

SAN FRANCISCO ESTUARY PARTNERSHIP

FFY 2014 WORK PLAN AND BUDGET

OCTOBER 1, 2013 - SEPTEMBER 30, 2014

The San Francisco Estuary Partnership	1
Our Estuary	1
Funding.....	2
Goal 1: Build Estuary resilience against the effects of climate change	3
1. A. Climate Change Research and Creek and Wetland Conservation and Restoration	3
Goal 2: Promote integrated watershed stewardship.....	7
2.A. SFEP Watershed Program.....	7
2.B. Aquatic Invasive Species	8
2.C. Water Conservation.....	9
2.D. Support Flow Studies and Efforts to Restore SF Bay Flows	10
Goal 3: Facilitate water quality improvements and protections.....	10
3.A. TMDL /Pollution Prevention Implementation.....	10
3.B. Green Infrastructure/Low Impact Development (LID)	14
Goal 4: Champion the Estuary	16
Goal 5: Continue to improve management of the Partnership; diversify funding sources.....	19
Program Organization:	20
Key Implementation Partners:	20
Program Tracking and Reporting:	20
Ecosystem Tracking: Status and Trends:	21
Technical Assistance to SFEP Partner Agencies	22

INTRODUCTION

THE SAN FRANCISCO ESTUARY PARTNERSHIP

The San Francisco Estuary Partnership works collaboratively with federal, state, and local agencies to restore and improve the health of the San Francisco Estuary. The Partnership developed and tracks implementation of the Estuary's environmental master planning document, the *Comprehensive Conservation and Management Plan*, (Comprehensive Plan, or CCMP); manages over 50 technical research and restoration projects throughout the greater San Francisco Bay Area; and educates the public about Bay-Delta ecological issues including wetlands, wildlife, aquatic resources, land use, and pollution prevention. We also sponsor scientific conferences and colloquia including the biannual State of the Estuary, and publish reports such as *The State of the Bay* (2011). The work of the Partnership is funded through over 35 different federal, state, and local grants and contracts and supported by the San Francisco Bay Regional Water Quality Control Board, which houses our offices, and the Association of Bay Area Governments, our parent agency.

This work plan implements a cooperative agreement between the U.S. Environmental Protection Agency, the Association of Bay Area Governments, and the San Francisco Bay Regional Water Quality Control Board. It supports the continued implementation of the Comprehensive Plan.

OUR ESTUARY

At 1,600 square miles, the San Francisco Estuary is the largest on the West Coast and drains over 40 percent of California's land area. Extending into the Sacramento-San Joaquin River Delta, the Estuary supplies irrigation water to four million acres of farmland. Although significantly altered since 1850 -- more than 90 percent of original tidal wetlands since the Gold Rush have been lost-- the Estuary still

- provides drinking water to nearly two-thirds of the state's population
- supports significant wildlife; about two-thirds of the state's salmon travel through the estuary as young fish and return to spawn as adults
- supports almost half of the migratory birds on the Pacific Flyway
- provides many important wetland functions, acting as natural pollution filters, trapping sediment, providing flood protection, and offering habitat for fish, shellfish, waterfowl, and other wildlife.

Acquisition and restoration of the region's wetlands has long been a top priority among CCMP actions, and the Partnership supports numerous efforts to protect and restore this critical habitat.

Our Bay Area/Sacramento-San Joaquin River Delta economy includes industry, shipping, fishing, farming, and recreation, all of which generate point source and nonpoint source pollution. Water quality is impaired throughout the Estuary's aquatic systems due to legacy pollution, such as PCBs and mercury; and new compounds found in pesticides, fertilizers, industrial processes, and personal care products. Urban runoff, especially challenging, is a significant source of many contaminants, including mercury, PCBs, pathogens, a new generation of pyrethroid pesticides, nutrients, and trash. Introduced, invasive aquatic plant and shellfish species take a toll on the health of the Estuary's ecosystems.

In all estuaries, the amount of fresh water that flows in from upland watersheds defines the quality and quantity of estuarine habitat. Most of the fresh water that flows into the San Francisco Estuary comes from the Sacramento and San Joaquin River basins, which provide more than 90

percent of total inflow in most years. Smaller local streams, principally the Napa and Guadalupe Rivers and Alameda, San Francisquito, Coyote, and Sonoma Creeks, contribute the balance.

Freshwater flows into the San Francisco Estuary have been greatly altered by upstream dams and water diversions. California's State Water Resources Control Board recently determined that, in order to protect public trust resources in the Sacramento-San Joaquin Delta and the Estuary, 75 percent of runoff from the Sacramento and San Joaquin River watersheds should flow unimpaired out of the Delta and into the estuary. From 2000 to 2009, on average only 52 percent of estimated unimpaired inflow actually flowed into the estuary. How to address the needs of the estuary for additional unpolluted flow is the subject of several major concurrent efforts at the regional and state levels. SFEP will continue to closely track and influence these processes. (See www.sfestuary.org for additional information about the Estuary.)

FUNDING

The Partnership's budget for federal fiscal year 2013-14 is estimated at \$8.4 million with an increase to 12.3 million if ABAG/SFEP is awarded the San Francisco Bay Regional IRWMP Phase 2 Implementation Grant [see detailed budget [Attachment 1](#)]. Of the \$8.4 million budget, state and local funds provide approximately 54 percent of the total budget (\$4,750,841) while Federal funds provide approximately 46 percent (\$3,924,047).

