

SANTA MONICA BAY NATIONAL ESTUARY PROGRAM
Draft Fiscal Year 2017 Work Plan
(October 1, 2016 – September 30, 2017)

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I. INTRODUCTION

Section 320 of the federal Clean Water Act establishes the National Estuary Program (NEP), which is administered by the United States Environmental Protection Agency (USEPA). To implement the NEP, USEPA identifies national estuaries, develops a plan to restore the estuaries, and provides grants to pay for activities necessary to implement the plan. USEPA identified the Santa Monica Bay as a national estuary and approved the Santa Monica Bay Restoration Plan (BRP), with the concurrence of the State that identifies actions and priorities to restore the Santa Monica Bay. The Santa Monica Bay National Estuary Program (SMBNEP) is implemented by three entities: the Santa Monica Bay Restoration Commission (SMBRC), the Santa Monica Bay Restoration Authority (SMBRA), and the Santa Monica Bay Restoration Foundation also known as The Bay Foundation (TBF).

SMBRC is a non-regulatory, locally-based state entity established by an act of the California Legislature in 2002 (Pub. Res. Code §30988(d)). SMBRC is charged with coordinating activities of federal, state, local, and other entities to restore and enhance the Santa Monica Bay, including identifying and leveraging funding to put solutions into action, building public-private partnerships, promoting cutting-edge research and technology, facilitating stakeholder-driven consensus processes, and raising public awareness (www.smbrc.ca.gov). SMBRC brings together local, state, and federal agencies, environmental groups, businesses, scientists, and members of the public on its 36-member Governing Board. SMBRC is also supported by a Technical Advisory Committee, and a broad stakeholder body, the Watershed Advisory Council. SMBRC's enabling statute provides, among other actions, that SMBRC can receive funds to restore the Santa Monica Bay and to award and administer grants. The state legislature has not appropriated funds to SMBRC.

SMBRA was created by a joint exercise of powers agreement between SMBRC and the Los Angeles County Flood Control District and operates as a local public agency within the Santa Monica Bay watershed and the jurisdictional boundaries of SMBRC and the District. The purpose of SMBRA is to broaden funding opportunities for projects within the Santa Monica Bay Watershed, and it provides an efficient method by which state agencies can fund important programs of SMBNEP.

TBF is an independent, non-profit 501(c)(3) organization founded in 1990. The mission of TBF is to contribute to the restoration and enhancement of the Santa Monica Bay and other coastal waters. (www.santamonicabay.org) TBF receives an annual grant from USEPA pursuant to section 320 of the Clean Water Act (33 U.S.C. §1330) to implement the BRP (also known as the Comprehensive Conservation and Management Plan). TBF also receives important grants and donations from other entities to support TBF and its activities.

Between 2007 and 2008, SMBRC in coordination with TBF conducted a comprehensive update of the original 1995 BRP through a public and iterative process with active participation from members of the Governing Board as well as members of the Watershed Advisory Council (WAC) and the Technical Advisory Committee (TAC). The 2008 BRP was updated again in 2013 through a similar public process. The 2013 BRP Update lays out approaches and strategies intended to result in making substantial progress toward bay restoration over the next ten to

twenty years. More specifically, the BRP Update presents a set of new goals, objectives, and milestones to address remaining issues and new challenges, and reflects the consensus of SMBRC partners with regard to the best strategies and priorities to ensure continued progress and achieve eventual restoration of the Bay and its watershed.

This work plan is prepared by SMBRC, through collaboration with TBF and input from the WAC. The purpose of this Work Plan is to identify the program objectives, tasks, timelines and budgets of the work to be performed during the federal fiscal year 2017 (FY17): October 1, 2016 – September 30, 2017, specifically to accomplish the goals and objectives of the 2013 BRP Update¹ and various technical, managerial, and administrative activities necessary to continue to advance the mission of SMBNEP.

The funding for TBF's supporting activities identified in this Work Plan comes primarily from the federal Clean Water Act section 320 "base" grant funding and matching funds from various State and local sources. The Clean Water Act section 320 grant is administered by USEPA and provided to TBF for carrying out certain of the annual Work Plan activities. In lieu of direct funding, the State Water Resources Control Board (SWRCB) contributes by providing state staff, office space, and other administrative services to SMBRC. Since SMBRC has no direct staff of its own, employees of TBF, staff of the SWRCB, and contractors hired by TBF carry out the key functions of SMBRC.

In addition to the SWRCB contribution, the 50-50 federal grant match requirement is met using funds from the State bond grants (e.g., Proposition 50 and 84 grants administered by the SWRCB and Proposition 12 grants administered by the State Coastal Conservancy (SCC), and other State and local grant funds received and managed by TBF and SMBRA). Projects conducted by other entities identified in this Work Plan are funded by various sources secured by those entities.

Section II of the Work Plan provides an overview of the activities to be undertaken in FY17. Section III provides details on the individual tasks and how each task advances the goals of the BRP. Section IV depicts the Work Plan budget.

II. WORK PLAN OVERVIEW

The scope of this Work Plan is broad. Significant efforts will continue to be devoted to carry out water quality improvement and habitat restoration programs and projects, aimed at achieving the objectives and milestones in the Water Quality and Natural Resources sections of the BRP. There will also be more focus and efforts on implementing programs that interconnect and integrate issues across traditional boundaries such as climate change, and comprehensive monitoring. In addition to projects led and carried out directly by entities of SMBNEP, staff will work with partner organizations and other stakeholders toward collaborative programs, and facilitate and promote activities by partner organizations and stakeholders to achieve the objectives and milestones of the BRP. Furthermore, as an integral part of these efforts, staff will

¹ Electronic version of the 2013 BRP is available and can be downloaded via SMBRC's website at http://www.smbrc.ca.gov/about_us/smbr_plan/

conduct public education and outreach to the public and policy-makers about the state of Santa Monica Bay, the activities and accomplishments of SMBNEP, and the ways the public can help improve the ecological health of the Bay. Staff will also continue to track implementation of the BRP, and ensure the fiscal stewardship and program capacity of SMBNEP.

This Work Plan includes activities that support implementation of the BRP and will contribute to achieve the following goals identified in USEPA's Strategic Plan:

- Goal 2: Clean and Safe Water
- Goal 3: Land Preservation and Restoration
- Goal 4: Healthy Communities and Ecosystems, and
- Goal 5: Compliance and Environmental Stewardship

The role of each SMBNEP entity (SMBRC, TBF, SMBRA) may differ for each specific Work Plan task or activity and their roles are clearly identified in the Work Plan as one or more of the following:

Lead: SMBNEP entity is the lead sponsor and oversees completion of the project activity, and/or the entity carries out the projects directly.

Participate: SMBNEP entity contributes staff and/or other resources and actively engages in project activities.

Facilitate: SMBNEP entity provides assistance in coordination, consensus and partnership-building, information exchange, fund raising, etc.

Promote: SMBNEP helps to accomplish the project by actively campaigning for, and/or helping to disseminate information, etc. for the associated activities.

Support: SMBNEP advocates for the project or activity by adopting policy statements, offering endorsements, providing supporting letters, testimony, etc.

III. TASK DESCRIPTIONS

This section outlines each of the FY17 Work Plan tasks in detail, with clear identification of the roles of each SMBNEP entity. The particular BRP actions that are linked to each task are identified, along with the anticipated environmental results, and performance measures. Environmental results are divided into Outputs (i.e., an activity or effort and/or associated work products that are produced or provided over a specific period of time) and Outcomes (i.e., environmental changes or benefits resulting from such activities/ efforts) and refer to results that are expected to be achieved in FY17.

1. Water Resources and Quality Improvement

1.1 Improve water quality through Total Maximum Daily Load (TMDL) implementation

Section A of the BRP lays out goals, objectives, and milestones for addressing major water quality issues existing in the Bay and the Bay watershed. One primary goal of this Section is to improve water quality through enhancement of current regulatory framework and collaborative, integrated watershed-wide planning and implementation (Goal #1). To achieve this goal, SMBNEP has worked, and will continue to work with parties responsible for meeting allocations of total maximum daily loads (TMDLs) and dischargers responsible for complying with NPDES permits. Specific contributions of SMBNEP include recommending awards and overseeing implementation of State Prop. 50 and 84 grant funding for storm water pollution reduction projects, and facilitating other sources of State funding. SMBNEP has also facilitated, and will continue to facilitate the achievement of TMDL waste load and load allocation targets through integrated regional water resource management approach, which will not only improve the Bay's water quality, but also aid in recharging local groundwater supplies and conserving water.

1.1a Implement storm water pollution control BMP funded through Prop. 84 bond and other grant programs.

