

## SAN FRANCISCO ESTUARY PARTNERSHIP

### Implementation Committee Meeting

Wednesday, March 2, 2016, 9:30 a.m. – 12:30 p.m.

1515 Clay Street, 2<sup>nd</sup> Floor, Room 10, Oakland, CA

### AGENDA

- |       |  |  |
|-------|--|--|
| 9:30  | <b>1. Welcome and Introductions</b>  | Amy Hutzel, Chair  |
| 9:40  | <b>2. Public Comments</b><br>Any member of the public may address the IC on any matter regarding implementation of the Comprehensive Conservation and Management Plan. Speaker will be limited to three minutes.<br><b>Action: Approve 11/17/15 Meeting Summary (Attachment 1)</b> | Chair  |
| 9:45  | <b>3. Director's Report (Attachment 2)</b>   | Caitlin Sweeney  |
|       | <b>4. Action: Select Chair/Vice Chair Positions for May 2016-18</b>  | <b>Amy Hutzel, Chair</b>   |
| 10:00 | <b>5. Reports on SFEP Activities</b><br>SFEP FFY 2016-17 Work Plan Draft (Attachment 3)<br>Update on ABAG-MTC Merger Proposal (Attachment 4)<br>CCMP Status (Attachment 5)   | Caitlin Sweeney<br>Caitlin Sweeney<br>Heidi Nutters              |
| 11:00 | <b>Break</b>   |  |
| 11:15 | <b>6. IC Member Activities</b><br>Clean and Healthy Bay Ballot Measure<br>Prop 1 Funding Update  | Beckie Zisser, Save The Bay<br>Beth Huning, SF Bay Joint Venture |
|       | <b>7. Concluding Business</b>  |  |
| 12:15 | Review Road Map; Add Agenda Items for Future Meetings (Attachment 6)<br>Announcements  | Chair, Caitlin Sweeney   |
| 12:30 | <b>8. Adjourn</b>  |  |

**San Francisco Estuary Partnership  
Implementation Committee Meeting**

Tuesday, November 17, 2015

Elihu M. Harris State Building

Oakland, California

**DRAFT MEETING SUMMARY**

**1. Welcome and Introductions**

Amy Hutzler introduced Caitlin Sweeney as our new executive director, effective December 26th.

**2. Public Comments/Meeting Summary Approval**

There was no public comment. Harry Seraydarian moved to approve the meeting summary, Matt Fabry seconded, and all were in favor.

**3. Director's Report – Judy Kelly**

- I will be departing and Caitlin will be stepping in as Director.
- We had our five-year program evaluation by EPA this year. Luisa Valiela has been heavily involved in this process and EPA was pleased with our performance. Our draft review letter was very positive.
- The state has made its decision on round 4 of IRWMP and SFEP was selected to manage the grant for the region. We are now administering Rounds 2, 3, and 4 for our regional partners. I want to thank our staff for their work, especially Jennifer Krebs.
- Please check out our State of the Estuary Report web page which includes great material and a video (<http://www.sfestuary.org/about-the-estuary/soter/>).

**4. Reports on SFEP Activities**

*State of the Estuary Conference Highlights – Karen McDowell*

- 800+ people registered, and there were 860 posters. We will post some of the presentations online and are reviewing evaluations. We are planning a post-conference meeting with the planning committee and Caitlin.
- Warner Chabot noted that we got very good press on the Pulse report and there was a very positive evolution of the report in that we are getting some of the authors to weigh in on the work that we hope to have done by 2050.
- November 2016 Bay Delta Science Conference planning is currently underway and we are working at getting a contract signed with the venue.

### *CCMP Status and Next Steps – Caitlin Sweeney*

Last time we spoke, we were about to release the Estuary News insert in August which gave an overview of the goals, objectives and actions.

The draft CCMP was released September 17 and we solicited online comments via our website. At the SOE conference, we had a CCMP Pop-Up Workshop to provide a forum for attendees to discuss the new CCMP and community building. The booth was staffed at all times, and we gave out SFEP pins to participants as well as a link to our website where the comments on the CCMP were being solicited. 61 organizations provided 300 responses.

Outreach methods include: SFEP homepage; follow up emails from the Pop-Up workshop; SFEP mailing list of 4500; additional mailing lists, newsletters, Bay Area Watershed Network, BASMAA, etc.; social media – Facebook, Twitter, etc.. Comments from online solicitation included 18 commenters from private and public entities.

#### Discussion:

- Tom noted limited local government comment is noted (only City of Oakland). Many of the actions do require local involvement. There are parties that need to play a role that don't seem engaged at this point, we will need to try and wrap them into this as we move forward. Judy and Caitlin clarified that the next stage of targeted outreach is to contact the lead agencies for buy in on the activities and goals.
- Harry asked who made the comment about enhanced focus on environmental justice, and Caitlin clarified that it were anonymous.
- Jane noted that the SFPUC reviewed the CCMP and had no comments

Next steps: We will review comments, compile them, post them, and integrate them into our product. We will assign the actions owners/leads and participating partners. We will set an implementation schedule/funding analysis, develop a framework for measuring performance and success, and flesh out document – framing text, sidebars, relation to existing plans, etc. We will convene the steering committee February 2016 (expected), and bring the finalized document to the IC for approval in March, 2016 (expected). The document would then need to be approved by the Executive Council, and we'd expect a final revised CCMP released in May/June, 2016.

#### Further discussion:

- This could support Restoration Authority ballot measure work if that is happening in the summer time.
- Is timing realistic? The release date seems optimistic with the amount of work we have left on the table. Lead agencies, costing, schedules, activities refinement, etc. It is overwhelming. We're talking millions of dollars in resources that this document is addressing. Response: We have funding to do a large part of this work so that it isn't all up to staff to complete.

- Will there be a communications rollout plan? Consultants will help move that forward.
- Could there be a shorter name for this document? The current name would be a barrier to the success of a successful media strategy. Response: The CCMP is known language by its key circle and a reference to the CWA language. However, it doesn't mean we can't take a look at this. Suggestions solicited; please email Judy.

*Nominations for Chair/Vice Chair positions – Amy Hutzell*

We need to select these positions in March to take effect in May. Tom and I are willing to stay in our positions. If you want to nominate anyone else, please email suggestions to Caitlin. The Regional Board has a spot as chair or vice chair, and Tom is happy to play either role. There is no obligation to change from the current setup. Staff will send email to IC members for possible nominations and vote in March meeting.

*Update on ABAG/MTC Merger Issue – James Muller*

- ABAG is SFEP's administrative entity. ABAG and the Metropolitan Transportation Commission (MTC) jointly produce Plan Bay Area, but there is some contention regarding their ability to work together. MTC funds ABAG for the land use component (\$4 million).
- MTC proposed in summer 2015 to move ABAG responsibilities to MTC and remove funding from ABAG. That lost funding would eliminate ABAG's ability to provide some core staff and functions that SFEP depends on. The Union got involved, and Santa Clara County Supervisor Dave Cortese and SF Supervisor David Campos negotiated a resolution passed by both the ABAG and MTC boards in late October to move towards a full merger instead defunding.
- A consultant, expected to be retained in November, will develop a merger plan by June. If that fails, MTC will return to the plan to substantially defund ABAG. As SFEP is a satellite of ABAG, we are at risk if ABAG can't administer grants or dissolves.
- A merger between the agencies has been attempted twice before.
- Practical implications of merger would be changes to staffing and governing. Some cities are very concerned about losing a stake in the regional planning process. Continued funding for ABAG retiree benefits is another issue
- Is the friction about substance or logistical? There are two points of contention in the Plan Bay Area process: 1) meeting our housing needs with incommuting, and 2) displacement. Despite suggestions that we suffered major schedule delays, we performed quite well compared to others in the state.
- MTC's budget is \$40 million but with toll funds, goes to \$1 billion. ABAG has 40 staff, MTC has 200. Caitlin: This is also an opportunity for us to review what works and what doesn't for us. Matt: Related to CCMP: local municipalities don't know about SFEP.
- How are other NEPs structured? At what point does the Partnership look for a new home or at least think about pros and cons? Amy: Staff will come back in March with description of how we work now, other options from other NEPs, and an update on the merger situation.