Clean Water Act Section 320 Funding. This year's EPA allocation is \$_____, or ___ percent of SFEP's total budget. This amount is included in the federal total above. These highly leveraged National Estuary Program (NEP) funds provide partial support for salary, benefits, and other fixed costs for eight core staff. The work of seven additional staff, funded under agreements with other agencies or entities, also focuses on CCMP implementation and is reflected in this work plan. See staffing details in Attachment 2.

Match Funds. The San Francisco Bay Regional Water Quality Control Board provides grant match for Section 320 funding through in-kind support for office space, computers, phones, mailing, supplies, etc.; this is estimated at over \$ **950,000** annually. Local agency and Caltrans contracts for technical support related to permit compliance also contribute to the NEP leveraged funds. Additionally, ABAG provides direct project match as well as in-kind support for financial statements, payable reports, invoicing, and legal assistance.

SFEP consistently leverages NEP funds by amounts ranging from 14:1 (2006) to 16:1 (2012).

This Work Plan implements the 2013 Strategic Plan goals which follow.

THE STRATEGIC PLAN: 2013 – 2018 GOALS

Goal 1: Build Estuary resilience against the effects of climate change

Expand the toolbox of habitat protection measures needed under a changing climate regime and provide the necessary baseline information to adaptively manage the health of our waterways.

Goal 2: Promote integrated watershed stewardship

Integrate projects within key watersheds, from headwaters to tidal waters. Increase the health and resilience of watersheds and increase active partnerships in the region to improve water quality and habitat health.

Goal 3: Facilitate water quality improvements and protections

Focus on pollution prevention, urban runoff/stormwater quality, and “Green Infrastructure” projects (“low impact development,” or LID).

Goal 4: Champion the Estuary

Develop and implement a communications program to raise the visibility and increase support of SFEP’s Bay protection and restoration activities.

Goal 5: Continue to improve management of the Partnership; diversify funding sources

**2013-2014 WORK PLAN ELEMENTS:
IMPLEMENTING THE STRATEGIC PLAN**

SFEP’s current work plan continues implementation of the Strategic Plan Goals revised in 2013.

GOAL 1: BUILD ESTUARY RESILIENCE AGAINST THE EFFECTS OF CLIMATE CHANGE

1. A. Climate Change Research and Creek and Wetland Conservation and Restoration

Objectives:			
<ul style="list-style-type: none"> • Support research and analysis into effects of climate change on the ecology of the estuary • Support and implement stream, wetland, riparian and fluvial/tidal restoration • Implement multi-benefit climate adaptation strategies including flood protection • Support sediment/sand research and policy development • Refine existing and create new environmental indicators to measure and report health of the estuary 			
Measures of Success:			
<ul style="list-style-type: none"> • Acres of restored habitat • Refined estuary indicators 			
1.A.1 Manage and Implement Current SFEP-led Projects			
Actions/projects	Activities	Timeline	Resources
1.A.1a .Support research and analysis into effects of climate change on the ecology of the estuary	Staff the Joint Policy Council Support Goals studies and revisions	Quarters 1-4	\$320 <i>funding</i>
1.A.1.b. Support the SF Bay Restoration Authority.	Provides staff support to the Board of the Authority as it carries out its mission to find local funding for regional wetland restoration.	Quarters 1-4	\$320 <i>funding</i>

Actions/projects	Activities	Timeline	Resources
1.A.1.c. Refine existing and create new environmental indicators to measure and report health of the estuary	Reconvene indicator science team and begin process of indicator evaluation, refinement, and additions	Quarters 1-4	\$320 funding
1.A.1.d. Develop Creek Mouth Assessment Tool	Create a user-friendly online web tool that will help agencies, organizations and volunteer stewardship groups understand both regional opportunities and constraints for creek mouth restoration/flood protection projects.	Quarters 1-4	\$320 funding /SFEI partner match Needs additional funds
1.A.1.e. Provide Regional Board Stream and Wetland Protection amendments for SF Bay Water Quality Control Plan (Basin Plans)	Develop a Stream and Wetland Protection Basin Plan amendment for public review and comment.	Quarters 1-4	EPA grant funds
1.A.1.f.. Statewide Wetland Area Protection Policy	Continue coordination between State and Regional Board efforts; provide technical support to State Board on key Policy elements including water quality standards and identification standards for streams and riparian areas.	Quarters 1-4	EPA grant funds
1.A.1.g. Statewide Wetland Water Quality Standards	Develop report on integrating wetland water quality standards into Water Board programs including implementation strategies and alternatives.	Quarters 1-4	EPA grant funds
1.A.2 Manage and Assist Current Partner-led Implementation Efforts			
Actions/projects	Activities (vary by project)	Timeline	Resources
1.A.2.a. Projects <ul style="list-style-type: none"> • Chelsea Wetland Restoration Project • Flood 2.0: Rebuilding Habitat and Shoreline Resilience through a New Generation of Flood Control Channel Design and Management • JPC Regional Sea Level Rise Planning and Adaptation Strategy • Pinole Creek Restoration 	<ul style="list-style-type: none"> • Monitor project progress • Submit quarterly reports • Perform site visits • Provide administrative support and management for SFEI monitoring efforts • Coordinate sub-recipient activities • Manage contracts for implementation of project - specific actions • Prepare progress and final reports 	Quarters 1-4	Appropriate grants: San Francisco Bay Water Quality Improvement Fund DWR Integrated Regional Water Management Plan (IRWMP) implementation grant

