<u>53</u>	<u>54</u>	<u>55</u>	<u>56</u>	<u>57</u>	<u>59</u>	60	<u>61</u>	62	63	65	66	<u>67</u>	<u>6</u> 9	<u>70</u>	7
Subtotal: Ad'l Revenue	4	0	0	35	54	<u>49</u> <b>55</b>	56	<u>51</u> <b>57</b>	59	<u>53</u> <b>60</b>	61	<u>55</u> <b>62</b>	63	65	<u>59</u> <b>66</b>	<u>60</u> <b>67</b>	69	<u>62</u> <b>70</b>	<u>63</u> <b>71</b>	73	<u>66</u> <b>74</b>	76	<u>69</u> <b>77</b>	79	80
TOTAL REVENUE	314	310	357	794	1,044	1,074	1,244	1,358	1,516	1,634	1,634	1,701	1,735	1,769	1,805	1,841	1,878	1,915	1,953	1,992	2,032	2,073	2,114	2,157	2,200
EXPENSES (per proforma except where not	ed) adjusted t	for Phase 1 de	evelopment only																						j
Rent (per Ground Lease) (4)	90	90	90	90	90	90	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	G
Percentage Rent (5)	0	0	0	0	0	0	0	136	152	163	163	170	260	265	271	276	282	287	293	299	305	311	317	324	330
Salaries & Fringes	66	62	62	74	125	128	130	133	135	138	141	144	146	149	152	155	159	162	165	168	172	175	179	182	186
Insurance/Acct'g/Legal	15	15	15	66	84	86	87	89	91	93	95	96	98	100	102	104	107	109	111	113	115	118	120	122	125
Direct Operating Expenses (6)	40	43	43	132	200	204	208	212	216	221	225	230	234	239	244	249	254	259	264	269	275	280	286	291	297
Common Area Charge (triple net)	3	3	3	2	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6
Credit to Rent (7)	0	0	0	0	0	0	(100)	(100)	(100)	(100)	(100)	(100)	(200)	(200)	(200)	(200)	(200)	(200)	(200)	(200)	(200)	(200)	(100)	0	G
Office to Rent	12	12	12	39	59	71	72	74	75	77	79	80	82	83	85	87	88	90	92	94	96	98	100	102	104
Posessory/Property Tax	5	5	5	5	129	157	160	163	167	170	173	177	180	184	188	191	195	199	203	207	211	216	220	224	229
Utilities	4	4	4	30	51	52	53	54	55	56	57	59	60	61	62	63	65	66	67	69	70	71	73	74	76
Overhead /Management/Almar	47	47	47	36	59	60	61	63	64	65	66	68	69	71	72	73	75	76	78	79	81	83	84	86	88
Maintenance Dredging Reserve (8)	0	0	0	0	0	0	0	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150

1,040

476

320

156

1.46

1.49

1,070

564

320

244

1.53

1.76

1,087

547

320

227

1.50

1.71

35

615

320

295

1.55

1.92

1,143

626

320

306

1.55

1.96

1,167

638

320

318

1.55

1.99

1,191

649

320

329

1.55

2.03

1,216

661

320

341

1.54

2.07

1,241

674

320

354

1.54

2.11

1,267

686

320

366

1.54

2.14

1,294

699

320

379

1.54

2.18

1,320

712

320

392

1,348

725

320

405

2.27

1,476

639

320

319

2.00

1.604

552

320

232

1,120

1,112

589

320

269

1.53

1.84

#### **DEBT SERVICE COVERAGE RATIO, minimum 1.25**

NET INCOME

DBW reg'd maintenance reserve (9)

Less: DBW DEBT SERVICE (\$4.2 MILLION LOAN, 4.5 % INTEREST RATE, 20 YEAR

DBW INCOME/EXPENSE RATIO (min. 1.2:1 reg'd)

Subtotal Operating Expenses:

Less: Ad'I DEBT SERVICE (10)

NET OPERATING INCOME

1 Revenue projections submitted by TIE vary between TIE's financial models. Therefore, revenue as shown is combination of data from existing rent roll (submitted Oct, 2016) increasing annually by 2% and assuming sustained occupancy on existing slips plus revenue from new slips per occupancy and lineal footage assumptions provided by TIE in October proforma. Construction occuring 2018 with first full year of occupancy in 2019.

791 1,005

453

320

133

1.57

1.41

353

320

33

1.35

1.10

- 2 Future revenue estimated by TIE, graduating 2% annually after 2019 (the first full year after construction). 3 Liveabord assumes 17 liveaboards, occupancy of 90%, monthly surcharge of \$229.5 ea/mo, in 2019, increaseing 2% annually thereafter
- 4 Rent, proforma states 75,000. Per TIDA 10/26/16 current rate is \$90,000 but this is subject to change.

29

0

29

76

0

76

Data from

5/12/16

- 5 Percentage Rent in 2022, Rent increases to 10% gross revenue and in 2027 the percentage rent increases to 15%
- 6 Direct operating expenses are Contractor Expenses less salary, payroll tax and ins.
- 7 Credit to rent This credit has not yet been negotiated with TIDA. This line item is an assumption.
- 8 Maintenance Dredge Reserve estimated \$150,000 payment to begin the third year (2022) after construction dredging is complete (2019)
- 9 DBW Maintenance Reserve per Exhibit A, Art. 2, Definition Q. of the Loan Agreement. 10 Ad'l Debt Service - none yet identified
- 11 Revisions from 10/12 expenses: increase in salaries and fringe by \$21,977, decrease in posessory interest tax by \$26,875

### Trancura Island Marina

			111	casur	e isianu ivid	illia
				TAE	BLE 3: TREASURE ISLAND MARINA	
				CASH FLOW F	PROJECTIONS AND DEBT COVERAGE RATIO	
					CY 2015 THROUGH CY 2039	
					(Figures in Thousands)	
			Phase 1	Phase 1		
Data from			Construction,	First full year		
5/12/16			partial	after		
submittal	Assumption	Assumption	occupancy	construction		Assumes 2% per year inc
Actual	Dudget	Dudget				

1.62

1.90

Ω

1.27

0.69

1.044

(100)

(119)

1.23

0.63

1.074

1.57

1.41

1 Revenue projections submitted by TIE vary between TIE's financial models. Therefore, revenue as shown is combination of data from existing rent roll (submitted Oct, 2016) increasing annually by 2% and assuming sustained occupancy on existing slips

1.244

							CY 2	015 THR	OUGH C	Y 2039													
							(F	igures in	Thousa	nds)													
				Phase 1	Phase 1																		
	Data from			Construction	First full year																		
	5/12/16			partial	after																		
	submittal	Assumption	Assumption	occupancy	construction								Assumes	2% per y	ear incre	ease in re	evenue						
	Actual	Budget	Budget																				
REVENUES	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	203
Berths - Regular (1)	301	301	348	686	880	907	1,073	1,184	1,338	1,453	1,449	1,512	1,542	1,573	1,605	1,637	1,669	1,703	1,737	1,772	1,807	1,843	1,88
Berths - Guest Revenue (2)	9	9	9	10	16	16	17	17	17	18	18	18	19	19	20	20	20	21	21	22	22	22	2
Berths - Liveaboards (3)	0	0	0	24	42	43	44	45	45	46	47	48	49	50	51	52	53	54	55	57	58	59	f
Transient Dock (2)	0	0	0	39	51	52	53	54	55	56	57	59	60	61	62	63	65	66	67	69	70	71	7
Dry Storage - Dinghy (2)	<u>0</u>	<u>0</u>	0	0	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	1	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	
Subtotal: Slip Rent/Dry Storage	310	310	357	759	990	1,019	1,187	1,301	1,457	1,574	1,573	1,638	1,671	1,705	1,739	1,773	1,809	1,845	1,882	1,920	1,958	1,997	2,03

REVENUES	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
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Laundry/Vending (2)	0	0	0	6	6	6	6	6	7	7	7	7	7	7	7	8	8	8	8	8	8	9	9

(100)

1,005

1.35

1.10

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(100)

1,040

1.46

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1.516

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Ω

(100)

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2.00

1,918

2.078

Ω

1,604

1.34

1.73

1,633

2.157

1,956 

2.200

1.35

1.77

2,119

3 Liveabord assumes 17 liveaboards, occupancy of 90%, monthly surcharge of \$229.5 ea/mo. in 2019, increaseing 2% annually thereafter 4 Rent, proforma states 75,000. Per TIDA 10/26/16 current rate is \$90,000 but this is subject to change.

plus revenue from new slips per occupancy and lineal footage assumptions provided by TIE in October proforma. Construction occuring 2018 with first full year of occupancy in 2019.

7 Credit to rent - This credit has not yet been negotiated with TIDA. This line item is an assumption. 8 Maintenance Dredge Reserve - estimated \$150,000 payment to begin the third year (2022) after construction dredging is complete (2019)

5 Percentage Rent - in 2022, Rent increases to 10% gross revenue and in 2027 the percentage rent increases to 15%

n

Ω

2 Future revenue estimated by TIE, graduating 2% annually after 2019 (the first full year after construction).

6 Direct operating expenses are Contractor Expenses less salary, payroll tax and ins.

EXPENSES (per proforma except where noted) adjusted for Phase 1 development only

Electricity (2)

TOTAL REVENUES

Subtotal: Ad'I Revenue

Rent (per Ground Lease) (4)

Direct Operating Expenses (6)

Overhead /Management/Almar

Maintenance Dredging Reserve (8)

DBW reg'd maintenance reserve (9)

Less: DBW DEBT SERVICE (\$4.2 MILLION LOAN, 4.5 % INTEREST RATE, 20 YEAR

DBW INCOME/EXPENSE RATIO (min. 1.2:1 reg'd)

DEBT SERVICE COVERAGE RATIO, minimum 1.25

Common Area Charge (triple net)

Percentage Rent (5)

Insurance/Acct'g/Legal

Posessory/Property Tax

Subtotal Operating Expenses:

NET OPERATING INCOME

Less: Ad'I DEBT SERVICE (10)

Salaries & Fringe

Credit to Rent (7)

Office to Rent

Utilities

NET INCOME

9 DBW Maintenance Reserve per Exhibit A, Art. 2, Definition Q. of the Loan Agreement. 10 Ad'l Debt Service - none yet identified 11 Revisions from 10/12 expenses: increase in salaries and fringe by \$21,977, decrease in posessory interest tax by \$26,875

TABLE 3: TREASURE ISLAND MARINA CASH FLOW PROJECTIONS AND DEBT COVERAGE RATIO

> **CY 2015 THROUGH CY 2039** (Figures in Thousands)

(200)

1.54

2.14

1.267

1,953

1.772

(200)

1.54

2.18

1.294

1,992

1,920

1.807

(200)

1.54

2.22

1.320

2,032

1,958

1.843

(200)

1.348

1.54

2.27

1,997

1.880

(100)

1.476

1.43

2.00

2,037

1.918

1.604

1.34

1.73

2,157

2,078

1.956

2,200

1.35

1.633

2,119

	Data from 5/12/16			Construction, partial	First full year after														
	submittal	Assumption	Assumption	occupancy	construction								Assumes	2% per	year incre	ease in re	venue		
	_ Actual	Budget	Budget																
REVENUES	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
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Berths - Liveaboards (3)	0	0	0	24	42	43	44	45	45	46	47	48	49	50	51	52	53	54	55
Transient Dock (2)	0	0	0	39	51	52	53	54	55	56	57	59	60	61	62	63	65	66	67
Dry Storage - Dinghy (2)	<u>0</u>	_ 0	<u>0</u>	<u>0</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
Subtotal: Slip Rent/Dry Storage	310	310	357	759	990	1,019	1,187	1,301	1,457	1,574	1,573	1,638	1,671	1,705	1,739	1,773	1,809	1,845	1,882
Laundry/Vending (2)	0	0	0	6	6	6	6	6	7	7	7	7	7	7	7	8	8	8	8
Electricity (2)	<u>4</u>	<u>0</u>	<u>0</u>	29	48	49	50	51	52	53	54	<u>55</u>	<u>56</u>	57	<u>59</u>	60	<u>61</u>	62	63
Subtotal: Ad'I Revenue	4	0	0	35	54	55	56	57	59	60	61	62	63	65	66	67	69	70	71

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1.27

0.69

(100)

1.23

1.005

1.57

1.41

Phase 1

Phase 1

IET OPERATING INCOME	32	29	76	304	222	201	453	353	476	564	547	589	615	626	638	649	661	674	686	699	712	725
Less: DBW DEBT SERVICE (\$4.2 MILLION LOAN, 4.5 % INTEREST RATE, 20 YEAR ess: Ad'I DEBT SERVICE (10)		0	0	160	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320
IET INCOME	32	29	76	144	(98)	(119)	133	33	156	244	227	269	295	306	318	329	341	354	366	379	392	405

1,358

(100)

1.10

(100)

1.49

1.040

(100)

1.53

1.76

1.070

1,634

(100)

1.50

1.71

1.087

1,701

(100)

1.53

1.84

1.112

1,735

(200)

1.55

1.92

1.120

1,769

(200)

1.55

1.96

1.143

1,805

(200)

1.55

1.99

1.167

1,841

(200)

1.55

2.03

1.191

1,878

(200)

1.54

2.07

1.216

1,915

(200)

2.11

1.241

1 Revenue projections submitted by TIE vary between TIE's financial models. Therefore, revenue as shown is combination of data from existing rent roll (submitted Oct, 2016) increasing annually by 2% and assuming sustained occupancy on existing slips plus revenue from new slips per occupancy and lineal footage assumptions provided by TIE in October proforma. Construction occuring 2018 with first full year of occupancy in 2019. 2 Future revenue estimated by TIE, graduating 2% annually after 2019 (the first full year after construction).

