



bay restoration commission

STEWARDS OF SANTA MONICA BAY

santa monica bay restoration commission 320 west 4th street, ste 200; los angeles, california 90013

213/576-6615 phone 213/576-6646 fax www.smbrc.ca.gov

November 14, 2014

Agenda Item: 3 a ii

To: SMBRC Executive Committee

From: Tom Ford, Executive Director

Re: The Santa Monica Bay Restoration Authority (Authority) Fiscal Year (FY) 2014-2015 Budget

Action Requested of the Executive Committee:

- Recommend Governing Board Approval of the Authority FY 2014-2015 Budget

Background

The Authority was created by a joint exercise of powers agreement between the Santa Monica Bay Restoration Commission (SMBRC) and the Los Angeles County Flood Control District (District) and operates as a local public agency within the Santa Monica Bay Watershed and the jurisdictional boundaries of the SMBRC and the District. The purpose of the Authority is to broaden funding opportunities for projects within the Santa Monica Bay Watershed.

The SMBRC is responsible for the administration of the Authority. The District is responsible for the Authority's Fiscal Controls. At its October 1, 2014 meeting, the Authority approved the FY 2014-2015 budget and the three ongoing programs associated with it. The Los Angeles County Board of Supervisors is expected to approve the budget currently before this body at its January or February meeting.

The Authority provides an efficient method by which state agencies can fund important programs of the Santa Monica Bay National Estuary Program. The three programs contained in the budget, the Clean Boating Education Program, the Wetlands Monitoring Program, and the Malibu Lagoon Monitoring Program, are part of the annual Work Plan that is approved by this Governing Board each year. The funding for these projects will pass from the California State Parks and Recreation agency (Boating and Malibu programs) and the US EPA (Wetlands program) to the Authority to be allocated to The Bay Foundation staff responsible for the three programs.

The detailed budget as well as a description of the three programs are attached to this report.

our mission: to restore and enhance the santa monica bay through actions and partnerships that improve water quality, conserve and rehabilitate natural resources, and protect the bay's benefits and values



SMBRA BUDGET 2014-2015

BUDGET
Oct 2014-Sept 2015

BOATER PROGRAM

Task 1. Education and Outreach Program Management	\$16,875.00
Task 2. Pumpout Station Monitoring	\$6,041.67
Task 3. Honey Pot Day Unlimited - Mobile Pumpout Outreach	\$5,833.33
Task 4. Pilot Harbor Staff Presentations	\$0.00
Task 5. Boating Events	\$33,958.33
Task 6. California Clean Boating Network/Newsletter	\$11,208.33
Task 7. Outreach Materials	\$31,875.00

Overhead \$10,579.17

Total Boater Program 116,370.83

WPDG PROGRAM

Salaries and Benefits:	\$55,400.00
Contractual	\$30,000.00
Equipment	\$0.00
Supplies	\$1,500.00
Travel	\$3,100.00
Other	\$0.00
Overhead	\$0.00

Total WPDG Program \$90,000.00

Malibu Lagoon - Post-Restoration

1 Project Management	\$22,648.11
2 Download and clean data, maintain database	\$7,763.66
3 Field surveys	\$24,132.34
4 Chemistry lab analyses	\$20,571.43
5 Benthic macroinvertebrate lab analyses	\$26,331.43
6 Avian monitoring (Cooper Ecological Monitoring Inc.)	\$9,642.86
7 Fish Surveys (none)	\$0.00
8 Annual reporting	\$5,357.14
9 Data probe maintenance	\$6,428.57
10 Date probe replacement	\$3,214.29
11 Mileage	\$1,210.71
12 Equipment and supplies	\$3,750.00
13 Volunteer Management	\$9,145.44

Total ML Post-Restoration Program \$140,195.98

TOTAL GRANTS BUDGETS 346,566.81

ANNUAL AUDIT \$ 14,850.00
AUDITOR-CONTROLLER FEE - 10% \$ 1,485.00

TOTAL SMBRA BUDGET FOR 2014-2015 362,901.81



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Statewide Clean Boating Education Program Clean Vessel Act Grant

Scope of Services and Schedule of Deliverables Work to be performed April 2014 - January 2015

1. Education and Outreach Program Management

Manage statewide outreach and education efforts to promote proper sewage management and sustainable boating practices.

Statewide

- Complete specialized bi-weekly reporting to CVA grant manager on accomplishments, and give notification of upcoming events, new outreach materials, and future tasks.
- Manage grant invoicing, reporting, and timelines (i.e. grant management and work completion).

Northern California

- Work with program partners (i.e. San Francisco Estuary Partnership, Division of Boating and Waterways) to implement statewide CVA education program.
- Hold annual planning meetings with program partners to coordinate outreach efforts.