Actions/projects	Activities (vary by project)	Timeline	Resources
<ul style="list-style-type: none"> • Re-oaking Stanley Reach of Alameda Creek • Stonybrook Creek Bank Stabilization • San Francisco Bay Living Shorelines • Subtidal Habitat Goals Implementation • Watershed Scale Map Tools and Shoreline Change Study • Yosemite Slough Wetlands Restoration • Stream Restoration with schools in Disadvantaged Communities of the North Bay (STRAW) • Bay Point Stormwater and Flood Reduction Strategies Pilot Project • Richmond Shoreline and San Pablo Flood Project • San Francisquito Watershed Design Curves • Pescadero Integrated Flood Reduction and Habitat Enhancement Project • SFEI Flood Infrastructure Mapping & Communication Tool 			
<ul style="list-style-type: none"> • Coastal Regional Sediment Management Plan for SF Littoral cell 	<ul style="list-style-type: none"> • Lead public outreach and coordinate public comment on Plan • Establish governance structure at ABAG for coordinating post-Plan RSM activities 	Quarters 1-2	Dept. of Boating & Waterways U.S. Army Corps of Engineers
1.A.3 Potential New Initiatives			
Actions	Activities	Timeline	Resources
1.A.3.a. Develop and implement methodology to measure and credit climate change adaptation benefits from wetland restoration projects	<ul style="list-style-type: none"> • Identify and secure funding • Identify potential partners and projects • Further develop and refine project 	Quarter 4	<i>\$320 funding</i> New funding

Actions	Activities	Timeline	Resources
1.A.3.b. Evaluate creek mouth restoration projects	<ul style="list-style-type: none"> • Identify and secure funding • Complete regional assessment of creek mouth restoration opportunities • Identify potential partners and projects • Further develop and refine projects 	Quarter 3	§320 funding IRWMP implementation grant
1.A.4. New Program Efforts			
Actions	Activities	Timeline	Resources
1.A.4.a. Proposed new IRWM 2 implementation projects: <ul style="list-style-type: none"> • Napa Co Miliken Creek Flood Damage Reduction • Oakland Sausal Creek Restoration • Petaluma Flood Reduction, Water and Habitat for Capri Creek • Redwood City Bayfront Canal Flood Management and Habitat Restoration • Richmond Breuner Marsh Restoration • San Francisco Bau Climate change Pilot Projects • San Pablo Rheem Creek Wetlands Restoration • St. Helena Upper York Creek Dam Removal and Ecosystem Restoration 	<ul style="list-style-type: none"> • SFEP sponsoring preparation of grant application package for funding • SFEP will manage grant projects upon award 	Grant Application due March 29 Grant Award: August 2013	DWR IRWM Prop 84

GOAL 2: PROMOTE INTEGRATED WATERSHED STEWARDSHIP

<p>Objectives:</p> <ul style="list-style-type: none"> • Build, promote and support community based approaches to watershed protection, restoration and stewardship • Support implementation and management of the state aquatic invasive species management plan • Support and promote new water use conservation methods • Support efforts to restore adequate flows to bay tributaries <p>Measures of Success:</p> <ul style="list-style-type: none"> • Increased number of cities and counties with watershed policies in master plans • Acres of water conserved by new water conservation projects

2.A. SFEP Watershed Program

2.A.1 Manage and Implement Current SFEP-led Projects			
Actions/projects	Activities	Timeline	Resources
2. A.1.a. Watershed Program	<p>Now launched, this SFEP program is:</p> <ul style="list-style-type: none"> • Assisting IRWMP outreach to Disadvantaged Communities watershed groups, the Bay Area Watershed Network and its working groups • Developing online and printed informational resources • Tracking diverse community-based approaches to watershed management and the types of monitoring approaches being used to document watershed health 	Quarters 1-4	DWR Integrated Regional Water Management Plan Implementation Grant-Prop 84 \$320 <i>funding</i>
2.A.1.b. Watershed Program	Support and promote a small grants program for watershed groups	Quarters 1-4	\$320 <i>funding</i>
2.A.1.c. Watershed Program	Develop draft report on incorporating watershed approach in Water Board regulatory programs, including strategies to incentivize and operationalize watershed approach at the local level.	Q 4	EPA grant funds (additional funding may be required)

2.A.2. New Program Efforts			
Actions/projects	Activities	Timeline	Resources
2.A.2.a. Proposed new IRWM 2 implementation projects: <ul style="list-style-type: none"> • Lagunitas Creek Watershed Sediment Reduction & Management • Marin/Sonoma: Conserving Our Watersheds: AG BMP project • Pescadero Water Supply and Sustainability project • Roseview Heights Water Supply Infrastructure Upgrades • Students and Teachers Restoring a Watershed (STRAW) 	<ul style="list-style-type: none"> • SFEP sponsoring preparation of grant application package for funding • SFEP will manage grant projects upon award 	Grant Application due March 29 Grant Award: August 2013	DWR IRWM Prop 84

2.B. Aquatic Invasive Species

2.B.1. Manage and Implement Current SFEP-led Projects			
Actions/projects	Activities	Timeline	Resources
2.B.1.a: <ul style="list-style-type: none"> • National Aquatic Nuisance Species Task Force • Western Regional Panel on Aquatic Nuisance Sp. • The Marine Invasive Species Program's Tech. Advisory Com • Quagga-Zebra Mussel Action Plan Team 	Provide continued staff support to panels and programs. Key activities include: <ul style="list-style-type: none"> • Developing new policies and programs to reduce the spread of aquatic invasive species • Developing and reviewing regional and species management plans • Prioritizing key activities for implementation and funding • Coordinating activities at the federal, state, and local levels 	Quarters 1-4	<i>\$320 funding</i> U.S. Fish & Wildlife Service funding
2.B.2. New Program Efforts			
Actions/projects	Activities	Timeline	Resources
2.B.2.a. Strengthen early detection programs for aquatic invasive species in the San Francisco Estuary	Partner with Bay Area Early Detection Network and explore other opportunities to expand early detection efforts to wetland and aquatic species	Quarter 1	<i>\$320 funding</i> New funds