- 3 Liveabord assumes 17 liveaboards, occupancy of 90%, monthly surcharge of \$229.5 ea/mo. in 2019, increaseing 2% annually thereafter 4 Rent, proforma states 75,000. Per TIDA 10/26/16 current rate is \$90,000 but this is subject to change.
- 5 Percentage Rent in 2022, Rent increases to 10% gross revenue and in 2027 the percentage rent increases to 15%
- 6 Direct operating expenses are Contractor Expenses less salary, payroll tax and ins.
- 7 Credit to rent This credit has not yet been negotiated with TIDA. This line item is an assumption.

TOTAL REVENUES

Rent (per Ground Lease) (4)

Direct Operating Expenses (6)

Overhead /Management/Almar

Maintenance Dredging Reserve (8)

DBW reg'd maintenance reserve (9)

DBW INCOME/EXPENSE RATIO (min. 1.2:1 reg'd)

DEBT SERVICE COVERAGE RATIO, minimum 1.25

Common Area Charge (triple net)

Percentage Rent (5)

Insurance/Acct'g/Legal

Posessory/Property Tax

Subtotal Operating Expenses:

Salaries & Fringe

Credit to Rent (7)

Office to Rent

NE

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8 Maintenance Dredge Reserve - estimated \$150,000 payment to begin the third year (2022) after construction dredging is complete (2019)

EXPENSES (per proforma except where noted) adjusted for Phase 1 development only

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Ω

1.62

1.90

- 9 DBW Maintenance Reserve per Exhibit A, Art. 2, Definition Q. of the Loan Agreement.
- 10 Ad'l Debt Service none yet identified 11 Revisions from 10/12 expenses: increase in salaries and fringe by \$21,977, decrease in posessory interest tax by \$26,875

"	Cas	uic	ISIAI	IU	IVIGI	1110
		TARLE 3	· TREASURE ISLA	ND MARIN	Δ	

CASH FLOW PROJECTIONS AND DEBT COVERAGE RATIO **CY 2015 THROUGH CY 2039** (Figures in Thousands)

Assumes 2% per year increase in revenue

(200)

1.191

1.55

2.03

(200)

1,216

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2.07

(200)

1,241

1.54

2.11

1.737

(200)

1.267

1.54

2.14

1,882

1.772

(200)

1.294

1.54

2.18

1,992

1,920

1.807

(200)

1.320

1.54

2.22

2,032

1,958

1.843

(200)

1.348

1.54

2.27

2,073

1,997

1.880

(100)

1,476

1.43

2.00

2,037

1.918

1.604

1.34

1.73

2,157

2,078

1.956

2,200

1.633

1.35

1.77

2,119

	Actual	Budget	Budget																
REVENUES	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	
Berths - Regular (1)	301	301	348	686	880	907	1,073	1,184	1,338	1,453	1,449	1,512	1,542	1,573	1,605	1,637	1,669	1,703	
Berths - Guest Revenue (2)	9	9	9	10	16	16	17	17	17	18	18	18	19	19	20	20	20	21	
Berths - Liveaboards (3)	0	0	0	24	42	43	44	45	45	46	47	48	49	50	51	52	53	54	
Transient Dock (2)	0	0	0	39	51	52	53	54	55	56	57	59	60	61	62	63	65	66	
Dry Storage - Dinghy (2)	<u>0</u> _	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	
Subtotal: Slip Rent/Dry Storage	310	310	357	759	990	1,019	1,187	1,301	1,457	1,574	1,573	1,638	1,671	1,705	1,739	1,773	1,809	1,845	
Laundry/Vending (2)	0	0	0	6	6	6	6	6	7	7	7	7	7	7	7	8	8	8	
Electricity (2)	<u>4</u>	<u>0</u>	<u>0</u>	29 <b>35</b>	<u>48</u>	<u>49</u> <b>55</b>	<u>50</u> <b>56</b>	<u>51</u> <b>57</b>	<u>52</u> <b>59</b>	<u>53</u> <b>60</b>	54	<u>55</u> <b>62</b>	<u>56</u> <b>63</b>	57	<u>59</u> <b>66</b>	60 <b>67</b>	61	62	
Subtotal: Ad'l Revenue	4	0	0	35	54	55	56	57	59	60	61	62	63	65	66	67	69	70	
TOTAL REVENUES	314	310	357	794	1,044	1,074	1,244	1,358	1,516	1,634	1,634	1,701	1,735	1,769	1,805	1,841	1,878	1,915	
EXPENSES (per proforma except where not	ed) adjusted fo	or Phase 1 de	velopment only																
Rent (per Ground Lease) (4)	90	90	90	90	90	90	90	0	0	0	0	0	0	0	0	0	0	0	
Percentage Rent (5)	0	0	0	0	0	0	0	136	152	163	163	170	260	265	271	276	282	287	

(100)

1.005

(100)

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1.040

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1.087

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1.71

(100)

1.112

1.53

1.84

(200)

1,120

1.55

1.92

(200)

1.143

1.55

1.96

(200)

1,167

1.55

1.99

Phase 1

nartial

submittal Assumption Assumption occupancy

Phase 1

construction

Construction, First full year

NET INCOME	32	29	76	144	(98)	(119)	133	33
DBW INCOME/EXPENSE RATIO (min. 1.2:1 re	q'd)			1.62	1.27	1.23	1.57	1.35
DEBT SERVICE COVERAGE RATIO, minimum	1.25			1.90	0.69	0.63	1.41	1.10

- 1 Revenue projections submitted by TIE vary between TIE's financial models. Therefore, revenue as shown is combination of data from existing rent roll (submitted Oct, 2016) increasing annually by 2% and assuming sustained occupancy on existing slips plus revenue from new slips per occupancy and lineal footage assumptions provided by TIE in October proforma. Construction occuring 2018 with first full year of occupancy in 2019.
- 2 Future revenue estimated by TIE, graduating 2% annually after 2019 (the first full year after construction). 3 Liveabord assumes 17 liveaboards, occupancy of 90%, monthly surcharge of \$229.5 ea/mo. in 2019, increaseing 2% annually thereafter
- 4 Rent, proforma states 75,000. Per TIDA 10/26/16 current rate is \$90,000 but this is subject to change.
- 5 Percentage Rent in 2022, Rent increases to 10% gross revenue and in 2027 the percentage rent increases to 15%
- 6 Direct operating expenses are Contractor Expenses less salary, payroll tax and ins.

Data from

5/12/16

Salaries & Fringe

Credit to Rent (7)

Office to Rent

Utilities

Insurance/Acct'g/Legal

Posessory/Property Tax

Subtotal Operating Expenses:

Less: Ad'I DEBT SERVICE (10)

NET OPERATING INCOME

Direct Operating Expenses (6)

Overhead /Management/Almar

Maintenance Dredging Reserve (8)

DBW reg'd maintenance reserve (9)

Less: DBW DEBT SERVICE (\$4.2 MILLION LOAN, 4.5 % INTEREST RATE, 20 YEAR

Common Area Charge (triple net)

- 9 DBW Maintenance Reserve per Exhibit A, Art. 2, Definition Q. of the Loan Agreement.
- 7 Credit to rent This credit has not yet been negotiated with TIDA. This line item is an assumption. 8 Maintenance Dredge Reserve - estimated \$150,000 payment to begin the third year (2022) after construction dredging is complete (2019)
- 11 Revisions from 10/12 expenses: increase in salaries and fringe by \$21,977, decrease in posessory interest tax by \$26,875
- 10 Ad'l Debt Service none yet identified

TABLE 3: TREASURE ISLAND MARINA

CASH F	LOW PROJECTIONS AND DEBT COVERAGE RATIO
	CY 2015 THROUGH CY 2039
	(Figures in Thousands)
1	
lvear	

							(F	(Figures in	1 Thouse	∡nds)															
				Phase 1	Phase 1																				
•	Data from				n, First full year																				
ı	5/12/16			partial	after																				
ı		Assumption	Assumption	occupancy	construction								Assumer	.s 2% per	er year incre	ease in re	evenue								
ı	Actual	Budget	Budget																						
REVENUES	<u>2015</u>	<u>2016</u>	2017	2018	<u>2019</u>	2020		2022	2023	2024	2025		2027	2028	2029	2030	2031	2032	2033		2035	2036	2037	2038	2039
Berths - Regular (1)	301	301	348				,	, -	,	,	, -			,			,	,		,	,	,	,	,	
Berths - Guest Revenue (2)	9	9	9						17																24
Berths - Liveaboards (3)	0	0	0																						62
Transient Dock (2)	0	0	0	39		52	53	3 54	55	56	57	7 59	60	61	62	63	65	66	67	7 69	70	71	73	74	76
Dry Storage - Dinghy (2)	<u>0</u>	<u>0</u>	<u>0</u>			<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	_ 1	<u>1</u>	<u>1</u>	_ 1	<u>1</u>	<u>1</u>	<u>1</u>		<u>. 1</u>	_ 1	<u>1</u>	<u>1</u>	<u>1</u>	1
Subtotal: Slip Rent/Dry Storage	310	310	357	759	990	1,019	1,187	7 1,301	1,457	1,574	1,573	3 1,638	1,671	1,705	1,739	1,773	1,809	1,845	1,882	2 1,920	1,958	1,997	2,037	2,078	2,119
Laundry/Vending (2)	0	0	0			-			-	7	7	7	7		7	8				-					9
Electricity (2)	<u>4</u>	<u>0</u>	<u>0</u>		<u>48</u>	49	50		52	53	54	4 <u>55</u>	56	57		60	61		63	<u>65</u>	66	67		<u>70</u>	
Subtotal: Ad'l Revenue	4	0	Ō		54	55			59	60	61		63	65		67				1 73		76		79	
TOTAL REVENUES	314	310	357	794	1,044	1,074	1,244	1,358	1,516	1,634	1,634	1,701	1,735	1,769	1,805	1,841	1,878	1,915	1,953	3 1,992	2,032	2 2,073	3 2,114	2,157	2,200
EXPENSES (per proforma except where not	ted) adjusted	for Phase 1 de	evelonment o	nnly																					
Rent (per Ground Lease) (4)	eu) aujusteu i 90	90	90	,	90	90	90	0	0	0	0	0	0	0	0	0	0	0	) 0	0 0	0	0	0	0	0
Percentage Rent (5)	0	90	90						-		•	, ,	-			-	, ,							-	330
Salaries & Fringe	66	62	-		, ,																				186
Insurance/Acct'g/Legal	15	15																							125
Direct Operating Expenses (6)	40	43									225														297
Common Area Charge (triple net)	3	43	43						. 216		225 5														297
Credit to Rent (7)	0	0	0				, ,				•	, ,				-				-				-	
Office to Rent	12	12	•		, ,																				104
Posessory/Property Tax	5	5	12																						229
Utilities	4	5 4	1	30																					229 76
Oterhead /Management/Almar	47	4 47	47	7 36																					76 88
Maintenance Dredging Reserve (8)	47	47	47																						
DBW reg'd maintenance reserve (9)		-	0																						
Subtotal Operating Expenses:	<u>0</u> <b>282</b>	<u>0</u> <b>281</b>																							44 1,633
NET OPERATING INCOME	32	29						,	,	,	547	•	•		, -	, -	,	•	•	, -		•	•		566
Less: DBW DEBT SERVICE (\$4.2 MILLIO)	NI .							•		-	-	-	-			*							*	-	-
LOAN, 4.5 % INTEREST RATE, 20 YEAR Less: Ad'I DEBT SERVICE (10)		0	0	160	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	0 320	320	320	320	320	320
NET INCOME	32	29	76	5 144	(98)	(119)	) 133	33	156	244	227	7 269	295	306	318	329	341	354	366	6 379	392	2 405	319	232	240
DBW INCOME/EXPENSE RATIO (min. 1.2	2:1 req'd)			1.62	2 1.27	7 1.23	3 1.57	7 1.35	5 1.46	6 1.53	3 1.50	0 1.53	3 1.55	5 1.55	5 1.55	5 1.55	5 1.54	4 1.54	4 1.54	54 1.54	4 1.54	4 1.54	4 1.43	3 1.34	1.3
DEBT SERVICE COVERAGE RATIO, mini	mum 1.25			1.90	0 0.69	9 0.63	3 1.41	1 1.10	1.49	1.76	1.71	1.84	4 1.92	2 1.96	6 1.99	9 2.03	3 2.07	7 2.11	1 2.14	14 2.18	8 2.22	2 2.27	7 2.00	0 1.73	1.7

- 1 Revenue projections submitted by TIE vary between TIE's financial models. Therefore, revenue as shown is combination of data from existing rent roll (submitted Oct, 2016) increasing annually by 2% and assuming sustained occupancy on existing slips plus revenue from new slips per occupancy and lineal footage assumptions provided by TIE in October proforma. Construction occuring 2018 with first full year of occupancy in 2019.
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- 9 DBW Maintenance Reserve per Exhibit A, Art. 2, Definition Q. of the Loan Agreement.
- 10 Ad'l Debt Service none yet identified
- 11 Revisions from 10/12 expenses: increase in salaries and fringe by \$21,977, decrease in posessory interest tax by \$26,875

### **Collateral**

- Lease lease back
- Security Agreement
- Recorded Collateral Assignments of Rents and Leases
- Ongoing UCC-1 filing

#### **RECOMMENDED CONDITIONS:**

- 1. Final lease agreement shall included a provision that in the event TIE defaults on its loan with DBW, that DBW shall have no obligation to make any lease payments.
- 2. Provides documentation that the entirety of Phase 1 is fully funded.
- 3. Marina design shall to be adaptable to National Oceanic and Atmospheric Administration's 50 year sea level rise projections.
- 4. TIE shall complete a study to determine estimated accumulation of siltation of the new proposed marina design, estimated dredge expense, and rate of occurrence.
  - a. Annual reserve payments of the amount determined by the study shall be deposited into a Maintenance Dredging Reserve Account.
  - Two years of annual payments shall be placed into the Maintenance Dredging Reserve Escrow Account prior to issuance of loan funding
- 5. \$640,000 shall be placed in an additional and separate Payment Reserve Escrow Account until an ongoing Debt Service Coverage Ratio of 1.25 is assured.