## 5. IC Member Activities

### *SF Bay Restoration Authority – Amy Hutzel*

The RA was established by state law in 2008 and is housed at ABAG. It currently has very limited funding and has a board appointed by ABAG's executive board, which is composed of local elected officials. San Mateo Supervisor Dave Pine is likely to become the new chair.

The RA is charged with developing and dispersing local funds for the SF baylands in habitat enhancement/restoration, flood protection, and public access. The RA's November 18<sup>th</sup> meeting materials include a list of potential projects, with a map, that the RA could support (<http://abag.ca.gov/cgi-bin/attachments.pl?agenda=a111815a.htm&group=a>).

Ballot measure language has been reviewed by counsel and a final draft is ready to present to the RA at its January 13, 2016 board meeting. We will conduct a poll before that meeting to assess Bay Area voter support. Another poll recently showed that the Bay Area was the most supportive in the state for this type of measure.

#### Summary of ballot measure:

- \$12 per parcel tax for 20 years, would fund clean, safe water; birds and wildlife; integrated flood protection; and shoreline public access.
- Project evaluation factors will include greatest positive result, benefit to economically disadvantaged communities, geographic distribution, and others.
- 50% of funds raised would be appropriated based on population and obligated. The rest would go to projects in any district. 5% of funds would go to admin and to ballot measure costs. \$20 million per year would be generated with this measure.

#### Comments

- Water Quality is one of the key components, but it's not clear what type of WQ projects would be funded. It seems that this is really focusing on restoration work. Response: the goal of this component is to remove pollution, trash, and harmful toxins in the bay. The RA would need to assess how far up watersheds these projects could be funded: what is the nexus between the proposed project site and the shoreline.
- Are we anticipating state and federal match? How is that going to play into the messaging? Response: These funds will certainly increase federal and state funds coming into the area, but it's not clear that that would have a role in messaging.
- Large trash capture devices could be a solution to water quality issues with this funding, but they do not appear here. Could these be funded? Response: The list is certainly not exhaustive and I have solicited input from local governments. I don't think that these devices are necessarily excluded from being funded.

### *Estuary News – Ariel Rubissow Okamoto*

Many of the funds provided for the Estuary News have come from members of this group. Most of you have a two year commitment, and this is an opportunity to review whether we want to continue producing the Estuary News. We have funding through December.

Discussion:

- Tom – In our RMP steering committee meeting, we discussed our RMP inserts over the next year and are expecting the Estuary News publication to continue. I appreciate the larger questions, but the RMP is certainly willing to be a player in this.
- When would you call in your editorial board to assess this question? Response: The editorial board has no decision making power.
- Warner - SFEI is very interested in continuing this publication. There are many things that are coming down the pipeline that will need attention called to them. I think we underinvest in communications currently. Can you say under the current financing scheme, how much funding do you have? Response: We are funded through December of this year. We are doing more online publications with longer stories. The budget we had over the last two years didn't really allow me to grow. Our publication is \$60-70k a year. Another \$30k would allow us to expand.
- Tom – When and how will these decisions be made?
  - Ariel - We have \$20k from the Delta Science Program and possibly another \$10k from the RMP. Caitlin will be involved in determining this.
  - Judy – It looks like we need to have a series of conversations around this issue including Maven, Bay Nature, and amongst ourselves to determine what permutation of Estuary News we want to have as we move forward. It is healthy to ask if printing four times per year is the best way to host this info in 2016.
  - Jessica – We always link stories and online content to other resources and project descriptions. As we roll out the CCMP, I think we could use this as a platform to reflect on how projects integrate with the CCMP.

#### *Baylands Goals Science Update – Matt Gerhart*

Tidal marshes have been a big focus. We have attempted to understand what is in progress, in relation to the 2009 benchmark and historical benchmarks. We compared tidal marshes in 1998, 2009, and “future.” One of the report’s focuses has been marsh resilience to sea level rise. We present scenarios of marsh resilience during sea level rise in regard to different levels of sediment supply.

The Bayland Goals update is a synthesis and updates all the drivers.

Some themes include:

- Restore complete systems (high, plane, low, subtidal)
- Sediment supply is critical
- Install of marshes as quickly as possible to take advantage of sediment supply
- We need to plan for marshes to migrate inland

**Next steps**

- We got a great media splash – 15 articles, 2 or 3 TV spots – we want to keep it up.
- San Jose Mercury News just endorsed the Restoration Authority as a tangential benefit of this update. The Sears Point breach was a great showcase.
- At some point, we will need to work with ABAG to get counties and cities to support this document and its processes.

**Comments**

- Tom – Are proposed CCMP actions in sync with the Goals? Caitlin – Yes, they are. There are about 5 actions that are directly related. The documents were produced simultaneously, so there was a lot of discussion around this. We will ensure that our language syncs up closely with this update.

**6. Concluding Business**

- Harry S – NBWA will have its conference in April and Judy will moderate.
- Amy H – IC members, please email any additional agenda item suggestions for the Road Map.

**Attending****IC Members:**

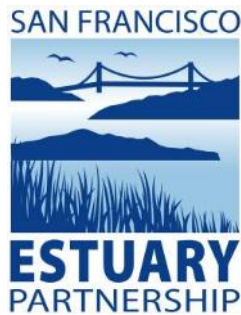
- Michael Vasey, SF Bay NERR
- Harry Seraydarian, North Bay Watershed Association
- Amy Hutzler, State Coastal Conservancy
- Tom Mumley, SF Bay Regional Water Board
- John Klochak, U.S. Fish & Wildlife Service
- Matt Fabry, San Mateo Countywide Water Pollution Prevention Program
- Kate Poole, NRDC
- Bill Brostoff, U.S. Army Corps of Engineers
- Warner Chabot, San Francisco Estuary Institute
- Jessica Davenport, Delta Stewardship Council
- John Andrew, DWR
- Jane Lavelle, SFPUC

**Presenters:**

- Ariel Rubissow Okamoto, Estuary News
- Matt Gerhart, State Coastal Conservancy

**SFEP staff:**

- Judy Kelly
- Caitlin Sweeney
- James Muller
- Josh Bradt
- Karen McDowell



## DIRECTOR'S REPORT

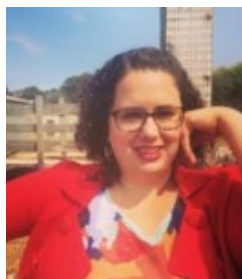
March 2, 2016

### SFEP Program Management

#### New Director and New Staff

As the new Director of SFEP, I am honored to continue the great work of this organization in advancing the increased health and resiliency of our Estuary. Since taking the helm in late December, 2015, I have been keeping busy meeting with staff and partners to get up to speed on SFEP projects, and making decisions about project and staff transitions. 2016 is already proving to be a busy and exciting year, and I look forward to keeping the IC engaged and informed.