SMBRC will continue to provide oversight of, and technical support for pollution prevention and habitat restoration projects funded through Prop. 84 grant programs. SMBRC Governing Board recommends funding of projects through this program to the State Water Resources Control Board (SWRCB) after a public process to ensure they meet the BRP objectives and address the BRP priorities, meet the requirements of the enabling legislation, and are consistent with USEPA's Strategic Plan. Adequate oversight of these projects is essential and entails close coordination with SWRCB staff and project proponents in preparing grant agreements, project execution, and project reporting. In 2017 and future years, staff will work with SWRCB to oversee implementation of the ongoing university park rain garden and a set of new projects, most of which will implement projects identified in the Watershed Management Plans (WMPs) and Enhanced Watershed Management Plans (EWMPs) to comply with the Los Angeles County MS4 permit.

1.1b Promote and participate in integrated watershed-wide water quality improvement planning and implementation (EWMP, IRWMP, etc.)

SMBRC will continue to support the collaborative effort of local environmental, municipal and business communities for the County-wide storm water and urban runoff funding measure. SMBRC and TBF will also continue to participate in activities of sub-region stakeholder groups and other mechanisms. SMBRC will continue to work with the TAC to facilitate storm water monitoring, especially regional efforts to monitor effectiveness of LIDs.

In 2013, SMBRC was re-elected as one of ten members of the Leadership Committee charged with developing an integrated water resource management plan (IRWMP) for the Los Angeles Metropolitan region (which includes the entire Santa Monica Bay watershed). Also in 2013, SMBRC lead the development of a new and ground-breaking element focusing on Open Space for Habitat and Recreation during the IRWMP update. During FY17, SMBRC will continue to participate in the activities of the leadership group and provide necessary technical and advisory support. In addition SMBRC will continue to work with LARWQCB staff and others to identify and incorporate regulatory priorities into the selection of specific projects included in the IRWMP, especially projects that lead to water quality improvement by reducing storm water pollutant loading, regulated by the MS4 permit, specific TMDL implementation plans, and related efforts.

SMBRC also sits on the Steering Committees for the North Bay and South Bay sub-regional watershed groups. SMBRC will continue its role on the Steering Committee to work with other sub-regional groups to develop and recommend projects for the sub-regions for funding made available for implementation of the IRWMP.

Task Description	Engaged SMBNEP Entities		Partners	Timeframe
	Entities	Role		
1.1a Implement storm water pollution control BMP funded through Prop. 84 bond and other grant programs				
Oversee pollution control BMPs funded through Prop. 84 bond grants	SMBRC	Lead	SWRCB, LARWQCB, MS4 permittees	Ongoing throughout the work plan time period
Facilitate funding of WMP and EWMP (implement projects. Facilitate availability of Prop. 1 funding.)	SMBRC, TBF	Facilitate	LARWQCB, MS4 permittees	Ongoing throughout the work plan time period
1.1b Promote and participate in integrated watershed-wide water quality improvement planning and implementation				
Support the County-wide storm water/urban	SMBRC, TBF	Support	LA County, MS4 permittees	Ongoing throughout the work plan time period

runoff funding measure.				
Participation in activities of sub-region stakeholder groups and other mechanisms.	SMBRC	Lead	LARWQCB, MS4 permittees	Ongoing throughout the work plan time period, attend stakeholder meeting on regular basis.
Facilitation of storm water monitoring and monitoring of LID effectiveness	TBF, SMBRC	Facilitate	LARWQCB*, MS4 permittees	Ongoing throughout the work plan time period
Participate in the activities of the leadership group and provide necessary technical and advisory support.	SMBRC	Participate	Los Angeles County Dept. of Public Works (LACDPW)*, municipalities in watershed, Los Angeles County Sanitation District (LACSD), West Basin Water District	Attendance of meetings throughout the work plan time period

*Project lead.

Linked BRP Objectives and Milestones: 1.1a-d

Environmental Results: Outputs: Progress toward TMDL and stormwater permit compliance. Number of projects initiated, in progress, or completed.

Environmental Results: Outcomes: Reduction in “miles of” or “days of” beach closures, exceedances of water quality criteria, and pollutant loadings.

Performance Measures: Improved beach water quality grades at Santa Monica Bay beaches; decreased pollutant concentrations and loading in 303(d)-listed waterbodies.

**1.2 Improve water quality through nonpoint source pollution control and prevention.
Core Function = Facilitation/Implementation**

Another important goal in the Water Quality Section of the BRP is to improve water quality through pollution prevention and source control (Goal #2). This goal is aimed at implementing projects to reduce and prevent the generation of pollutants at their sources before entering the region’s waterways.. To achieve this goal, SMBNEP has spearheaded and carried out several successful pollution source control programs including the residential rain garden program,

Southern California boater education program, and the Clean Bay Restoration Certification program. In FY 17, SMBNEP will continue to implement and seek opportunities to expand these programs.

1.2a Implement green infrastructure and LID projects in targeted watersheds

Green infrastructure and low impact development (LID) practices are increasingly used as an effective tool to capture and infiltrate storm water on-site. In addition to improving surface water quality, these practices also provide multiple benefits including creation of native habitat, beautification of the urban landscape, and reduction of outdoor water use for irrigation, etc. SMBNEP has given priority to green infrastructure projects when recommending the allocation of the state bond funding (Prop. 50, 84, see Section 1.1a) and seeking grants to implement (TBF) LID projects directly.

In FY15, TBF was awarded a grant from the Metropolitan Water District's (MWD) Innovative Conservation Program and used the grant in FY16 to install rainwater harvesting techniques at four residential properties and evaluated their successes through pre- and post-installation monitoring. TBF was also awarded and completed a Los Angeles Dept. of Water and Power (LADWP) Community Partnership grant that used a diverse outreach strategy to educate the public about energy efficiency and water conservation throughout our region. During FY17, TBF will continue to seek new partnership and funding opportunities for new rain garden, water conservation, and other LID projects, including development and implementation of LID projects on various parkland locations.

1.2b Continue overseeing the Boater Education Program

The Boater Education Program (BEP) provides outreach to the southern California boating community regarding the prevention of recreational boat generated pollution (e.g., sewage, bilge water, and used oil). Specific components of the program include: 1) General boater outreach through development and distribution of printed materials, tools and kits such as the statewide Changing Tide newsletter, Southern California Boater's Guide and eBook, Boater Kits annual boater surveys, and Southern California tide tables; 2) promote use of mobile pumpout services, including the Honey-Pot-Day program; 3) conduct direct outreach at public engagement events and coordinate the Dockwalker volunteer program; and 4) conduct pumpout monitoring throughout Southern California.

The program is funded primarily through grants to SMBRA from the California Department of Boating and Waterways. SMBRA will continue to partner with TBF to oversee and implement the program on a day-to-day basis. Through this grant, the program will include participation in 13 boating events, distribution of 7,000 boater kits statewide, hosting four Dockwalker trainings in Southern California, and hosting Honey Pot Days and education of boaters through an online course. Pumpout monitoring will continue on a quarterly basis and the annual Pumpout Usage Report will be developed and made available to the general public. The program will also continue to provide coordination and related administrative services to the statewide program. TBF will also make effort to increase used oil recycling opportunities, development of new

technologies for boaters to access clean boating amenities (i.e., via smart phone apps), and investigating additional funding sources for these activities.

In addition, SMBRC and TBF will assist the LARWQCB, permittees, and the boater community in disseminating information related to implementation of the copper TMDL in Marina Del Rey, and seeking funding for TMDL implementation assistance projects.

1.2c Clean Bay Restaurant Certification Program

SMBRC and TBF initiated the Clean Bay Restaurant Certification Program in 2008 in order to help beach communities address a significant potential source of pollution – local restaurants. The Certification Program is a collaborative partnership between local agencies, businesses, and consumers and advocates for environmental stewardship and helps cities meet TMDL requirements by preventing storm water pollution by restaurants. Two more cities (Culver City and Inglewood) have joined the program during FY16, bringing the total number of participating cities to nine, and the number of certified restaurants to 450.

In FY17, SMBRC and TBF will continue coordination and promotion of the program and update certification to reflect revised MS4 permit requirements.

Task Description	Engaged SMBNEP Entities		Partners	Timeframe
	Entities	Role		
1.2a Implement green infrastructure and LID projects in targeted watersheds				
Continue monitoring of completed rain garden projects	TBF	Lead	MWD, LADWP	Complete
Seek new partnership and funding opportunities for new rain garden and other LID projects.	TBF	Lead	LADWP, MWD	Ongoing throughout the work plan time period
1.2b Continue overseeing the Boater Education Program				
Conduct general boater outreach through materials development	SMBRA, TBF	Lead	CA State Parks Division of Boating and Waterways, CA Coastal Commission, Contra Costa County,	Ongoing through December 2016 (2017 activities pending on continued grant funding)

			US Coast Guard Auxiliary, US Power Squadrons	
Promote use of mobile pumpout services	SMBRA, TBF	Lead	San Francisco Estuary Partnership, CA State Parks Division of Boating and Waterways	Ongoing through December 2016 (2017 activities pending on continued grant funding)
Conduct direct outreach at public engagement events and coordinate the Dockwalker volunteer program	SMBRA, TBF	Lead	CA State Parks Division of Boating and Waterways, CA Coastal Commission, Contra Costa County, US Coast Guard Auxiliary, US Power Squadrons	Ongoing through December 2016 (2017 activities pending on continued grant funding)
Conduct pumpout monitoring	SMBRA, TBF	Lead	San Francisco Estuary Partnership, CA State Parks Division of Boating and Waterways	Ongoing through December 2016 (2017 activities pending on continued grant funding)
1.2c Clean Bay Restaurant Certification Program				
Continue coordination and promotion of the program and update certification. Work to acquire funding and expand the program	SMBRC, TBF	Lead	Cities in the Bay watershed	Ongoing throughout the work plan time period

*Project lead.