DBW seeks informal comment on Treasure Island Enterprises request for a \$4,200,000 Recreation Marina Loan for the Treasure Island Marina and staff's recommended conditions as described in the *November 9, 2016 Feasibility Report*.

## Boating and Waterways Commission

## RECEIVE PUBLIC COMMENT OF BOATING AND WATERWAYS PROGRAMS

#### DBW's Mission:

To provide safe and convenient public access to California's waterways and leadership in promoting safe, enjoyable and environmentally sound recreational boating.

## Clean Vessel Act Program

## US Fish and Wildlife Service (FWS)

Funding Source: Sport Fish Restoration and Boating Trust Fund

Match: 25% required

## Clean Vessel Act Program

### **CVA Updates:**

- FY 2016 CVA Award
  - Inland \$1.17M
  - Coastal \$948,750
- 2009 CVA Audit

### **Program Changes:**

- On Line Grants Application(OLGA)
- Reporting Requirements

# Clean Vessel Act Program

### **Program Components:**

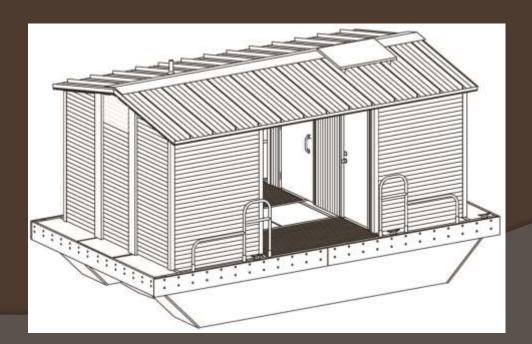
- Floating Restrooms
- Pumpouts and Dump Stations
- Outreach and Education

# Floating Restrooms



## Floating Restrooms

- Accomplishments
  - 109 units / 39 Lakes and Reservoirs
  - Approx. 1 Million Gallons / year
- Updates
  - Design
  - \$926,500 for FY 2016
  - 2017 Deliveries



# 2017 Deliveries

- 2 Units Lake Otay, San Diego County
- 1 Unit Lake Hodges, San Diego County
- 2 Units Lake Piru, Ventura County
- 2 Units Lake Casitas, Ventura County
- 2 Units Bullard's Bar, Yuba County
- 2 Units Don Pedro Res, Tuolumne County

# Pumpouts





Grand Marina - Alameda

West Point Marina - Redwood City

## Outreach and Education



## New Project



Cell Phone App

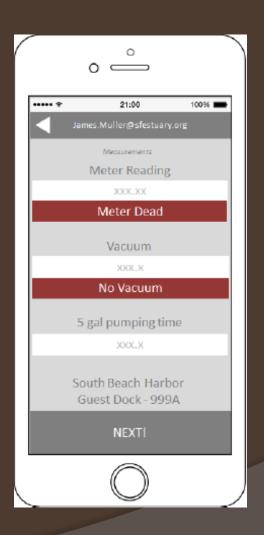


Boater location (GPS) & pumpout locations

Reporting tool and camera

## Clean Vessel Act Grants





Monitoring capability

### Local Assistance Boat Launching Facility Program



DBW provides grants to local governmental agencies for development or improvement of public boat launch facilities (BLF's).

### Local Assistance Boat Launching Facility Program

Budget

FY2015/16 \$12.65 Million

FY2016/17 \$ 4.67 Million

Current Projects

Approximately 50 BLF Projects

Application Deadline

February 1, 2017.

Online Grant Application

FY2019/20 Funding Cycle

### Local Assistance Boat Launching Facility Program

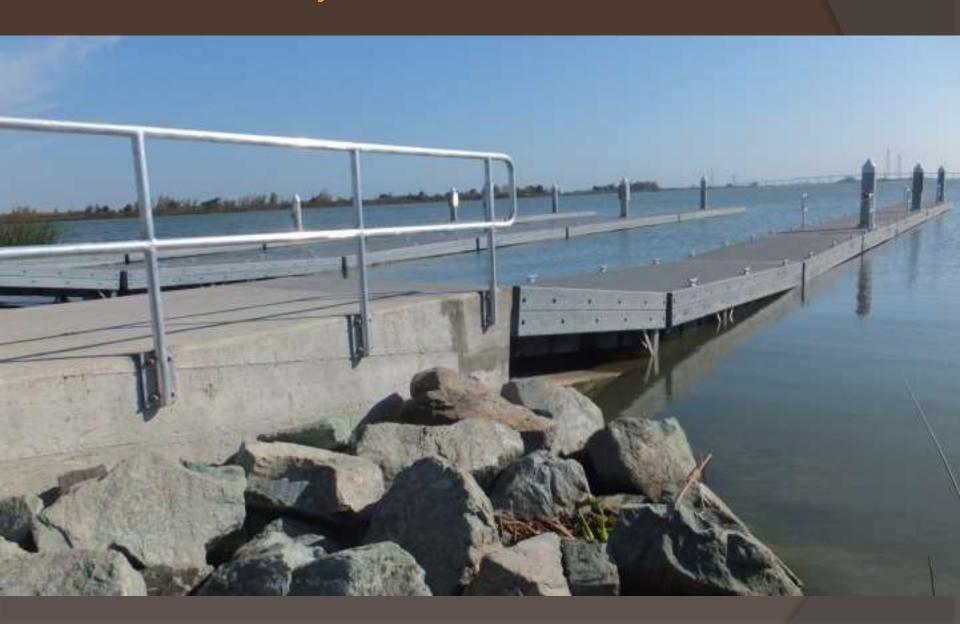
### **Projects completed since November 2015**

<u>Project</u>	<u>Grantee</u>	Grant Awards
Channel Islands BLF	Ventura County	\$4,510,000
Antioch Marina BLF	City of Antioch	\$ 217,000
Sandy Beach BLF	Solano County	\$ 60,000
Redbud Park BLF	City of Clearlake	\$ 945,000
Sunbeam Lake BLF	Imperial County	\$ 425,000

## Channel Islands BLF Ventura County, \$4,510,000



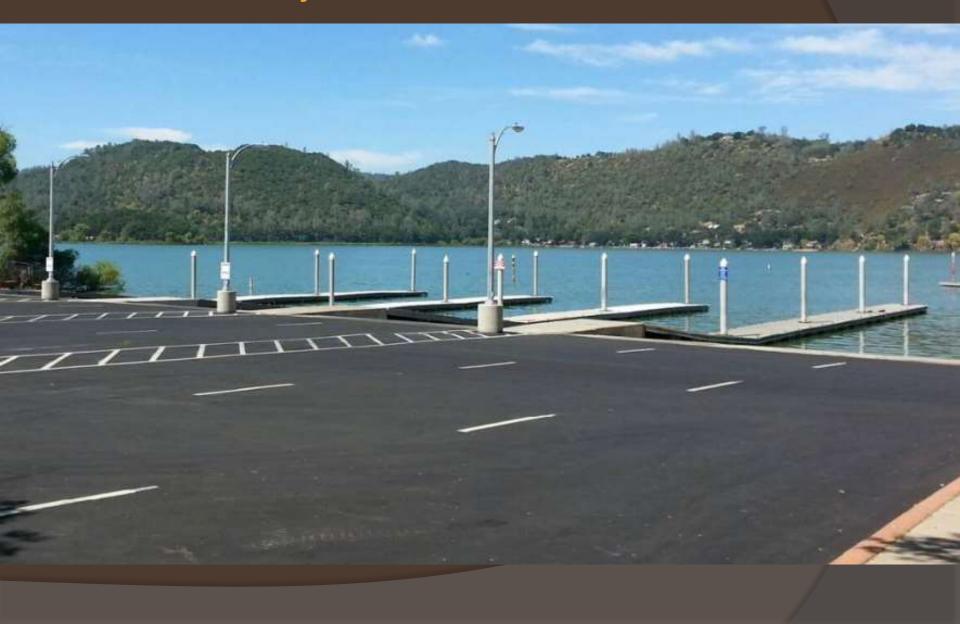
## Antioch Marina BLF City of Antioch, \$217,000



## Sandy Beach BLF Solano County, \$60,000



## Redbud Park BLF City of Clearlake, \$945,000



## Sunbeam Lake BLF Imperial County, \$425,000



### Statewide Ramp Repair and Modification Program



Quickly restore safe and convenient public boating access by repairing, replacing, widening or extending boat ramps, boarding floats, restrooms and such that have been damaged by wind, waves, floods, accidents, wildfires, etc.

### Statewide Ramp Repair and Modification Program

Budget FY2015/16 \$134,600

FY2016/17 Not Awarded

Current Projects4 Ramp Repair and Modification Projects

Application deadline
February 1, 2017.

Online Grant ApplicationFY2018/19 Funding Cycle

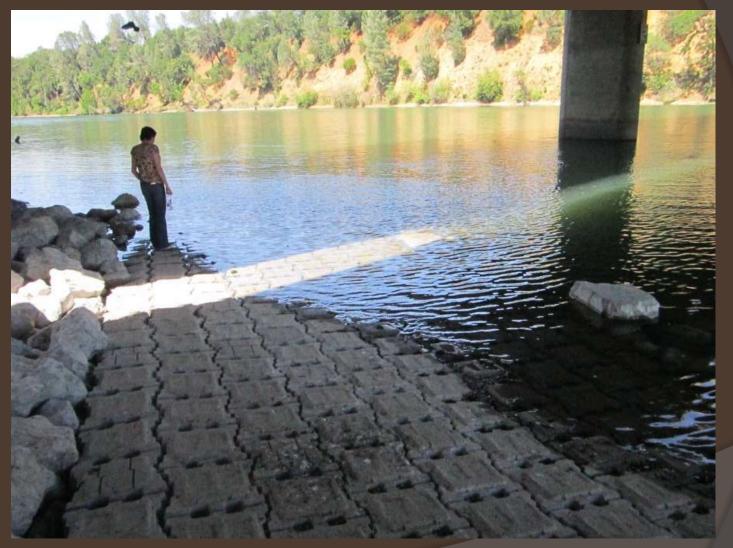
### Statewide Ramp Repair and Modification Program

### **Projects Completed since November 2015**

<u>Project</u>	<u>Grantee</u>	<b>Grant Award</b>
Red Bluff River Front Park	City of Red Bluff	\$209,000
Olde Port Beach Restroom	Port San Luis Harbor District	\$ 96,000

### Red Bluff River Front Park





Create or improve public non-motorized boating access to address the rapidly growing paddling community (kayaks, rafts, stand-up paddleboards, sailboats, etc.).



• Budget FY2015/16 \$1 Million

FY2016/17 Not Awarded

Current Projects6 Non-Motorized BLF Projects

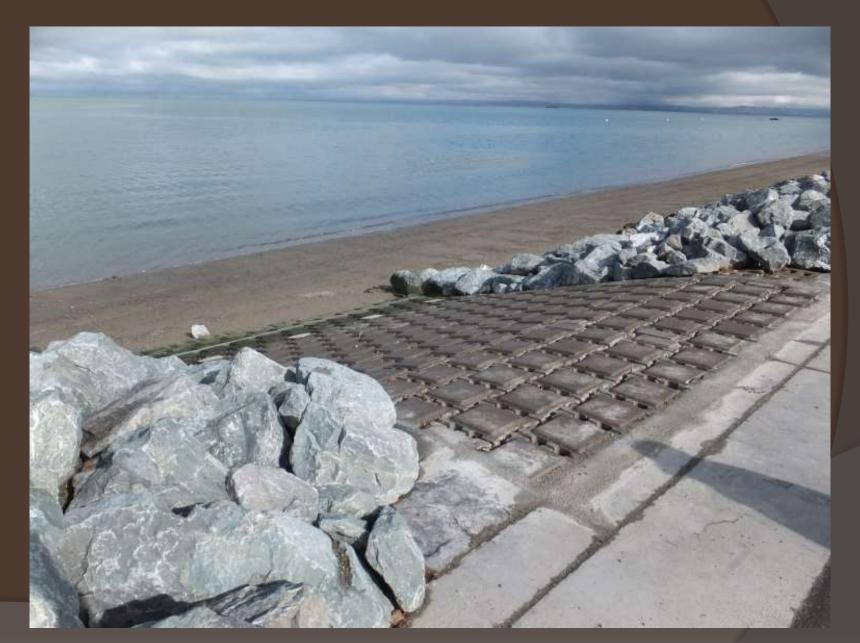
Application deadline
 February 1, 2017.

Online Grant ApplicationFY2018/19 Funding Cycle

### **Projects Completed since November 2015**

<u>Project</u>	<u>Grantee</u>	Grant Award
Coyote Point Promenade	San Mateo County	\$500,000
Santa Margarita Lake	San Luis Obispo County	\$300,000
Nordheimer (Six River Nation Forest)	US Forest Service	\$200,000
Silver Lake (Plumas National Forest)	US Forest Service	\$ 23,600
South Sailing Cove Design	City of Berkeley	\$160,000
Waterford Permits	City of Waterford	\$ 50,000

### Coyote Point Promenade



### Santa Margarita Lake



### Statewide Sign Program



DBW provides grants to install or replace signs that are missing, damaged, inaccurate, badly worn, necessary for safety, or required by federal grant agreement.

