

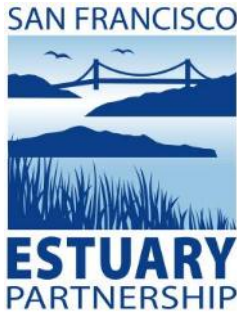
SAN FRANCISCO ESTUARY PARTNERSHIP

Implementation Committee Meeting

Tuesday, March 3, 2015, 9:30 a.m. – 12:30 p.m.
1515 Clay Street, 2nd Floor, Room 10, Oakland, CA

AGENDA

9:30	1. Welcome and Introductions	Amy Hutzel, Chair
9:40	2. Public Comments Any member of the public may address the IC on any matter regarding implementation of the Comprehensive Conservation and Management Plan. Each speaker will be limited to three minutes. Approve November 18, 2014 Meeting Summary (<i>Attachment 1</i>)	Chair
9:45	3. Drought Discussion, Wetter or Not Recommendations	Barry Nelson, Western Water Strategies
10:20	4. Director's Report (<i>Attachment 2</i>)	Judy Kelly, Director
10:30	5. Reports on SFEP Activities 2015 State of the Estuary Conference planning (<i>Attachment 3</i>) State of the Estuary Report 2015-16 Work Plan draft (<i>Attachment 4</i>)	Karen McDowell Judy Kelly
11:00	<i>Break</i>	
11:15	Municipal Regional Permit for Stormwater (MRP) 2.0 highlights	Tom Mumley, SF Bay Water Board, Vice Chair
11:30	Prop 1: Opportunities to fund Estuary-related projects <i>Presentation and discussion</i>	Harry Seraydarian, N. Bay Watershed Association; Beth Huning, SF Bay Joint Venture; all
12:15	6. Concluding Business Review Road Map; add agenda items for future meetings (<i>Attachment 5</i>) Announcements	Chair, Judy Kelly
12:30	Adjourn	



**San Francisco Estuary Partnership
Implementation Committee Meeting**

November 18, 2014

Elihu M. Harris State Building
Oakland, California

DRAFT MEETING SUMMARY

Welcome and Introductions: Amy Hutzal, Chair of the Implementation Committee, called the meeting to order at 9:35 am with a round of introductions.

Member of the Public and Other Attendees:

Mia Castro – CORO Fellow

Warner Chabot, new director of SFEI

Public Comment: None

Director's Report: Judy reviewed the proposed dates for the IC meetings in 2015: Tuesday, March 3rd, Wednesday, May 27th, Wednesday, August 26th, and Tuesday, November 17th. As noted previously, those dates are a mix of Tuesdays along with the traditional Wednesday meeting times, all in the standard time slot of 9:30-12:30. There were no concerns, and those dates were approved by the group.

Judy noted that SFEP is managing almost \$50 million in projects for IRWMP (30 projects, plus 7 new ones), in an effort led by Jennifer Krebs. Arthur Feinstein asked what do we do to manage the projects and staff responded that we negotiate contracts, manage reporting and invoicing, and make sure funds are expended appropriately. Melody Tovar commended the staff saying they played a key role in managing all of the groups to put together a coordinated successful proposal. State Coastal Conservancy headed the project selection effort and Jennifer worked with a consultant to pull the final package together.

Karen reported on the Bay-Delta Science Conference's final numbers: 1100 participants, 250 speakers and 175 posters. Abstracts are posted on-line and presentations will be posted soon. She reminded the Committee about the planning schedule for the next State of the San Francisco Estuary Conference (September 17-18, 2015) and asked for input on plenary speakers now and concurrent sessions by March.

Judy reported on the Friends of the San Francisco Estuary conference, Bay+Delta+Water: Better Together. George Miller was the keynote speaker. It was well attended by many elected officials. A report of the conference proceedings is now available on the Friends website, <http://friendsofsfestuary.weebly.com/conference-report.html>. Friends has been working with cities, counties, and water districts around the Bay region on resolutions supporting freshwater flows into the estuary.

Action Items:

John Andrew noted a correction to the previous meeting's minutes: his name should be added to the attendees list. Arthur Feinstein moved to approve the August minutes, Harry Seraydarian seconded, and all approved.

Arthur Feinstein moved to accept the 2015 IC Meeting schedule, Barbara Salzman seconded, and all approved.

State Revolving Fund new project:

Judy noted that we are close to getting the final paperwork for State Revolving funds to SFEP for 3 components:

- 1) An update of the 2008 State of Bay-Delta Science report. Delta Science strives to use the best available science for the implementation of the Delta Plan, including enforceable actions. The State of the Science needs to be updated on a 4 year cycle but has not been updated since 2008. Working to integrate the timing and products with the other 2 phases.
- 2) State of the Estuary Report – updating the 2011 State of the Bay Report.
- 3) CCMP update - \$260,000 (\$30,000 for project management, content development \$125,000, expert review \$20,000, public review/comment \$20,000, and a few other categories).

Regarding CCMP Revision:

- Public Outreach will include an array of activities from brown bag briefings, web site information, and spring outreach workshops.
- Current topic Area Subcommittees include: Water, Habitats, and Living Resources. The other topic areas don't have committees yet (ecological resources and stewardship). A web site for the subcommittee members (no public link, but the link can be requested) is now available to share information and to manage the 5 currently scheduled meetings for each of the 3 areas.
 - Meeting 1 focused on defining the process and drafting the working goals based on a 35 year vision. Other categories are objectives and actions (actions will be based on a 5 year timeline). The Habitat and Living Resources groups came up with working goals. The Water group wanted to wait to develop the goal.
 - Meeting 2 will focus on developing objectives. Staff has been consulting existing resources (i.e. CCMP, regional policy documents and action plans, 2015 State of the Estuary Report, and other resources). We are emphasizing known drivers of change: climate change and population growth as a key part of the effort.

CCMP Input from IC members:

Staff asked for feedback on what potential action items are "game changers." Early ideas included completing the Water Trail and Bay Trail, better connecting baylands with uplands, and water reuse.

Barbara Salzman suggested there are opportunities in dealing with climate change, instead of hardscape and hoped we don't lose track of long term problems (i.e. endangered species). Josh Collins focused on infrastructure change saying we should do our best to marry large-scale restoration planning with large scale infrastructure change (i.e. railroads and other infrastructure)

Carol Mahoney reminded the group that the local RCDs have great programs with ranchers. Arthur Feinstein stated that climate change is going to be difficult and related an example about development plans for the Oakland Coliseum area that did not take into account its location next to San Leandro Marsh and expert opinions that the area will be underwater in 75-100 years.

Kate Poole suggested we look at adopting the state policy on water supply. Warner Chabot noted that BCDC is going to have to go through a paradigm shift on bay fill. He considers that we will need horizontal levees, and BCDC will need to tackle with how and where we are going to fill the bay to provide multiple benefits. He suggested that we should be ambitious in looking at what goals are already in the existing goals reports that can be accomplished in a 5 year period. (Goals are currently at 50 year time schedule).

Amy Hutzel suggested looking at ABAG's Plan Bay Area and its approach to focusing development in selected areas. There will be population increases, but how do we accommodate those with the least impact? Carol Mahoney suggested spurring friendly rivalry among neighboring municipalities with the question, What can your city do to help the bay? Cities in her district take this approach and it works well.

The group was asked to keep in mind:

- Where can the CCMP be innovative and push the envelope?
- What are the priorities for the next 5 years?

Approvals for the CCMP revision:

The Committee discussed whose approval is needed to ratify or adopt the CCMP revision. EPA is developing formal guidance on getting CCMPs approved, but it's not yet available. It was noted that the current governor is from Oakland, and future potential governors are from the Bay Area, so it would be good to get a sense of ownership from the governor if we can. Judy reminded the members they should contact Caitlin to participate in a subcommittee, or could just review and give comments if you can't be a full participant.

Blake Roberts wondered about the two other topic areas which do not have workgroups currently (Ecological Processes and Stewardship). Judy explained that Stewardship concept includes completion of Bay Trail as a measure, amount of reuse of recycled water, etc., and that we are defining stewardship not a regulatory review but as an expression of the general population's relationship with the bay and environment.

Warner suggested we begin to bring the business community into these discussions.

BREAK

Highlighting IC Partner Efforts

Results of Proposition 1 Elections

Amy Hutzel gave an update on Prop 1. It includes funding for the following: State Coastal Conservancy (SCC), \$250 Million for Department of Fish and Wildlife (DFW) for non-delta watershed restoration, \$87 million for delta restoration, \$50 million for the Delta Conservancy, and \$65 million for IRWMP for the Bay (increased match requirement). The first appropriation will occur in July. The Conservancy portion

calls for competitive grants. There is also \$2.7 Billion to the California Water Commission for storage including groundwater. Arthur Feinstein suggested we add the Commission to the IC. Kate Poole noted that the Stanford Woods Institute for the Environment just posted some information about this on their web site. Tom wondered what we can do to access groundwater-related funding available in this region. Carol Mahoney suggested that the region has some small groundwater basins that would need some remediation before they can be used but might be able to tap into the storage money even though it would be a challenge. The Coastal Conservancy and California Fish and Wildlife are mandated to create criteria for these expenditures. Also, the Wildlife Conservation Board got \$200 million to enhance instream flow.