Linked BRP Objectives and Milestones: 2.1d-f, 2.4a-d, 2.5a

Environmental Results: Outputs: Number of new residential rain gardens, and water conservation and storm water retention devices; Southern California Boater's Guide (interactive eBook), Boater Kits, and other educational materials; number of restaurant inspections, and number of restaurants certified.

Environmental Results: Outcomes: Volume of storm water collected/infiltrated, volume of potable water conserved; increased opportunities to receive environmental education about boat generated pollution, decreased amount of illegal sewage discharges; greater awareness of clean Bay issues leading to greater involvement by the public and increased participation of restaurants, and reduced runoff from participating restaurants.

Performance Measures: Improved storm water quality and beach water quality grades at Santa Monica Bay beaches, acres of green space created; indirect measurements of numbers of individuals reached through social marketing techniques (e.g., number of individuals at Dockwalker trainings and events, boat shows, and other boating-related events) and through newsletters and other education and outreach avenues, indirect measurements of the outreach effectiveness via Clean Boater Questionnaires, and amount of properly disposed sewage; number of cities participating, number of restaurant inspections, and number of restaurants certified.

2. Natural Resource Protection and Habitat Restoration

Tasks and activities in this section of the Annual Work Plan are intended to advance the goals, objectives, and milestones that address natural resources-related issues, as laid out in Section B, Natural Resources, of the BRP. The BRP addresses the natural resources-related issues first by supporting better information gathering and implementation of more effective protection policies, regulations, and management programs (Goal #4), and by laying out specific steps and projects needed for protection and restoration for each of the major habitats in the Bay (Goal #7–10).

2.1 Support natural resource protection policies and programs

The lack of enforceable regulations and and/or conservation policies have been identified as a major cause of loss and degradation for all types of habitats, either land or ocean based. Goal #4 of the BRP calls for new regulations and policies such as a stream protection ordinance and fishery management plans be developed and executed to prevent further loss of the remaining habitat areas and living resources within the watershed and Bay,

2.1a Promote Marine Ecosystem Protection through Outreach and Information Sharing

The network of Marine Protected areas (MPAs) in the Southern California Region established by the State of California in 2012 include four in Santa Monica Bay, two along the north coast (Point Dume State Marine Conservation Area, Point Dume State Marine Reserve) and two along the Palos Verdes Peninsula (Point Vicente State Marine Conservation Area (No-Take), Abalone Cove State Marine Conservation Area). To ensure that these MPAs are truly effective in protecting the region's critical habitats and living resources, an adaptive management approach has been designed to provide adequate outreach and inform monitoring, and enforcement. Many specific steps for taking such an adaptive approach are laid out under Objective 4.2 of the BRP: Enhance assessment and effective management of Marine Protected Areas in the Bay.

Initiated and carried out since 2010, the ocean vessel aerial monitoring project (BRP Milestone 4.2d) documents the location, type and activity of ocean vessels operating in state waters with the purpose of informing the south coast Marine Life Protection Act Initiative with a fishery independent data set on the expanse and type of fishing effort in Southern California. Data collected throughout the first two phases of the project were analyzed to describe trends and responses by the fishing community and others, resulting from the newly established network of MPAs and to aid CDFW in improving the effectiveness of MPA enforcement throughout Southern California. After completing the second phase of this project, in FY17 TBF will continue aerial monitoring. This program will include survey flights based on quarterly flight frequency, communication with SoCal MPA Collaborative, Ocean Science Trust, MPA Monitoring Enterprise, and CDFW.

In FY17, in addition to MPA-related monitoring and surveys, TBF will continue to explore funding and partnership opportunities to promote sustainable fishery resource management and marine ecosystem protection. Specifically, TBF will continue to participate in the Los Angeles MPA Collaborative to facilitate management and overcome monitoring and enforcement challenges. TBF will also continue to encourage and promote efforts by the State Department of Fish and Wildlife to complete development of fishery management plan for high priority fisheries, including a stock assessment of California halibut.

2.1b Facilitate adoption of stream protection ordinances.

Objective 4.1 of the BRP calls for facilitation of natural stream protection ordinances and/or policies. With as much as 80 percent of the natural streams in our watershed have been paved over, culverted or channelized. Thus, preserving the natural quality of the remaining stream systems/sections becomes more critical and urgent. Building upon efforts made in previous years, in FY17 SMBRC and TBF, in partnership with other stakeholder groups will continue to facilitate and support adoption of stream protection ordinances by local jurisdictions.

Task Description	Engaged SMBNEP Entities		Partners	Timeframe
	Entities	Role		
2.1a Promote Marine Ecosystem Protection through Outreach and Information Sharing				
Continue quarterly aerial surveys of ocean vessels and communicate with agencies and stakeholders.	TBF	Lead	California Department of Fish and Wildlife*, State MPA Monitoring Enterprise, Ocean Science Trust, Vantuna Research Group, Los Angeles Waterkeeper,	Ongoing throughout the work plan period

			Heal the Bay, Fishing Community, Pepperdine University, LA County Dept. of Beaches and Harbors, State Parks, Statewide MPA Watch Program	
Promote sustainable fishery management.	SMBRC, TBF	Promote	CDFW*	Ongoing throughout the work plan time period
Promote adaptive management and enforcement of Marine Protected Area regulations in collaboration with MPA Collaborative.	SMBRC, TBF	Promote	Heal the Bay, Los Angeles Waterkeeper, Orange County Coastkeeper, WildCoast, Santa Barbara Channelkeeper	Ongoing throughout the work plan time period
2.1b Facilitate adoption of stream protection ordinances.				
In partnership with other stakeholder groups, facilitate and support adoption of stream protection ordinances by local jurisdictions.	TBF	Facilitate	City of LA*, other watershed cities, Heal the Bay	Ongoing throughout the work plan time period

*Project lead.

Linked BRP Objectives and Milestones: 4.1a, 4.2a-d, 4.3a-c

Environmental Results: Outputs: Aerial monitoring data; newly adopted fishery management plans; stream protection policy and ordinance adopted by watershed cities.

Environmental Results: Outcomes: Increased population and diversity of marine organisms as shown by monitoring data; increased and more sustainable harvest of local seafood, increased public awareness of the value of marine resources measured by number of outreach events and participants; linear miles of streams protected.

Performance Measures: Increased resources for enforcement and monitoring of established MPAs, reduced number of MPA regulation violations, increases in species diversity and abundance in MPAs; adopted stream restoration policies and linear miles of streams protected.

2.2 Restore wetlands and streams in the watershed

Wetlands, streams, and riparian zones are lifelines of the Bay watershed ecosystem and their preservation and restoration is a high priority. Goal #7 of the BRP calls for restoration of wetlands, streams, and riparian zones and outlines specific objectives and milestones for restoration of the Ballona Wetlands Ecological Reserve (Reserve), Malibu Lagoon, Topanga Lagoon, and other coastal wetlands. Specific objectives and milestones are also established to restore streams through removal of fish barriers, restore or daylight culverted streams in urban areas, and construct greenways along urban streams. Invasive plants and animals have also become a major threat to the integrity of many wetland and stream habitats in the Bay watershed as addressed by Goal #6 of the BRP, and specific objectives and milestones were established to investigate, control, and eradicate invasive species that affect wetland and riparian habitats, such as New Zealand mudsnail, crayfish, ice plant, and others.

2.2a Facilitate restoration of priority wetlands

Ballona Wetlands Ecological Reserve (Reserve)

The development of the Ballona Wetlands Restoration Plan for the Reserve has been a multi-year process, which entered the CEQA/NEPA process in 2012 with the release of the Notice of Intent/Preparation. The release of the draft Environmental Impact Report/Statement (EIR/S) is scheduled by the project lead agencies in summer 2016. The lead agencies are the California Department of Fish and Wildlife (CDFW) and the State Coastal Conservancy (SCC). With funding support from SCC, TBF conducted and completed a five-year baseline monitoring data collection and assessment project, and provided technical expertise to the restoration Project Management Team (PMT). In FY17, TBF will continue data collection if new funding is obtained and/or at the request of the PMT, and help partner agencies with draft EIR/S review and permit applications for the restoration of the Reserve. Specific activities in FY17 include completion of technical review of the draft EIR/S; assistance with review of public comments; and further technical input as requested by the PMT.