# Local Assistance Public Small Craft Harbor Loan Program



# Local Assistance Public Small Craft Harbor Loan Program

FY 2016/17 budget: **\$9.3 million** 

In FY2015/16:

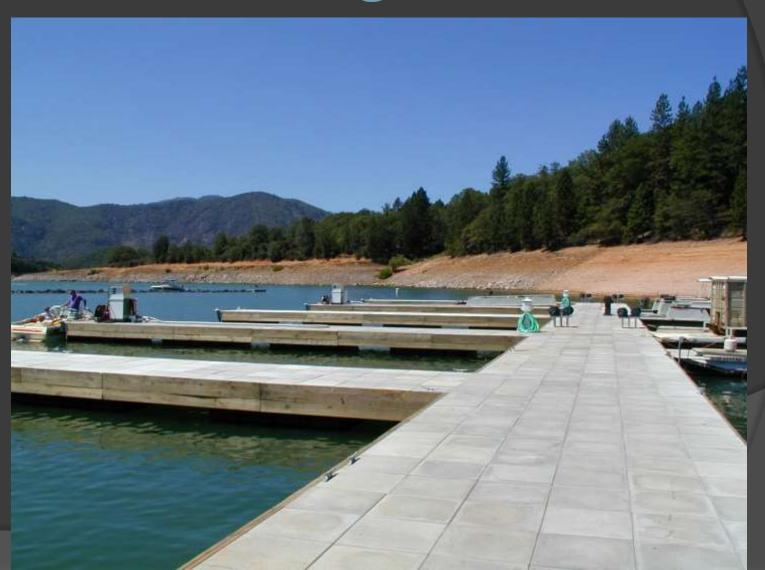
- Approximately \$12 million in loan principal was repaid to the HWRF
- Approximately \$4 million in interest was paid to the HWRF
- Loans entering repayment since November, 2015:
   Santa Barbara, Docks H and I, \$1.5 million
- Loans fully repaid since November, 2015:
   San Mateo County Harbor District, \$6.1 million
   Ventura Port District, \$6.4 million

# Local Assistance Public Small Craft Harbor Loan Program

#### Program Update:

- Application deadline: February 1, 2017 (for FY18/19 funding)
- Online applications begin next year (for FY19/20 funding)
- DBW is seeking external assistance to ensure program conforms to commercial lending standards.

# Private Small Craft Harbor Loan Program



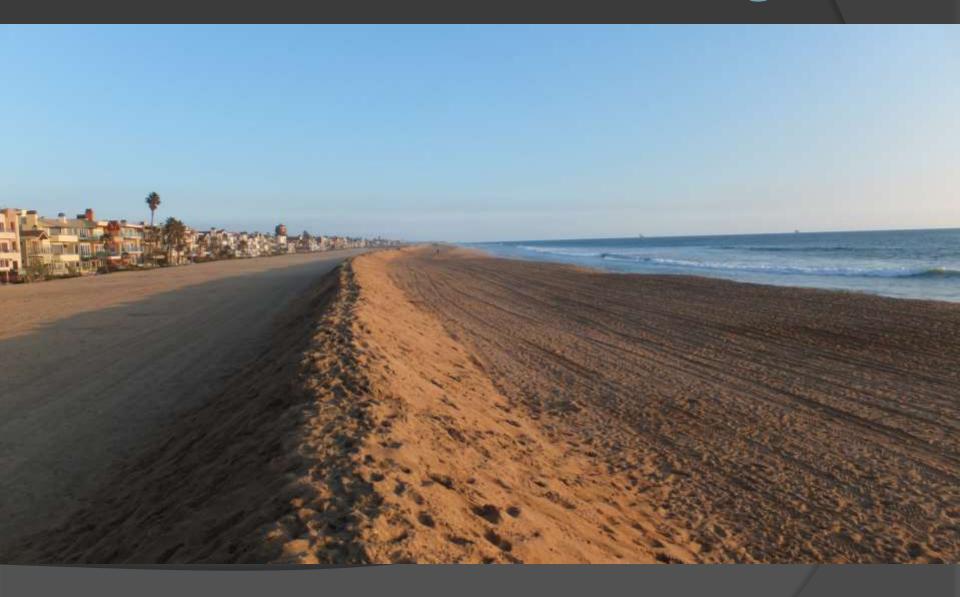
# Private Small Craft Harbor Loan Program

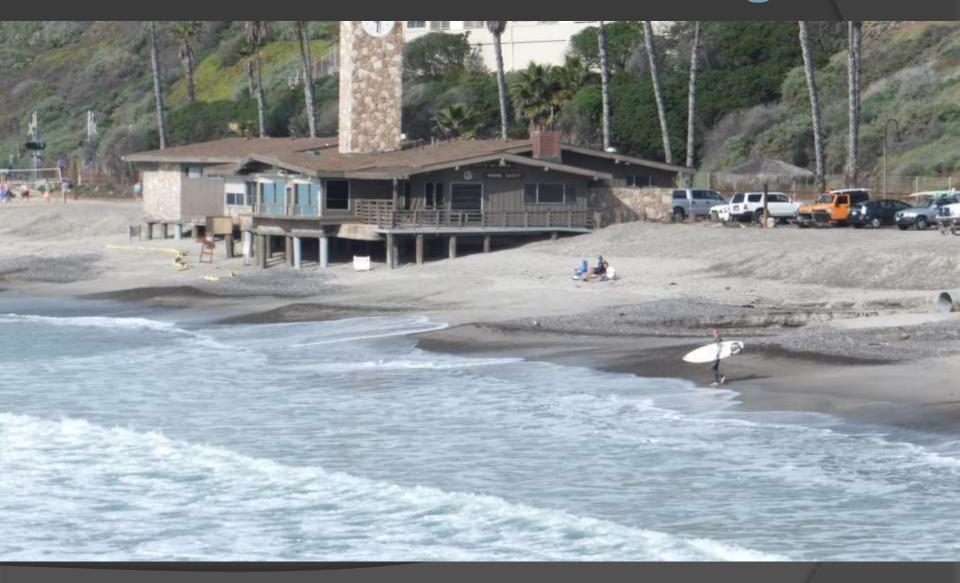
FY 2016/17 Budget: **\$4,200,000** 

Program Update:

- Application deadline: February 1, 2017 (for FY18/19 funding)
- Online applications begin next year (for FY19/20 funding)
- DBW is seeking external assistance to ensure program conforms to commercial lending standards.







FY 2016/17 Budget: **\$8,790,000** 

Work in Progress: 10 projects

#### Program Update:

- Application deadline: February 1, 2017 (for FY18/19 funding)
- Online applications begin next year (for FY19/20 funding)
- DBW has recently updated application requirements

## Beach Erosion Control Program



### Beach Erosion Control Program

FY 2016/17 Budget: **\$700,000** 

Work in Progress: 4 projects

### Program Update:

- Application deadline: February 1, 2017 (for FY18/19 funding)
- Online applications begin next year (for FY19/20 funding)
- DBW has recently updated application requirements

# **Boating Clean and Green**



### **BOATING CLEAN & GREEN PROGRAM**

# Vivian Matuk Environmental Boating Program Coordinator

California State Parks Division of Boating and Waterways California Coastal Commission

(415) 904-6905 vmatuk@coastal.ca.gov







### **BOATING CLEAN & GREEN PROGRAM**

### Education and Environmental Services for Boaters

### www.BoatingCleanAndGreen.com







### **BOATING CLEAN & GREEN PROGRAM**

### **OBJECTIVES:**

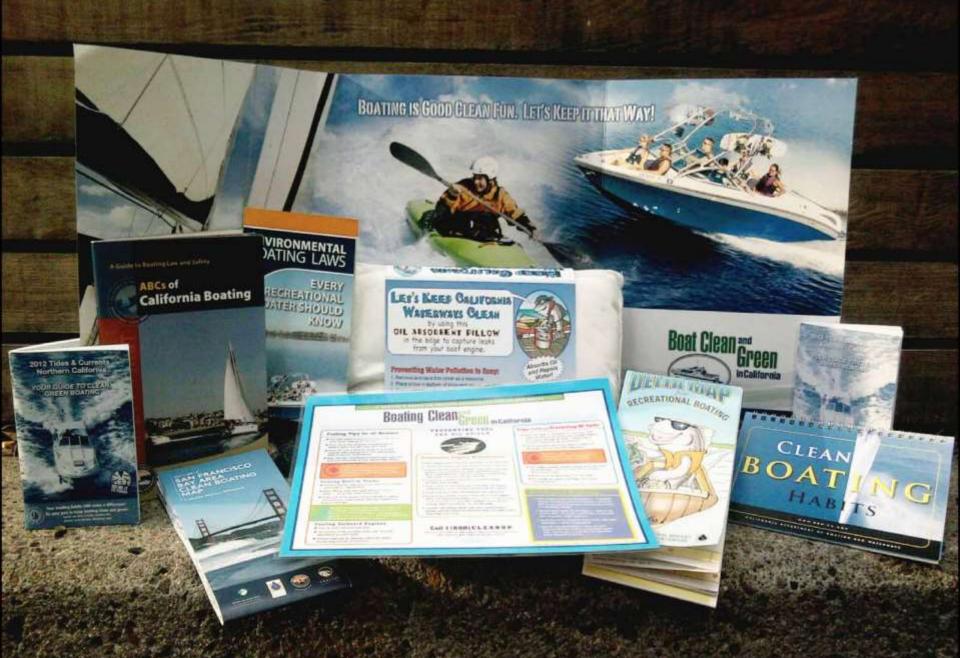
Educate boaters





Provide technical
 assistance to marinas
 and local governments





6,300 Boater kits distributed in 2016

### **Dockwalkers in Action**



Volunteers donated over 1,900 hours in 2016



This map shows where boaters live who have learned about clean boating from Dockwalkers and staff in 2016.

# **Boat Shows & Boating Events**



## **Clean Boating Seminars**



6 Clean Boating Seminars, Over 200 Boaters Reached Out

# The Changing Tide Newsletter 8,000 copies of each issue distributed



#### Check Out These Great Sewage and Oil Related Grants

uting Author: Cindy Murphy (Office of Spill Prevention and Assponse Contract Manager)

Clean Vessel Act (CVA) Sewage Pumpout Installation. Operation and Maintenance Grants

The California State Parks Division of Boating and Waterways (DBW) is the State Grant coordinator for the Clean Vessel Act (CVA) on behalf of the U.S. Fish and Wildlife Service.

The CVA grants fund the construction, renovation, operation, and maintasunce of sewage pumpout and dump stations to service recreational vessels. Funding comes from the Sport Fish Responstion and Boating Trust Fund.

These grants are for both public and private marina facilities. This includes all local ensemmental extities and private husinesses that own and operate bosting facilities open to the general public-

Types of Grants:

#### INSTALLATION CHART

CHERGYICAL & MAINTENANCE GRANT

This grant will reimburge recipients for up to 75% of the eligible installation cost of pumpout and/or dump stations.

This grant will reimburse recipients for up to 75% of the eligible casts of pumpout parts and labor to maintain an existing **ENUMEROUS** 

#### BOTH CORPS are DESCRIPTION OF TRAINED SOCIAL

What will it cost you: Grant recipients will be responsible for at least 25% of the costs associated with the new or replacement pumpout anti/or dump station installation, or 25% operation and maintenance costs. This 25% match can be cash, the fair market value of any labor or materials provided, or a combination.

Donation: The grant recipient will guarantee that the granted equipment will be operated, maintained (without cost to DRW), and accessible to all public recreational vescels for the full period of its useful life (7 years).

Duration: The term of this grant depends on the term of such grant agreement (betueen 3-3 Yrs.). Costs will be reimbursed only if incurred during the term of the grant agreement.

#### Responsibilities as a grantee:

- 1. All recreational vessels must have access to the pumpout and dump stations funded under this grant program.
- A visible sign depicting the national pumpout symbol shall be installed.
- 3. An informational sign should be installed at pumpout and dump statisms including: tees, restrictions, hours of operation, operating instructions, and phone number to call if the facility is inoperable. The sign should also acknowledge funding sources from the STRETT, through DRW.
- 4. While the State encourages the free use of facilities constructed under this program, a maximum user fee of \$5 may be charged.

TO APPLY and for more information:

Please contact flori Rort at (936) 527-1819 or ron June Province co. ppy

Dr visit: www.dbw.parks.ca.gov/Environmental/DAT9/GrantOpportunities.agus.

The California Department of Fish and Wildlife's Office of Spill Prevention and Response (OSPR) Response Equipment

The California Department of Fish and Wildlife's Office of Spill Frevention and Response (OSPR) affers Response Equipment Grants to local government agencies, which includes counties, cities, fire departments, port districts and Tribes throughout

This grant provides local agencies and Tribes the ability to pre-position equipment trailers where there is a potential threat of an oil spill occurring within their jurisdiction. In the event of an oil spill, this equipment can be quickly mobilized and deployed to contain the oil spill and protect local resources that are vital to the livelihood of the surrounding community.

The response equipment value is up to 530k and includes 1000' of oil spill containment boom, adsorbent materials, a mobile trailer, and an eight-hour hands-on boom deployment training course.

To learn more about the Grant Program, visit: www.wildlife.ca.gov/DSPR/Response/ Response-Equipment-Grants



the Clean Vestel Act Pumpout Grant. Phate: Vivian Mazuk (DBW/CCC)

A California Clean Boyling Natwork Publication presented by The Bey Foundation. Division of Boeting And Weterweep, California Coastal Commission, and the Keep the Delta Clean Program. This publication is partially handed by the Division of Booting And Weterweys Clean Vessel Act Education Program and the Federal Clean Vessel Grant Act Programs. Fundant in part by a grant from Califecycle.