Estuary News Magazine - Ariel Rubissow Okamoto:

Ariel reminded the Committee that the publication is now called a magazine. We have gotten good feedback for the decision to remain in print rather than going to online-only distribution and that the publication is in fact targeting to the correct audience. We added some pages and have been making it more substantial, for example with special inserts such as the recent Seasons of Bay Life centerfold poster. Ariel has been taking the print copies to creek meetings and other venues. She is also posting extended stories online. For example, the recent Alameda Creek story was expanded on the web site. The salt field story on the web was timely and came out at the top of the drought discussion. The current distribution is 1700 snail mail, 600 PDF, 500 bulk, in addition to web links. Most recent online traffic metrics show 10,214 web site visits with 7000 new visitors to the Estuary section of the SFEP website. The budget was \$70K for 2014 but the preferred budget for 2015 would be \$95K to accomplish everything she would like to enhance.

Tom Mumley reminded the Committee that getting substantial non-SFEP funding was an experiment to see if outside contributors can keep the publication alive. We should ask if it is still a go (probably yes), then how far can we reach. Ariel asked what we can do to make it a platform to get information and reminded the Committee that it takes money to plan. She said we have a small list, but it is very high quality. We are on a two year commitment with the big funders and noted the publication is not for the general public, it is more of a professional magazine. Without Estuary News, there is no equivalent. There is expansion ability and some of the council members are encouraging adding more key members in the delta community and including professional associations that aren't plugged in yet. The next editorial board meeting is at the end of the year.

State of the Estuary Report – Letitia Grenier:

The last State of the Bay report came out in 2011. This is an update and will be adding in more information related to the Delta. The report will maintain the structure and attributes from 2011.

- Priority 1: Update existing indications with current data.
- Priority 2: Tweak indicators and benchmarks needing adjustment.
- Priority 3: Add new indicators.

The five Attributes that will organize the report are: [\(new items in blue\)](#)

Water Quality and Quantity- SFEI with the RMP are leading this piece.

Safe for aquatic life

Bay and [Delta](#)

Sidebars (i.e. not full indicator: [Nutrients and current-use pesticides](#))

Save to eat ([Delta](#), no new data for Bay)

Safe to swim (Bay and [Delta if data available](#))

[Safe to drink](#) (new item)

Freshwater inflow

Habitat

Estuarine open water (Bay and [Delta](#))

Baylands

Tidal March (Bay and [Delta](#))

[Riparian?: Delta](#)

Watersheds (Bay and [Delta](#))

[Subtidal](#)

[Bay](#)

[Gulf of the Farallones](#)

[Dissolved oxygen*](#)

Developed by John Largier. We are realizing that we are more connected with the nearby ocean. Not for sure if this is going to happen

Living Resources

Invertebrates (Bay and [Delta?](#))

Fish (Bay and [Delta](#))

Birds

Bay ([adding shorebirds and Ridgway's rail](#)) and Delta

[Mammals](#)

Bay ([Harbor Seals](#))

Ecological Processes

Flood events (Bay and [Delta](#))

Food Web (Bay and [Delta](#)) ([for Delta, nutrients/phytoplankton sidebar](#))

[Sediment supply*](#)

[Side bar](#) (not sure if can include the Delta)

[Climate Change*](#)

Stewardship

Urban Water Use (Bay and [Delta](#))

Recycled Water (Bay and [Delta](#))

Coastal Cleanup (Bay and Delta)
Public Access

Bay

Outside of the Attributes listed above, there are plans for the report's web presence. SFEI will be doing all of this work. Ideas in the pipeline include:

- Interactive storyline
- Summary video in lay terms
- Executive summary as interactive ebook
- Maybe a color wheel landing page linking to scorecard indicators, Estuaries Portal
- Links to PDFs of scorecard, executive summary main report, technical appendices.

As Judy mentioned earlier, there is new State Revolving Fund funding coming to support the report, and the scopes of work for the content are underway. The report development process includes roles for an Advisory Committee, Peer Review, and Project Leader.

Warner Chabot noted that journalists will write one story for any given event or press release. But for the State of the Estuary Conference, you could write dozens of stories. Can we develop and release some advance stories as a lead-up to the conference (i.e. every 3 days)? We should come up with an editorial strategy as well. Amy Hutzel stated that when the State of the Birds report came out, they had one key message: Birds aren't doing well, but where conservation is happening it helps the birds. We will need to define key messages.

Concluding Business

Review the Roadmap:

Confirmed agenda items for the next meeting: CCMP, State of the Estuary Report, Conference Planning.

Other Items of interest: resilient shoreline, Plan Bay Area.

Tom Mumley reminded the Committee that as the year progresses we will have less time for topical update items because we will need more time for key SFEP items. Luisa Valiela suggested we add a discussion on drought, if it is timely. Maybe we should get a presentation on preparing for the next drought. Jane Lavelle suggested that for the August meeting we have a Prop 1 update and IRWMP round 3+.

Announcements:

Kate Poole let the Committee know about a new publication "*Wetter or Not*" by fifteen environmental groups showcasing a series of near-term drought actions and highlighting what can be done at the local level to make conservation a way of life and better manage stormwater. SFEP posted a copy on its homepage: <http://www.sfestuary.org>.

Rainer Hoenicke announced an upcoming Delta Stewardship Council Meeting on November 20th, to determine what was learned about the last 3 years of drought, with an overview on the drought and climate science by Dan Cayan (Scripps Institute).

The group bid goodbye to long-time member Peter LaCivita, who stated that it has been a pleasure to serve on this committee. Also thanked in absentia was Supervisor Susan Adams, who was not able to attend her last meeting as an IC representative. The IC took a group photo holding Thank You, Susan and Thank You, Peter signs to post to social media.

The meeting was adjourned, and the next meeting is Tuesday, March 3rd.

Meeting Attendees:

IC Members

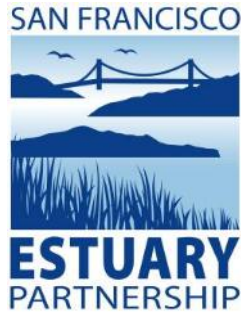
Bill Brostoff, USACE
Warner Chabot, SFEI
Erin Chappell, DWR
Josh Collins, SFEI
Arthur Feinstein, Citizens Committee to
Complete the Refuge
Rainer Hoenicke, Delta Stewardship Council
Amy Hutzel, State Coastal Conservancy
John Klochak, USFWS
Jane Lavelle, SFPUC
Peter LaCivita, USACE
Carol Mahoney, Zone 7 Water Agency
Jessica Martini-Lamb, Sonoma County Water
Agency
Tom Mumley, San Francisco Regional Water
Board
Kate Poole, NRDC
Blake Roberts, Delta Protection Commission
Barbara Salzman, Marin Audubon Society
Korie Schaeffer, NOAA
Harry Seraydarian, North Bay Watershed
Association
Melody Tovar, City of Sunnyvale
Luisa Valiela, U.S. EPA

Presenters

Letitia Grenier, Consultant
Ariel Rubissow Okamoto, Estuary News editor

SFEP Staff

Judy Kelly
Athena Honore
Karen McDowell
Jesse Mills
James Muller
Caitlin Sweeney
Paula Trigueros



DIRECTOR'S REPORT

March 3, 2015

SFEP Program Management

Director travels: I've just returned from Washington, D.C. during the last week of February. This was part of the annual visit to D.C. by NEP directors to meet with EPA Headquarters staff about priorities under the National Estuary Programs and to meet with our legislative delegation. We also worked with the Association of National Estuary Programs on policy and administrative issues.

Program review: In 2015, SFEP will be subject to a program review by EPA (we were last reviewed in 2010). We'll have a team of visitors from EPA HQ visiting, as well as an outside reviewer from another NEP. On our last review, we arranged site visits for the review team to get them acquainted with the kinds of work being done in our region.

Staff changes: Several SFEP contract staff have shifted roles or moved to work directly for the Water Board. Susan Glendening, who joined SFEP to work on a potable water permit, is now working on permitting for Santa Clara Valley Water District in a contract position for the San Francisco Bay Water Board and currently focusing on San Francisquito Creek projects. She is filling Maggie Beth's old role. Paul Modrell has moved to the Water Board, and Brendan Thompson also took a position with the Water Board Region 1 in Santa Rosa. Jesse Mills' position with SFEP has ended.

Karen McDowell has transitioned responsibility for our venerable boating outreach program to James Muller and Adrien Baudrimont, so that she can join the team of SFEP staff working on IRWMP. Karen will be focusing on the Water Conservation projects, and she will continue her work with invasive species and the State of the Estuary conference.