In FY17, TBF will also continue to develop and implement communications strategies in partnership with the lead agencies to continue to involve the public using a variety of methods and opportunities for engagement. Specifically, TBF staff will conduct community outreach through a variety of online and print media, conduct tours and presentations, update websites and social media with relevant information to the draft EIR/S and complete and distribute electronic newsletters.

In FY15, TBF applied for and received funding to implement an interim stewardship management project at the Reserve through community engagement and invasive species removal in a portion of the Reserve that will not be affected by the larger restoration project planning efforts. TBF began implementation of this project in FY16 through initiation of public processes and permit applications, and will continue to carry out the project in FY17. Specific activities will include approximately 5-10 public, community restoration events and the restoration of up to three acres of invasive iceplant in the Reserve. Activities will also include pre- and post-restoration monitoring, and completion of a final report. TBF will also continue to participate in other cleanup efforts and trash removal projects throughout the Reserve.

Based on the results of TBF's wetland monitoring programs, a regional, Level 3 (site-intensive) long-term monitoring program for wetland habitats was conducted at five major estuaries in Southern California from 2011 through 2015. With grant funding awarded from the USEPA Wetland Program Development Grant, SMBRA and TBF partnered with the Southern California Coastal Water Research Project (SCCWRP), California State University Channel Islands (CSUCI), and the Southern California Wetlands Recovery Project (WRP) to develop the framework for Level 3 monitoring, field test numerous protocols, and produce a Monitoring Manual and regional monitoring report. The grant for this project ended in FY16. In FY16, SMBRA, TBF, and their partners applied for and received a new USEPA Wetland Program Development Grant to continue and expand the regional wetland monitoring program to evaluate data from additional wetlands between Point Conception and the Tijuana border. FY17 activities will initiate this program, consolidate regional datasets, and begin analyses in conjunction with multiple project partners.

Malibu Lagoon

After years of planning and construction, restoration of the Malibu Lagoon was completed successfully in May 2013. After completion of the restoration, SMBRA and TBF have led the biological, chemical, and physical post-restoration monitoring. The Year 2 comprehensive, post-restoration monitoring report was completed and published in 2015; it compared post-restoration data to pre-restoration site conditions and data. Similarly, the comprehensive Year 3 report was published in May 2016. Based on data collected thus far, the project has been a resounding success, showing increases in water circulation and movement, removal of the pre-restoration "dead zones", and a healthy and thriving wildlife community. In FY17, SMBRA and TBF will continue to coordinate and work with partners and other stakeholders to conduct post-restoration maintenance and monitoring, continue assistance in invasive plant removal, continue public outreach, and complete annual public reports.

Other coastal lagoons and wetlands

SMBRC and TBF will continue to facilitate restoration of Trancas and other coastal lagoons in Santa Monica Bay.

2.2b Facilitate Stream Restoration and fish barrier removal

SMBNEP has been active in facilitating stream restoration programs and projects through sponsorship of historical ecology study, greenway plan development, direct funding support and implementation of fish barrier removal as well as stream restoration projects. Building upon the progress made in previous years, activities in FY17 will include:

- Continue to promote more fish barrier removal projects.
- Complete all aspects of the Arroyo Sequit fish passage removal project
- Continue to support the effort to restore Topanga Creek narrows and replace the PCH bridge at Topanga Lagoon.
- Continue maintenance of the restored Stone Canyon Creek on UCLA campus.
- Continue to build support and seek funding for implementation for stream daylighting, restoration, and greenway projects.
- Continue to facilitate completion of the Rindge Dam removal feasibility study.

In addition, SMBRC and TBF will continue to lead efforts to address the environmental damage caused by invasive species, including continuing to conduct and report on the result of the annual mudsnail infestation surveys in the Northern Bay watershed, facilitating and participating in projects for eradication of crayfish and other invasive species in the North Bay/Santa Monica Mountains watersheds.

Task Description	Engaged SMBNEP Entities		Partners	Timeframe
	Entities	Role		
2.2a Facilitate restoration of priority wetlands				
Conduct data collection and assist with the environmental impact review and permit application for the Ballona Reserve	TBF	Participate	CDFW*, USACE, SCC, LAC Flood Control	Continue data collection. Draft EIR/S expected in summer 2016
Continue developing communication strategies and public outreach and involvement	TBF	Participate	CDFW*, SCC	Ongoing throughout the work plan time period, at least one activity per month.
Implement interim stewardship management through community engagement and invasive species removal ("FIX Ballona")	TBF	Lead	CDFW, FBW, CUREs	Complete by December 2017
Assist in ongoing trash removal and maintenance projects at the Ballona Reserve.	TBF	Participate	CDFW*, FBW	Ongoing throughout the work plan time period
Implement the Level 3 regional wetland monitoring program	TBF	Lead	SCCWRP, CSUCI, CWMW	Previous grant ended in 2015, current grant applied for and received in 2016. Grant ends Dec 2018.
Continue Malibu Lagoon post-restoration maintenance and monitoring	SMBRA, TBF	Participate	State Parks*, RCDSMM, Cooper Ecological	Ongoing through 2018. Annual, Comprehensive Monitoring Reports will be produced each year for five years.

				Monitoring frequency is variable based on parameter.
Facilitate restoration of Trancas and other coastal lagoons.	TBF	Facilitate	TBD	Ongoing throughout the work plan time period
2.2b Facilitate Stream Restoration and fish barrier removal				
Promote fish barrier removal projects.	SMBRC, TBF	Promote		Ongoing throughout the work plan time period
Complete all aspects of construction phase of Arroyo Sequit fish barrier removal project	TBF	Participate	State Parks	(See Task 1.1 for Arroyo Sequit fish passage project timeline.)
Support restoration of lower Topanga Creek	SMBRC, TBF	Support	State Parks*	Ongoing throughout the work plan time period
Carry out maintenance of the restored Stone Canyon Creek.	TBF	Lead	UCLA	Continue monthly volunteer restoration events throughout the work plan time period
Continue to build support and seek funding for implementation for stream daylighting, restoration, and greenway projects.	TBF	Facilitate	SCC, MRCA, Baldwin Hills Conservancy, City of Culver City, City of LA, LA County	Ongoing throughout the work plan time period
Facilitate completion of the Rindge Dam removal feasibility study.	SMBRC, TBF	Facilitate	U.S. Army Corps of Engineers (USACOE)*, State Parks, SCC	Targeted completion date: Dec. 2017, targeted implementation in 5-10 years
Conduct periodic mudsnail surveys in the Northern Bay watershed	SMBRC, TBF	Lead	N/A	Ongoing survey annually

Facilitate projects for eradication of crayfish and other invasive species in the North Bay/Santa Monica Mountains watersheds.	SMBRC, TBF	Facilitate	National Parks Service*, MRCA	Ongoing throughout the work plan time period
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*Project lead.

Linked BRP Objectives and Milestones: 7.1a, 7.1b, 7.2a, 7.4a-e, 7.5a-c, 7.6a, 7.8a, 7.8b

Environmental Results: Outputs: Development of restoration plans and restoration project(s) initiated.

Environmental Results: Outcomes: Acres of wetland habitat restored, improvement in ecosystem functions and connectivity in major coastal wetland complexes measured by CRAM scores, and increased public and stakeholder engagement; restored, improved riparian - aquatic habitat and biodiversity as measured by California Stream Condition Index (CSCI) scores, increased linear miles of passage for endangered southern steelhead trout, improved water quality measured by fewer related 303d listings, reduced erosion/sedimentation as shown by monitoring data, and reduction and effective control of invasive species populations.

Performance Measures: Completed EIR/EIS documents, monitoring protocols, reports of monitoring results, acres of habitat protected or restored; number of stream restoration projects planned or underway, and linear miles of streams protected/restored.

2.3 Restore coastal bluffs, dunes and sandy beaches

Coastal dunes, bluffs, and sandy beaches are prominent features and dominant habitat types along the Bay coastline and support a variety of plant and animal species. Goal #8 of the BRP calls for restoration of coastal bluffs, dunes, and sandy beaches and outlines specific objectives and milestones for restoration of specific dune habitats including dune habitats at LAX, and comprehensive measures to protect, manage, and restore sandy beaches.

2.3a Restore Coastal Dune and Bluff Habitats

SMBNEP has a long history of supporting and engaging in the restoration of coastal dune and bluff habitats, including restoration of coastal dunes in the Ballona Reserve, beach bluffs along Redondo Beach, and three coastal bluff sites on the Palos Verdes Peninsula. TBF has been supporting restoration efforts of the El Segundo/LAX Dunes (LAX Dunes) at Los Angeles World Airports (LAWA) through coordination of volunteer non-native vegetation removal events. In FY17, TBF will explore additional opportunities and partnerships to participate in and promote restoration of more coastal dunes and bluffs along the Bay coast, including a partnership between SMBRA, TBF, and the City of Los Angeles (LAWA) to restore a 48-acre portion of the LAX Dunes.