Welcome to new staff Heidi Nutters and Darcie Luce, newly hired as Environmental Planners. Darcie works half time and oversees the implementation of water-focused actions in the CCMP and assists with management of IRWMP-related projects. In addition to her work with the San Francisco Estuary Partnership, Darcie is a Water Policy Specialist for Friends of the San Francisco Estuary. Before joining the Partnership and Friends, Darcie was Assistant Director of the California Land Stewardship Institute, managing creek and watershed restoration projects and a water quality certification program for farmers.



Heidi leads the Comprehensive Conservation Management Plan (CCMP) process and supports climate resiliency efforts. Prior to joining the Partnership, she managed the Coastal Training Program for the San Francisco Bay National Estuarine Research Reserve. In her role there, she supported regional collaborative science, communication, training and strategic planning efforts. Heidi was previously a NOAA Coastal Management Fellow with the San Francisco Bay Conservation and Development Commission.

#### Revising November 2016 meeting date to Wednesday, November 2, 2016

We initially selected Wednesday, November 16, 2016 as the date for our fourth IC meeting of the year. However, that conflicts with the Bay-Delta Science Conference, held November 15-17 in Sacramento this year. **Please update your calendars with Wednesday, November 2, 2016** as the revised date for our last IC meeting of 2016. The time and place will remain the same, 9:30-12:30 in Room 10 on the second floor.



## **EPA Program Evaluation Concludes with Final Letter Received**

The EPA evaluation team sent the letter concluding their program review of SFEP on January 5. The purpose of the EPA reviews are to determine whether each NEP in the program is making adequate progress towards implementing its CCMP, as well as to bring EPA team members up to speed on each program's accomplishments and unique programs and to assess how well the NEPs support core Clean Water Act programs and how well they support the EPA Strategic Plan goals. The Program Evaluation team determined that "the SFEP continues to make significant progress in implementing its CCMP." SFEP passed its evaluation and continues to be eligible for funding under CWA section 320. We wish to thank staff and IC members who participated in the review process. A copy of the letter is included in the meeting packet at the end of this Director's Report.

## **Director Travels to DC**

I traveled to Washington, DC Feb 23-25 for the annual NEP directors' meeting and EPA workshop, discussing EPA's annual priorities for the NEPs and news. This year's theme is "Beyond Water and Salt – SPICEing up the National Estuary Program." In addition to attending the meeting and workshop, I met with many Representatives from the Bay Area region to brief them on current SFEP activities, thank them for their continued support of the National Estuary Program, and encourage them to sign on to a support letter to Appropriations for each NEP to receive \$600,000 in FY 2017.

## **ABAG Activity: Office Move and Merger Discussions**

ABAG's planned March 4<sup>th</sup> move to 375 Beale Street in San Francisco, home of the new Bay Area MetroCenter, has been postponed for at least 30 days, due to delays in acquiring necessary sign-offs from safety and regulatory entities. The Bay Area MetroCenter will house the Metropolitan Transportation Commission, the Bay Area Qir Quality Management District, and ABAG. SFEP offices will remain at 1515 Clay Street with the San Francisco Regional Water Quality Control Board, although SFEP staff will have access to office space in the Bay Area MetroCenter.



Management Partners, the consultants chosen to undertake a study of possible merger/integration of MTC and ABAG, kicked off the study in January. The study will explore options for MTC and ABAG to

better integrate the Bay Area's transportation and land use planning efforts, and develop options/models up to and including a merger and an appropriate implementation plan. The study and plan will be complete by June, 2016. Management Partners has just unveiled a new website to provide information the process: [mtcabagmergerstudy.com](http://mtcabagmergerstudy.com). You can find a 2-pager about the study in this packet, and I will provide a more detailed update on the merger and potential impacts on SFEP at the meeting.

## Program Highlights

### **SF Bay Restoration Authority Funding Measure Moves to the Ballot**



The RA, staffed by the State Coastal Conservancy, ABAG, and SFEP (Karen McDowell and Caitlin Sweeney), decided to go forward with a ballot measure for a \$12 parcel tax to raise regional funds for wetland restoration, known as the Clean and Healthy Bay measure. Karen has been working with other RA staff to coordinate polling work, which provided the Governing Board with the information they needed to decide to place the measure on the ballot. Save The Bay will chair the campaign, and SFEP's role will be limited to providing educational information about the value of wetland restoration in SF Bay and to continue to staff the RA and make sure the measure is placed on the ballot in all nine Bay Area counties. See [www.sfbayrestore.org](http://www.sfbayrestore.org) and [www.savesfbay.org](http://www.savesfbay.org) for additional information, and note that Save The Bay staff will discuss the campaign for the measure at the March meeting.

### **Estuary 2100 Phase II North Bay TMDL Project Completions**

The North Bay sediment and pathogen TMDL projects have completed their work in Napa, Sonoma, and Marin. Partner agencies included the Napa RCD, Sonoma RCD, Sonoma Ecology Center, and the County of Marin with support from the North Bay Watershed Association and the Marin Municipal Water District. These projects installed erosion control structures in urban watersheds, creek revetments, restored two different reaches in two different counties, and worked to help vineyard operators in Napa and Sonoma put farm plans in place to reduce erosion into their watersheds.

### **Monitoring Mercury and Sediment Loads During El Nino Flood Conditions**

With the strong El Nino developing, it is possible that 2016 will experience large winter floods. Large floods occur rarely but move large amounts of sediment and contaminants through watersheds and around the Bay. Collecting data during these rare events is critical for understanding mass balances of contaminants and sediment. Collecting data during these events is also useful for calibrating models of the Bay. This new project will use EPA funds to support the Regional Monitoring Program's efforts to monitor sediment flux at the Golden Gate and Dumbarton bridges as well as mercury loading into the San Francisco Bay from the Guadalupe Watershed during this El Nino year. This project will be completed this year.

## **“GreenPlan Bay Area” Project Completed**

Staff is pleased to report the successful completion of the Bay Area Green Infrastructure Master Planning Project (now known as “GreenPlan Bay Area” to better align with ABAG’s regional Plan Bay Area process). The primary goal of the project was to create tools and strategies for overcoming identified barriers to widespread implementation of Green Infrastructure (GI) within the public right-of-way.

These tools and strategies included: 1) creation and piloting of a multi-component spatial tool (GreenPlan-IT) to analyze GI siting feasibility, hydrologic conditions, and optimized type/density combinations to achieve most cost effective target load reductions (within a watershed), 2) integrating GreenPlan-IT findings into municipal planning documents, 3) analyses of alternative GI funding strategies, and 4) demonstration of GI design processes at 8 select locations. This was a collaborative effort among SFEP, the San Francisco Estuary Institute (SFEI) and the Cities of San Mateo and San Jose. The State Water Resources Control Board awarded the project \$597K from Prop 84 and local partners contributed \$88K in matching funds. As mentioned at the last IC meeting, we have begun Phase 2 of this project with a \$1.72M grant from the EPA’s SF Bay Water Quality Improvement Fund.