New IC member: Please welcome new IC member Matt Fabry, who represents the San Mateo Countywide Water Pollution Prevention Program as well as holding Board positions for BASMAA and CASQA.

Funding Awards

We are pleased to note that we were awarded funding for two projects under the San Francisco Bay Water Quality Improvement Fund:

Urban Greening Bay Area (\$1,730,862) - Working with partners SFEI, BASMAA, and local governments, the project will revise and improve siting tools for LID developed under the GreenPlan Bay Area project; develop GreenPlans that institutionalize LID features in local plans; participate in a Roundtable for Green

Infrastructure Funding for transportation-related LID implementation; host a competition to develop plans for LID features in common streetscape typologies; and work with cities to build several such features.

Suisun Marsh Water Quality Objectives Attainment: Source Reduction Field Testing Project (\$840,000) - This project supports TMDL early implementation and contributes to restoring water quality objectives in the Suisun Marsh. Project goals are to (1) implement Best Management Practices (BMPs) on selected managed wetlands to reduce their contributions to methyl-mercury concentrations and low dissolved oxygen conditions in adjacent tidal sloughs, and (2) develop simple tools for evaluating efficacy of other managed wetland practices on attaining these water quality TMDL objectives. By testing the efficacy of these measures through a combination of field data collection, hydrodynamic and water quality models, and peer reviewed literature, the project will extrapolate from these findings to identify constraints, opportunities and recommendations for meeting TMDL targets.

ABAG embezzlement issue: You have likely already seen the news that broke in January, that a former ABAG employee appears to have embezzled funds from an affiliate of ABAG, the Finance Authority for Nonprofits (FAN). We want to reassure all of ABAG's funding agencies, partner agencies, contractors, and consultants that grant, loan, conference and project funds managed by ABAG and SFEP staff are in no way involved in the recent alleged embezzlement from FAN. ABAG holds all grant, loan, conference and project funds in accounts that are completely separate from the FAN accounts. Further, the former ABAG employee who embezzled from FAN did not have access to or signature authority for any funds other than FAN funds.

ABAG has always tried to serve our partners with implementing the very best projects and we assure you this important work will continue. If you have any questions, do not hesitate to reach out to me or other members of the ABAG/SFEP staff.

SFEP Program Activity

Boating: SFEP's longest-running project is our outreach to recreational boaters on the Bay about reducing sewage discharge from their boats and using clean pumpout facilities. Our contract with the state Department of Boating and Waterways ends this June. DBW put out an RFP for new proposals for boating outreach work, and we submitted a proposal highlighting our deep experience along with some new ideas. We will keep you updated as to developments in this area.





BAFPAA Conference: SFEP partnered with Bay Area Flood Protection Agencies Association (BAFPAA) to host the conference “Sea Level Rise, Extreme Weather and Regulatory Hurdles: The New Challenges for Flood Protection” on February 19, which covered adapting to climate change, visioning bay area resiliency, mapping and data tools, and permitting agencies' alignment. BAFPA and the Coastal Hazards Adaptation Resiliency Group (CHARG), a working group of over 100 engineers, planners, scientists, and policy makers engaged in ongoing discussions to develop and implement regional flood protection solutions to sea level rise and extreme tides, developed the event.

State of the Estuary Conference 2015: Recent planning activity for the September 17-18 conference has focused on setting the plenary sessions' focus and format. Next steps will include a broader input session for people to contribute ideas about the concurrent sessions (afternoon of Day 1 and Day 2). That input session is likely to be scheduled for mid-March or April, and it will be the last opportunity for interested parties to suggest a topic or put together a session. If you're interested in participating, contact Karen McDowell (kmcdowell@waterboards.ca.gov). After the plenary and concurrent sessions are outlined, a call for posters will be issued.



IRWMP Round 2: SFEP's team (Jennifer Krebs, Paula Trigueros, Athena Honore, and Karen McDowell) is working to manage these nineteen projects through the startup phase of funding under IRWMP Round 2. Sixteen projects are now under contract. The SFEP team has worked with the Department of Water Resources and the Local Project Sponsors to establish administrative procedures, and we are now processing the first progress reports and invoices for the project (since grant funding can be applied as of February 2014, and match funding can go back to October 2008, the first reports cover an unusually long time period). We are also working closely with the Water Conservation local project sponsor to coordinate those eleven sub-projects (covering washer and toilet rebates, “lose your lawn” or “cash for grass” programs to reduce irrigation needs for residential landscaping, workshops, and large landscape transformation projects in a patchwork of service areas throughout the region) under a single reporting template and process. We are also in the early stages of processing a first agreement amendment with DWR.

IRWMP Round 3: We coordinated submittal to DWR of initial eligibility items and pre-contract administrative requirements. We have been working with the 11 project sponsors in this round to update the budgets, schedules, and work scopes for the draft agreement with DWR. These projects'

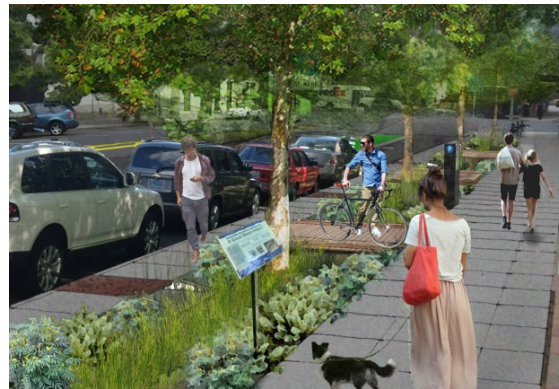
start dates would be very similar to Round 2, with grant funds able to be invoiced for expenses starting in early 2014.

San Pablo Avenue Green Stormwater Spine: This project will design, build, and monitor the effectiveness of multiple Low Impact Development (LID) retrofit sites along a major thoroughfare in the East Bay. SFEP is managing all elements of the project for our partnering cities of Oakland, Emeryville, Berkeley, Albany, El Cerrito, Richmond, and San Pablo. We are just wrapping up the design phase and coordinating with the design team (lead by Wilsey-Ham, Inc.) and our construction management firm (Harris and Associates) to generate the bid documents for implementation. After we have received our Encroachment Permits from Caltrans, we hope to get the bid package advertised this spring. If all goes smoothly, we estimate ground-breaking in early June 2015, with a 6-month construction window to get all seven project sites finished.

The overarching purpose of the project is to improve water quality in the Bay by installing green infrastructure facilities that slow and filter polluted runoff before it flows into the storm drain system. The project also aims to promote the wider use of these techniques to city and county planners and engineers, elected officials, and the general public. In addition to construction funding from Caltrans, the project is supported by grants from the US EPA's San Francisco Bay Water Quality Improvement Fund, the State's Integrated Regional Water Management Program, and the State's Urban Greening Program. Once installed, this highly visible project will cumulatively treat over 8 acres of impervious surface run-off!



Oakland Site, Existing



Oakland Site, Project Rendering

Outreach

Friends of the San Francisco Estuary: Friends continues to monitor the progress on updates to the State Water Resources Control Board's Bay-Delta Water Quality Control Plan. They joined other non-profit organizations to meet with State Board members at the end of February and beginning of March; at those meetings they presented a recent sign-on letter from Bay Area elected officials on the revised SED of Phase 1 of the Bay-Delta Water Quality Control Plan, which will establish regulatory standards for unimpaired flows for the lower San Joaquin River and major tributaries and salinity standards for the South Delta. The letter urges the State Board to protect public trust resources and associated beneficial

uses through stronger standards such as ensuring that no less than 50% of the San Joaquin River's total natural flow reaches the Delta (measured at Vernalis) during the critical February-June period. The letter can be found online at <http://friendsofsfestuary.weebly.com>.

Friends also commented on recent drought-related actions by the State Board in response to the Temporary Urgency Change Petition (TUCP) submitted by DWR and USBR. During a 12-hour, emotion-filled informational hearing on February 18, Friends issued a statement, summarized below:

...We appreciate the State Board's efforts to balance the needs of endangered species, farmers of different regions, fishermen, and other users of the Delta water supply during this exceptional drought by acting to conserve upstream storage for use later in the season...We would like to remind State Board members, staff, and others, however, that Delta outflows aren't only essential for endangered salmon and smelt, but for drinking water supply for Bay and Delta residents and for the health of the San Francisco Bay...We urge the State Board to maintain D-1641 requirements except as needed for critical human health and safety, coldwater fisheries supply and water temperature protection, and to reject requests for increased, non-emergency exports during this critical time for the Bay-Delta Estuary.

Contra Costa County Supervisor Mary Piepho also issued a statement at the meeting, saying, "...we must manage our freshwater flows better to build the resiliency for both people and the environment to survive drought conditions."

Resolutions: as of this date, seven Bay and Delta counties, one city, and two water districts have passed freshwater flows resolutions. Updated list and resolutions are online: <http://friendsofsfestuary.weebly.com/sf-estuary-resolutions.html>.