Actions/projects	Activities	Timeline	Resources
2.B.2.b. Expand aquatic invasive species outreach to targeted audiences including: recreational boaters , aquarium hobbyists, water gardeners, live bait distributors, etc.	<ul style="list-style-type: none"> • Identify partners • Develop program • Identify resources 	Quarter 1	<i>\$320 funding</i> New funds

2.C. Water Conservation

2.C.1. Manage and Implement Current SFEP-led Projects			
Actions/projects	Activities	Timeline	Resources
2. C.1.a. Support and promote new methods of water use conservation within the estuary watersheds	Support current and potential projects	Quarters 1-4	DWR IRWM Prop 84
2.C. 1.b. Projects : <ul style="list-style-type: none"> • Fish Friendly Farming project in North Bay • Outreach to Sonoma County landowners on water reuse 	<ul style="list-style-type: none"> • Monitor project progress • Submit quarterly reports • Perform site visits • Provide administrative support and management • Prepare progress and final reports 		
2.C.2. New Program Efforts			
Actions/projects	Activities	Timeline	Resources
2.C.2.a. Proposed new IRWM 2 implementation projects: <ul style="list-style-type: none"> • SFPUC regional groundwater storage and recovery • San Francisco International Airport Industrial Waste and Reclaimed Water Facility • East Bayshore recycled water pipeline (EBMUD) • Bay Area Regional Water conservation project • North Bay Water Reuse Program-SCWA 	<ul style="list-style-type: none"> • SFEP sponsoring preparation of grant application package for funding • SFEP will manage grant projects upon award 	Grant Application due March 29 Grant Award: August 2013	DWR IRWM Prop 84

2.D. Support Flow Studies and Efforts to Restore SF Bay Flows

2.D.1. Manage and Implement Current SFEP-led Projects			
Action	Activities	Timeline	Resources
Support flow studies and efforts to restore adequate flows in Bay tributary rivers and streams	<ul style="list-style-type: none"> Continue distribution of SFEP Flows Fact Sheet Provide annual updates of fish and flows analysis Continue to brief local elected officials on importance of adequate flows 	Quarters 1-4	\$320 funding

GOAL 3: FACILITATE WATER QUALITY IMPROVEMENTS AND PROTECTIONS

<p>Objectives:</p> <ul style="list-style-type: none"> Implement the Clean Water Act by supporting TMDL development and implementation across the region Expand existing SFEP programs and projects to focus on water quality improvements Develop and implement well-designed and effective green infrastructure projects to reduce stormwater pollution throughout the region <p>Measures of Success:</p> <ul style="list-style-type: none"> Increase in regional TMDL implementation projects Sponsor regional TMDL workshops Installation of trash capture devices in all project partner cities Increase in use of LID facilities throughout the region
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3.A. TMDL /Pollution Prevention Implementation

3. A.1 Manage and Implement Current SFEP-led Projects			
Actions/projects	Activities	Timeline	Resources
3.A.1. a. Implement and Track Bay Area Urban Creeks Toxicity/ Pesticides TMDL Projects: “Got Ants” pesticide reduction (GA) Greener Pesticides for Cleaner Waterways campaign (GPCW) Tracking Urban Pesticides TMDL Implementation	For GA and GPCW: Develop easy-to-use information on less-toxic ant solutions and promote through high-profile social marketing campaign: <ul style="list-style-type: none"> Coordinate with outreach consultants to develop core messages, print and web pieces Pilot and refine outreach pieces 	Quarters 1-4	CA Dept. of Pesticide Regulation grant San Francisco Bay Water Quality Improvement Funds \$320 funding

Actions/projects	Activities	Timeline	Resources
	<ul style="list-style-type: none"> • Launch and support outreach campaigns, coordinating partner activities <p>For Urban Pesticide TMDL implementation:</p> <ul style="list-style-type: none"> • Work with Regional Water Board to assess needs for tracking implementation of UP TMDL <p>Post information on SFEP website</p>		
3.A.1.b. Remediate legacy pollutants such as mercury, selenium from sources including contaminated mine sites	<p>Support current projects:</p> <ul style="list-style-type: none"> • Hicks Flat Remediation • Contra Costa Stormwater Rerouting for treatment 	Quarters 1-4	<p>San Francisco Bay Water Quality Improvement Funds</p> <p>319h grant</p>
3.A.1.c Support the efforts of Santa Clara County to meet the Guadalupe Mercury TMDL by addressing legacy pollutants in the Almaden Quicksilver County Park	<ul style="list-style-type: none"> • Support the Senador Mine project currently in progress • Work with the county to develop projects for the prioritized Calcine Paved Roads and Jacques Gulch sites 	Quarters 1-4	<p>San Francisco Bay Water Quality Improvement Funds</p> <p>Potential 319h grant</p>
3.A.1.d. Support TMDL development statewide and work on projects intended to increase rate of 303(d) de-listings.	<ul style="list-style-type: none"> • Support TMDL Roundtable • Assist State Board and regions with stakeholder plans and meetings for TMDL projects • Assist with CEQA analyses of TMDL projects • Assist in development of multi-region TMDL projects • 	Quarters 1-4	<p>SWRCB contract</p> <p>Prop 84 grant (LA Trash TMDL)</p>