Southern California

- Develop annual work plan for Southern California outreach campaign, in accordance to CVA guidelines.
- Create and submit payment request and progress reports.
- Maintain web resources for Boating Education Program.
- Hold biweekly planning meetings with grant manager.

2. Pumpout Station Monitoring

Monitor public sewage pumpout facilities in California, which have been funded with CVA grant funds, in order to maximize performance level of facilities.

- Conduct quarterly visits of vessel sewage pumpout facilities in Southern California to check functionality and condition of pumpouts. Staff will write and submit quarterly reports of visits to grant manager. Reports are due by the last day of the monitoring month.

3. Honey Pot Day Instructional Video – “Honey Pot Live”

Develop a Honey Pot Day program for the web where boaters take an online “class” to receive a free mobile pumpout.



- Develop an online class for boaters about proper sewage management, effects of illegal sewage discharge. Boaters must view the Division of Boating and Waterways and San Francisco Estuary Partnership sewage pumpout video, read educational materials regarding boat sewage, and complete an exam in order to receive a voucher for a free mobile pumpout. Honey Pot Live will be promoted in Marina del Rey, King Harbor, Long Beach, and Los Angeles harbors. The video will be accessible via the Honey Pot Day website. Promote the program via marina and yacht club presentations, flyers, press releases, newsletters, web resources, and social media.
- Coordinate voucher, invoice, and registration processes with mobile pumpout companies.
- The goals of these videos are to decrease staff time and travel expenses to reach boaters, and increase number of boaters reached.
- Performance evaluation will be measured by number of boaters who complete the class, number of vouchers redeemed, number of new contracts with mobile pumpout companies, and gallons of sewage pumped.

4. Boating Events

Promote sustainable boating practices, such as proper management of vessel sewage, at public boating events.

- Conduct outreach at 10 boating events throughout the year including, but subject to change: Sunroad Boat Show (Jan 23-26), Newport Beach Boat Show (April 3-6), Marina Fest (May), Sea Fair (May), Dana Point Boat Show (June), and Santa Barbara Harbor and Seafood Festival (October), Santa Monica City Festival (June), Fiesta Hermosa (May), Manhattan Beach Hometown Fair (October), and Torrance Environmental Day (June).
- Participate in marina and yacht club events and offer presentations and technical assistance throughout the year, as needed.
- Coordinate Coastal Cleanup Day in Marina del Rey, where vessel sewage and other boating related pollution issues will be highlighted.
- Subject to grant manager approval and availability of travel funds, attend at least two marine related conferences and trade shows (e.g., SOBA, and MRA, CA Association of Harbor Masters & Port Captains conferences).
- Coordinate volunteers to conduct face-to-face outreach at boat shows and other events.
- Develop an interactive booth space to attract boaters in addition to use of Boater Kits. Interactivity, subject to change, will include demonstrations, boater activity participation, Boater Guide app display kiosk, and more.
- Produce materials to acquire event sponsorship (i.e. coupons, flyers, signs, etc.).

5. California Clean Boating Network & Changing Tide Newsletter

Coordinate with statewide CCBN partners to promote information exchange of new programs and ideas.

The CCBN consists of three chapters: Northern, Delta, and Southern California chapters. The Northern California chapter is managed by the Division of Boating and Waterways Statewide Boater Program and California Coastal Commission's Clean and Green Campaign. The Delta chapter is managed by Contra Costa County. Each chapter hosts networking events, in their



region, to discuss issues related to boating and maintaining clean waterways. All three chapters contribute Changing Tide articles for their 2-page sections and co-author cover articles.

Newsletters are published three times per year, typically in spring, summer, and winter. The planning of each issue includes one conference call to plan the timeline, choose articles, and discuss other production details. TBF is the lead editor and graphic designer. Research, writing, and graphic design take up about 40 hours of staff time per issue and consulting services for graphic design. On average, 5,700 newsletters are printed: 500 are purchased and distributed by Contra Costa County, 2,700 are purchased and distributed by Division of Boating and Waterways Statewide Boater Education Program, and 2,500 are purchased and distributed by The Bay Foundation. CVA funds pays for 68% of total cost.

- Collaborate with CCBN partners to produce three issues of the Changing Tide newsletter.
- Send staff to Northern California and Delta CCBN meetings, as needed.
- Print approximately 5,700 newsletters per issue, subject to change based on varying number of subscribers.
- Distribute newsletters to marinas, yacht clubs, boating organizations, and marine businesses in San Diego, Orange, Los Angeles, Ventura, and Santa Barbara Counties.