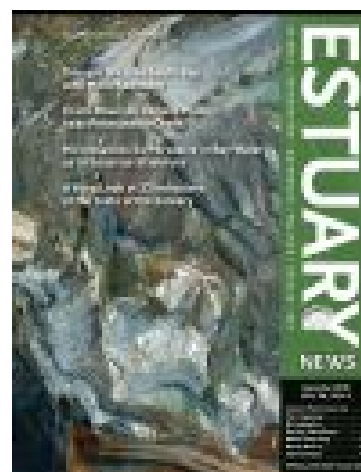
## **Estuary News Support Solicited for 2016**

At the December IC meeting there was some discussion on whether to raise needed funds from partners to continue the publication of Estuary News in 2016. Based on some initial positive feedback and partner contributions, SFEP and Estuary News are committed to publishing four issues in 2016. The decision to continue Estuary News in 2016 was based on both partner support and the opportunity to use Estuary to promote and support the release of the revised CCMP in mid-2016. The attached letter from the Estuary News Editor and me describes the decision for 2016 and requests additional donations from IC members who may wish to support Estuary News. As also stated in the letter, the IC will be presented options for the future of Estuary news at the fall, 2016 meeting.

## **Outreach**

### **December Estuary News**

The December 2015 issue includes a 4-page removable insert on the State of the Estuary 2015 33 Indicators of Health. The issue also explores why the Water Board calls a South Bay cement quarry “the most under-regulated facility” in the region, where the drought is delivering more sediment than anyone anticipated, and how more microplastics have been found in San Francisco Bay than in the Great Lakes, among other topics.



## Tweeting for the Estuary this Valentine's Day



SFEP participated in a three-day social media campaign leading up to Valentine's Day to demonstrate local support for federal programs that benefit estuaries to Congress, the Administration, and Federal programs. We tweeted about coastal restoration's benefits to the economy, seafood, and the value of the coast to the U.S. population. The Association of National Estuary Programs, Restore America's Estuaries, and the National Estuarine Research Reserve Association coordinated the campaign.

Using Facebook and Twitter, SFEP achieved a broad reach with this campaign. On Twitter, SFEP posted 4 times, and these were shared 3 times by partners. On Facebook, a total of 8 posts cast a broad reach to 1094 people. Currently, SFEP has 179 Twitter followers and 607 followers on Facebook.

A number of visual aids were created for the campaign, and a few of them are included below.







UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

JAN - 5 2016

OFFICE OF  
WATER

Ms. Judy Kelly  
San Francisco Estuary Partnership  
1515 Clay Street, Suite 1400  
Oakland, CA 94612

Dear Ms. Kelly:

This letter provides an overview of the findings and recommendations of the 2010–2015 Program Evaluation of the San Francisco Estuary Partnership. The PE team thanks you, your staff, and participating partners for contributing to the review. Support and background documentation for the review held in Oakland, September 21, 2015, and planning for the State of the Estuary conference that preceded, held September 17–18, 2015, all required considerable work and effort. The PE team extends its sincere gratitude to the entire staff of the SFEP that supported the evaluation process and the implementation and support of numerous projects throughout the study area. The team wishes, in particular, to thank you as you step down from your role as director for the leadership and commitment you have provided to the program during your tenure. The team also thanks Curtis Bohlen, Director of the Casco Bay Estuary Program, and Luisa Valiela from EPA Region 9 who participated as members of the official review team led by María Dolores Wesson from EPA Headquarters.

The primary purpose of the PE is to help EPA determine whether the 28 programs included in the National Estuary Program are making adequate progress implementing their Comprehensive Conservation and Management Plans. The PE process also enhances EPA's staff knowledge of the NEPs and promotes the use of innovative projects and approaches across the national NEP network. In addition, EPA uses the PE process to assess how the NEPs support the Clean Water Act core water programs, and evaluate the extent and effectiveness of their contributions to the achievement of *EPA's 2011 - 2015 Strategic Plan* under "Goal 2: Protecting America's Waters," and its two objectives: 1) Protect Human Health; and, 2) Protect and Restore Watersheds and Aquatic Ecosystems.

After careful consideration of the supporting documentation and the site visit presentations and discussions the PE Team determined that the SFEP continues to make significant progress in implementing its CCMPs. SFEP catalyzes and builds on EPA's core programs, leverages significant resources, and build collaborative partnerships in many areas that further the goals of its CCMP. As a result of these findings, the PE Team determined that SFEP passed the 2015 PE and is eligible for continued funding authorized under CWA §320.

## **2015 Program Evaluation Findings**

The following summary highlights the Team's key findings for SFEP: (I) Progress Made in the Areas Highlighted in the 2010 Program Evaluation, (II) Support of CWA Core Programs, (III) Strengths, and (IV) Challenges. This summary is intended both to recognize the Program's successes and to recommend efforts to further strengthen the Program. The Program's response to these findings and recommendations will be evaluated at the conclusion of the next PE cycle.

### **I. Progress Made in the Areas Highlighted in the 2010 Program Evaluation Review**

The December 2010 PE letter addresses three challenge areas: priority setting, governance, and indicators and tracking. The SFEP has taken a number of actions that relate to these areas.

#### **Priority Setting**

With regard to priority setting, the 2010 PE letter recommended that "SFEP work with its steering and implementation committees to refine its priorities." The development of a revised CCMP and the 2013-2018 Strategic Plan have provided added clarity and focus to this area of need. The work plans and budgets developed by the SFEP provide a third level of additional detail that focus on annual actions and commitments at the operational level.

#### **Governance**

The 2010 letter recommended that "SFEP establish clear roles and responsibilities for its executive, steering and implementation committees." The roles and responsibilities of the executive council, the implementation committee, and program staff are clear to all parties and are documented in numerous places. The Partnership is led by a Director and staffed by approximately 20 environmental professionals who manage and implement the work. The Executive Council and the Implementation Committee provide advice and guidance. The Implementation Committee meets quarterly and includes representatives of over 25 organizations including resource agencies, nonprofits, local, regional, and federal government, and the business community. The Executive Council is made up of heads of local, state, and federal agencies, and meets when needed.

General information on the executive council, the implementation committee, and program staff can be found on the SFEP website. Detailed information on the history and current roles of these governing bodies and program staff can be found in the "Implementing the Comprehensive Plan" section of the current Strategic Plan.

The Friends of the Estuary, the associated 501(c) organization, has renewed its commitment with new leadership and has a newfound focus on freshwater flows in the Delta – an area of great opportunity but tremendous challenge under the current drought conditions in California.

#### **Indicators and Tracking**

Finally, the 2010 PE letter recommended that the "SFEP increase its efforts to link Program actions with outcomes." The methodology that underpins the State of the Estuary Report provides a good basis



for indicators and tracking of outcomes as well as a great outreach and education tool for the region. The SOE Report assesses status and trends of 33 indicators of estuary health in 5 categories: water, habitat, wildlife, processes, and people. The indicators have been peer reviewed and vetted by over 100 scientists and have been agreed upon as the most useful to track ecosystem trends over time. The report is made available on the SFEP website with an interactive framework that includes a summary video and summary table of “infographics” as part of the Executive Summary.

## **II. Support of CWA Core Programs**

With forty percent of the state of California draining into the Bay - Delta, extended drought, projected sea level rise, and habitat losses throughout the estuary, the focus of the program on water quality, habitat and climate adaptation continues to be well placed. The SFEP is one of several key agencies protecting and restoring water quality in the San Francisco Bay- Delta Estuary. Good examples of SFEP’s cutting-edge work include efforts to address non-point source pollution via green infrastructure, the promotion of water conservation methods and practices, and habitat restoration efforts. These are particularly important now given the continued drought conditions in spite of the predicted El Niño for 2015/16 and the progress made in achieving reductions in water consumption and consumer behavioral changes in the recent months.