Actions/projects	Activities	Timeline	Resources
	<ul style="list-style-type: none"> • Design training for statewide TMDL Program staff • Advise TMDL staff on websites, outreach, etc. • Maintain TMDL intranet (internal to Water Boards) • Extend Bay Area Trash Tracker to Los Angeles (implementing LA Trash TMDL) <p>Other tasks as requested</p>		
<p>3.A.1.e. Support Bay Area municipalities' efforts to reduce trash in local creeks and the Bay</p>	<p>Manage the Bay Area-wide Trash Capture Demonstration Project</p> <ul style="list-style-type: none"> • Facilitate municipal reporting of trash capture installation and maintenance data • Prepare final project report (by November 2013) <p>Prop 84 project:</p> <ul style="list-style-type: none"> • Expand Trash Tracker website to include trash hotspots and cleanup events <p>Pursue opportunities to apply for additional funding for device installation and trash monitoring</p>	<p>Quarters 1-4</p>	<p>SWRCB CWSRF funding (ARRA; Coastal Nonpoint Source Program)</p> <p>Prop 84 grant §320 funding</p>
<p>3.A.1.f. Coordinate Supplemental Environmental Projects (Water quality implementation projects)</p>	<ul style="list-style-type: none"> • Provide project oversight • Coordinate with Water Board staff • Maintain lists of potential and completed projects • Provide project selection assistance to dischargers 	<p>Quarters 1-4</p>	<p>SF Bay Regional Water Board Administrative Civil Liability actions</p>
<p>3.A.1.f. Implement boater education program under the Clean Vessel Act: Increase pump-out usage and awareness among boating community</p>	<ul style="list-style-type: none"> • Edit, reprint and distribute pump-out maps and other outreach materials • Survey and report on condition and use of current pump-outs in the Bay-Delta region. 	<p>Quarters 1-4</p>	<p>State Dept. of Boating and Waterways CVA Grant</p>

Actions/projects	Activities	Timeline	Resources
	<ul style="list-style-type: none"> • Work with marinas, boaters and stakeholders to develop a BMP and best technologies toolkit that can be used by other marinas throughout the bay and delta • Host Honey Pot Day events in the bay and delta to educate boaters on sewage related issues 		

3.A.2 Manage and Assist Current Partner-led TMDL Implementation Efforts			
Actions/projects	Activities	Timeline	Resources
3.A.2 Projects: <ul style="list-style-type: none"> • Richardson Bay Pathogen TMDL Implementation • Implement Sediment TMDLs in Marin, Napa, and Sonoma Counties • Implement Pathogen TMDLs in Napa County • North Richmond Stormwater Diversion Project • Hicks Flat Mercury Waste Erosion Control Project (Guadalupe R. watershed mercury TMDL) • Senador Mine Mercury Waste Remediation (Guadalupe R. watershed mercury TMDL) 	<ul style="list-style-type: none"> • Complete monthly/quarterly/semi-annual progress reports • Manage subcontracts/sub-recipients • Perform site visits • Review and manage specific project actions • Process invoices and billings • Provide contracting support • Produce final project reports 	Quarters 1-4	SF Bay Water Quality Improvement Fund (EPA) 319(h) funding ARRA forgivable loan (SRF)
3. A.3 Potential New Initiatives			
Actions/projects	Activities	Timeline	Resources
3.A.3.a. Expand Focus of Clean Boating Program.	<ul style="list-style-type: none"> • Research and work with partners • Research funding sources. • Determine which areas are not being addressed adequately and where SFEP can contribute. 	Dependent on staff availability and new funding/partnerships	DBW or DPH/EPA or others Partnership with SFEI or educational institutions

Actions/projects	Activities	Timeline	Resources
	<ul style="list-style-type: none"> Examples: Anti-fouling paints, chemical use in boating, invasive species, oil and fuel disposal, 		
3.A.3.b. Coordinate Guadalupe Hg TMDL implementation - Los Alamitos Creek Reach.	<ul style="list-style-type: none"> Attend pre-planning meetings with EPA and others Identify how SFEP can contribute; assist with grant applications and other communications. 	Dependent on new funding	New funding
3.A.2.c. Facilitate regional purchasing of full trash capture devices	<ul style="list-style-type: none"> Issue Request for Proposals Identify appropriate devices and make available to ABAG member municipalities 	Quarters 1-4	\$320 funding Municipal funding

3.B. Green Infrastructure/Low Impact Development (LID)

3.B.1. Manage and Implement Current SFEP-led Implementation Efforts			
Actions/projects	Activities	Timeline	Resources
3.B.1.a. Design and implement the San Pablo Avenue Green Stormwater Spine	Continue to work with 7 cities and contractors on the design and construction of spine sites, and conduct outreach.	Quarters 1-4	DWR IRWMP Prop 84 Implementation grant SF BayWater Quality Improvement Fund (EPA) Caltrans CANatural Resources Agency-UGC Cities
3.B.1.b. Continue to staff LID Leadership Group	Continue to work with and implement the ideas of [as funding allows] the SFEP/ABAG LID Leadership Group.	Quarters 1-4	IRWMP Planning Grant
3.B.1.c. IRWMP planning to facilitate green infrastructure (and multi-benefit project) implementation	Work with the newly created IRWMP subregions and continue to identify ways to increase green infrastructure implementation	Quarters 1-4	IRWMP Planning Grant DWR IRWMP Prop 84 Implementation grant