The Santa Monica Beach Restoration Pilot Project will restore several acres of sandy coastal habitats on the beaches of Santa Monica to bring back a healthy, diverse coastal plant and wildlife community. Monitoring data will be collected to evaluate the effectiveness of restored natural functions of sandy beaches in protection of coastal infrastructure from sea level rise and erosion, while providing a vital refuge for wildlife. Specific project activities during FY17 include; conducting pre-restoration monitoring, implementing the project to restore habitat, restricting grooming within the restoration area, conducting post-restoration monitoring, and completing an annual report.

2.3b Promote protection of sandy beach habitats

SMBRC and TBF have participated and promoted the All-Ashore sandy beach ecology citizen monitoring project, a collaborative effort of local stakeholders led by Pepperdine University and UCSB researchers. The goal of this program is to develop and implement a protocol for citizen-monitoring of ecological condition of sandy beach habitat, which is necessary for establishing baselines for sandy beach habitat protection. Progress has been made in recent years with development of a draft protocol and implementation of initial field testing and evaluation of a standardized beach survey form. Specific project activities during FY17 include continued participation and promotion by SMBRC and TBF for this project and similar beach monitoring efforts into the next phases which include refinement and finalization of the monitoring protocols through field testing, baseline monitoring and initial assessment of the present state, and development of a community-based program for long-term beach monitoring. Additionally, in FY17, TBF and SMBRC will pursue other opportunities to expand beach monitoring efforts in our watershed.

Task Description	Engaged SMBNEP Entities		Partners	Timeframe
	Entities	Role		
2.3a Restore Coastal Dune and Bluff Habitats.				
Participate in and carry out restoration of coastal dunes at LAX and other dunes and bluffs.	SMBRA, TBF	Lead, Participate	Multiple partners expected(in development)	Ongoing throughout the work plan time period
Conduct trash removal events at LAX dune on annual Coastal Clean-up Day.	TBF	Lead	LAWA and multiple partners (to be determined)	Annually in September

Carryout the Santa Monica sandy beach and dune restoration pilot demonstration project.	TBF	Lead	City of Santa Monica	Targeted completion date: December 2017
2.3b Promote protection of sandy beach habitats.				
Promote sandy beach habitat protection and restoration through citizen monitoring and outreach.	SMBRC, TBF	Participate and promote	Pepperdine University.*, UC Santa Barbara	Ongoing throughout the work plan time period

*Project lead.

Linked BRP Objectives and Milestones: 8.1a-d, 8.2c-e

Environmental Results: Outputs: Amount of funding obtained for coastal dune and bluff restoration

Environmental Results: Outcomes: Restored coastal dune and bluff habitats that lead to increased native vegetation and re-establishment of endangered species.

Performance Measures: Acres of coastal dune and bluff habitat restored, amount of native vegetation planted, recovery of El Segundo blue butterfly population.

2.4 Restore intertidal and subtidal habitats.

Relatively sparse and restricted in distribution compared to sandy beach and soft bottom habitats, rocky intertidal and subtidal habitats are highly diverse and productive, and home to hundreds of plant and animal species. These habitats are also highly vulnerable to, and have been greatly impacted by human activities, as well as natural processes. Goal #9 of the BRP calls for restoration of rocky intertidal and subtidal habitats and outlines specific objectives and milestones for kelp restoration through sea urchin removal, education and other management measures to address impacts of visitors to rocky reef habitats, and reintroduction and restoration of abalone populations in the Bay.

2.4a Promote protection of rocky intertidal habitats

SMBNEP has promoted rocky intertidal habitat protection through research on the impacts of marine organism trampling and collection, and outreach aimed at reducing these impacts. More recently, TBF has partnered with UCLA in conducting research, education and outreach regarding rocky intertidal restoration/condition. Information and other assistance were also provided to the Rancho Palos Verdes Junior Ranger Program. In FY17, TBF will continue to seek additional resources and collaborative opportunities to promote protection of intertidal habitats, including habitats on Palos Verdes through outreach and other mechanisms.

2.4b Restore and enhance rocky reef habitat

SMBNEP has a long history in working with several partner organizations and engaging in restoration of rocky reef/kelp habitats, which is one of the most productive and diverse marine ecosystems in the world. A newly expanded, multi-year rocky reef/kelp restoration project by TBF began in the summer of 2013 and has cleared more than 3.3 million purple sea urchins from 34 acres of reef. In FY17, TBF will continue to carry out this restoration project off the Palos Verdes shelf which is expected to result in restoration of 15 acres of kelp forest. Semi-annual reports to NFWF and annual report to CDFW will be developed to document the activities, including pre and post-restoration monitoring, and results of the projects

2.4c Reintroduce and restore abalone population in the Bay.

The restoration of green and pink abalone; (*Haliotis fulgens* and *Haliotis corrugata* respectively) continues to be of great importance to SMBNEP. To facilitate local recovery of these species, TBF obtained grant funding and initiated research on abalone population level genetics and development of disease prevention protocols. In FY17, this research will continue and move into the next phase which involves release and restoration of abalone outplanted onto Palos Verdes. Specifically, the project will involve four events of deck spawning, four events of captive spawning, one event of juvenile outplanting, one event of veliger outplanting, and daily, weekly, biweekly and monthly monitoring of outplanting locations. TBF will also explore partnership with SEA Lab, Santa Monica Pier Aquarium and other organizations to promote abalone restoration.

SMBRC and TBF will also continue to support research and monitoring efforts by federal, state, and local entities on the extent and impacts of harmful algal blooms and incidence of fish kill, starfish wasting diseases, etc.

Task Description	Engaged SMBNEP Entities		Partners	Timeframe
	Entities	Role		
2.4a Promote protection of rocky intertidal habitats				
Conduct and promote abalone study and release and restore abalone broodstock onto Palos Verdes Shelf	TBF	Lead	National Oceanic and Atmospheric Administration (NOAA), CDFW, SEA Lab	Regularly scheduled deck spawning, captive spawning, juvenile outplanting, and veliger outplanting events, daily, weekly, biweekly and monthly monitoring of outplanting locations. Targeted completion date: September 2017
2.4b Restore and enhance rocky reef habitat				

Carry out the multi-year rocky reef/kelp restoration project	TBF	Lead	CDFW, NOAA Montrose Settlement Restoration Program (MSRP) trustees, NMFS, Vantuna Research Group (Occidental College), Commercial Sea Urchin Harvesters, OPC, SCC, Southern California Marine Institute, others	Ongoing throughout the work plan time period with Restore 15 acres of kelp forest in FY17. Targeted completion date: September 2018
2.4c Reintroduce and restore abalone population in the Bay.				
Conduct restoration actions to advance the establishment of green abalone in the bay	TBF	Lead	NOAA, NMFS, CDFW,	Targeted completion date for green abalone work Sept. 2016. Other efforts in development, ongoing through work plan period.

*Project lead.

Linked BRP Objectives and Milestones: 9.1a, 9.2a-c, 9.3a, 9.4a, 9.4b

Environmental Results: Outputs: Summary report and publication of research results, amount of funding obtained for rocky reef monitoring and restoration

Environmental Results: Outcomes: Increased biomass and species diversity of organisms with protected rocky intertidal habitats; reintroduction and increase in population of abalone in the Bay; restored rocky reef habitats that lead to increased biomass and diversity of marine life within the restored rocky reef habitats as shown by monitoring data.

Performance Measures: Amount of funding and other resources secured for research and monitoring of the concerned species ; acres of rocky reef habitat restored, amount of sea urchin removed, recovery of giant kelp, (size, density and number) of finfish, invertebrates, and macroalgae.

3. Multidisciplinary and Integrative Programs

Many programs and projects carried out by SMBNEP are considered either multidisciplinary and/or integrated in purpose or structure. Although all these activities can be linked to, and shown to contribute to implementation of specific goals, objectives, and milestones of the BRP, they are closely interrelated and in practice conducted in unison in order to achieve informed, integrated and effective messaging.

3.1 Promote climate change vulnerability assessment and adaptation

Understanding the potential impacts of climate change and promoting adaptation planning are among the newly incorporated BRP objectives when the BRP was updated in 2013. SMBNEP's climate change program was also initiated around the same time with the implementation of the Ballona Reserve and Watershed climate change modeling and adaptation project with funding support from the USEPA Climate Ready Estuaries (CRE) Program. Since then, SMBNEP's efforts in addressing the impacts of climate change has been growing and has become broader and integrated with ongoing regional efforts in Southern California.

3.1a Conduct climate change vulnerability assessment and adaptation strategy development

In FY16, with support from SMBRC, TBF was awarded an EPA grant to conduct a broad, risk-based, climate change vulnerability assessment of the actions and milestones in the BRP. The vulnerability assessment, which is scheduled to be completed by the end of FY16, will identify strengths and weaknesses of existing milestones to manage and adapt to the impacts of climate change. In FY17, SMBRC and TBF will begin the subsequent steps recommended by the "USEPA's Being Prepared for Climate Change Workbook", which focuses on developing a risk-based action plan including BRP revision recommendations based on the results of the vulnerability assessment, these results of this exercise will support the planned update of the entire BRP in the upcoming year.