EPA is increasingly turning to green infrastructure and low impact development as a component of addressing stormwater quality and quantity in stormwater permits. In recognition of the need that cities have to address these CWA permit requirements, SFEP has been a leader in successfully competing for funds to implement on-the-ground projects with partner cities and counties, as well as in developing new partnerships with SFEI and others to develop green infrastructure planning tools like GIS-based watershed models. SFEP has completed LID projects in San Francisco, Fremont, El Cerrito, and a regional trash capture device installation project. Additional projects include investments along San Pablo Avenue in coordination with Caltrans, a multiple city partnership in Green Plan Bay Area, and the experimental Oro Loma Levee Project.

## **III. Strengths**

### **Increased Regional Cooperation**

During this reporting period, SFEP has increased its viability and relevance throughout the region and heightened its collaboration among a number of state and local governmental entities and agencies. This increased level of cooperation has been reflected in the funding commitment of these agencies and in the growth and stability of SFEP’s budget and portfolio in water and restoration projects. The increased collaboration between state and federal partners has allowed SFEP to maintain a leveraging ratio of over 15 to 1 in federal NEP funds within the study area.

### **Engagement of the Scientific Community and the Public**

The 2-day biennial State of the Estuary Conference is a noteworthy achievement for the program and a good model of how an NEP can harness regional partnerships with a wide range of institutions to provide a forum for sharing scientific and policy information with experts from academia, local, state and federal government, and the public. The conference provides a sense of scientific focus, a forum

to vet shared science needs and priorities for San Francisco Bay, and a place to share cutting-edge knowledge and data about a wide range of natural resources disciplines and questions. In addition, SFEP also runs the Delta Science Conference every two years, which also serves as a forum to bring focus and scientific attention to the issues of the Sacramento-San Joaquin Delta. These well-attended scientific meetings require significant advanced planning and funding commitments. The outcome is a sustained and dedicated set of two complementary forums that bring together the larger science community with policy-makers and resource managers to focus on the current state of knowledge and informs future actions for both the Bay and the Delta.

Information on the health of the Bay-Delta Estuary provided by SFEP's State of the Bay and State of the Estuary reports has been instrumental in the support of numerous decisions and policy positions by a number of governmental and non-governmental institutions. For example, it was used by Friends of the Estuary to develop and promote freshwater flow resolutions that have been passed by a number of cities and counties. While these resolutions do not call for specific outcomes from the various planning processes underway regarding Delta facilities and planning efforts, they do express the resolve of these governing bodies to promote and support freshwater inflow improvements during critical periods and ensure that freshwater flows are part of any solution agreed upon as a negotiated outcome to these processes. Frequent status updates on the passage of such resolutions can be found on the Friends of the Estuary website.

### **Addressing Emerging Issues**

In 2015, the SFEP CCMP underwent a significant revision. The draft document stays true to 35-year goals while simultaneously focusing on emerging actions. SFEP has recognized the critical need to include issues that were not addressed in the original CCMP, such as climate planning and adaptation. The draft CCMP brings together a number of critical elements into a cohesive and rational framework for management actions in the context of climate change impacts, rising seas, and the need for collaborative planning, sharing of knowledge and collective regional action in the larger Bay-Delta.

Holding true to the previous CCMP while focusing on key emerging actions will serve SFEP well moving forward. The new CCMP also importantly reflects the 2015 State of the Estuary report's five attributes of a healthy estuary – water, living resources, habitats, ecological processes and people.

EPA commends this important process and effort, and the commitment to update the CCMP every five years. The draft document is currently undergoing public comment, and will be released in 2016. Please refer to the NEP CCMP guidance document, distributed by EPA HQ to each NEP Director and EPA Regional Coordinator in July 2015, to ensure that the new CCMP and any associated documents meet the new requirements, and undergo the necessary EPA concurrence process. EPA HQ is pleased to assist as necessary in these efforts.

### **Habitat Restoration**

Tremendous progress has been made in the last ten years in San Francisco Bay towards tidal wetlands restoration. In 1999, the Baylands Ecosystem Habitat Goals Report, a science based analysis co-authored by EPA Region 9, established a 100,000 acre goal for tidal wetlands restoration, and to date over 16,000 acres of that 100,000 acre goal are in the process of being restored to tidal. Most of the restoration acreage is occurring at the South Bay Salt Pond Project, the largest tidal wetlands



restoration project on the West Coast, but significant other efforts are also occurring in the North Bay and in the Suisun region. SFEP, in particular, is supporting efforts in Suisun. SFEP's key partner agencies, the Coastal Conservancy and the San Francisco Bay Joint Venture, and numerous nongovernmental organizations, such as Save the Bay and Audubon continue to make progress all around the Bay and its watersheds.

SFEP has spearheaded work with flood control agencies in several places around the Bay to help develop multi-benefit projects through integrated planning. Flood control projects that incorporate habitat restoration, improved hydrogeomorphic functioning of watersheds, use of wastewater effluent where appropriate, and reconfiguring of infrastructure are just some of the components being considered in these projects to improve the resiliency at the mouths of creeks with cooperating flood control agencies.

#### **IV. Challenges**

##### **Climate Change**

Many of the goals of the new CCMP are threatened by sea level rise, warmer temperatures, and increased variability of the hydrologic cycle, drought and ocean acidification. The SFEP is to be commended for its focus on climate adaptation and more recently for its support of a small mitigation pilot project in blue carbon funded by EPA Headquarters.

EPA's most recent program guidance requires that each NEP assess the impact of climate change on its CCMP to ensure that it can continue to be a successful program and realize its goals as well as develop annual work plans that represent climate-resilient investments. SFEP has taken advantage of available funding in this regard to undertake a risk-based vulnerability assessment that targets the objectives of the CCMP so that it may be achieved even as the climate changes. As climate impacts increase over time and the scope of work for the SFEP also increases, a likely challenge will be managing and maintaining the growth in resources that will be needed to meet the demands imposed by climate issues in both the Delta and the Bay.

This unprecedented challenge also provides a series of new opportunities. EPA recommends that the SFEP continue to pursue all possible avenues to work with all sectors of society in the region. For example, there will be a need for leadership and the development of targeted outreach products and tools that can serve the private sector in the region as they face business decisions related to adaptation and to a lesser degree mitigation practices. The private sector will no doubt feel the impacts of climate and will be searching for best management practices, collaborative partnerships and other ways to address emerging needs, particularly in a context where an honest broker of information can bring together landscape-scale solutions that are science-based, policy-relevant and endorsed by a wide range of government agencies.

Thank you for your commitment and work in support of the CWA core programs and goals. Our participation in your review has allowed our staff to gain a stronger understanding of your work, your needs and the regional context of SFEP. Thank you for this opportunity.

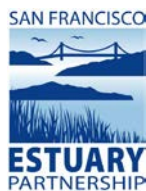
Should you have any questions about the process or the finding of the team, do not hesitate to contact me for clarification or assistance.

Sincerely,

A handwritten signature in cursive script, appearing to read "Ann Campbell".