A recent blog by Dr. Jeff Mount, [Water Not Wasted to the Sea](#), highlights the importance of freshwater flows, particularly winter storm pulses, to the San Francisco Bay. The blog counteracts the rhetoric that freshwater flows from winter storms that exit the Delta are "wasted" to the Pacific Ocean, and was used by Friends to help inform their position on the TUCP Order.



Contra Costa County Supervisor Mary Piepho at the 2/18 State Board meeting



Image from blog post: http://www.ppica.org/main/blog_detail.asp?i=1677

Estuary NEWS: The December issue explores progress on stormwater management in four counties, planning for sea level rise impacts on sewage plants, and why there may be a lack of willing sellers of properties targeted for the restoration of fish habitat in the Delta, among other topics.



20/20 Vision: *Past Reflections, Future Directions*

ATTACHMENT 3

11th Biennial State of the San Francisco Estuary Conference
October 29–30, 2013
Oakland Marriott City Center, Oakland, CA

Opening Gala
at the Oakland Museum 5:00 PM OCTOBER 28, 1000 OAK STREET, OAKLAND, CA

Plenary Session TUESDAY, OCTOBER 29, 2013

9:00 AM **Opening Remarks**

Moderator: Andrew Gunther, Executive Coordinator, Bay Area Ecosystems Climate Change Consortium

Welcome

Mayor Julie Pierce, City of Clayton; ABAG Vice President

9:10 AM **20/20 Vision: Past Reflections, Future Directions**

Jared Blumenfeld, EPA's Regional Administrator for the Pacific Southwest

Steven Ritchie, Assistant General Manager of Water, San Francisco Public Utilities Commission

9:45 AM **Climate-Smart Estuary: Nature-based Solutions to Secure our Future**

Ellie Cohen, President and CEO, Point Blue Conservation Science

10:05 AM *Jean Auer Award*

10:20 AM **BREAK**

Wetlands, Flood Protection, and the Bay Area Economy

10:40 AM **Bay Area: What's at Risk?**

Carl Guardino, President and CEO, Silicon Valley Leadership Group

10:55 AM **The Strategy for South Bay**

Linda LeZotte, Director District 4, Santa Clara Valley Water District

11:10 AM **Panel Discussion**

Moderator: Carl Guardino, President and CEO, Silicon Valley Leadership Group

Linda LeZotte, Director District 4, Santa Clara Valley Water District

David Lewis, Executive Director, Save the Bay

Kerrie Romanow, Director of Environmental Services, City of San Jose

Lieutenant Colonel John Baker, Commander and District Engineer, US Army Corps of Engineers

Sam Schuchat, Executive Officer, State Coastal Conservancy

12:00 PM **Be the Street — Youth Stewardship Videos**

Nick Laurrell, SGA Inc.

12:10 PM **Inspiration Campaign**

Robert Bengston

12:15 PM **LUNCH & POSTER SESSION**

SAN FRANCISCO



ESTUARY
PARTNERSHIP

www.sfestuary.org/soe SOE 2013 Program 1

<i>Species / Restoration</i>	<i>Water Quality</i>	<i>Management Challenges</i>	<i>Sustainable Communities</i>
Native Wildlife and Invasive Species	Escape from Trash Mountain	Future Solutions for the Bay (I)	Sharing our Stories: Interpreting the Estuary
1:35 PM Introduction <i>Moderator: Beth Huning, SFBJV</i>	Introduction <i>Moderator: Janet Cox, SFEP</i>	Introduction <i>Moderator: Letitia Grenier, Baylands Goals</i>	Introduction <i>Moderator: Will Travis, Climate Change Consultant</i>
1:40 PM Porpoises and Dolphins Find New Habitat in SF Bay <i>William Keener, Golden Gate Cetacean Research</i>	Trash: It's What's for Dinner <i>Carolynn Box, 5 Gyres Institute, and Anna-Marie Cook, US EPA</i>	Integrating Nature and Engineering to Design a Resilient Bay <i>Robin Grossinger, SFEI, and Jeremy Lowe, ESA PWA</i>	The Indigenous Bay: Tribal Knowledge, Conservation and Challenges <i>Chuck Striplen, SFEI</i>
2:05 PM Distribution and Population Trends for the Endangered California Clapper Rail <i>Julian Wood, Point Blue Conservation Science</i>	Getting To Clean: Regulating Trash and Gauging Success <i>Dale Bowyer, SF Bay Water Board, and Chris Sommers, EOA, Inc.</i>	The Updated Baylands Goals: A Collective Vision of the Baylands for the Next Century <i>Letitia Grenier, Baylands Goals</i>	Above and Below: Stories from the Changing Bay <i>Ruth Askevold, SFEI, and Louise Pubols, Oakland Museum of California</i>
2:30 PM Balancing the Eradication of an Invasive Ecosystem Engineer and Endangered Species Recovery <i>Drew Kerr, Invasive Spartina Project</i>	TRASH REDUCTION: Just Do It! <i>Moderator: Melody Tovar, City of Sunnyvale</i> <i>Napp Fukuda, City of San Jose</i> <i>Meri Soll, StopWaste.org</i> <i>Rinta Perkins, City of Walnut Creek</i> <i>Rebecca Tuden, City of Oakland</i>	GUIDED Q&A: How the Baylands are Projected to Change Over the Next Century and Recommended Actions to Increase Ecosystem Resilience <i>Chairs of the Baylands Goals Science Workgroups</i>	Delta Gateways: Heritage and Habitat <i>Alex Westhoff, Delta Protection Commission, and Michael Moran, EBRPD</i>
2:55 PM Managing the Menace: Quagga and Zebra Mussels in California <i>Martha Volkoff, CDFW</i>			Curating the Bay: Crowdsourcing a New Public History <i>Jon Christensen, UCLA</i>
3:20 PM BREAK	BREAK	BREAK	BREAK
Sea Level Rise and the North Delta Ark	Bay-Delta TMDLs: How Can We Accelerate Water Quality Restoration?	Future Solutions for the Bay (II)	
3:40 PM Introduction <i>Moderator: Jay Lund, UC Davis</i>	Introduction <i>Moderator: Sam Ziegler, US EPA</i>	Introduction <i>Moderator: Robin Grossinger, SFEI</i>	
3:45 PM Cache Slough and the Northern Ark of Native Fishes <i>John Durand, UC Davis</i>	Central Valley Irrigated Lands Regulatory Program – Implementing the Pesticide TMDL <i>Joe Karkoski, CVRWQCB</i>	Nature-based Ideas for Shoreline Resilience: Current Status and Next Steps <i>Sarah Richmond, BCDC & Peter Baye, Coastal Ecologist</i>	
4:10 PM Suisun Marsh, Past, Present, and Possible Futures <i>Amber Manfree, UC Davis</i>	Implementing the Urban Creeks Pesticide TMDL—Early Victories on the Long Road to Solutions <i>Kelly Moran, TDC Environmental</i>	Aligning Regulation and Baylands Goals Implementation for Integrated Solutions and a Resilient Shoreline <i>Joe LaClair, BCDC</i>	
4:35 PM Yolo Bypass Integrated Modeling for Fish, Fowl, Farming and Floods <i>Robyn Suddeth, UC Davis</i>	Watershed Restoration — Implementing the Napa River Sediment TMDL <i>Leigh Sharp, Napa RCD</i>	WAYS FORWARD: Panel Discussion on Key Opportunities and Barriers <i>Joe LaClair, BCDC</i> <i>Jason Brush, US EPA</i> <i>Cay Goude, USFWS</i> <i>Anne Morkill, USFWS</i> <i>Bruce Wolfe, SF Bay Water Board</i>	
5:00–7:00 PM POSTER SESSION & RECEPTION			

Plenary Session

WEDNESDAY, OCTOBER 30, 2013

Future Challenges: Water Quantity, Water Quality

9:00 AM Opening Remarks

Moderator: Felicia Marcus, Chair, State Water Resources Control Board

9:05 AM One Estuary, Many Plans: How Will They Work Together?