#### California Vessel Operator Card Update

Author: Bria Miller, Vessel Operator Card Program, California State Parks Division of Boating and Waterways

California State Parks Division of Boating and Waterways (DBW) has been hard at work developing the California Vessel Operator Card (CVOC) program since the bill creating the education requirements for recreational power boat operators was signed by the Governor in 2014. The Operator Card will be phased in starting January 1, 2018. The Division has established and met with the Technical Advisory Group (TAG), consisting of members who represent different facets of the boating community, including law enforcement, marina operators and educational providers. The TAG advises the Division about the cost of the operator card. The next TAG meeting is scheduled for the fall.



DBW is working to contract with at least two online vendors to provide a NASBLA- and stateapproved boating safety education course and examination. The Division plans to work with the Department's IT and Accounting divisions to implement the program. For more information and program updates, please visit the CVOC Web page.

#### New LED flares minimize your pile of expired flares

We all love a little attention, but when out at sea and something goes awry, getting attention could be the difference between life and death. That is why all vessels longer than 16 feet operating on coastal waters, the Great Lakes, territorial seas and waters directly connected to them (up to the point where the body of water is less than two miles wide) are required to carry Coast Guard approved visual distress signals.

With modern day technological advances, visual distress signal options have expanded. The Sirius Signal SOS Distress Light is currently, the only non-pyrotechnic device approved by the Coast Guard. Operating features for this LED flare include:

- \* automatic flashing SOS light sequence
- + buoyancy if dropped in the water
- \* illumination for up to 6 hours
- \* a lifespan of 10,000 hours with fresh C-batteries
- \* and no release of molten slag so it's safe enough for children to simply turn off and on.

This electric distress light is approved for night time use and only approved for day time use if within three miles of the coastline and accompanied by an orange distress flag.

Continued on back page.

A California Clean Boating Network Publication presented by The Bay Foundation Division of Boating And Waterways, California Coastal Commission, and the Keep the Delta Clean Program. This publication is partially funded by the Division of Boating And Waterways Clean Vessel Act Education Program and the Federal Clean Vessel Grant Act Program.









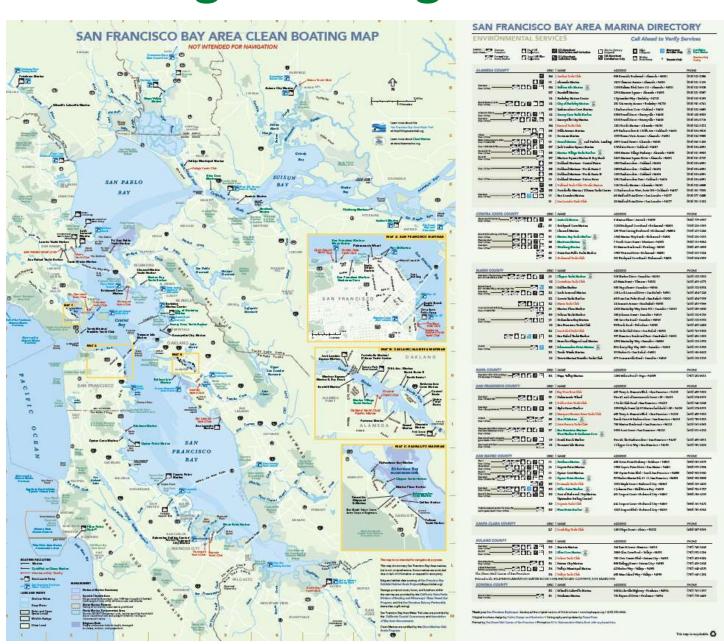




## **Education Through Boating Publications**



**60,000 Copies** 



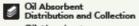
### SAN FRANCISCO BAY AREA MARINA DIRECTORY

#### **ENVIRONMENTAL SERVICES**

Call Ahead to Verify Services



















Oil Absorbent Collection Only Oil Absorbent Distribution Only

Marina Boat Ramp

T Tenants Only

Members-Only Pacility

SAN FRANCISCO COUNTY	GRID	NAME	ADDRESS	PHONE
	G9	Bay View Boat Club	489 Terry A. Francois Blvd. • San Francisco • 94158	(415) 495-9500
Free + 8 AM-5 PM	F8	Fisherman's Wharf	Pier 47, end of Leavenworth Street • SF • 94133	(415) 274-0513
	G9	Golden Gate Yacht Club	1 Yacht Club Road • San Francisco • 94123	(415) 346-2628
Prime * by appointment	E8	Hyde Street Harbor	2950 Hyde Street (@ SF Marine fuel dock) • SF • 94133	(415) 274-0513
	G9	Mariposa Hunters Point Yacht Club	405 Terry A. Francois Blvd. • San Francisco • 94158	(415) 495-9500
A Dock Free • 24 hrs.	E8	Pier 39 Marina (🌉 )	Beach Street & Embarcadero • San Francisco • 94133	(415) 705-5500
	F7	Saint Francis Yacht Club	700 Marina Boulevard • San Francisco • 94123	(415) 563-6363
Pumpout dock (West Harbor)/	F7	San Francisco Marina- West Harbor & Gashouse Cove	3950 Scott Street • San Francisco • 94123	(415) 831-6322
East and of north and south guest docks • Free • 24 hrs.	G9	South Beach Harbor	Pier 40, The Embarcadero • San Francisco • 94107	(415) 495-4911
South end of D Dock Free + 24 firs.	G3	Treasure Isle Marina	1 Clipper Cove Way • San Francisco • 94130	(415) 981-2416





### PROTECT YOUR PLAYGROUND WHAT YOU CAN DO TO PREVENT POLLUTION

#### PREVENT OIL AND **FUEL CONTAMINATION**

Oil, fuel and other petroleum products are considered to be toxic to human health and aquatic life. Help prevent pollutants from entering San Francisco Bay by practicing preventive engine maintenance and by using oil absorbents.

LOOK ON THE MAP FOR MARINAS WITH THESE ICONS:

- Used Motor Oil Collection Center
- Absorbent Exchange Program

Spill Proof Your Oil Changes and Recycle Used Motor Oil



- 5. PROVENT DRIPS AND SPILLS by using of-only absentions to card spills and drips
- 5. If you change your own oil use a down system-a portable racuum oil change pump that drains into a container that is closed to prevent spills during transfer of oil (available at most marine supply stones).
- 2. DO NOT MIX USED MOTOR OIL WITH ANYTHING, Each & separate for marking
- Recycle used motor oil and oil filters at a used oil collection facility or martin providing this service. See C C Con the map for locations may you.
- I NEVER USE SOAPS OR DETERGENTS TO CLEAN OIL OR FUEL THAT HAS

Prevent Pollution From Your Engine



- 5. Praction provenies ongine maintenance. Nexp the origins well taxed and operating
- A. Choose Good Goard approved strated-resistant had lines
- 2. And party selection or times descriptly to dign copies men. the machanisal means (such as loand scraping calculus); or loss to air subscraw (water based). DO NOT LET SOLVENTS BUN INTO THE BLUE.
- 5. Transfer and remove that's with care using families pumps and absorboris to dimension
- A. Use of-only absorbers in the bilge to capture an expected looks.

Oil-Only Absorbents







- The absorberia will capture oil before the bilge pump discharges it into the water
- 6 Oil-only absorbants absorb oil while repelling water and and the least expensive method housers can use in control oily discharge
- PRECAUTIONS | When using absorbors in the hige, some them to prevent dogging. or Realing the being pump and the being pump facut or sensor. Oil and that are flammable. Storp oil and but's asternish absorberate neary from hear, sources of speliton and in a well-
- LOIL ABSORBENT EXCHANGE PROGRAM | Lors for the martins on this may with this treet at that actively distribute and collect off-only absorbable for free as a way of

#### SAFELY DISPOSE OF HAZARDOUS WASTE















Boaters use many products to clean and maintain their boats. Many cleaning and maintenance products are by law considered hazardous waste once they are no longer needed, such as used motor oil and oil filters, antifreeze, all batteries, oil/fuel-saturated absorbents, solvents, paints, zincs, varnishes, cleaning products, fluorescent lights, and propune tanks.

TO CONVENIENTLY AND SAFELY DISPOSE OF USED MOTOR OIL, OIL FILTERS. OIL ABSORBENTS, AND MARINE BATTERIES, LOOK ON THE MAP FOR MARINAS WITH THESE ICONS:

Used Oil Collection Used Oil Filter Collection Marine Batteries

Oil Absorbents

Bilge Pumpout

- Use of the products living above can rough in spills and left over products that require safe disposal. Sock wifer alternatives in the book. ARCs of California Boaring, page 47 (Circum Reacing Guidelines), or at www.goodgoods.com
- □ IT S ILLEGAL TO THROW HAZARDOUS WASTE IN THE TRASH OR ABANDON IT. Seek heating professive certain hearning. ingrodumis that are toxic to human health and aquatic life and must be disposed of salely
- 4. For disposal, see like of Disserbold Respective Mode (UNIA) Disposal Factions in the Ray And Section like map, or call 1-600 CLUANUF (215-2067), or visit www.aarth911.com for more information and other waste disposal options in your and
- A Check stored products every six mentils and properly dispose of those that are old or innecessary.
- 4. HEFW facilities offer that recording services for residents, and sected constant recording events. Call to confirm information and hours of
- 3 Some matters offer used motor off, litter, and absorbers disposal. Contact your matter operator
- A Barrielle ware once anades at a local wage metal serverier
- I. Role to www.dommonen.og.br information on safe cleaning without the use of time chemicals





no place | fle this this bulg for take that, he have no Open by come I talker on the ware these blood. Contropued I by Polices against the same seen Seeds, tim Francisco, Jaco School Settlere Sallines his Marine or Alexande, Prince Mariel Product photo & See Francisco Separateurs of the See Dight word, too might I Americk Worker, Merice March. District right Statement Roy Jam Colons Experience from at the St. San Common Warra World The manufacturing Manufacturing White Manufacturing (White States )

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Settler Baselon, National States (States )

New the Delta Clean Program, 2007, Sevaments San Joseph Cleha May for Recent Code (See Son)

#### MINIMIZE SEWAGE IMPACTS

Over one hundred different intestinal pathogens such as viruses, bacteria and parasites can be found in sewage that may harm humans, wildlife and drinking water. Look on the map for marinas that have sewage pumpout and port-o-potty dump stations.

LOOK ON THE MAP FOR THESE ICONS:

Sewage Pumpout

Port-a-Potty Dump Station



Or scan QR code for pumpout locations

- 3. In in Higgs! to discharge new sewage within the navigational waters of the U.S. (an area that includes the entire San Francisco Bay and Delta and extends 5 miles seaward beyond the crossil and in resistonal marine sancts
- 1. Obscharges of any lond, broated or not, are probabiled in Richardson Bay (a Federally-designated no-checkarge area)
- 4. All locate with an installed trailed creat from a Creat Greeni approved Marine Sentiation Device (MSII) if operating in UK navigable waters.
- 1. Do not discharge treated waste from Type I or II Marrie Santiation Divisor (MSDs) and unimoded waste while in a marrie or such harbor, swimming/scaling sense, takes, more one, or finalmenter impoundments; evens that do not support internate ineffic, or into a Federally-stoagenist no-discharge tree each as Richardson Eny. If operating in those waters, your Type I or Type II MXII must be connected to a building bank or sectural to provent any sewage discharge.
- $\perp$  Visit www.dbw.ca.gov in Itali additional sawage pumposi locations near you.
- I Avoid holding tank distributions and dissources that contain obtains, homelobyte or other components that can be largeful to
- 3. To clear and declience the local use a rote of % cap of haking sods per half gallion of water, and opmobile baking sods around the rise.
- 4. Herp the "Y" valve properly secured in a closed position (use a pullock or were its) when conguing believe seators or loss than three miles
- 3. Consider using a mobile pump-cut service. See this of mobile services on the back panel of this map.