6. Outreach Materials

Create outreach materials to promote sustainable boating practices, such as proper management of vessel sewage, and a performance evaluation tool to measure program success.

6A. Southern California Boater's Guide, 4th Edition and Phase III

- Distribute and promote the Southern California Boater's Guide, 4th Edition.
- Continue to update the e-book, which includes developing short sewage related videos (10-20 seconds in length), updating design and photo images, and revising content such harbor information, telephone numbers, websites, boating laws, statistics, etc.
- Develop mobile phone application for the Smart Boater's Guide. This mobile phone application will include maps from the Boaters Guide, searchable list of mobile pumpouts and other environmental amenities, and real time, user-based comments on environmental amenities such as logging broken pumpouts.

6B. Clean Boating Interactive Booth Space

- Produce an interactive booth space to draw boaters to the booth and give boaters an experience they can remember. The experience based outreach tool will eventually replace the boater packets, thus decreasing material waste and printing expenses. Interactivity, subject to change, will include demonstrations, boater activity participation, Boater Guide app display kiosk, and more. Final ideas will be developed with input by Division of Boating and Waterways Statewide CVA partners and will require final approval by the grant manager.

6C. Boater Packets

- Coordinate fulfillment of boater packets.
- Distribute outreach materials to boaters and volunteers.
- Administer a performance evaluation tool (i.e. clean boating pledge and survey).



6D. Tidebooks

- Produce 4,000 tidebooks for Southern California

- Update environmental facilities in Tidebook (i.e. individual maps of Southern California harbors from Punta Morro to Morro Bay, locations of sewage pumpout stations and other environmental facilities, and clean boating information).

- Distribute tidebooks at boating events, presentations, boating supply stores, etc.



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Wetlands Monitoring Program Summary EPA Wetland Program Development Grant

Abstract:

Monitoring and assessment strategies developed by the State of California and the US Environmental Protection Agency (EPA) universally call for coordinated and consistent approaches to monitoring and assessment. Unfortunately, our ability to meet this goal is limited. Although we have made progress over the last several years in developing standardized rapid (i.e. Level 2) assessment methods, there has been significantly less attention paid to standardized intensive (i.e. Level 3) assessment methods. Intensive assessment methods provide information on ecological function and process, are more diagnostic of restoration performance and regulatory compliance, and are important as a validation measure for rapid assessment methods. The lack of consistent approaches to intensive assessment limits our ability to share information between projects, precludes use of Level 3 data in ambient monitoring, and fosters redundancy as each project develops its own protocols and assessment techniques. With eight major coastal wetland restoration projects currently being planned along the Southern California Bight, timing is optimal for development and testing of standardized Level 3 assessment procedures. This program sets out to accomplish that goal by compiling and analyzing existing assessment procedures, developing proposed standardized approaches in coordination with technical advisors, exploring the covariance between these new Level 3 protocols and existing Level 2 (i.e. California Rapid Assessment Method) assessment tools, and developing protocol documents and training materials to facilitate information transfer to other projects.

Specific project tasks are as follows:

Task 1: Develop Indicators and Preliminary Protocols

This task will build on previous work conducted by the Wetlands Recovery Project members to develop indicators for Level 3 assessment of coastal wetlands. Existing monitoring plans and reports, state and federal guidance documents, and peer-review journals will be compiled and reviewed.

Task 2: Refine Level 3 Monitoring Protocols

The preliminary protocols developed in Task 1 will undergo Technical Advisory Committee (TAC) review to develop final Level 3 protocols for field testing as part of this task. Public meetings of the TAC will provide direct feedback and discussion of the proposed protocols, and will serve as an opportunity to engage science experts and agencies' staff and to refine protocols. Additionally, a Quality Assurance Project Plan will also be prepared and submitted to the EPA as part of this task.

Task 3: Field Test Level 3 Protocols



Sites will be selected to cover the diversity of habitats and conditions, including levels of degradation and restoration, represented in southern California wetlands. Protocols will be selected for each wetland based on habitat (e.g. does the site have submerged aquatic vegetation) and conditions (e.g. muted or restricted tides). Initial field testing will determine feasibility, level of effort, field or lab time, and cost of each protocol. Field protocols will be implemented at all sites over an 18-month period to capture seasonal variability, and allow some repetition of protocols. In addition to reporting on application of the protocols, data will be summarized to produce an initial Level 3 assessment of condition in the study wetlands. These results will be compared to Level 2 data previously collected to demonstrate an integrated assessment of coastal wetland health.

Task 4: Develop Level 3 Monitoring Manual

The final monitoring and assessment documents prepared under Task 3 will undergo TAC review to develop a Level 3 monitoring and assessment manual for southern California coastal wetlands as part of this task. The final Level 3 monitoring manual will be developed through an iterative, public process and the final document will include detailed protocols, recommended priority for implementation (e.g. whether to monitor vegetation or birds), level of effort, field and lab time required to implement protocols.