Charlton Bonham, Director, Department of Fish and Wildlife

Mark Cowin, Director, Department of Water Resources

Randy Fiorini, Vice Chair, Delta Stewardship Council

Michael Machado, Immediate Past Executive Director, Delta Protection Commission

Felicia Marcus, Chair, State Water Resources Control Board

10:30 AM Outstanding Environmental Awards

10:45 AM BREAK

11:05 AM Signs that the Bay's Resistance to Nutrient Pollution is Weakening

James Cloern, Senior Research Scientist, USGS

11:30 AM Prioritizing Contaminants of Emerging Concern (CECs): Applying a Global Perspective to a Regional Strategy

Derek Muir, Senior Research Scientist, Environment Canada

11:55 AM California's Safer Consumer Product Regulations: An Important Tool for Water Pollution Prevention

Debbie Raphael, Director, Department of Toxic Substances Control

12:20 PM LUNCH & POSTER SESSION

Premier Sponsor:

State Coastal Conservancy

Anchor Co-sponsors:

Bay Area Clean Water Agencies

Cargill

City of San Jose

Delta Science Program

Friends of the San Francisco Estuary

Regional Monitoring Program

San Francisco Public Utilities Commission

U.S. Environmental Protection Agency

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Bay Area Stormwater Management Agencies Association

California Department of Fish & Wildlife

California Department of Water Resources

California State Lands Commission

Chevron

Citizens Committee to Complete the Refuge

Central Contra Costa Sanitary District

Contra Costa County Flood Control District

Delta Protection Commission

Ducks Unlimited

ESA

East Bay Municipal Utility District

East Bay Regional Park District

H. T. Harvey & Associates

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Port of San Francisco

San Francisco Bay Conservation and Development Commission

San Francisco Bay Joint Venture

San Francisco Bay National Estuarine Research Reserve

San Francisco Estuary Institute

Santa Clara Valley Water District

Save the Bay

Sonoma County Agriculture Preservation and Open Space District

Sonoma County Water Agency

Sonoma Land Trust

U.S. Fish and Wildlife Service

Water Education Foundation

Western States Petroleum Association

Zone 7 Water Agency

Species/Restoration	Water Quality	Management Challenges	Sustainable Communities
Restoring the Baylands	Managing CECs: An Ounce of Prevention	Delta Economics and Managing Multiple Stressors	Scaling up to Sustainable Watershed Management (I)
1:20 PM Introduction <i>Moderator: Amy Hutzler, State Coastal Conservancy</i>	Introduction <i>Moderator: Karin North, City of Palo Alto</i>	Introduction <i>Moderator: Campbell Ingram, Sacramento-San Joaquin Delta Conservancy</i>	Introduction <i>Moderator: Steve Moore, State Water Resources Control Board</i>
1:25 PM A Decade of Progress for the South Bay Salt Pond Restoration Project <i>John Bourgeois, State Coastal Conservancy</i>	Managing Contaminants of Emerging Concern in the Bay <i>Tom Mumley, SF Bay Water Board</i>	DISCUSSION PANEL: Perspectives on Delta Economic Futures <i>Jeffrey Michael, University of the Pacific</i> <i>Jerry Meral, California Natural Resources Agency</i>	Stream Level: Steelhead Populations as Indicators of High Functioning Stream Habitats <i>Jonathan Koehler, Napa RCD</i>
1:50 PM North Bay Wetland Restoration <i>Renee Spenst, Ducks Unlimited</i>	Flame Retardants – Effects of Flammability Standards and Bans <i>Becky Sutton, SFEI</i>		Reach Level: The Case for Reach—Scale Restoration and Habitat Enhancement <i>Gordon Becker, Center for Ecosystem Management and Restoration</i>
2:15 PM Completing the Hamilton Wetland Restoration Project: Are We There Yet? <i>Tom Gandesbery, State Coastal Conservancy</i>	Perfluorinated Compounds in San Francisco Bay Seals and Birds <i>Meg Sedlak, SFEI</i>	Scientist and Stakeholder Views on Delta Ecosystem Management <i>Ellen Hanak, Public Policy Institute of California</i>	Reach Level: Watershed Assessment Methods—The Challenges of Assessing Watershed Health <i>Josh Collins, SFEI</i>
2:40 PM Nearshore Linkages: The Roles of Native Oysters and Eelgrass as Living Shorelines <i>Katharyn Boyer, SFSU</i>	Pharmaceuticals and the Bay: A Cradle to Cradle Approach <i>Francesca Vietor, SFPUC</i>	Managing Delta Ecosystem Reconciliation Adaptively <i>Jay Lund, UC Davis</i>	Watershed Level: Integrating Watershed Assessments in Multi-Objective Projects—San Francisco Bay <i>Len Materman, San Francisco Bay Joint Powers Authority</i>
3:05 PM BREAK	BREAK	BREAK	BREAK
Wildlife Responses to Restoration	Nutrients: Managing a Changing Bay	The Delta Science Plan—Working Together to Build an Open Science Community	Scaling up to Sustainable Watershed Management (II)
3:25 PM Introduction <i>Moderator: Beth Huning, SFBJV</i>	Introduction <i>Moderator: Jim Ervin, City of San Jose</i>	Introduction <i>Moderator: Peter Goodwin, Delta Science Program</i>	Introduction <i>Moderator: Steve Moore, State Water Resources Control Board</i>
3:30 PM Salt Marsh Harvest Mouse Habitat Use in Suisun Marsh <i>Sarah Estrella, CDFW</i>	Nutrients in San Francisco Bay: Science to Inform Policy <i>David Senn, SFEI</i>	One Delta—One Science <i>Peter Goodwin, Delta Science Program</i>	Watershed Level: Urban Watershed Planning—What Does Sustainable Management Mean? <i>Josh Bradt, SFEP</i>
3:55 PM Bird Responses to Habitat Restoration—Progress, Challenges and Opportunities <i>Catherine Burns, San Francisco Bay Bird Observatory</i>	Counting Calories in the Bay: What is the Recommended Daily Allowance? <i>Naomi Feger, SF Bay Water Board</i>	PANEL DISCUSSION: Moving Forward with a Joint Science Agenda <i>Moderator: Rainer Hoenicke, Delta Science Program</i>	Regional Level: Developing Next Generation Technology and Management Tools for Sustainable Watersheds <i>Bill Eisenstein, UC Berkeley</i>
4:20 PM Monitoring the Effect of Salt Pond Restoration on Fish Populations in South San Francisco Bay <i>Jim Hobbs, UC Davis</i>	Nutrient Management: A Statewide Perspective <i>Martha Sutula, SCCWRP</i>	<i>Anke Mueller-Solger, Lead Scientist, IEP Scientist, USGS</i> <i>Paul Helliker, CDWR</i> <i>Carl Wilcox, CDFW</i> <i>Mike Chotkowski, USFWS</i> <i>Maria Rea, NOAA Fisheries</i> <i>Sue Fry, USBR</i> <i>Val Connor, SFWCA</i>	Regional Level: Current Trends and Future of Integrated Water Management—Combining Water Resource Governance Structures <i>Steve Moore, State Water Resources Control Board</i>

SAN FRANCISCO ESTUARY PARTNERSHIP

FFY 2016 WORK PLAN AND BUDGET

OCTOBER 1, 2015 - SEPTEMBER 30, 2016

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Attachment 1: Estimated FFY 15 Budget

Attachment 2: SFEP Staff List

Attachment 3: Funds Used for Travel

Attachment 4: Completed Projects

WHAT'S NEW IN 2015/16

The work plan has been restructured to align with two other major SFEP documents: the new *Comprehensive Conservation and Management Plan 2016* and the *2015 State of the Estuary Report*. This revision completes a long-term goal of ours; to integrate all of SFEPs key documents so that they work better as a whole framework to support our work. The Work Plan Elements now reflect our ecological

attributes as follows:



We continue to be very much focused on the goals in the current Strategic Plan as climate change adaptation is now a defined driver of the new CCMP and the watershed and water quality goals of the Strategic Plan are reflected in the actions in the CCMP and the health indicators of the State of the Bay/Estuary Report.

SFEP had a very successful year competing for funding on both the state and Federal level. As part of the regional team that prepared the winning proposals, we now manage for the region an additional \$50 million in 29 water quality and drought-preparedness projects. We were also awarded two new grants from EPA to continue our work on green infrastructure planning and science and monitoring in the Suisun Bay marshes.

In exciting developments, staff, our advisory committees and stakeholders are creating a new CCMP that will guide our actions for the next 5 years with a vision for how we want to manage and plan for our estuary in 2050.

We saw a number of staff reductions this past year as we streamlined our personnel levels to match our mid and long-term funding expectations. Several permit support contracts ended and with them the staff associated with those positions. Despite these reductions, SFEP is on solid footing to accomplish our strategic goals, actively manage the 56 projects in our portfolio, and implement the actions called for in the new CCMP.

INTRODUCTION

THE SAN FRANCISCO ESTUARY PARTNERSHIP

The San Francisco Estuary Partnership is a collaboration among federal, state, and local agencies aiming 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 water quality 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 Conference and publish reports such as *The State of the Bay* (2011). This work is currently supported by more than 21 federal, state, and local grants and contracts and 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. EPA, the Association of Bay Area Governments, and the San Francisco Bay Regional Water Quality Control Board and 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.