Ann Campbell  
Acting Director  
Oceans and Coastal Protection Division

cc: Benita Best-Wong, U.S. EPA, Director, Office of Wetlands, Oceans and Watersheds  
Bernice L. Smith, U.S. EPA, Chief, Coastal Management Branch  
Luisa Valiela, U.S. EPA Region 9  
Curtis Bohlen, Casco Bay NEP  
María Dolores Wesson, U.S. EPA Oceans and Coastal Protection Division



**ESTUARY News Magazine** <http://www.sfestuary.org/estuary-news/>

TO: Implementation Committee Members  
 FROM: Ariel Rubissow Okamoto, Managing Editor  
 DATE: February 10, 2016  
 RE: Partner contributions to ESTUARY News

Caitlin Sweeney, our new director, and I wanted to update you on 2016 funding for the award-winning *ESTUARY News Magazine*, which the San Francisco Estuary Partnership has been publishing for over 20 years. As you are aware, despite the loss of the bulk of our federal funding over the last two years, we were heartened to receive enough support from our CCMP Implementation Committee members to continue to publish.

In 2015, we published four well-received issues, as well as three special inserts: a March 2016 fact sheet on Oro Loma's experimental levee; a September 2016 list of proposed CCMP actions for public review; and a December 2015 *State of the Estuary* table of indicator results. Several of our stories were picked up by local news stations. We accomplished all this within our limited annual budget of about \$65,000, and with help from partners and subscribers like you.

Early in 2016, we began reaching out to those of you who so kindly supported the magazine over the last two years. We are happy to report that we have already been promised a total of \$35,000 from the Delta Science Program, the Regional Monitoring Program, the Sonoma County Water Agency, and BCDC. Others among you may have already received letters or calls from us as well, and we hope to hear that you will be able to support us again soon!

Right now we have \$82 in our magazine bank account, and have already started work on our March issue, which includes a feature on innovations in the restoration of centennial marshes at Sonoma Creek, a call to support the new Restoration Authority, and a look at the latest data collected on how the Delta's False River salinity barrier performed over the last year, among many trenchant topics.

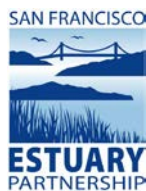
Our plan is to continue publishing through 2016, but to review *ESTUARY's* performance and scope in light of new CCMP priorities in fall 2016. At the fall IC meeting, we will present options and seek your input on any changes to the magazine's future focus. The budget has not been increased for three years, and needs an update to increase readership and maintain a strong online presence.

In the meantime, I attach, for your convenience, a blank sample invoice for a 2016 partner-subscription-contribution. All you need to do is contact Ariel with your preferred amount and terminology!

We know that you believe in the importance of good news coverage about issues facing the Bay-Delta system, and we thank you for your continued support.

Cheers,

Ariel Rubissow Okamoto, Editor & Caitlin Sweeney, SFEP Director



**ESTUARY News Magazine** <http://www.sfestuary.org/estuary-news/>

February 10, 2016

Invoice Request: ESTUARY NEWS FUND ###

SFEP Tax ID# 94-2832478

**TO:** Implementation Committee Members

**RE:** Partner Subscription-Contribution

**2016 Contribution Due**

**PROJECT:** Publication of *ESTUARY News Magazine*, four times a year in print, with additional supporting content on the web site.

Please make check payable to SFEP/ABAG and mail to:

San Francisco Estuary Partnership  
1515 Clay Street, Suite 1400  
Oakland, CA 94612  
Attn: Estuary News Magazine Fund

**Partner Subscription-Contribution benefits:**

- Extra print copies upon request for distribution in your offices or for waiting room coffee tables. How many would you like?
- Distribution to any of your staff, advisors or boards by email in PDF – please provide those addresses.
- Occasional coverage of issues of concern to your organization. Please feel free to suggest story ideas and people to interview to the editor at any time.

**Managing Editor**

Ariel Rubissow Okamoto – [estuaryeditor@gmail.com](mailto:estuaryeditor@gmail.com) or 415-922-1130

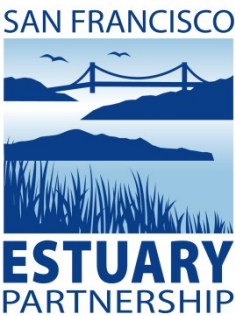
*Thanking you in advance for your support of this unique magazine and public outreach resource!*

**SAN FRANCISCO ESTUARY PARTNERSHIP  
FY 17 **DRAFT** WORK PLAN AND BUDGET  
OCTOBER 1, 2016 - SEPTEMBER 30, 2017**



*Pacheco Marsh. Photo by Stephen Joseph, courtesy of Contra Costa County Flood Control and Water Conservation District*





# FY 17 **DRAFT** Work Plan and Budget

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October 1, 2016 – September 30, 2017

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**I. Continue Ongoing Funded Projects**

**II. Commence New Funded Projects**

**III. Pursue New Initiatives**

**Attachment 1: Budget Detail**

**Attachment 2: SFEP Staff List**

**Attachment 3: Funds Used for Travel**

**Attachment 4: Completed Projects**

## INTRODUCTION

The San Francisco Estuary Partnership (“Partnership” or “SFEP”) collaborates with federal, state, and local agencies and stakeholder partners whose mission is 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*, (CCMP); manages environmental projects throughout the greater San Francisco Bay Area; and educates the public about Bay-Delta ecological issues. The Partnership also sponsors scientific conferences and colloquia including the biannual State of the Estuary Conference and publishes reports such as *The State of the Estuary* (2015). This work is currently supported by more than 30 federal, state, and local grants and contracts that cover over 70 projects, and by the San Francisco Bay Regional Water Quality Control Board, which houses our offices, and the Association of Bay Area Governments, our host entity.

This work plan addresses the requirements of receiving annual US EPA implementation funds. Our 2016/17 \$600,000 appropriation of Section 320 EPA funding is a small, but critical part of the budget as it allows staff to work on efforts not directly funded by the other specific grant/contract funds. The workplan is approved by the Partnership’s Implementation Committee prior to providing it to EPA.

This work plan summarizes our budget, and lists the projects, programs, and partners that SFEP will be working on from October 2016 to September 2017. Some of these projects were designed by and are directly managed by SFEP staff, but most of the work plan’s projects are being implemented by our partners, with SFEP providing financial and administrative oversight.

It is important to stress that the Partnership’s budget and work plan are continuously in flux. With only the EPA annual allocation as a constant income source, the Partnership must constantly work to develop new projects and find new funds and Partnership staff are continuously working with possible new funding partners and applying for new awards. This means that new projects are always in the pipeline and that staffing allocations of time and budget shift frequently to meet new obligations as additional funds are secured. This means that the work plan that will be approved by the Implementation Committee in May 2016 will be somewhat different from the Partnership’s actual work during October 2016 to September 2017.

## WHAT'S NEW IN 2016/17

**The work plan has been restructured** to reflect the *2016 Comprehensive Conservation and Management Plan: Actions for a Healthy Estuary*. The new CCMP looks to the future of the Bay-Delta Estuary. How can the people and communities that surround the Estuary best protect this economic engine while restoring the values of this greatly stressed union of water, tidal habitats and uplands? With the expected impacts of climate change and continued population growth, what will the Estuary look like in 50 years? What do we need to plan for now – and what actions can we take in the near-term to help ensure a thriving Estuary 35 years from now, despite the changes we can expect and those which we cannot yet foresee?