In 2013, SMBRC teamed up with the Los Angeles Regional Collaborative for Climate Action (LARC), USC Sea Grant, City of Santa Monica, and Heal the Bay, to support a successful grant application by the City of Santa Monica for the State Coastal Commission/Conservancy LCP climate change adaptation grant. With the grant award, the collaborative team in the summer of 2014 formally launched Regional AdaptLA, a multi-year project that will gather data and assess the Los Angeles coastal region's exposure to sea level rise and coastal storms, model regional shoreline change, identify vulnerable communities, assets, and ecosystems, and help communities begin an adaptation planning process. SMBRC and TBF have continued to partner with LARC, USC Sea Grant and other local agencies to disseminate information related to climate change impacts and facilitate climate change adaptation by municipalities in the watershed. In FY17, SMBRC and TBF will continue to participate in this project and similar efforts, conduct outreach to coastal municipalities in Santa Monica Bay, and facilitate dissemination and exchange of information between the experts and stakeholders.

In FY17, SMBRC and TBF will also continue to promote comprehensive sediment management and other "soft" and "living" measures to address the impact of sea level rise in the beach and adjacent ecosystems of the Bay. As an example, the Santa Monica Beach and Dune Restoration Pilot Project (see Section 2.3a), which will restore several acres of sandy coastal habitats on the beaches of Santa Monica to establish a native fore-dune plant community, will showcase and provide valuation information to evaluate the effectiveness of restored natural ecological functions of sandy beaches in protection of coastal infrastructure from sea level rise and erosion, while providing a vital refuge for wildlife.

3.1b Conduct research on local impacts of climate change

In FY16, TBF secured funding for two much-needed research projects on the potential scale and impacts of climate change: Kelp Forest Hydrodynamics Study, and ocean acidification monitoring and assessment. The Kelp Forest Hydrodynamics Study is an integral part of TBF's on-going kelp restoration program that is specially designed to demonstrate the benefit of kelp restoration in remediating the impacts of climate change through alteration of currents and related sediment transport, ocean acidification, and attenuation of wave energy. FY17 activities include monitoring, deployment of equipment and downloading of data.

The second grant supports installation of a high precision instrument package for pH, dissolved oxygen, and pCO₂ to provide valuable time-series information on acidification and hypoxia in Santa Monica Bay and advance research on status and trends as well as response to acidification by biological communities in the Bay. In collaboration with the Los Angeles County Sanitation District, the City of Los Angeles Environmental Monitoring Division, the Southern California Coastal Water Research Project, and the Los Angeles Regional Water Quality Control Board, installation of the sensors are targeted for completion by September 2016. Data collection and analysis will continue in FY17 and future years.

Task Description	Engaged SMBNEP Entities		Partners	Timeframe
	Entities	Role		
3.1a Conduct climate change vulnerability assessment and adaptation strategy development				
Continue to carry out the Local Coastal Plan Sea Level Rise Adaptation project.	SMBRC, TBF	Participate	USC Sea Grant*, LARC, Heal the Bay, City of Santa Monica, other coastal jurisdictions	Targeted completion date: December 2017
Develop BRP revision recommendations based on the results of the vulnerability assessment.	SMBRC, TBF	Lead	Multiple stakeholders TBD	Targeted completion date; December 2017

Promote comprehensive sediment management and other "soft" measures for adapting to climate change impacts.	SMBRC, TBF	Promote	LACFCD*	Ongoing dialogue with different parties throughout the work plan time period
3.1b Conduct research on local impacts of climate change				
Continue Kelp Forest Hydrodynamics Study	TBF	Participate	Researchers at UC Davis, and California State University Monterey Bay	Targeted completion date: September 2018
Deploy, Maintain and collect data from pH/CO2 sensors in Santa Monica Bay.	SMBRC	Participate	LA County Sanitation District, City of LA Bureau of Sanitation, Southern California Coastal Water Research Project (SCCWRP), LARWQCB	Targeted installation date: September 2016. Data collection and device maintenance continues in future years.

*Project lead.

Linked BRP Objectives and Milestones: All, especially 4.5a-c

Environmental Results: Outputs: Assessment of climate change (sea level rise and storm surge) impact on beach profile, GIS-based maps designed for use by the cities and county departments, number of training sessions conducted and number of people trained, policy and LCP revision recommendations for adapting to the impacts of climate change, updated BRP, and new ocean acidification monitoring station installed.

Environmental Results: Outcomes: Increased awareness of climate change impacts, increased amount and availability of knowledge and tools for use in adaptation planning, wetland restoration planning and long-term management planning with climate change adaption strategies incorporated, improved collaboration among local agencies and research organizations in addressing climate change impacts, and restored acres of coastal strand and dune habitat.

Performance Measures: Report/research publications on climate change impact assessment, number and status of climate change adaption plans developed and LCP updated locally, and pH/CO2 monitoring data collected, analyzed, and utilized for assessment.

3.2 Increase funding and/or develop new financing mechanisms for BRP implementation

SMBNEP has been successful in securing funding for implementing the BRP (e.g., \$63 million through Prop. 12, 50, and 84 bond funds since 2000). TBF and SMBRA have also successfully identified many new sources of grant funding in recent years. However, available resources are still far from meeting the financial needs of full BRP implementation. Sustaining stable sources of funding to ensure continued progress in BRP implementation is a challenge. Stable sources of funding and financial reserve are also needed to maintain the organizational capacity of SMBNEP.

3.2a Increase funding and/or develop new financing mechanisms for BRP implementation

TBF has moved forward and made progress in fundraising from supporters to increase TBF’s cash reserve. During FY17, TBF will continue to update fundraising strategies and seek public and private funding contributions.

Grant awards received by TBF and SMBRA have supported implementation of many important programs and projects under the FY16 annual work plan, and that effort is expected to continue in FY17. Details of grants and associated work activities are described in each relevant section of the work plan². Building on the past success, TBF and SMBRA will continue investigate and develop new partnership opportunities and new sources of grant funding, including grant funding made available under Prop. 1, and continue to work with congressional delegates to solidify and expand support for additional federal funding.

Task Description	Engaged SMBNEP Entities		Partners	Timeframe
	Entities	Role		
3.2a Increase funding and/or develop new financing mechanisms for BRP implementation				
Seek public and private funding contributions	TBF	Lead	Multiple stakeholders (to be determined)	Ongoing throughout the work plan time period
Seek grant funding for implementation of specific BRP objectives and milestones.	SMBRC, TBF	Lead	Multiple stakeholders (to be determined)	Ongoing throughout the work plan time period

*Project lead.

Linked BRP Objectives and Milestones: All, especially 1.5a

Environmental Results: Outputs: New sources of financial support for BRP implementation.

² The status of each grant will be updated in the semi-annual progress report.

Environmental Results: Outcomes: Increase in the rate at which the health of Santa Monica Bay is improving.

Performance Measures: Amount of new funding requested and/or secured, especially from new sources.

3.3 Public outreach and stakeholder support

SMBNEP's outreach and stakeholder supports efforts are very broad and are integral parts of every specific program and project under this work plan. These outreach and support activities are also incorporated and described in more detail in the relevant sections of this work plan. In the meantime, SMBNEP also carries out general outreach for the purpose of educating the public about the value and status of the Bay's natural resources, boosting public support for and participation in water quality improvement and habitat restoration activities, informing the public on the background of SMBNEP, and providing timely update on progress of SMBNEP's activities. In addition, SMBNEP works to identify or recommend funding to support a variety of outreach efforts by other organizations. SMBNEP also contributes their technical expertise and other resources to a wide range of programs by stakeholder organizations.

3.3a Conduct General Outreach

In FY17, SMBRC and TBF will continue to conduct general outreach through regular publication of electronic newsletters, the scientific journal *Urban Coast*, and SMBNEP's annual report. SMBRC and TBF will also continue efforts to reach out and generate local, regional, and national media coverage in various forms, and utilize multiple forms of social media and websites.

In addition, TBF will continue to develop and expand its ever popular internship and volunteer programs, increasing opportunities for students and members of the public to engage in hands-on action and study. This program provides firsthand experience in the scientific underpinning of wetland restorations in the Bay watershed and encourages participation in stream assessment and restorations, rain gardens, kelp restoration, and many other activities. Specifically in FY17, TBF will continue to provide opportunities for volunteers, interns, and student participants in TBF projects, and will continue coordination with partner organizations and universities.