Actions/projects	Activities	Timeline	Resources
3.B.1.d. Green infrastructure outreach	<ul style="list-style-type: none"> Organize/host green infrastructure tracks at conferences Collaborate with the California Stormwater Quality Association on updates to LID handbook Review, compile, organize specs/BMPs to make green infrastructure projects easier to bring on line Tie in with Bay Friendly Stakeholder Process 	Quarters 1-4	<i>\$320 funding</i> DWR IRWMP Prop 84 Implementation grant SWRCB Prop 84
3.B.1.e. Green infrastructure decision-making tool	Develop tools to assist local governments to decide which environmental solution (green infrastructure, trash capture device...) works best under which situations/conditions.	Quarters 1-4	<i>\$320 funding</i> DWR IRWMP implementation grant SWRCB Prop 84
3.B.1.f. Green infrastructure capacity-building.	Assist local governments with strategizing how to partner and fund green infrastructure projects.	Quarters 1-4	<i>\$320 funding</i> DWR IRWMP implementation grant SWRCB Prop 84
3.B.1.g. Update green infrastructure web tools	Add green infrastructure materials to SFEP website; include recent monitoring and evaluation results from current projects.	Quarters 1-4	<i>\$320 funding</i>
3.B.2. Manage and Assist Current Partner-led Implementation Efforts			
Actions/projects	Activities (vary by project)	Timeline	Resources
3.B.2.a. Projects: <ul style="list-style-type: none"> City of San Francisco Newcomb Ave. Greening City of Fremont Tree Well Filter Monitoring City of Campbell Hacienda Green Street 	<ul style="list-style-type: none"> Quarterly reports Site visits Support and oversee San Francisco Estuary Institute monitoring efforts Manage subrecipients' project implementation contracts Publicize projects Hold tours and forums Prepare final report 	Quarters 1-4	SF BayWater Quality Improvement Fund (EPA) IRMWP implementation grant

3.B.3 Potential New Initiatives			
Actions/projects	Activities (vary by project)	Timeline	Resources
3.B.3.a. Develop homeowners' or municipal building rain garden program	Develop contest and pilot program for homeowners (4 in 2 counties) to implement rain gardens	Dependent on staffing availability	\$320 funding
3.B.3.b Develop cost/benefit analysis for green infrastructure projects in Bay Area.	Find and secure funding to hire environmental economist to conduct cost/benefit analysis of regional green infrastructure projects.	Dependent on availability of staffing, funding	\$320 funding New funding
3.B.4. New Program Efforts			
Actions/projects	Activities (vary by project)	Timeline	Resources
2.A.2.a. Proposed new IRWM 2 implementation project: <ul style="list-style-type: none"> San Jose Green Streets and Alleys Demonstration project 	<ul style="list-style-type: none"> SFEP sponsoring preparation of grant application package for funding SFEP will manage grant projects upon award 	Grant Application due March 29 Grant Award: August 2013	DWR IRWM Prop 84

GOAL 4: CHAMPION THE ESTUARY

Outreach and education are foundational to SFEP's mission and goals, and nearly all of our projects. In FFY 2014 FEP will continue our efforts to encourage public involvement in our initiatives, and create and implement additional efforts related to **Strategic Plan Goal 4**.

Note that previous sections of this Work Plan highlight our project-specific outreach efforts.

<p>Objectives:</p> <ul style="list-style-type: none"> Promote public involvement in estuary protection through redesigned interactive website Educate the community through the biennial State of the Estuary Conference Create and publish the 2015 State of the Estuary Report <p>Measures of Success:</p> <ul style="list-style-type: none"> Increased support for and distribution of SFEP <i>Estuary News</i> publication Increased attendees at forums, on tours, and at conferences Increase in web hits over prior year

4.A Manage and Implement Current SFEP Efforts			
Actions	Activities	Timeline	Resources
4.A.1. Increase public outreach through redesigned website and <i>Estuary News</i> publication	<ul style="list-style-type: none"> • Continue to update and upgrade SFEP website • Leverage information from SOE, Estuary News, etc. for increased outreach and awareness 	Quarters 1-4	<i>\$320 funding</i>
4.A.2. Support SFEP projects with enhanced GIS capability	Develop GIS mapping for key Partnership projects and efforts	Quarters 1-4	<i>\$320 funding</i> Grant funds when appropriate
4.A.3. Produce print media promoting the Partnership's projects and programs, building public support for a healthy estuary	<ul style="list-style-type: none"> • <i>ESTUARY NEWS</i> • Columns in Service Matters (ABAG newsletter) 	Quarters 1-4	<i>\$320 funding</i> Appropriate grant funds and subscriptions
4.A.4. Produce project-specific podcasts and public service announcements	<ul style="list-style-type: none"> • Topics to be chosen as projects are completed 	Quarters 1-4	<i>\$320 funding</i> Appropriate grant funds
4.A.5. Use online/social media	Continue to support: <ul style="list-style-type: none"> • SFEP Website • Estuary Report video podcasts • SFEP Facebook page 	Quarters 1-4	<i>\$320 funding</i> Appropriate grant funds
4.A.6. Commemorate significant dates by highlighting Partnership work	<ul style="list-style-type: none"> • Earth Day event • National Estuaries Day event 	Quarters 3 & 4	<i>\$320 funding</i> Appropriate grant funds
4.A.7. Sponsor, plan, and conduct forums, workshops, tours, presentations and conferences	<ul style="list-style-type: none"> • Conduct subregional conferences for local government officials and staff to disseminate the results of green stormwater demonstration projects • Conduct media event/tour of completed projects to highlight project environmental effectiveness. 	Quarters 1-4	<i>\$320 funding</i> Appropriate grant funds
4.A.8. Support/coordinate a new regional effort to create and launch a bay-wide social marketing effort.	Working with partners: <ul style="list-style-type: none"> • Develop new regional brand or slogan related to San Francisco Bay that appeals to a diverse audience and creates a connection with the Estuary. Build upon that brand with pollution prevention behavior change campaigns with the help of an eco-net or watershed network. 	Quarters 1-4	<i>\$320 funding</i> Appropriate grant funds Partner funding