The *2016 CCMP: Actions for a Healthy Estuary* is the result of two years of work involving myriad partners, experts and stakeholders. A unifying collaborative blueprint, the CCMP includes four goals that represent the 35 year vision for the future of the San Francisco Bay-Delta Estuary, 12 objectives that detail desired outcomes that make progress towards achieving goals, and 40 actions that lay out a set of priority tasks to be accomplished over the next 5 years to reach one or more objectives. The *2016 CCMP* builds upon the *2015 State of the Estuary Report* by linking management responses to the findings of the *State of the Estuary Report* and using the health indicators contained *State of the Estuary Report* to track long term outcomes of the actions where possible, thus better integrating SFEP's science and planning documents and facilitating an adaptive management approach for SFEP and the region.

The work plan has been streamlined into three categories of projects. Both ongoing and new funded projects are listed. The third category lists new initiatives from the 2016 CCMP that SFEP is committed to pursuing through identifying and securing new partnerships and funding sources. Every project has been tagged with the 2016 CCMP goals and objectives the project helps meet.





## 2016 CCMP GOALS AND OBJECTIVES

*Where do we want to be in 2050,  
and what can we do in the next five years to get started?*

### **GOAL 1: Sustain and Improve Habitats and Living Resources of the Estuary**

#### **Objectives:**

- a. Protect, restore, and enhance environmental conditions and processes that support self-sustaining natural communities
- b. Eliminate or reduce threats to natural communities
- c. Conduct scientific research and monitoring to measure status of natural communities, develop and refine management actions, and track progress towards management targets

### **GOAL 2: Increase the Resiliency of the Estuary to Sustain Functions in the Face of Changing Climate Conditions**

#### **Objectives:**

- d. Increase resilience of tidal habitats and tributaries to climate change
- e. Increase resilience of communities at risk from climate change impacts while promoting and protecting natural resources
- f. Promote integrated, coordinated, multi-benefit approaches to increasing resiliency

### **GOAL 3: Improve Water Quality and Increase Water Quantity to the Estuary**

#### **Objectives:**

- g. Increase drought resistance and water efficiency and reduce demand on imported water
- h. Improve freshwater flow patterns, quantity, and timing to better support natural resources
- i. Reduce contaminants entering the system and improve water quality

### **GOAL 4: Champion the Estuary**

#### **Objectives:**

- j. Build public support for the value of natural resources and the need to protect, restore, and maintain a healthy Estuary
- k. Build on regional leadership and support to protect, restore and maintain a healthy Estuary
- l. Promote efficient and coordinated regional governance

## BUDGET

### FY 17 Budget Estimate

SFEP manages approximately \$100.2 million for more than 70 projects funded by grants and contracts. As most of those grants are multi-year, this fiscal year budget estimate represents the slice that we would expect to receive and expend during that October 1 to September 30<sup>th</sup> federal fiscal year.

Our estimated FY 2017 budget is \$27,907,707.

We have provided four figures showing various breakdowns of our budget:

1. Total projected income, showing various funding sources
2. Breakdown of Federal versus State and local funding
3. Breakdown of Federal National Estuary Program funding (Section 320 “base funds”) versus other funds
4. SFEP-specific funds to manage projects versus passed-through funds to partners for implementation

The full budget is included after the work plan table as Attachment A.

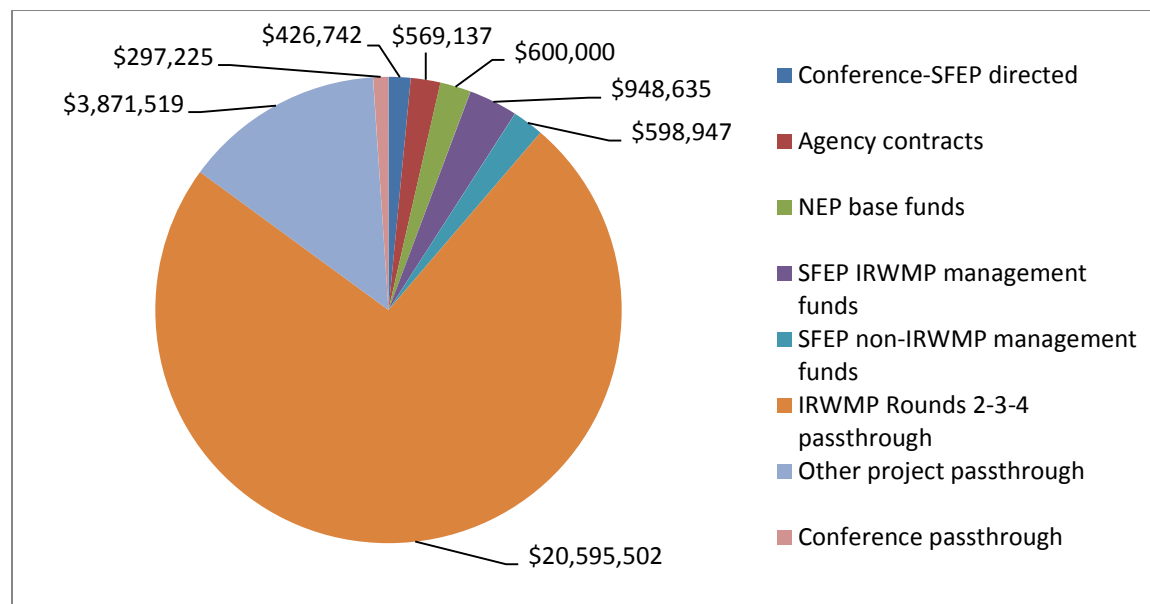


Figure 1: Breakdown of various funding types, FY 17. (Legend labels start with the top slice and proceed clockwise.)

The top sections of Figure 1 show funds that SFEP directs: conference funds, agency permit staff funds, NEP base funds, IRWMP management funds, and funds to manage non-IRWMP projects. The largest slice of the pie is IRWMP passthrough funds, followed by other project passthrough and conference passthrough. SFEP-retained or SFEP-directed funds versus passthrough funds are summarized in Figure 4.

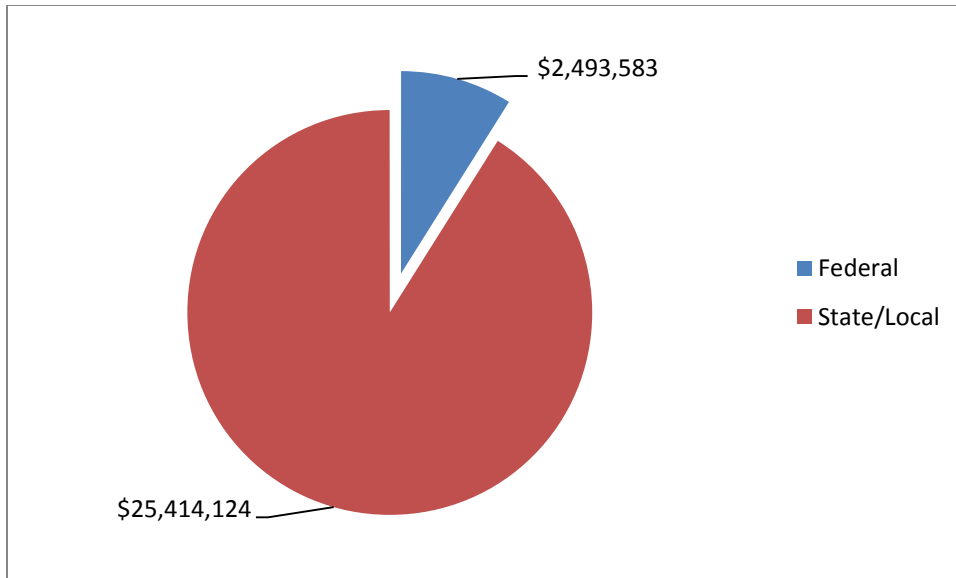


Figure 2: Federal vs State and local funds, FY 17

Approximately 9% of our funding this Federal fiscal year comes from Federal funding. The remaining 91% comes from State and local contracts. The additional Integrated Regional Water Management Plan (IRWMP) state-funded projects make this total much higher than in previous years.