3.3b Oversee the Public Involvement and Education (PIE) Mini-grants Program

For over more than a decade, the PIE program has provided seed money to more than 50 recipients for more than 80 projects. These projects have been a catalyst for innovative and engaging outreach and project implementation in our watershed and, through them, SMBNEP raises awareness of local environmental issues and inspires the stewardship needed to protect the health of our waters and our communities. Raising fund for another round of PIE have been challenging over the last few years, TBF plans to continue to promote to potential funders the value of the program in helping small-scale grassroot and community efforts attain needed funding and initiate a new round of the PIE program if the fundraising effort is successful.

3.3c Participate in the Palos Verdes Shelf Institutional Controls Program

SMBRC has been supporting and participating in USEPA’s PV Shelf Superfund Site Institutional Control Program, especially the activities of the Fish Contamination Education Collaborative (FCEC). SMBRC and TBF will continue to participate in the FCEC’s activities, including the development of the risk communication message and development and distribution of educational materials. SMBRC will also continue to participate in USEPA’s contaminated sediment cleanup efforts for the Palos Verdes Shelf and continue to monitor and participate in other restoration activities overseen by the Montrose Settlement Restoration Program.

3.3d Participating in, and provide technical support to stakeholder groups

Effective implementation of the BRP, especially new policies and program initiatives included in the 2013 BRP Update, relies on close coordination and collaboration among all organizations, especially those playing various roles in achieving objectives and milestones as identified in the BRP. Many inter-agency or inter-group task forces and committees already exist and are active in the Bay watershed, addressing issues pertinent to Bay water quality and habitat restoration. Engagement in the activities of these groups in the form of meeting participation and/or technical support are important mechanisms for increasing stakeholder involvement in BRP implementation. Many of them focus on projects directly related to the implementation of BRP objectives and milestones. The table below lists the stakeholder groups that SMBNEP staff are currently engaged in. The engagement in these groups will continue in FY17.

Group Name	Engaged SMBNEP entities	Partners
State Aquatic Species Task Force	SMBRC	CDFW* other resource management agencies
Wetland Recovery Project Managers Group	TBF	17 partner agencies and organizations throughout CA
State Clean Beach Task Force	SMBRC	SWRCB*
Beach Water Quality Work Group	SMBRC	SWRCB*, Health Depts. Storm water management agencies throughout Southern California
Jurisdictional Group 5&6	SMBRC, TBF	South Bay Cities*
Beach Ecology Coalition	SMBRC, TBF	Pepperdine University*, local beach management agencies, environmental groups, etc.
Green LA Urban Ecosystem Strategic Planning Committee	SMBRC	City of Los Angeles*

California Wetlands Monitoring Workgroup (CWMW)	TBF	CWQMC* and many participating agencies and organizations
CWMW, Level-3 Subcommittee	TBF	CWQMC* and many participating agencies and organizations
Palos Verdes Shelf Superfund Investigation Technical Information Exchange Group	SMBRC	USEPA* and many participating agencies and organizations
Southern California Academy of Sciences (SCAS), Board of Directors	TBF	SCAS* and many participating scientists and universities
Friends of LAX Dunes, Board of Directors	TBF	Los Angeles World Airports*, City of Los Angeles*, other interested stakeholders
Loyola Marymount University's Environmental Stewardship and Sustainability Committee	TBF	LMU*
Friends of Ballona Wetlands' Science and Restoration Committee	TBF	FBW*, LMU, Read and Associates, Cooper Ecological

*Project lead.

Task Description	Engaged SMBNEP Entities		Partners	Timeframe
	Entities	Role		
3.3a Conduct General Outreach				
Conduct public outreach through SMBNEP publications (Urban Coast, annual report, etc.).	SMBRC, TBF	Lead	LMU	Ongoing annually
Conduct media outreach and outreach through social media and website.	SMBRC, TBF	Lead	n/a	Ongoing throughout the work plan time period
Continue internship and volunteer program	TBF	Lead	LMU CUREs	Ongoing throughout the work plan time period
3.3b Oversee the Public Involvement and Education Mini-grants Program				

Raise funding from local sponsors and initiate a new round of PIE program.	TBF	Lead	Multiple stakeholders (to be determined)	Ongoing throughout the work plan time period
3.3c Participate in the Palos Verdes Shelf Institutional Controls Program				
Participate in Fish Contamination Education Collaborative (FCEC) risk communication activities	SMBRC	Participate	USEPA*, FCEC, State Office of Environmental Health Hazards Assessment (OEHHA), community-based nonprofits and other stakeholders	Ongoing throughout the work plan time period
3.3d Participating in, and provide technical support to stakeholder groups				
Participate in, and provide technical support to partner organizations and other stakeholder groups involved in BRP implementation.	SMBRC, TBF	Participate	Multiple stakeholders	Ongoing throughout the work plan time period

*Project lead.

Linked BRP Objectives and Milestones: All, especially 1.1c, 2.6a, 2.6b, 2.7a, 4.6c

Environmental Results: Outputs: Outreach publications and other materials, including the Urban Coast journal. Number of website and Facebook visits, Twitter feed, YouTube and Instagram followers and output, etc; number of media items produced/published. Number of people participating in Coastal Cleanup events, number of PIE projects awarded, in progress, or completed; total amount of PIE grant funding; new strategic plan for the FCEC and number of risk communication/outreach materials distributed, aquatic Invasive Species Management Plan, projects funded under the CBI and Urban Greening programs, wetland monitoring protocol, beach monitoring protocol and best management practice manual, etc.

Environmental Results: Outcomes: Greater awareness of SMBNEP's activities and resources (technical, financial, and otherwise) will lead to greater involvement by stakeholders in implementing the environmental improvements mandated the BRP, greater awareness of the Bay issues and resources measured by the type and number of education/outreach events and number of participants; number of people reached with FCEC messages and increased public understanding of fish contamination issues, reduced exposure to health risk from consuming fish

from Santa Monica Bay and other nearby coastal waters, improved coordination among stakeholders, improved planning efforts, greater stakeholder involvement in BRP implementation and corresponding, increase in amount of leveraged resources, resolution of issues which may be impeding BRP implementation, and new or improved technical standards for projects implemented.

Performance Measures: Increase in the degree to which target audiences have an understanding of and are involved in SMBNEP's BRP implementation efforts, feedback provided by PIE recipients; when applicable, pre- and post-surveys to determine change in public knowledge and behaviors; number of people in target populations who are knowledgeable about fish contamination issues and number who have modified their behavior as a result; number of action items generated/implemented by inter-agency groups, number of new entities brought into the fold, and number of new research and capital projects funded and implemented in the Bay watershed.

3.4 Facilitate Bay comprehensive monitoring and reporting

3.4a Implement the Comprehensive Bay Monitoring Program

The Santa Monica Bay Comprehensive Bay Monitoring Program (CMP) represents SMBNEP's plan for implementing coordinated monitoring to provide a regional, long-term picture of the status of the various ecosystems in Santa Monica Bay, which are essential information needed to track, assess, and report on the environmental results of BRP implementation. The CMP specifies detailed monitoring designs for broad ecosystem components, each of which coordinates both existing and new monitoring and explicitly links indicator selection, sampling design, and intended data products that focus on specific scientific and management questions.

As part of on-going restoration projects, TBF has carried out, and will continue to carry out and/or be involved in a significant amount of monitoring activities for several important habitats in the Bay including, but not limited to; wetlands, uplands, rocky-subtidal/kelp, rocky-intertidal, beaches, and coastal dunes. These monitoring efforts contribute directly to implementation of the CMP, and are further described with associated projects throughout this work plan. In FY17, SMBRC will continue to work closely with the LARWQCB and permittees to incorporate implementation of the comprehensive monitoring program into NPDES permits. SMBRC will also work with LARWQCB staff to convene meetings of NPDES dischargers to evaluate progress and facilitate CMP implementation and explore formation of a monitoring coalition and other mechanisms to secure new funding and resources to fill monitoring gaps. Specifically, staff will continue working with the discharges and the TAC to develop and implement pilot fish larvae and deep reef surveys, addressing two long-time data gaps identified in the CMP. Meanwhile, staff will also continue participation in development of habitat condition indices for rocky reef, and rocky and sandy beaches and facilitate volunteer surveys of intertidal ecology. Finally, TBF will continue to facilitate partnerships with NOAA and other federal agencies in assessment of offshore eelgrass beds in Santa Monica Bay, addressing another long-time data gap identified in the CMP.

3.4b BRP implementation progress tracking and State of the Bay reporting

Progress in BRP implementation is tracked and reported semi-annually through the work plan activity progress report. Progress is further summarized and highlighted annually through development and publication of SMBNEP annual report. The State of the Bay Report developed every five years, with the most recent 2015 report published in January 2016, also presents progress made on BRP objectives and milestones. In FY17, staff will continue to track BRP implementation progress through the existing semi-annual and annual reporting mechanisms. Staff will also continue to work with the TAC to refine the indicator matrix and improve data collection mechanisms in preparation for the next State of the Bay Report in 2020.