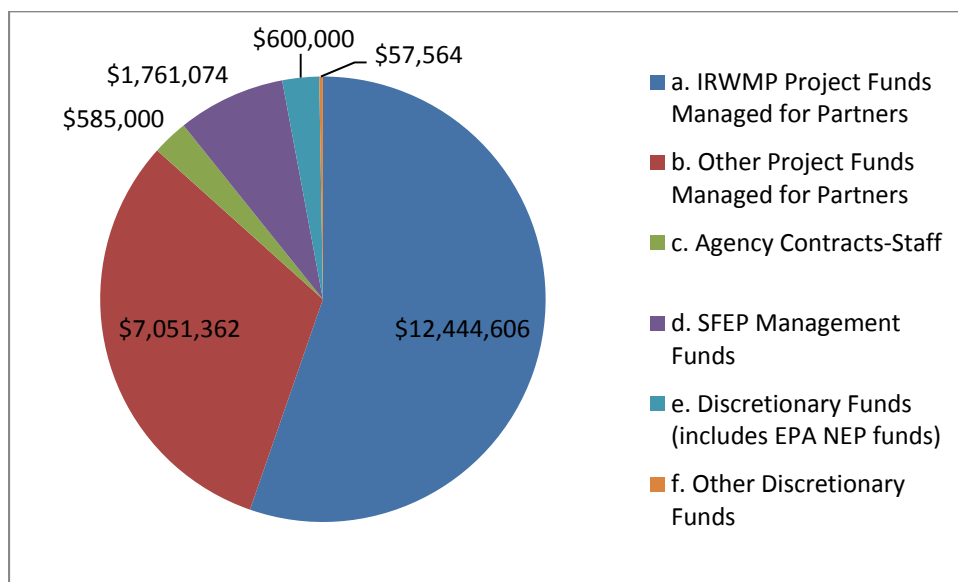
In all estuaries, the amount of fresh water that flows in from upland watersheds defines the quality and quantity of estuarine habitat. Most of the fresh water that flows into the San Francisco Estuary comes from the Sacramento and San Joaquin River basins, which provide more than 90 percent of total 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 determined in 2010 that 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 would need to 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 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

FFY 15/16 BUDGET ESTIMATE: SFEP's currently (as of Feb 24 draft) manages a total of over **\$65 million** in multi-year project and contract funding. This \$65 million includes four categories of funds: 1) project funds we are awarded and manage for our partners; 2) funds from contracts for technical support related to permit compliance; 3) operating funds for SFEP staff to manage over 80 grants and contracts, and 4) discretionary staff support/project funds we receive each year from our Section 320 grant through the US EPA along with incidental funds received through conference fees and donations.

- a. Project funds managed for partners: This includes the FFY 15 portion of the \$20 million that ABAG/SFEP was awarded for a Proposition 84 IRWMP Implementation Grant from DWR, which we manage on behalf of 19+ partners; and \$32 million awarded for 10 drought relief projects under a Proposition 84 IRWMP grant from DWR as well as the total of funds we manage for other projects being accomplished by nearly 80+ partners working under grants received by SFEP. Total amount of managed funds estimated for FFY15-16 is estimated at \$19,495,968.
- b. Agency contract funds for technical support staff related to permit compliance: Total funds estimated for FFY 2015-16 to support 4 staff positions to support the Regional Water Board for permit assistance is \$585,000.
- c. Grant management operating funds. Funds included in awarded grants for SFEP management and financial activities for this fiscal year is estimated at \$1,761,00 for the over 80 contracts we manage for ourselves and for our partners.
- d. Discretionary funding includes the annual NEP EPA funds of \$600,000 for this fiscal year.
- e. Other Discretionary Funds: Includes funds raised to support the biennial State of the Estuary Conference; currently \$ 57,564.



Clean Water Act Section 320 Funding. Our EPA FY 14 allocation will be **\$600,000**, -- 25 percent of SFEP's total operating budget (total of grant management and discretionary funds; \$2,418,638). These highly leveraged National Estuary Program dollars provide partial support for salary, benefits, and other fixed costs for 9 core staff. An additional

4 staff work under agreements with local agencies focused on clean water efforts [See staffing details in Attachment 2].

Match Funds. Our Section 320 funding must have a 50 percent match. The San Francisco Bay Regional Water Quality Control Board provides an estimated **\$784,310** annually grant match for Section 320 funding through in-kind support for office space, computers, phones, mailing, supplies, etc. Local agency contracts for technical support related to permit compliance also contribute to the **NEP leveraged funds** [funds above the required match]. 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 16:1 (2012) to 36:1 (2015-16).

Organization. This Work Plan reflects the basic organization of both the 2016 Updated Comprehensive Conservation and Management Plan and the updated 2015 State of the Estuary report and is in keeping with the already established goals set in the current Strategic Plan:

THE STRATEGIC PLAN: 2015 – 2018 GOALS

Goal 1: Build Estuary readiness to deal with 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: Increase watershed health

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: Improve water quality

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

The Work Plan matrix is divided into sections corresponding to the 5 attributes of a health estuary which now are the framework for our new CCMP and State of the Estuary Report. Work under each section is described into specific areas of effort with projects under each area categorized as follows:

Manage and Implement Current SFEP-led Projects

Projects for which SFEP staff are the overall lead or contribute substantially and for which SFEP has secured the funding.

Manage and Assist Current Partner-led Implementation Efforts

Projects for which SFEP is not the day-to-day lead but provides oversight, coordination and grant management support. This corresponds to the largest portion of our budget.

Potential New Initiatives Priority areas for new efforts, should funding be secured.

2015-2016 WORK PLAN ELEMENTS:

LIVING RESOURCES, HABITATS, WATER, ECOLOGICAL PROCESSES, STEWARDSHIP

LIVING RESOURCES

Objectives:

- Conduct scientific research and monitoring to measure status of natural communities
- Improve physical conditions and processes supporting self-sustaining natural communities
- Eliminate or reduce threats to natural communities

Measures of Success:

Measures of Success will be based on the action items in the Updated CCMP scheduled for completion in early 2016.

Key successes of the previous year:

Key successes will be added as data is available for the FY 2014-2015.

Living Resources: Implement SFEP-led Projects

Actions/projects	Activities	Timeline	Resources/Partners
<ul style="list-style-type: none"> • National Aquatic Nuisance Species Task Force • Western Regional Panel (WRP) on Aquatic Nuisance Sp. • The Marine Invasive Species Program's Tech. Advisory Com • Quagga-Zebra Mussel Action Plan Team 	<p>Provide continued staff support to panels and programs. Key activities include:</p> <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 <p>Staff attends Fall and Spring ANS Task Force Meetings, the Annual WRP meeting held in the fall, and MISP meetings and QZAP meetings as scheduled.</p>	Quarters 1-4	\$320 funding

Living Resources: Potential New Initiatives			
Actions/projects	Activities	Timeline	Resources
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	\$320 <i>funding</i> New funds
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 • Distributing AIS information at boat shows, but not creating new materials. 	Quarter 1	\$320 <i>funding</i> New funds

HABITATS

Objectives:

- Achieve and sustain the quality, quantity and diversity of habitats essential for a health San Francisco Bay Delta Estuary
- Protect ecological functions of connected aquatic and terrestrial habitats between the San Francisco Bay Delta Estuary and its watersheds
- Create and enhance the habitats that sustain the survival, including adaptation, of native and other highly desirable species

Measures of Success:

Measures of Success will be based on the action items in the Updated CCMP scheduled for completion in early 2016.

Key successes of the previous year:

- Reported 4,215 acres wetland restored and 4,790 linear feet riparian restoration to NEPORT.

Climate Change Research and Creek and Wetland Conservation and Restoration

Habitats: SFEP-led Projects			
Actions/projects	Activities	Timeline	Resources
a) Support research and analysis into effects of climate change on the ecology of the estuary to support adaptation and resilience efforts.	Staff the Joint Policy Committee SFEP staff coordinates ABAG's efforts with other agencies on the Resilient Shorelines Program, including developing a chapter on resilience for the revised Sustainable Communities Strategy.	Quarters 1-4	<i>\$320 funding/State bond money through ABAG</i>
b) Support the SF Bay Restoration Authority.	Staff support to the Board of the Authority as it carries out its mission to find local funding for regional wetland restoration. Continue to support RA	Quarters 1-4	<i>\$320 funding</i>
c) Refine existing and create new environmental indicators to measure and report health of the estuary	Reconvening indicator science team and beginning the process of indicator evaluation, refinement, and additions. A <i>State of the Estuary Report 2016</i> is underway.	Quarters 1-4	<i>\$320 funding</i>
d) 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. Phase I completed; considering next steps and funding needs	Quarters 1-4	<i>Needs additional funds</i>
e) Watershed Program	<ul style="list-style-type: none"> Managing currently funded IRWMP Prop 84 Disadvantaged Communities projects and assist with IRWMP update outreach. Coordinate the Bay Area Watershed Network (BAWN) and its working groups. Maintain BAWN online resources. Project management ongoing and basic support for BAWN, but funding has ended for other program efforts	Quarter 1-4	<i>DWR Integrated Regional Water Management Plan Implementation Grant-Prop 84 \$320 funding</i>