Actions	Activities	Timeline	Resources
	<ul style="list-style-type: none"> • Reduce urban use of pesticides and promote LID by connecting with new regional social marketing campaign. 		
4.A.9. Increase outreach efforts through ABAG.	<ul style="list-style-type: none"> • Continue green infrastructure leadership group; sponsor workshops. 	Quarters 1-4	\$320 <i>funding</i> Appropriate grant funds
4.A.10. Implement boater education program under the Clean Vessel Act (Increase pump-out usage and awareness among boating community).	<ul style="list-style-type: none"> • Produce and distribute pump-out maps and other outreach materials 	Quarters 1-4	State Dept. of Boating and Waterways CVA Grant
4.A.11. “Got Ants?” outreach to reduce household pesticide use (Implementation of SF Region Urban Creeks Pesticide TMDL).	Develop easy-to-use information on less-toxic ant solutions and promote through high-profile social marketing campaign: See section 3.A.1.a.	Quarters 1-4	California Department of Pesticide Regulation PMAG grant
4.A.12 Greener Pesticides for Cleaner Waterways campaign	Reduce household pesticide use through regional outreach campaign building on Our Water Our World program. See Section 3.A.1.a.	Quarters 1-4	SF BayWater Quality Improvement Fund (EPA)

GOAL 5: CONTINUE TO IMPROVE MANAGEMENT OF THE PARTNERSHIP; DIVERSIFY FUNDING SOURCES

In FFY 2014 the administrative team will continue to improve the effectiveness of the Partnership's management activities and implement the objectives of **Strategic Plan Goal 5**.

Objectives: <ul style="list-style-type: none"> • Continue to improve overall SFEP program management • Expand and improve SFEP committee structure and support • Expand funding sources for Partnership implementation efforts 			
Measures of Success: <ul style="list-style-type: none"> • High quality grants administration; good audit compliance and grant reviews • Diversified funding sources 			
5.A. Ongoing and Completed Administrative Activities			
Action	Activities	Timeline	Resources
5.A.1 Provide overall SFEP program management; contracting, budgets, personnel, scheduling, tracking, reporting, and support to subrecipients and subcontractors, etc.	Actively manage SFEP's 40+ grants and contracts	Quarters 1-4	§320 funding Appropriate grants and contracts
5.A.2. Provide meeting support for the Steering Committee, Implementation Committee and Executive Council	Schedule meetings of Steering Committee as needed	Quarters 1-4	SFEI/consultant support, §320 funding
5.A.3. Report to EPA on habitat restoration and fund leveraging	Prepare annual NEPORT reports	Quarter 4	§320 funding
5.B New Initiatives for 2013 - 2014			
Action	Activities	Timeline	Resources
5.B.1 Complete analysis and summary of CCMP implementation efforts 1993-2013.	Summarize the implementation efforts; document in a special publication for the 20 th Anniversary celebration at the 2013 State of the Estuary conference	Quarter 1	Consultant support §320 funding

SAN FRANCISCO ESTUARY PARTNERSHIP OVERVIEW

PROGRAM ORGANIZATION:

Partnership employees are all staff of the [Association of Bay Area Governments \(ABAG\)](#). The [San Francisco Bay Regional Water Quality Control Board](#) is the lead agency for implementing the CCMP and provides office space, equipment, and office overhead costs as state match to the Partnership. ABAG provides management, administrative, and fiscal support. Staff responsibilities are detailed in Attachment 2.

The Partnership's **Executive Council** meets as necessary to provide overall program guidance. Council members include the Executive Director of ABAG; the current U.S. EPA Regional Administrator for Region 9; the Regional Director of the U.S. Fish and Wildlife Service California Nevada Region; the Secretary of California EPA, and the Secretary of the California Resources Agency.

The [Implementation Committee](#) (IC) serves as the oversight committee for the Partnership, and advises implementation efforts, helps set priorities, and supports work plans and budgets. Members represent local/state/federal agencies, business/industry, and environmental organizations. Current membership of the IC is included as Attachment 3.

As called for in the [Strategic Plan](#), the Director is engaged with the San Francisco Estuary Institute to develop strategies for increased integration of science into the SFEP program.

KEY IMPLEMENTATION PARTNERS:

[Friends of the San Francisco Estuary](#) was created in 1991 as a 501(c)(3) organization with an independent Board of Directors. This group is tasked with enhancing public involvement in the regional decision-making processes that affect the natural resources of the Estuary. The Partnership provides limited staff support for Friends' efforts.

[San Francisco Estuary Institute \(SFEI\)](#). A key recommendation of the CCMP in 1991 was to create a regional monitoring and research entity. This was accomplished with the formation of SFEI, a non-profit organization with an independent Board of Directors, which carries out the research and monitoring programs for the Partnership and for many other agencies and projects. . SFEI's work informs the primary issues facing the ecosystem, including water quality monitoring of industrial and municipal discharges, legacy pollutants, non-point source pollution, non-native biological invasions, and watershed and wetlands restoration.