The annual Government Performance and Results Act (GPRA) reporting requires each NEP program to report on the acres or linear miles of habitat protected and restored, environmental indicators in use, and leveraged resources. SWRCB and TBF staff will compile the information and prepare and submit the GPRA report by September 1, 2017 for the reporting period October 1, 2016 - September 30, 2017. Geographic reference information for habitat restoration actions will also be provided.

Task Description	Engaged SMBNEP Entities		Partners	Timeframe
	Entities	Role		
3.4a Implement the Comprehensive Bay Monitoring Program				
Incorporate implementation of the comprehensive monitoring program into NPDES permits	SMBRC	Participate	LARWQCB*, NPDES permit holders.	Ongoing based on permit renewal schedule
Work with the dischargers and the TAC to develop and implement pilot fish larvae and deep reef surveys,	SMBRC, TBF	Lead	LACSD, City of LA Bureau of Sanitation, LARWQCB, SCCWRP, MPA Monitoring Enterprise	Estimated survey plan completion date: June 2017.
Participate in development of habitat condition indices for rocky reef, and rocky and sandy beaches	SMBRC, TBF	Participate	SCCWRP*, State Water Quality Monitoring Council*	Ongoing throughout the work plan time period
Assist federal partners in assessment of offshore eelgrass beds in Santa Monica Bay	TBF	Facilitate	NOAA, NMFS*	Ongoing throughout the work plan time period

3.4b BRP implementation progress and State of the Bay reporting				
Track BRP implementation progress through semi-annual work activity reporting and annual GPRA reporting.	SMBRC	Lead	All partner agencies and organizations responsible for BRP implementation and all relevant partner agencies and organizations for GPRA reporting	Semi-annually. Complete and submit GPRA report by September 1, 2017
Refine the indicator matrix and improve data collection mechanisms in preparation for the next State of the Bay report.	SMBRC	Lead	n/a	Ongoing throughout the work plan time period

*Project lead.

Linked BRP Objectives and Milestones: All, especially 4.7a-e, 8.2c, 9.4a-b, 10.1a, 10.2a, 11.2b

Environmental Results: Outputs: Environmental data generated from implementation of the monitoring program, semi-annual progress reports, State of the Bay Report, database of environmental monitoring, GPRA report, and program evaluation.

Environmental Results: Outcomes: Better, more comprehensive assessment of environmental conditions and the progress being made. More exposure and awareness of SMBNEP's accomplishments at the national level, maintenance or increase of SMBNEP's funding level. Better informed decision-makers and other stakeholders who will be in a better position to act.

Performance Measures: Incorporation of monitoring requirements into NPDES permits and amount and quality of monitoring data collected to fill data gaps identified by the CMP. Extent of progress on individual projects, as reflected in the semi-annual reports and progress on other BRP actions as reflected in annual GPRA reports. Also, feedback provided by USEPA's program evaluation team, number of SMBNEP successes highlighted in reports or other publications used to market the National Estuary Program and number of hits on SMBNEP websites, etc. Extent of environmental improvement demonstrated by the State of the Bay Report; SMBNEP successes highlighted in reports or other publications used to market the National Estuary Program.

3.5 Conduct general Governing Board support, organizational management and reporting activities

The SWRCB and TBF staff will provide logistical and other staff support for meetings of the Governing Board/Bay Watershed Council, the Executive Committee, the Technical Advisory Committee, and the Watershed Advisory Council. SWRCB and TBF staff will provide support for the meetings of SMBRA Board of Directors. TBF staff will provide support for the meetings of TBF Board of Directors. Specific tasks include preparation of meeting notices, agendas, staff reports, minutes, and resolutions.

3.5a Conduct general Governing Board support, organizational management and reporting activities

SWRCB, SMBRA, and TBF staff will conduct general management and reporting activities following the procedures and protocols that have been established for ensuring SMBNEP's fiscal stewardship and program functions. Tasks include:

- TBF, with assistance from SMBRC, develops annual work plan and budget, in accordance with a systematic work plan and budget development process and master calendar.
- TBF with input from SMBRC prepares and submits semi-annual progress report.
- TBF prepares, oversees, and tracks the progress of USEPA grants and contracts associated with work plan.
- TBF processes grant submittals requesting funding from SMBNEP funding sources.
- TBF retains professional bookkeeping services for payroll, invoicing, tax filing, and other fiscal operations: e.g. Prepare audits, insurance reviews, updates, etc.
- TBF conducts personnel management, including recruitment, performance assessments, training and professional development.
- TBF provides supports for general office functions, including maintaining mailing lists, photocopying, mailing, fielding public inquiries, and ordering supplies.
- SMBRC responds to public information requests.

SMBNEP is committed to implementing “green” measures to the fullest extent possible during all grant activities. TBF has already incorporated applicable “green” requirements into its organizational operating, contracting, and procurement policies and procedures. These policies and procedures will be reviewed in accordance with USEPA grant “greening” requirements and updated if necessary.

With respect to participation in federal NEP activities, SWRCB and TBF staff will continue to attend two annual meetings each year and may also be involved in planning the meeting activities and/or lead technical workshops during the meetings. In addition, staff will attend regional NEP meetings, workshops and special NEP-related training workshops when feasible. Staff may identify opportunities to make presentations at conferences and workshops in order to provide educational and technical assistance and share “lessons learned” with other NEPs and watershed-based organizations throughout the nation.

Task Description	Engaged SMBNEP Entities		Partners	Timeframe
	Entities	Role		
3.5a Conduct general Governing Board support, organizational management and reporting activities				
Support SMBRC and SMBRA board meetings, and TAC and WAC meetings	SMBRC, SMBRA	Lead	n/a	Ongoing throughout the work plan time period, SMBRC Executive Committee and Governing Board meet bi-monthly, TAC meets quarterly, and WAC meets annually
Support TBF Board Meetings	TBF	Lead	n/a	Ongoing throughout the work plan time period
Conduct general management and reporting activities	SMBRC, SMBRA, TBF	Lead	n/a	Ongoing throughout the work plan time period

Linked BRP Objectives and Milestones: All

Environmental Results: Outputs: Semi-annual progress reports, financial status reports, annual progress report; meeting notices, agendas, staff reports, minutes, and resolutions; presentations; reports on attendance at national meetings, trainings, workshops, etc.

Environmental Results: Outcomes: Program functioning (e.g., all reporting requirements are met and on time); program fiscal responsibility (e.g., annual reporting and tax filing, conformance to Board-approved internal controls, etc.), Smoothly functioning meetings planned with proper public notice; high level of participation by members and the public; and transparent and streamlined decision-making processes.

Performance Measures: Results of evaluation provided by USEPA Regional and headquarters staff, results of financial review or audit findings, etc.

US EPA 320 GRANT BUDGET SUMMARY

A. Funding Authorization

FY 17 Funding Authorization (Oct. 1, 2016 - September 30, 2017)	
EPA FY 16-17 Base Funding	\$600,000
SWRCB – Match	\$300,000
Bay Foundation – Match	\$250,000
Loyola Marymount University – Match	\$50,000
Authorized Funding Total	1,200,000

B. Detailed Budget

		EPA CWA 320 GRANT	OTHER SMBRF	SWRCB/LMU	Totals
Personnel	Salary + Benefits	394,203	200,000	170,000	764,203
	Personnel Subtotal	394,203	200,000	170,000	764,203
Contract Services	Studies/Projects/Contracts	90,930	50,000	-	140,930
	Studies/Projects/Contracts Subtotal	90,930	50,000	-	140,930
Equipment	None	0	-	-	0
	Equipment Subtotal	0	-	-	0
Supplies	Project Materials, Supplies, and Small Equipment	20,700	-	-	20,700
	Supplies Subtotal	20,700	-	-	20,700
Other	Communications Expenses - Mailchimp, VOID phone, Constant Contact, webhosting, others	4,800	-	-	4,800
	Printing & Design - Annual Report, State of Bay, Urban Coast, others.	10,000	-	-	10,000
	Conferences & Meetings - Scientific & Technical meetings expenses (SCAS, Wetland Symposium, and others)	4,400	-	-	4,800
	SMBRC/EC/WAC/TAC - Sheriff Deputy	0	-	-	0
	SMBRC/EC/WAC/TAC/Others - SMBRC Related Meeting expenses	600	-	-	600
	Software & Upgrades (ESRI, GIS, Sigmaplot, Arcmap, Adobe, and others)	2,400	-	-	2,400
	Water/Utilities/Others/Miscellaneous	1,130	-	-	1,130
	SWRCB/LMU Space and Administrative	-	-	180,000	180,000
	Other Subtotal	24,631	-	180,000	204,621
	Travel	NEP Meetings and Conferences Travel	6,000	-	350,000
All other stakeholder and staff travel		9,000	-	-	9,000
Travel Subtotal		15,000	-	-	15,000
SubTotal		545,455	250,000	350,000	1,145,455
Indirect Cost (@10%)		54,545	-	-	54,545
TOTALS		600,000	250,000	350,000	1,200,000