Habitats: Assist Partner-led Implementation Efforts			
Actions/projects	Activities (vary by project)	Timeline	Resources/Partners
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 Stonybrook Creek Bank Stabilization 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 & San Pablo Flood Project San Francisquito Watershed Design Curves Pescadero Integrated Flood Reduction and Habitat Enhancement Project SFEI Flood Infrastructure Mapping & Communication Tool Napa Co Milliken Creek Flood Damage Reduction Oakland Sausal 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 Process invoices and assist with audit questions Prepare progress and final reports 	Quarter 1	<div>EPA/West Coast Estuaries Initiative</div> <div>Partner: Ducks Unlimited</div>
		Quarters 1-2	<div>EPA/San Francisco Bay Water Quality Improvement Fund</div> <div>Partners: BCDC, San Francisco Estuary Institute, Co of Marin, San Francisquito JPA, SF Bay Joint Venture/Pt. Blue</div> <div>Alameda RCD</div> <div>San Francisco Estuary Institute</div> <div>California State Parks Foundation</div>
		Quarters 1-4	<div>DWR Integrated Regional Water Management Plan (IRWMP) Round 1 implementation grant</div> <div>Point Blue Conservation Science</div> <div>The Watershed Project</div> <div>Urban Tilth</div> <div>Committee for Green Foothills</div> <div>San Mateo RCD</div> <div>San Francisco Estuary Institute</div>
		Quarters 1-4	<div>DWR Integrated Regional Water Management Plan (IRWMP) Round 2 implementation grant</div> <div>Napa County</div> <div>City of Oakland</div>

<ul style="list-style-type: none"> • Petaluma Flood Reduction, Water and Habitat for Capri Creek • Redwood City Bayfront Canal Flood Management and Habitat Restoration • Richmond Breuner Marsh Restoration • San Francisco Bay Climate Change Pilot Projects (including Oro Loma Ecotone) • San Pablo Rheem Creek Wetlands Restoration • St. Helena Upper York Creek Dam Removal and Ecosystem Restoration • Lagunitas Creek Watershed Sediment Reduction & Management • Marin/Sonoma: Conserving Our Watersheds: Agricultural BMP project • Pescadero Water Supply and Sustainability project • Students and Teachers Restoring a Watershed (STRAW) 			<p>City of Petaluma</p> <p>City of Redwood City</p> <p>East Bay Regional Park District</p> <p>Oro Loma Sanitary District</p> <p>Contra Costa Water District</p> <p>City of St. Helena</p> <p>County of Marin</p> <p>Marin RCD</p> <p>San Mateo County</p> <p>Point Blue Conservation Science</p>
Coastal Regional Sediment Management Plan for SF Littoral cell	<ul style="list-style-type: none"> • Work with funders to identify a new implementer to complete outreach on the final half of the plan; manage contractor's work to complete outreach 	Quarters 1-4	<div>Dept. of Boating & Waterways</div> <div>U.S. Army Corps of Engineers</div>

Habitats: Potential New Initiatives			
Actions	Activities	Timeline	Resources
a) Develop and implement methodology to measure and credit climate change adaptation benefits from wetland restoration, grasslands and forests.	<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
b) Phase 2: 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	<i>\$320 funding</i> New funding
c) Expand Flood 2.0 Project	<ul style="list-style-type: none"> Identify and secure funding Identify potential partners and projects Further develop and refine project 	Quarter 3	<i>\$320 funding</i> New funding

WATER

Objectives:

- Improve estuary functionality to improve water quality
- Prevent, reduce, control pollution
- Improve management of water demand
- Help create a new water ethic

Measures of Success:

Measures of Success will be based on the action items in the Updated CCMP scheduled for completion in early 2016.

Key successes of the previous year:

Key successes will be added as data is available for the FY 2014-2015.

Water: TMDL /Pollution Prevention Implementation

Implement Current SFEP-led Projects

Actions/projects	Activities	Timeline	Resources/Partners
a) Implement and Track Bay Area Urban Creeks Toxicity/ Pesticides TMDL Project: Greener Pesticides for Cleaner Waterways campaign (GPCW)	For GPCW: Reduce household pesticide use through regional outreach campaign building on Our Water Our World program and Got Ants? materials.	Quarters 1-4	EPA/San Francisco Bay Water Quality Improvement Funds <i>\$320 funding</i> BASMAA
b) Coordinate Supplemental Environmental Projects (Water quality implementation projects funded through RWQCB fines)	<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 	Quarters 1-4	SF Bay Regional Water Board Administrative Civil Liability actions
c) Implement boater education program under the Clean Vessel Act: Increase pump-out usage and awareness among boating community	<ul style="list-style-type: none"> • Survey and report on condition and use of current pump-outs in the Bay-Delta region. • Work with marinas, boaters and stakeholders to develop a BMP and best technologies toolkit that can be used by other marinas throughout California and other states. • Host Honey Pot Day events in the bay and delta to educate boaters on sewage related issues • Develop implementation plan for a publically funded mobile pumpout pilot in the Oakland Estuary. • Develop a monitoring app for our surveyor to use and to be distributed to other states for use. 	Quarters 1-4	State Dept. of Parks and Recreation, Boating and Waterways CVA Grant
Assist Partner-led Implementation Efforts			
Actions/projects	Activities	Timeline	Resources/Partners
<ul style="list-style-type: none"> • TMDL Projects in Napa, and Sonoma Counties • Implement Pathogen 	<ul style="list-style-type: none"> • Complete monthly/quarterly/semi-annual progress reports 	Quarters 1-4	EPA/San Francisco Bay Water Quality Improvement Funds North Bay Watershed

<ul style="list-style-type: none"> TMDLs in Napa County North Richmond Stormwater Diversion Project Senador Mine Mercury Waste Remediation (Guadalupe R. watershed mercury TMDL) Calcine Paved Roads Remediation Jacques Gulch Remediation Design 	<ul style="list-style-type: none"> Manage subcontracts/sub-recipients Perform site visits Review and manage specific project actions Process invoices and billings Provide contracting support Produce final project reports 		<ul style="list-style-type: none"> Association Marin Municipal Water District Napa RCD Contra Costa County Flood Control & Water Conservation District Santa Clara County Dept. of Parks & Recreation Santa Clara County Dept. of Parks & Recreation
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Potential New Initiatives

Actions/projects	Activities	Timeline	Resources
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

Water: Green Infrastructure/Low Impact Development (LID)

Implement SFEP-led Implementation Efforts

Actions/projects	Activities	Timeline	Resources/Partners
a) Implement the San Pablo Avenue Green Stormwater Spine	<ul style="list-style-type: none"> Complete construction of 7 stormwater treatment retrofits in 7 cities Install interpretive signage Begin 2-year post-construction plant establishment period Continue project-specific outreach and education activities 	Quarter 1-4	<ul style="list-style-type: none"> DWR IRWMP Prop 84 Implementation grant SF Bay Water Quality Improvement Fund (EPA) Caltrans CA Natural Resources Agency-UGC Cities
b) Green infrastructure outreach	<ul style="list-style-type: none"> Organize/host green infrastructure tracks at conferences Participate in green infrastructure panels at conferences, workshops, and webinars Update SFEP webpage with results. 	Quarters 1-4	<ul style="list-style-type: none"> <i>\$320 funding</i> DWR IRWMP Prop 84 Implementation grant SWRCB Prop 84

c) GreenPlan Bay Area: LID siting and planning with local governments	In concert with SFEI, assist local governments in siting LID features; and developing GreenPlans that institutionalize the placement of such features	Quarter 1	\$320 <i>funding</i>
d) Urban Greening Bay Area (Phase 2 of GreenPlan Bay Area)	<ul style="list-style-type: none"> • In concert with SFEI, revise and improve siting tools for LID developed under GreenPlan Bay Area • In partnership with Local Governments, develop GreenPlans that institutionalize LID features in local plans • In concert with BASMAA, participate in Roundtable for Green Infrastructure Funding for transportation-related LID implementation • In concert with BASMAA, host competition to develop plans for LID features in common streetscape typologies; work with cities to build several such features. 	Quarters 1-4	EPA /San Francisco Bay Water Quality Improvement Fund
e) Update green infrastructure web tools	Add green infrastructure materials to SFEP website; include recent monitoring and evaluation results from current projects.	Quarters 1-4	\$320 <i>funding</i>

Assist Partner-led Implementation Efforts

Actions/projects/partners	Activities (vary by project)	Timeline	Resources
<ul style="list-style-type: none"> • City of Campbell Hacienda Green Street • San Jose Green Streets and Alleys Demonstration project 	<ul style="list-style-type: none"> • Quarterly reports • Site visits • Support and oversee San Francisco Estuary Institute monitoring efforts • Manage sub-recipients' project implementation contracts • Publicize projects • Hold tours and forums • Prepare final report 	Quarters 1-4	DWR IRWMP Phase 1 implementation grant DWR IRWMP Phase 2 implementation grant

Potential New Initiatives			
Actions/projects	Activities (vary by project)	Timeline	Resources
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 <i>funding</i>
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 <i>funding</i> New funding