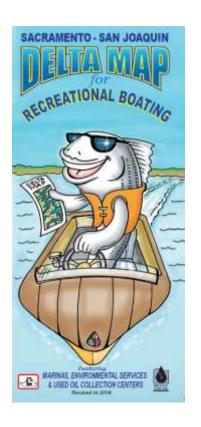
#### PREVENT MARINE POLLUTION

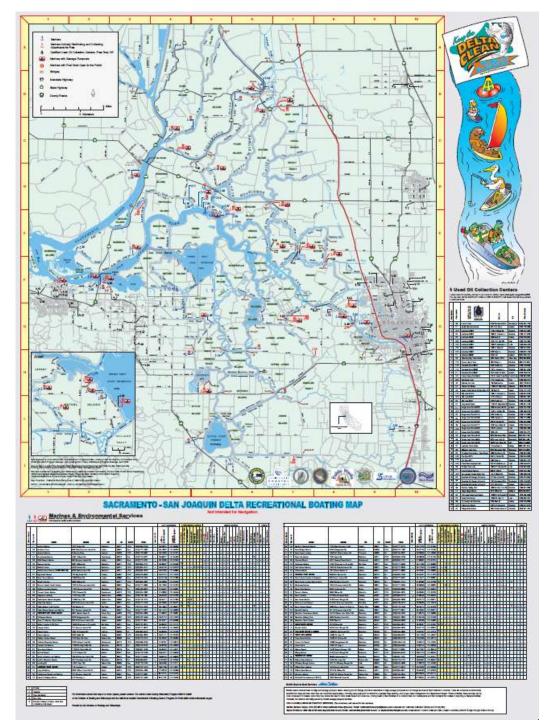
- I. Avoid plastic bags and curry a resultife cannot buy. Tirting plastic bags to a sepermeted for recycling
- 2. Names product packaging at home. Pack your food in mountak containers
- L. Cignetic lists are the most common type of litter found washed up on beaches and are not biologicalistic. Place cathographic cigardic bette to the trush.
- A. It is flogal to strow plastes and garlage cretations; plastic overhount.
- 2. It is fliggl to dump any garlage overfound into the surgette waters of the state (technicing intend waters and up to 1 miles from where).
- 3. Take used morrollament foliogo her back to a mep ling bits at a participating boating beliefs. Visit www.floating/ContrastConst.com/(clack on Morrollament Foliogo Line Program) in infertly a boatin near year. On sent year morrollament foliogo be directly at Part Foliogo (1900) and (1900) an





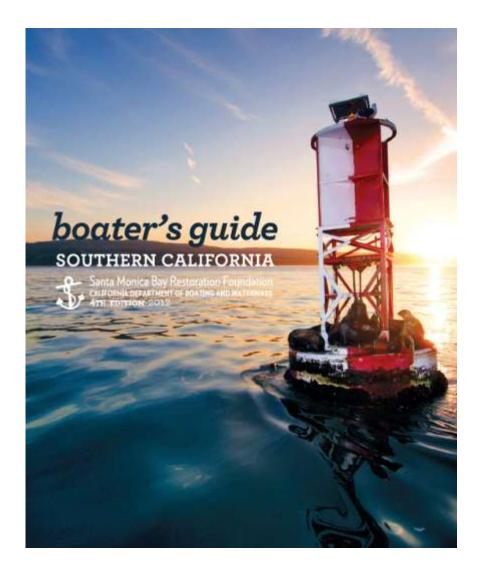


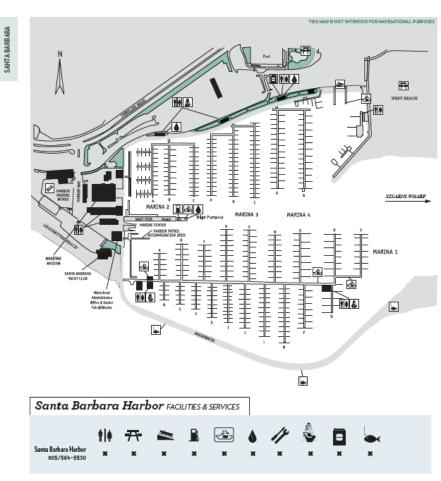




# **90,000 Copies**

## **Education Through Boating Publications**





**7,930 Copies** 

#### What is the difference between biocide hull paint and non-biocide hull paint?

Biocide bull paints are toxic and act similarly to pesticides that prevent. infestations of insects or weeds on your lawns.

Biocide paints contain cooper or zinc or other active ingredients (e.g., Econea or Irgaroli to prevent fouling on boat hulls. However, bipcide points are also known to be toxic to marine organisms.

Non-blocide paints do not contain active ingredients, making them more environmentally friendly. These paints are typically made of silicone, ceramic or epoxy materia's



Marinas in Southern California impacted by copper pollution include Marina del Rey. Newport Bay, and Shelter Island Yacht Basin. For more information on the regulations and requirements in these areas, contact the local Regional Water Quality Control Board.



#### Marina del Rey

LOS ANGELES REGION (4) http://www.waterboards.ca.gov/losangsles/w ater\_issues/programs/tmdb

#### Newport Bay

SANTA ANA REGION (8) http://www.workerboards.ca.gov/santaana/wat er\_excues/programs/tedt/testl metals.shtml

#### Shelter Island Yacht Basin

SAN DIEGO REGION (9)

http://www.waterboards.ca.gov/sandiego/wat. er issues/programs/watershed/souwatershe st.shem@siybendt









This material was prepared by the Fort of San Diego. in collaboration with the County of Los Angeles. Department of Beaches and Harbors, the California State Parks Division of Boating & Waterways. and the California Coastal Commission.

© 2014 Flutt of East Diego.



### to re-paint you



Selecting a paint for your boat is far from a one-size-fits-all strategy. Key considerations include available hull paints, paint longevity, cleaning needs. and potential environmental concerns.

Copper is commonly used in hull paint to slow or stop the growth of marine life (footing) on hoat huits by releasing copper (leaching). However, copper full paints have been identified as the targest source of copper pollution n marinas.

Be a part of the

solution! Use this

guide to select a hull

paint that eliminates

(e.g., non-biocide

paints) or reduces

flower leach rate





#### BOATER'S GUIDE TO USING HULL PAINT IN CALIFORNIA

#### PAINT OPTIONS

#### Non-Biocide Paints

The most environmentally friendly approach

- . Hull paints that do not contain metals bouch as papper or zinci or other active
- Estimated average useful life\* 5-10 years
- . Recommended desiring: Every 2 to 4 weeks (frequency and method vary by product and measure)
- Long term benefits include longer useful We preduced haut outso. This may offset higher upfront application cost when compared to copper paints.
- Use of non-biocale paints is encouraged statewide, especially in waters impacted by copper pollution.

#### Paint Examples!

- International Point Intersteek 900
- Intertux VC Performance Epoin
- . Ram Protective Coatings CeRam-Kote

#### Non-Copper **Biocide Paints**

- . It's paints containing sinc or other noncopper active ingredients (e.g., Econes) to prevent marrie growth on boat hule.
- Estimated overage useful life<sup>2</sup>: up to 2 years
- Recommended cleaning: Every 3 to 4 weeks (frequency and method vary by product and SHIRBOR!
- . Nan-copper blackle paints do not result in the release of supper. However, these paints release other active ingredients that may lead to Name water quality impacts.

#### Lower Leach Rate Copper Paints

- Hull paints with leach raise at or below 5.5. upitier-littay
- Estimated average useful life 2-3 years.
- . Mecommended cleaning: Wait a minimum of 90 days after applying new hull paint before initiating cleaning. Boaters are encouraged to clean these hull paints only when needed. no more frequently than once every 30 stave, 1
- · Use of lower leach rate copper paints is encouraged statewide, especially in waters impacted by copper pollution.

#### Higher Leach Rate Copper Paints

Use of higher leach rate copper paints is discouraged statewide

- . Half perts with leach rates above 5.5 aptorriting
- · Estimated overage useful life:
- -2.5 years These points may be disport/yued in the
- future due to leaching concerns.
- Frequent and aggressive cleaning of higher leach rate copper paints is discouraged, as stearing increases the release of copper lets the water.

#### Paint Examples\*

- Epsiré Ecomindes
- Interlus Intempeed 5640
- Petit Hydrocoal Eco Sherwin Williams Seaguard HMF

#### Nautical Super ProGuard Petit Trimtad Pro

#### Petil Vivid Antitouling Manne Paint

- Seahawk Sharkakin

Paint Exercises\*

#### Point Examples\*

- · Interlock Librar
- Kop-Coat ZSpar The Protector VOC
- Sherwin Williams Pro-line 1068

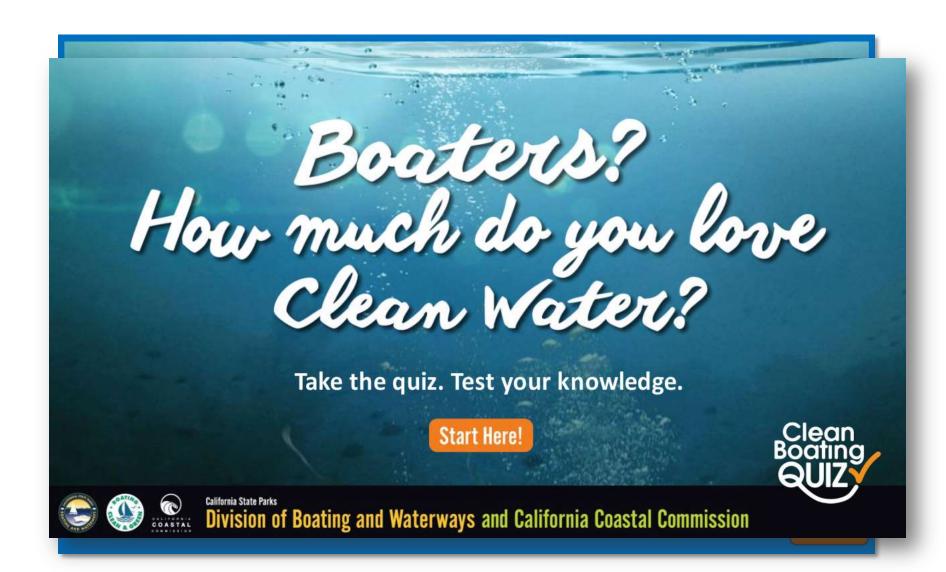
The mention of trade names or commencial products here does not constitute endonement or recommendation for use.

\*California Department of Fredicisis Flaguicopon (DFR) has categorized registered opport paints into two categories (CR 5 and -8 5 jugron Ridgy) based on their product specific leach rates. Philipant (Nespectances based on part manufacturers' dams.

Clearing treparing recommendation based on use of both give cested for hull clearing and Southern Celifornia fouling conditions. Plants are listed by reproductive analysist name. Plants are listed by reproductive analysist name. Plants are listed by reproductive analysis of the second productive or to be sent by Celifornia bootypets.

For a core complete that of available copper had quiete and more information on DPWs mitigation efforts, visit the website. January 2016

## **CLEAN & GREEN PILOT QUIZ**



## **PILOT QUIZ RESULTS**

- √ 767 quiz attempts
  (completing one or more
  questions) goal was 200 -
- **√ 452 completions − 59%** 
  - ✓ 210 Passed the quiz, 46.4% pass rate
  - ✓ 242 Failed the quiz, 53.6% failed rate
- **✓ 315** incompletes 41%

# Where did they come from?

92% Social Media Ads

8% Digital Banners

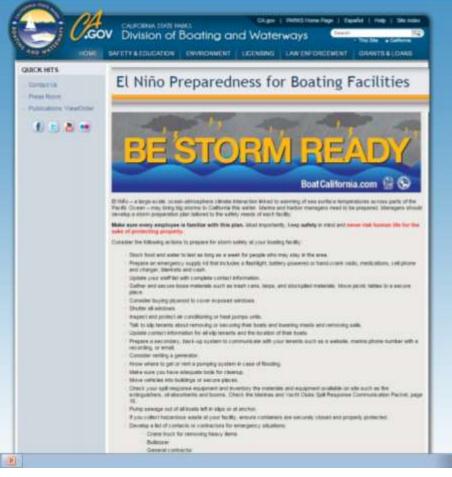
> <1% Email

## Feedback From Quiz Respondents

- \* Thank You! Yes I did absolutely learn from the quiz, there were a few questions I really didn't know that I probably should have. But I do now thanks to you!
- \* Yes, I did learn quite a bit!
- \* Yes I've been boating for many years and didn't know quite a bit!
- Yes, I did cleared up some things I thought I had known

## Communicating Resiliency in Our Educational Efforts





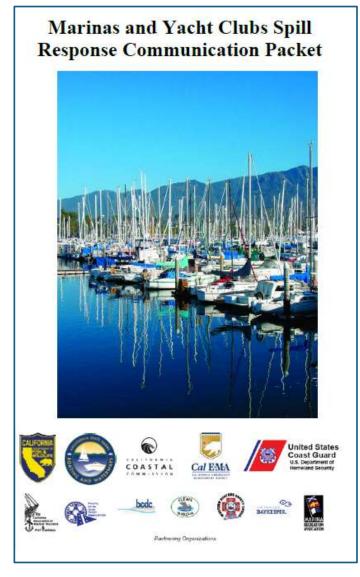
## **Technical Assistance**

# Marinas & Yacht Clubs Spills Response Communication Efforts



#### Workshops

- SF Bay and Delta
- San Diego
- Los Angeles/Long Beach
- Orange County
- Delta



# **Aquatic Invasive Species**



3 workshops

77 PARTICIPANTS



## **Collecting & Recycling Fishing Line**



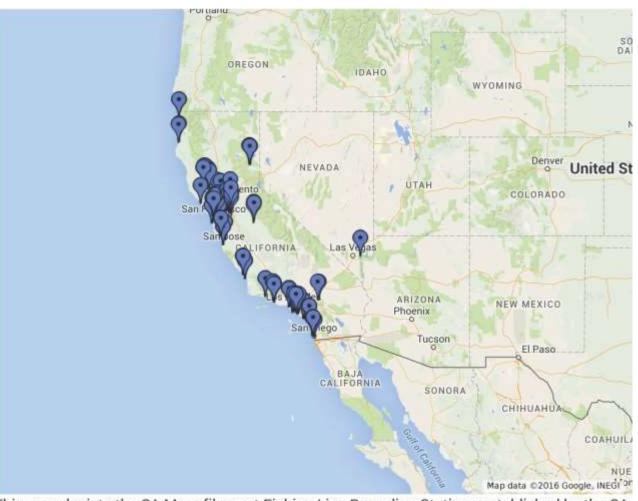
Courtesy of USCG Courtesy of Take Me Fishing

226 Fishing Line Recycling Stations

### **Monofilament Fishing Line Stations**

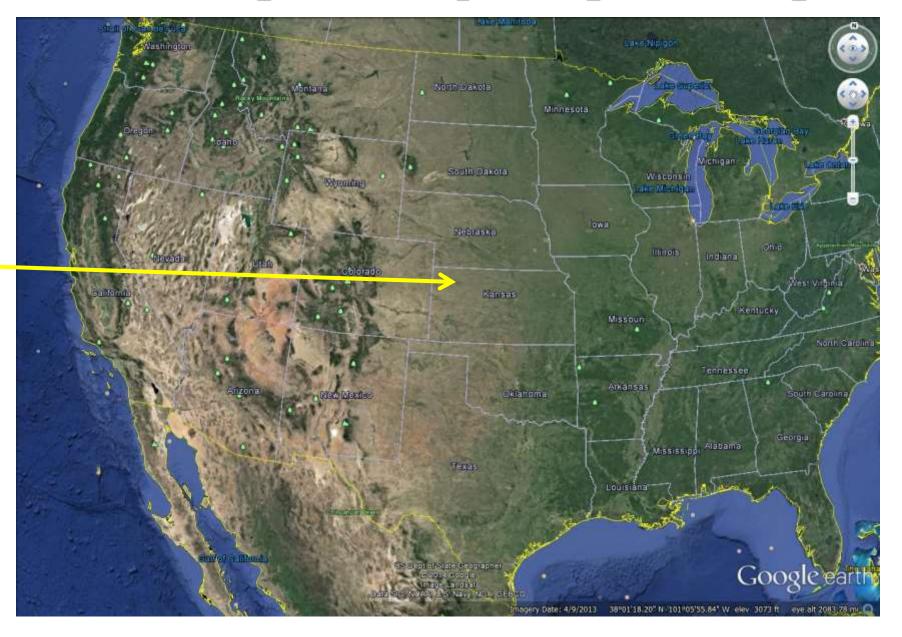
Caliente Yacht Harbor

OREGON Antioch/Oakley Shoreline Park Antonelli Pond Arrowhead Marsh Fishing Pier, Oakland Barrett Cove Marina NEVADA Bay Farm Island, Alameda Ballena Blvd., Alameda Ballena Bay Point Bay Farm Island Pier, Alameda Bay Point Shoreline Park Berkeley Marina Berkeley Pier 1 Berkeley Pier 2 Big Bear Lake - East Ramp Big Bear Lake - West Ramp Big Break Marina 1 Big Break Marina 2 Big Break Shoreline Park Brisbane Marina Bullfrog Marina



This map depicts the CA Monofilament Fishing Line Recycling Stations established by the CA State Parks Division of Boating & Waterways and the CA Coastal Commission. The contact information in each entry below belongs to the facility managing the fishing line recycling station. Specific station locations are found at the bottom of each location.