[The Delta Science Program](#), a program of the [Delta Stewardship Council](#) and our longtime collaborator, continues to rely on SFEP to administratively support their science boards, technical reviews and advisory panels, peer review, and information synthesis products such as the Biennial Delta Science Conference. While the Delta Science Program's focus is the upper Estuary (the Sacramento-San Joaquin Delta), they have frequently partnered with SFEP, as many of the concerns and challenges of the upper Estuary impact the rest of the Bay system. .

PROGRAM TRACKING AND REPORTING:

SFEP manages or supports approximately 40+ projects and programs throughout the Estuary region.

Biannual Progress Reports to the EPA Regional Project Officer detail budget information and program progress towards CCMP milestones, targets, and goals.

The State of the Estuary Conference. This biannual, multi-day conference examines the ecological status of the estuary and provides opportunities for scientists, decision makers, interest groups, and the public to link SFEP and CCMP implementation activities to other ecosystem management programs and activities. The conference also provides a forum to discuss new research and monitoring data, political and scientific impacts on environmental policy, and priority ecosystem management issues. SFEP produces a summary document on each conference highlighting important findings and issues. **The 2011 conference was held September 19-21 2011.**

CCMP Compliance Tracking. SFEP has developed an internal database for information about projects that support progress on all 200+ CCMP implementation actions. Contractors will assist staff in populating a new GIS-based system that will use this database to summarize projects completed by SFEP.

Tracking Fund Leveraging. Each year, the Partnership is required to report on two tracking measures for EPA: annual increase in wetland habitats, and the amount of funding leveraged by our EPA Section 320 funding.

ECOSYSTEM TRACKING: STATUS AND TRENDS:

State of San Francisco Bay Report 2015 SFEP and its scientific partners will update the 2011 State of the Bay Report using newly refined ecological and social indicators to characterize the health of the Estuary. This publication will serve as a model for future reports on the ecological condition of the Estuary as a whole.

Tracking Habitat Changes SFEP works with its partners, ABAG, the San Francisco Bay Water Board, and SFEI to develop and improve ongoing and improved habitat tracking using a GIS format. The Partnership provides funds to support SFEI's web-based habitat tracking system. This project tracks habitat enhancement and the acquisition, restoration, and enhancement of wetlands and riparian habitat. The information is recorded in the annual Government Performance Requirement Act report prepared by EPA.

Monitoring and Reporting on the Bay's Health: The Regional Monitoring Program (RMP) monitors contamination in the Estuary and provides regulators with information necessary for effective water quality management. It is conducted by our partner, SFEI, and funded by Bay Area regulated dischargers (about \$3 million annually). Results are presented at an annual conference and in the Institute's Annual Monitoring Report. SFEI also publishes the annual Pulse of The Estuary; a quarterly newsletter; technical reports that document specific studies and synthesize information from diverse sources; and journal publications that disseminate RMP results to the world's scientific community. The SFEI web site provides access to RMP products and links to other sources of information about water quality in San Francisco Bay.

Wetlands Monitoring Review SFEP works with the San Francisco Bay Wetland Regional Monitoring Work Group, which reviews wetland restoration design and monitoring plans for both regulatory and non-regulatory projects and with the San Francisco Joint Venture, which monitors wetland projects around the region. SFEP is a member of the Joint Venture Board and provides funds to support an intern who assists in wetlands tracking.

TECHNICAL ASSISTANCE TO SFEP PARTNER AGENCIES

Technical/Scientific Expert Support for the Delta Science Program. SFEP assists the Delta Science Program by managing contracts that provide the scientific expertise needed for research, assessment, and monitoring. Supported projects and resources include peer reviews, science panels, scientific workshops, and communication tools. SFEP also assists the Delta Science Program in organizing the biannual, three-day Bay-Delta Science Conference.

Permit Assistance: Joint Aquatic Resource Permit Application (JARPA) Permit Center. SFEP and ABAG have worked with Bay Area regulatory agencies to develop a single permit application form and instructions that consolidate federal, state, and local permits for individual and municipal applicants proposing construction, fill placement, public access impingement, and development activities in or near aquatic environments and wetlands. SFEP maintains a website and provides limited assistance to applicants.

Technical Support for Water Quality Certification and Waste Discharge Requirement Applications (WDRs). Supporting the Water Board, SFEP staff provides technical support for reviewing and commenting on 401 permit applications and Waste Discharge Requirements. Typical projects include dredge and fill projects, wetland and flood protection projects, and transportation projects. This work is funded by and supports the efforts of the San Francisco Public Utilities Commission, the Santa Clara Valley Water District, Alameda County Clean Water Program, and CalTrans Districts 1 and 4.

Support for the National and Regional Invasive Species Task Forces and Management Programs. SFEP assists in implementation of the National Invasive Species Act of 1996 and the *California Aquatic Invasive Species Management Plan*. SFEP partners and staff serve on the Aquatic Nuisance Species National Task Force, the Western Regional Panel on Aquatic Nuisance Species, the California Invasive Species Advisory Committee, and California Marine Invasive Species Program's Technical Advisory Group. We assist the California State Lands Commission, the San Francisco Bay Water Board, the U.S. Fish and Wildlife Service, California Department of Fish and Game, and others in developing management plans, prioritizing activities, and providing education and outreach to the public and stakeholders about invasive species issues.