Water: Conservation

Implement SFEP-led Projects			
Actions/projects	Activities	Timeline	Resources
Support and promote new methods of water use and conservation within the estuary watersheds.	Support current and potential projects	Quarters 1-4	DWR IRWM Prop 84
Assist Current Partner-led Implementation Efforts			
Actions/projects	Activities	Timeline	Resources/Partners
<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 Roseview Heights Water Supply Infrastructure Upgrades Lower Cherry Aqueduct Emergency Rehabilitation Project Zone 7 Water Supply Well and Pipeline Drought Preparedness Project Los Carneros Water District and Milliken- 	<ul style="list-style-type: none"> SFEP will manage grant projects Monitor project progress Review & submit quarterly reports and invoices Provide administrative support and management Coordinate sub-recipient activities Manage contracts for implementation of project-specific actions Review and submit final reports 	Grant Agreement expected June 2015 Local project sponsor (sub-recipients) agreements expected July 2015	DWR Integrated Regional Water Management Plan (IRWMP) Round 2 implementation grant City & Co San Francisco
			East Bay Municipal Utility District 13 regional water agencies Sonoma County Water Agency Roseview Heights MWD
			DWR Integrated Regional Water Management Plan (IRWMP) Round 3 implementation grant San Francisco PUC
			Zone 7 Water Agency

Sarco-Tulocay Recycled Water Pipelines • Sunnyvale Continuous Recycled Water Production Facilities and Wolfe Road Pipeline • DERWA Phase 3 Recycled Water Expansion Project • Calistoga Recycled Water Storage Facility • Drought Relief for South Coast San Mateo County • Stinson Beach Water Supply & Drought Preparedness Plan • Bay Area Regional Drought Relief and Water Conservation Project • WaterSMART Irrigation			Napa Sanitation District Los Carneros Water District City of Sunnyvale/Santa Clara Valley Water District Dublin San Ramon Services District/EBMUD City of Calistoga San Mateo RCD Stinson Beach County Water District StopWaste.org Marin Municipal Water District
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ECOLOGICAL PROCESSES

Objectives:

Ensure adequate freshwater flows to maintain a viable San Francisco Bay Estuary
 Monitor climate change indicators including precipitation, sea level rise, ocean acidification

Measures of Success:

Measures of Success will be based on the action items in the Updated CCMP scheduled for completion in early 2016.

Key successes of the previous year:

Key successes will be added as data is available for the FY 2014-2015.

Support Flow Studies and Efforts to Restore SF Bay Flows

Implement SFEP-led Projects

Action	Activities	Timeline	Resources/Partners
Support flow studies and efforts to restore adequate flows in the estuary and 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	<i>\$320 funding and work in partnership with The Bay Institute and Friends of the Estuary</i>

	<ul style="list-style-type: none"> • With partners, complete new report: <i>The Case for the Bay</i> summarizing the need for freshwater in the bay. 		
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STEWARDSHIP

Objectives:

- Promote public involvement in estuary protection through updated interactive website
- Educate the community through the biennial State of the Estuary Conference
- Educate the community through the biennial Bay-Delta Science Conference (Fall 2016)
- Create and publish the 2015 State of the Estuary Report

Measures of Success:

- Increased support for and distribution of SFEP *Estuary News* publication
- Increased attendees at forums, on tours, and at conferences
- Increase in web hits over prior year

Key successes of the previous year:

- Coordinated State of the San Francisco Estuary Conference September 17-18, 2015.

Implement SFEP Efforts

Actions	Activities	Timeline	Resources
a) 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>
b) 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
c) 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 Magazine</i> Columns in Service Matters (ABAG newsletter) 	Quarters 1-4	<i>\$320 funding</i> Appropriate grant funds and subscriptions and partner donations
d) Produce project-specific podcasts and public service announcements	Topics to be chosen as projects are completed	Quarters 1-4	<i>\$320 funding</i> Appropriate grant funds

e) Use/enhance 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/ [summer 2015 intern shared with Friends of the Estuary]
f) Commemorate significant dates by highlighting Partnership work	National Estuaries Day event	Quarters 3 & 4	<i>§320 funding</i> Appropriate grant funds
g) 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. • Plan the Bay-Delta Science Conference for the Fall of 2016. 	Quarters 1-4	<i>§320 funding</i> Appropriate grant funds
h) Increase outreach efforts through ABAG.	Continue green infrastructure leadership group; sponsor workshops.	Quarters 1-4	<i>§320 funding</i> Appropriate grant funds
i) Implement boater education program under the Clean Vessel Act (Increase pump-out usage and awareness among boating community).	<p>Produce and distribute pump-out maps and other outreach materials.</p> <p>Present at boat shows and to boating groups including cruise outs and yacht clubs.</p>	Quarters 1-4	State Dept. of Boating and Waterways CVA Grant
j) Greener Pesticides for Cleaner Waterways campaign	Reduce household pesticide use through regional outreach campaign building on Our Water Our World program and Got Ants? materials.	Quarters 1-4	SF Bay Water Quality Improvement Fund (EPA)

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

In FFY 2015/16 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:

- Continue to improve overall SFEP program management
- Expand and improve SFEP committee structure and support
- Expand funding sources for Partnership implementation efforts
- Keep current the actions of the CCMP and our reporting on the health of San Francisco Estuary

Measures of Success:

- Continued quality grants administration; good audit compliance and grant reviews
- Diversified funding sources
- Continue to update fundamental documents and reports

Key successes of the previous year:

- SFEP has been awarded a total of \$ 35,442,595 million in federal and state grants during the period from October 1, 2014 to April 30, 2015 [1/2 way through this FFY] We continue to expand our list of working partners and diversify funding

Ongoing and Completed Administrative Activities

Action	Activities	Timeline	Resources
a) Provide overall SFEP program management; contracting, budgets, personnel, scheduling, tracking, reporting, and support to sub-recipients and subcontractors, etc.	Actively manage SFEP's 40+ grants and contracts	Quarters 1-4	<i>\$320 funding</i> Appropriate grants and contracts
b) 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, <i>\$320 funding</i>
c) Report to EPA on habitat restoration and fund leveraging	Prepare annual NEPORT reports	Quarter 4	<i>\$320 funding</i>
d) Update the Comprehensive Conservation and Management Plan	In a major new effort, SFEP and IC partners are updating the CCMP	Quarters 1-4	<i>\$320 funding with augmentation for climate change adaptation actions from EPA HQ Climate Ready Estuaries</i>
e) Update the <i>2011 State of the Estuary Report</i>	SFEP and science partners are updating the <i>2011 State of the Estuary Report</i>		

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.

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 technical reviews, workshops and advisory panels, peer reviews, 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 entire Bay-Delta 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 biennial, two-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 2015 conference will be held September 17-18 2015.

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 2016 SFEP and its scientific partners are working to update the 2011 State of the Bay Report and after assessing the current report, update as needed and create new ecological and social indicators to characterize the health of the Estuary. The target is to release the 2016 State of the Estuary report at the Fall 2016 State of the Estuary conference.

Tracking Habitat Changes SFEP relies on its partners, the Joint Venture, 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; [http://www.sfei.org/sites/default/files/Pulse%202013%20CECs\(1\).pdf](http://www.sfei.org/sites/default/files/Pulse%202013%20CECs(1).pdf)

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. A 2012 Pulse of the Delta is also available

http://www.waterboards.ca.gov/rwqcb5/water_issues/delta_water_quality/comprehensive_monitoring_program/2012_pulse_of_the_delta.pdf

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

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, several SFEP staff, working under contract, provide technical support for reviewing and commenting on 401 permit applications and Waste Discharge Requirements. Typical projects include dredge and fill, 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, Marin and Sonoma counties and the Alameda County Clean Water Program.

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 support 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, prevention programs, management plans, prioritizing activities, and providing education and outreach to the public and stakeholders about invasive species issues.

Road Map for Upcoming IC Meetings

May 2015

Potential

- Plan Bay Area update – ABAG
- IRWMP Round 3, 3b
- Resilient Shoreline Planning: SFEP/ABAG, BCDC, CCC status
- Discussion of how watershed protection and water quality overlap with climate change issues (Melody Tovar)
- Oil Spill response and restoration: Cosco Busan DARP presentation by trustee agencies on what has changed and preparation for response to the next spill

Confirmed

- CCMP revision discussion
- State of the Estuary Report update
- State of the Estuary Conference 2015 planning
- SFEP 2015-6 Work Plan approval

August 2015

Potential

- Prop 1 update: where are the agencies in terms of developing funding guidelines

Confirmed

- CCMP revision discussion
- State of the Estuary Report update
- State of the Estuary Conference 2015 planning

November 2015

Potential

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Confirmed

- CCMP revision discussion
- State of the Estuary Report update
- State of the Estuary Conference 2015 debrief and accomplishments
- Discuss nominations for Chair/Vice Chair positions; selection in March 2016; new terms take effect May 2016