## **Collecting & Recycling Fishing Line**



## **Portable Fishing Line Containers**



40 Groups Developed 2,200 Portable Containers

## **Onboard Fishing Line Containers**



Charter vessel, Stardust and its on-board collection container





**20** on board fishing line collection containers

Partnership with 16 charter companies

## **Coastal Cleanup Day and Boaters**

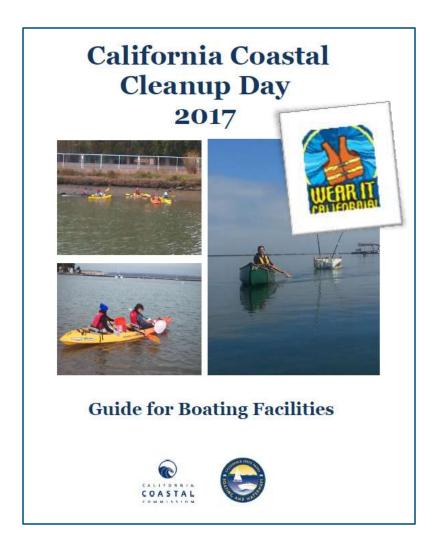
- 34 facilities participated
  - 864 volunteers total
  - 17,249 pounds of debris removed from shoreline and by watercraft
  - 64 non-motorized vessels





Statewide counts: 63,645 volunteers who picked up a total of 1 M pounds

### Resources

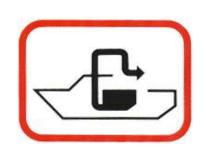


# Program Endorsed by Boating Leadership

- **✓ Pacific Inter-Club Yacht Association** 
  - **✓ Southern CA Yachting Association** 
    - **✓** Harbor Associations
    - ✓ Clean Marinas California Program
- ✓ Participation in Coastal Clean Up Day counts towards the nomination of the Club of the Year under the community service category and
  - ✓ Provides points to marinas towards the Clean Marina Certification or Recertification

# DBW's Clean Vessel Act Education and Outreach Program











Funding Provided by U.S. Fish and Wildlife Service, Sport Fish Restoration and Boating Trust Fund

### Visit our website:

### www.BoatingCleanAndGreen.com

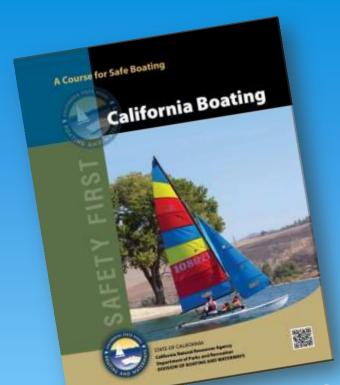
#### **Vivian Matuk**

Environmental Boating Program Coordinator
California State Parks Division of Boating and Waterways
California Coastal Commission
(415) 904-6905
vmatuk@coastal.ca.gov









## **Education & Safety**

California State Parks
Division of Boating and Waterways



### **Presentation Order**

- Boating Accident Program
- 2. Aquatic Center Program
- 3. Boating Safety Course
- 4. Boating Safety and Life Jacket Outreach Programs
- Boating Safety and Environmental Awareness Multimedia Campaign

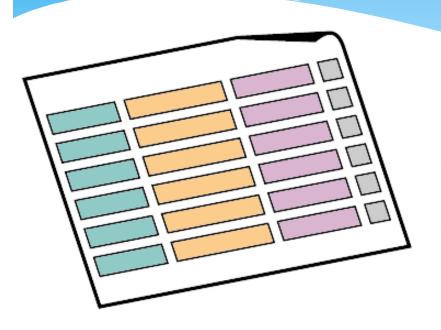
# **Boating Accident Program**

# Challenges

- \* Federally Mandated Program
- \* Required to report to the USCG
- \* Non-centralized law enforcement



### **Recent News**



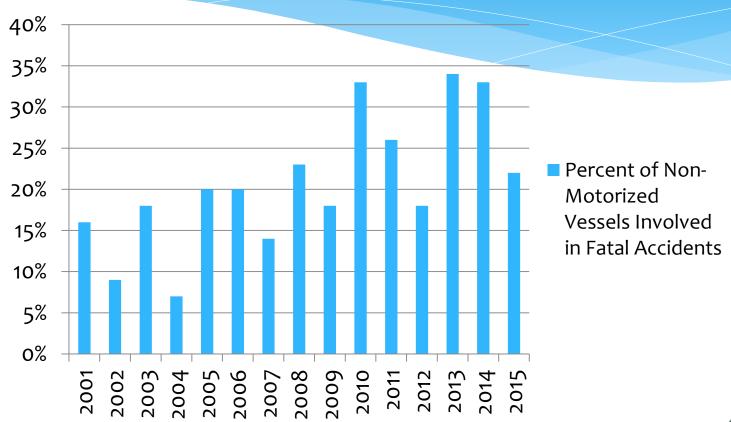
- \* New database ready for 2017
- \* State law changes to accident reporting
- NASBLA committee work on accident analysis and trends

## **Boating Accident Statistics**

- \* **2015:** Accidents **503** Injuries **232** Fatalities **49**
- \* 65% of the victims who drowned were **NOT** wearing life jackets.
- \* Alcohol fatalities: 37% when testing conducted
- \* Paddlecraft fatalities: 22%
- \* Fishing fatalities: 16%
- \* 37 fatalities so far in 2016

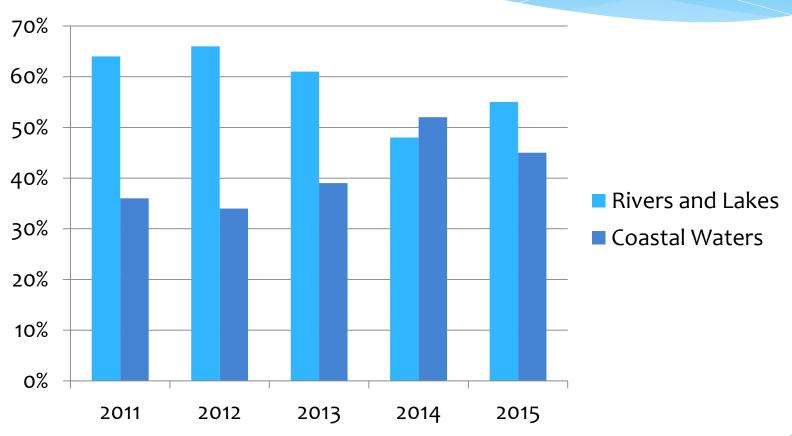
## Non-Motorized Trends

Percent of Non-Motorized Vessels Involved in Fatal Accidents





## Recent Trends









- Equipment
- Scholarships
- Instructor Training
- National Safe Boating Week

















#### **IMPACT:**

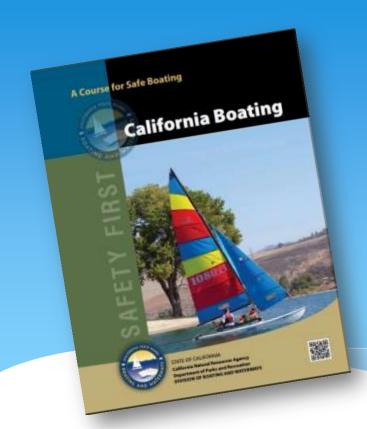
- \$1.3 million granted
- 60,000 students
- 5,000+ courses
- 90,000 contacts at events

#### **New in 2016**

- Program Changes
- Partnership Innovations
- Geographic Expansions
- Other Partnership Benefits

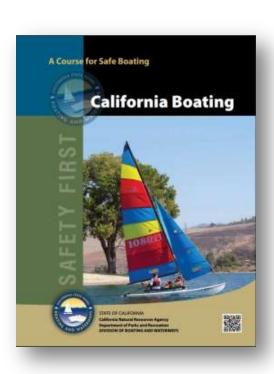






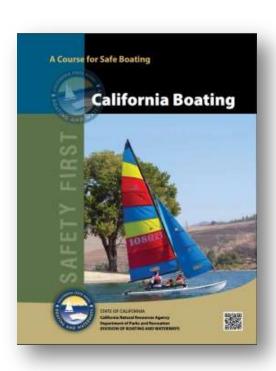
# Boating Safety Course

# California Boating: A Course for Safe Boating



- \* Eight hour home study course and multiple choice exam
- \* Teaches state and federal requirements
- NASBLA-approved (next renewal: 2017)
- Course is approved for Boater Card eligibility
- Online Ordering System, Partners assist with distribution
- Free to the public

# California Boating: A Course for Safe Boating



#### **2016 DBW Boating Safety Course Statistics**

- \* 13,529 course books ordered throughout the state
- \* 1,206 passing scores since January 1, 2016
- \* Average score is 53/60
- \* 93% of total students have passed

## **Outreach and Education**



# **Outreach and Education**



# **Outreach Events**

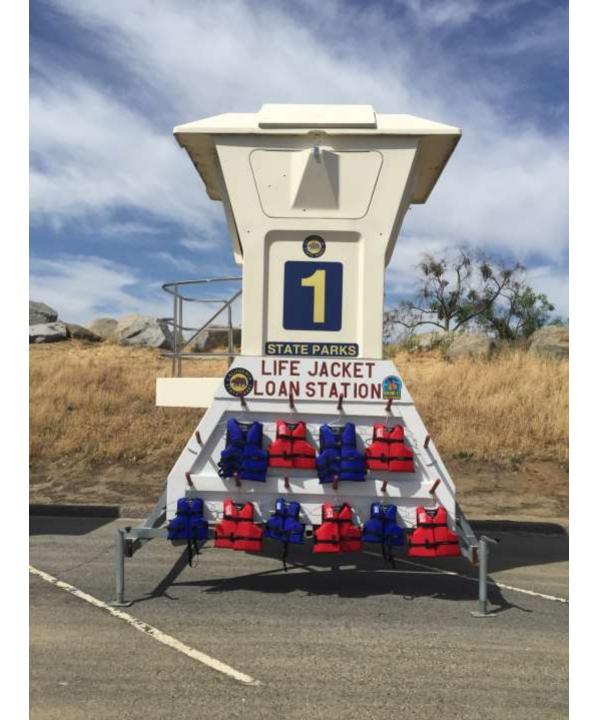






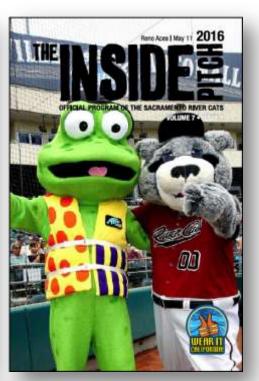
Life Jackets Programs





















# Boating Safety and Environmental Awareness Multimedia Campaign



### Love CA. Boat CA. Save CA.





# TOP POSTS





# LIFE JACKET CAMPAIGN

160M+ impressions throughout all six BATA's...