Task 5: Outreach

Program partners will present the progress and results of the Level 3 protocol development and the Level 3 manual throughout the program period. Presentation will be made at state and national scientific conferences to discuss and receive feedback on the process to develop Level 3 protocols. In addition, program partners will meet directly with monitoring practitioners to discuss the benefits and application of Level 3 monitoring protocols.



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MALIBU LAGOON – RESTORATION AND ENHANCEMENT PROJECT – MONITORING GRANT

Through a grant from California Department of Parks and Recreation to the Santa Monica Bay Restoration Authority (SMBRA), the SMBRA is organizing and performing all required surveys, monitoring, data analysis and reporting to meet the required Coastal Development Permit conditions for the Malibu Lagoon Restoration and Enhancement Project (COP # 4-07-098) as documented in Biological and Water Quality Monitoring Plan and Vegetation Assessment and Monitoring Plan. SMBRA will compile and analyze all data collected each year and produce a cumulative annual report. The report will meet the reporting requirements outlined in the Coastal Development Permit. SMBRA will also provide coordination and supervision for volunteer plant maintenance crews.

GRANT TASKS:

Task 1 – SMBRA will manage the entire project including all sub-contractors to ensure all required monitoring and reporting is completed. SMBRA will prepare a single invoice for work completed during each invoicing period. It is estimated that project management will require three days per month.

Task 2 – Conduct continuous monitoring of water quality using three Yellow Springs Instruments (YSI) data sondes to collect dissolved oxygen, specific conductivity, salinity, pH, Oxygen Reduction Potential (ORP), water temperature and depth every 30 minutes. Conduct monthly data downloading, calibration and re-deployment of YSI data sondes, data cleaning and maintenance of the project database.

Task 3 – Field surveys and water quality data collection will be conducted twice annually, except for benthic macroinvertebrate (see details below). Field surveys include the following:

- Water quality vertical profiles at multiple depths at six locations: pH, Specific conductivity, dissolved oxygen, salinity, temperature;
- Surface and bottom water quality at six locations;
- Topographic cross sectional surveys across five transects;
- Three vegetation transects;
- Vegetation photo point monitoring at three locations;
- Submerged aquatic vegetation (SAV) and algae on eight transects;
- Sediment sample collection from five locations;
- Benthic macroinvertebrates: three samples (2.5 cm core, 10 cm core, littoral sweep) from eight stations per event, five fall events during closed condition and three spring events during open condition.



Task 4 – Chemistry lab analyses will be conducted twice annually by a state-certified laboratory and will include the following:

- Surface and bottom water quality: nitrate as nitrogen, ammonia as nitrogen, total Kjeldahl nitrogen, orthophosphate, total phosphorous, and chlorophyll-A
- Sediment: grain size, total organic carbon, total nitrogen, and total phosphorous.

Task 5 – Benthic macroinvertebrate lab analyses will be conducted by taxonomic professionals.

Task 6 – Avian monitoring will be conducted by an ornithologist a minimum of three days per quarter or 12 days per year. An annual report will be produced that compares the pre-restoration and post-restoration data and changes over time.

Task 7 – None

Task 8 – The Bay Foundation will compile and analyze all data collected on an annual basis and create an Annual Report. The Annual report will satisfy the Coastal Commission's reporting requirements for this project.

Task 9 – Data Probe maintenance: the data sondes will be sent back to YSI annually for maintenance. The probe sensors for ORP, pH, and conductivity will be replaced annually. The average maintenance and replacement cost per year is \$2,000.00 per sonde or \$6,000.00 for three data sondes.

Task 10 – The two oldest probes may need replacement during the five year monitoring program. Replacement of each probe will cost \$7,500.00 or \$15,000.00 to replace two data sondes over the course of the project.

Task 11 – Mileage to travel to and from the Lagoon to conduct monitoring and field surveys. Mileage charges to and from State Certified laboratory and to acquire necessary monitoring supplies. It is estimated that these tasks will require 2000 miles per year of travel.

Task 12 – Equipment and supplies includes calibrating solutions and water quality standards to calibrate data sondes and water quality probes, glassware and plastic sampling containers, nets, waders, and miscellaneous equipment associated with sampling. It is estimated that equipment and supplies will cost \$2,500.00 per year.

Task 13 – Volunteer coordination and supervision. Advertise for volunteers on the internet, fill out volunteer waiver forms, supply and deliver tools, train and supervise volunteers, track volunteer hours and work accomplished. Three monthly events for one year.