\$1.6M in media buys
Over \$647K in ADDED VALUE

- Internet: Video|Banners|Streaming Radio|Search
- Radio: General Market|Angler|Spanish Language
- Billboards: 7 static boards, 6 large digital boards
- Cable TV Sports: ESPN, FX, Speed, Spike, etc.
- Gas Station Pump Toppers: 260 locations
- Marina Posters: 460 posters & 11,500 bumper stickers at 130 marinas

#### BATA's:

Sacramento
Stockton/Modesto
San Francisco
San Diego
Los Angeles
Riverside

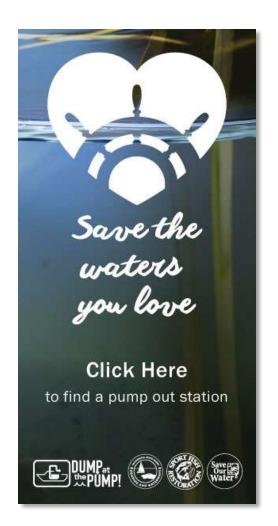


# **CLEAN VESSEL**

Digital and print placements throughout California

Western Outdoor News, CA Fly Fisherman, The Fish Sniffer, and others

72% added value (30% required)





# Take the quiz. Get the kit.

How much do you love boating? Test your knowledge for a chance to receive an I A Boater Kit, and a chance to receive an inflatable life jacket.

click here





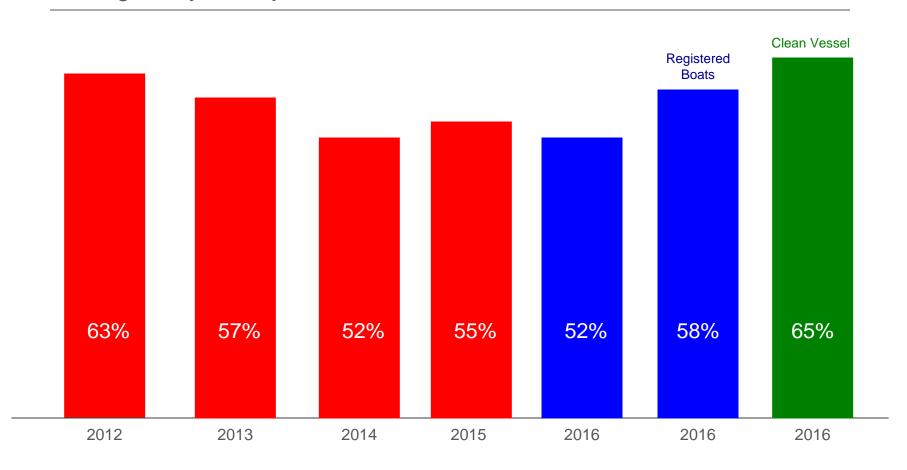
## **METHODOLOGY**

- Surveyed 756 waterway users online, both power and paddle, with 500 being registered boaters
- Top six boating accident target areas: Los Angeles, Stockton/Modesto, Riverside, Sacramento, San Diego and San Francisco
- Projectable study within + or 4.0 percentage points at a 95% confidence level

# MOST IMPORTANT Recall, Influence, Behavior

# AD RECALL - unaided

In the last 6 months, do you recall seeing or hearing any advertising on boating safety or life jackets?



## **AD INFLUENCE**

Do these ads influence you to ...?



## Wear a life jacket?

Good reminder to wear/You can never be too safe The importance of it to family, kids and yourself The message just made sense 85%

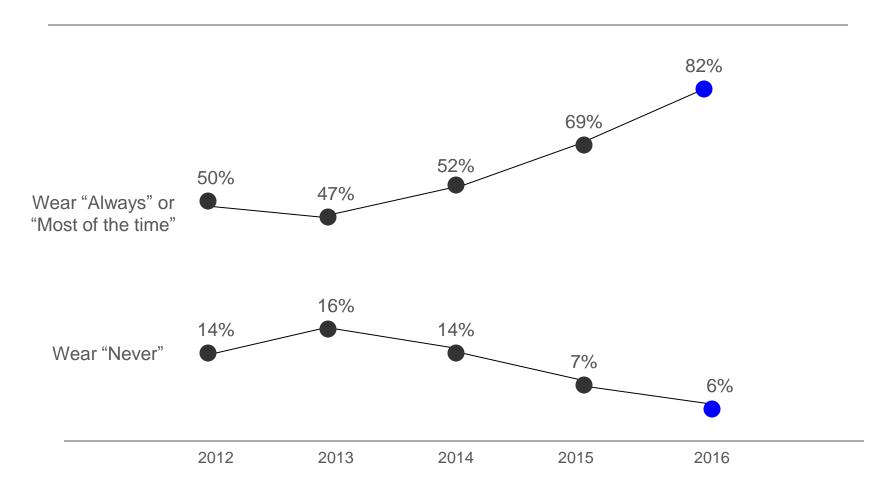
## Not dump sewage in the water?

87%

Save the environment/Keep fish animals safe We need clean water for our lives/drought Good reminder to not dump sewage

## SELF REPORTED BEHAVIOR

How often do you wear a life jacket when boating?



# CALIFORNIA BOATER CARD

# Strong baseline awareness

What do you know about the "California Boater Card"?

Boaters are now required to have one

Boaters will be required to have one in few years

<del>40</del>%

67% of

27egistered boat owners are aware

You have to pass an exam

29%

to receive your card

You have to fill out a form

21%

to receive your card

I don't know about the "California Boater Card" 33%

## 2017 Media SUMMARY

#### LIFE JACKET CAMPAIGN

- Continue the Save the Ones You Love life jacket campaign to increase awareness and recall in 2017.
- -Maximize digital media use in 2017, including mobile, and explore new opportunities such as a boating app.

#### **CLEAN VESSEL**

-Increase targeted print and digital placements.

#### **CLEAN & GREEN QUIZ**

-Optimize and expand this campaign in 2017.

#### **BOATER CARD**

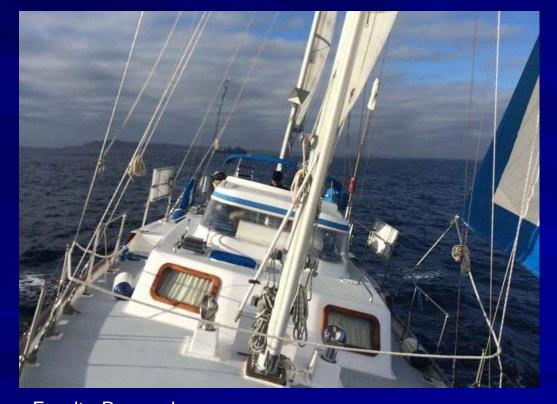
-Press play on Boater Card campaign in early 2017 to fast forward awareness before summer boating season begins.



#### DBW Oceanography Program \$\$ince 1974

Boating Facilities Design, Access, Safety & Education **Beach Restoration & Erosion Control** 

Health, Inspiration & Education, Biological Diversity & Natural, Cultural Resources, High-Quality Outdoor Recreation



Faculty, Researchers Undergraduates & Graduate Students, Post-Doctoral Fellows Scripps Inst Oceanography U Southern California San Francisco State U British Columbia **UC Santa Barbara** San Diego State UC Santa Cruz UC San Diego **UC Berkeley** U San Diego Ohio State U UA Baja CA U Nevada **UC** Irvine **UCLA** 

Wind Tides Waves El Niño Sea level **Tsunamis** Cliff erosion Beach erosion Parks facilities **Urban flooding** Harbor flushing Water resources Delta boat traffic Wind-blown sand Anti-fouling paint Harbors & halibut Sand nourishment Delta levee erosion Longshore currents Antarctic ice shelves Surf zone turbulence Long-term temp/salinity Petroleum hydrocarbons

Fog

Data & Peer-Reviewed Journal Articles

#### Publications 2015

- Neira, et al., 2015. Macrofaunal recolonization of copper-contaminated sediments in San Diego Bay, Mar. Poll. Res., 101.
- Holmes-Dean, et al., 2015. Spectral Characteristics of the 1960 Tsunami at Crescent City, CA, Sci. Tsunami Hazards, J. Tsunami Soc. Int.
- Rasmussen, et al., 2015. Source Location Impact on Relative Tsunami Strength along the U.S. West Coast, J. Geophys. Res.
- Young, 2015. Recent deep-seated coastal landsliding at San Onofre State Beach, California, *Geomorph*.
- Kim and Cornuelle, 2015. Coastal ocean climatology of temperature and salinity off the Southern California Bight: Seasonal variability, climate index correlation, and linear trend, *Prog. Oceanog*.
- Gallien, et al., 2015. Geometric properties of anthropogenic flood control berms on southern California beaches, Ocean & Coastal Mgmt.
- Ludka, et al., 2015. Field evidence of beach profile evolution toward equilibrium, J. Geophys. Res.
- Fiedler, et al., 2015. Observations of runup and energy flux on a low-slope beach with high-energy, long-period ocean swell, Geophys. Res. Lett.
- Kochnower, et al., 2015. Factors Influencing Local Decisions to use Habitats to Protect Coastal Communities from Hazards, Ocean & Coastal Mgmt.

#### Publications 2016

Flick, 2016. California tides, sea level, and waves – Winter 2015-16, Shore & Beach.

Neira, et al., 2016. Occurrence and distribution of polycyclic aromatic hydrocarbons in surface sediments of San Diego Bay marinas, Mar. Poll. Bull.

Doria, et al., 2016. Observations and modeling of San Diego beaches during El Niño, Cont. Shelf Res.

O'Reilly, et al., 2016. The California coastal wave monitoring and prediction system, Coastal Eng.

Bromirski, et al., 2016. Storm Surge Along the Pacific Coast of North America, J. Geophys. Res.

- Diez, et al, 2016. Ice shelf structure derived from dispersion curve analysis of ambient seismic noise, Ross Ice Shelf, Antarctica, *Geophys. J. Internat*.
- Costa-Cabral, et al., 2016. Projecting and Forecasting Winter Precipitation Extremes and Meteorological Drought in California Using the North Pacific High Sea Level Pressure Anomaly, J. Climate.
- Gallien, T.W., 2016. Validated coastal flood modeling at Imperial Beach, California: Comparing total water level, empirical and numerical overtopping methodologies, *Coastal Eng.*

## 2013-15 Warming & El Niño 2015-16







- Blob warming bigger impact than El Niño Productivity decrease Ecosystem disruption Drought
- □ El Niño Minimal Coastal Impact
  Peak high tides lower & earlier
  High sea levels earlier
  Storm waves fewer, weaker, later

## Hydrocarbon Toxics in Marinas



Contents lists available at ScienceDirect

#### Marine Pollution Bulletin

journal homepage: www.elsevier.com/locate/marpolbul



- Toxic
- Persistent
- Bio-accumulates

Occurrence and distribution of polycyclic aromatic hydrocarbons in surface sediments of San Diego Bay marinas

Carlos Neira a., Jennifer Cossaboon b, Guillermo Mendoza a, Eunha Hoh b, Lisa A. Levin a

- \* Integrative Oceanography Division and Center for Marine Modiversity and Conservation, Scripps Institution of Oceanography, La Jolla, CA, USA
- <sup>b</sup> Graduate School of Public Health, San Diego State University, San Diego, CA, USA

#### ARTICLE INFO

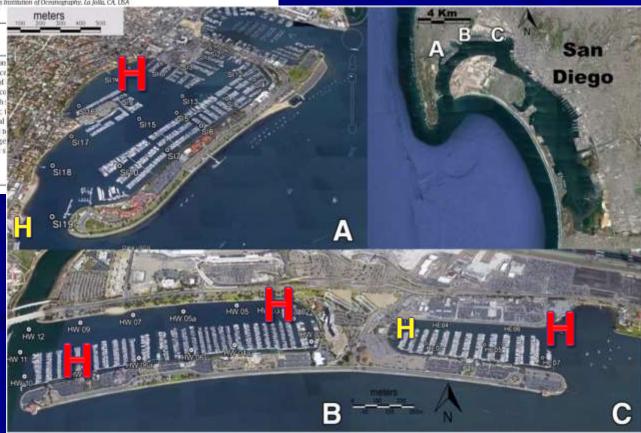
Article history: Received 17 May 2016 Received in revised form 2 September 2016 Accepted 3 October 2016 Available online xxxx

Anywords: Polycyclic aromatic bydinicarbons Surface sediment Spatial distribution Pollution Marina San Diego Bay

#### ABSTRACT

Polycyclic aromatic hydrocarbon genic properties; and persistence sources of PAHs in sediments of ferences among marinae, with co tion suggest an association with: rings) were dominant (>863); 1 (61.4–703) but ecotoxicological contributor (>90%) to the total in ments appear to be derived large basins by aerial deposition and si

- □ Cars
- □ Storm drains



## Oceanography Program 2016-17

- □ CDIP CA Buoys Wave & beach research, NWS forecasts, boating safety, www.cdip.ucsd.edu
- □ CDIP Waves & Beaches Boating facility & state beach wave & shore change modeling & prediction
- □ Facilities Flood Modeling (UCLA) OC Marina & state beach flood & MSL rise risks
- State Beaches & Estuaries Torrey Pines & San Elijo state beach UAV inlet closure & big events
- □ State Beach & Cliff Erosion Current hazards & worsening from MSL rise
- □ Shore Stations 100-yr long temperature & salinity measurement, analysis & dissemination
- □ Sea Level & Storm Surge Trends & coincidence with waves that cause boating facility damage
- > Toxics in Marinas Cu, PAHs & PCB contaminant impacts on soft-bottom organisms

#### Ross Ice Shelf Seismometer Removal

#### Response of the Ross Ice Shelf, Antarctica, to ocean gravity-wave forcing

Peter D. BROMIRSKI,1 Ralph A. STEPHEN2

Integrative Oceanography Division, Scripps Institution of Oceanography, University of California, San Diego, La Jolla, CA, USA

E-mail: pbromirski@ucsd.edu

Woods Hole Oceanographic Institution, Woods Hole, MA, USA

ABSTRACT. Comparison of the Ross Ice Shelf (RIS, Antarctica) response at near-front seismic station RIS2 with seis stations at Scott Base on tification of

#### ACKNOWLEDGEMENTS

RIS-specific

driven wind waves and sw Support for this study for P.B. from the California Department RIS varies with season a of Boating and Waterways, US National Oceanic and Atmosse of the RIS to IG wave an pheric Administration (NOAA) grant NA10OAR4310121 ctral peak at

near-ice-front and US National Science Foundation grant OC damped by so gratefully acknowledged. Support for R.S. was the Edward W. and Betty J. Scripps Chair for E

combined with the appearance of a spectral peak near 10 Hz in April whe that lower (higher) temperatures during austral winter (summer) mon characteristics and hence mechanical properties of the RIS.





Central question in climate change today: "What will the ice do?"