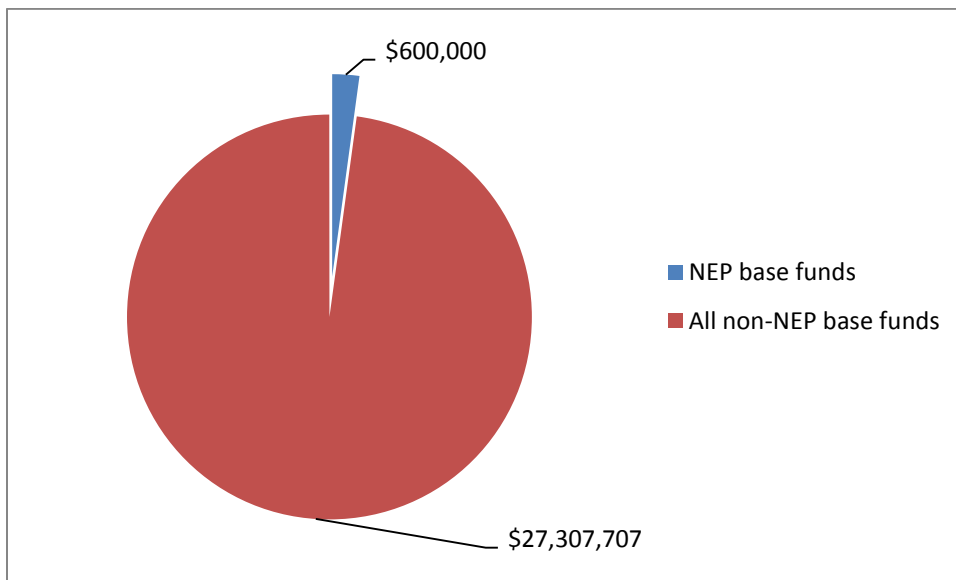


Figure 3: Section 320 "base" funds versus other funding, FY 17

Our National Estuary Program Section 320 "base" funds from EPA account for 2% of our annual budget this fiscal year. Of our "operating" budget (see chart below), the \$600,000 accounts for approximately 20%. These highly leveraged National Estuary Program funds provide partial support for salary, benefits, and other fixed costs for core staff.

Our Section 320 funds must have a 50 percent match. Match funds come from contracts with local water agencies to fund staff assisting with permitting for the San Francisco Regional Water Quality Control Board and state contracts for science support. ABAG also provides direct project match as well as in-kind support for financial statements, payables reports, invoicing, and legal assistance.

SFEP leverages \$39,120,404 in state and local funds primarily for IRWMP grant management. That total includes \$889,314 of leverage from Water Board in-kind support for office space, computers, phones, mailing, supplies, etc.

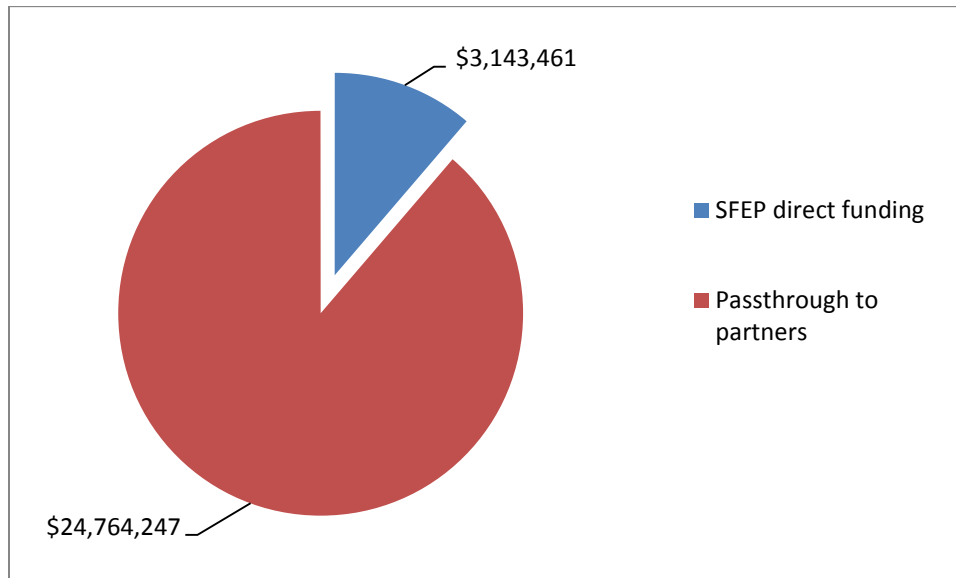


Figure 4: SFEP direct funding versus passthrough funds for partners, FY 17

We retain just over \$3 million for staff and other SFEP-led contract endeavors (ESTUARY News, conferences, etc.). The remaining \$24.7 million is passed through to partners on contracted projects, as described in the tables below.

## Existing Projects

### ONGOING AND NEW PROJECT INFORMATION

#### I. Continue Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
1.	Stream Restoration with Schools in Disadvantaged Communities of the North Bay	IRWMP Round 1 – This project consists of habitat restoration in disadvantaged communities of the North Bay. The project will result in 7,500 linear feet of stream channel restored through stream and wetland/upland transition zone corridor revegetation.	Project Manager	Point Blue – Students and Teachers to Restore a Wetland	\$264,977 State Funds – Department of Water Resources, Proposition 84 IRWMP	Goals: 1, 4 Objectives: a, j
2.	Floodplain Mapping for the Bay Area with Disadvantaged Communities Focus	IRWMP Round 1 – This project will gather, compile and standardize existing shore features into a Geographic Information System (GIS) database, with an emphasis on identifying flood prone areas in low-lying disadvantaged communities that are particularly vulnerable to the impacts of flooding on water quality and to impacts of future sea level rise.	Project Manager	SFEI	\$840,000 State Funds – Department of Water Resources, Proposition 84 IRWMP	Goal: 2 Objectives: e, f
3.	Disadvantaged Communities Richmond Shoreline and San Pablo Flood Project	IRWMP Round 1 – This project involves coordinated research, planning, and design on three high priority projects. Results include: design guidance for North Richmond coastal creeks; planning and design for the modified Richmond Parkway crossing at Wildcat Creek to a level sufficient for funding applications; and design of restoration on 1,800 feet of Wildcat Creek to a level sufficient for funding applications.	Project Manager	Urban Tilth	\$219,989 State Funds – Department of Water Resources, Proposition 84 IRWMP	Goals: 1, 3 Objectives: a, i

## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
4.	Pescadero Integrated Flood Reduction and Habitat Enhancement Project	IRWMP Round 1 – This project will develop conceptual designs to develop a solution or solutions to the flooding problems in the town of Pescadero and implement a juvenile salmonid monitoring program within the Pescadero Creek watershed that will provide critically important information on the steelhead and coho salmon populations for ongoing restoration efforts.	Local Project Sponsor, project manager	San Mateo Resource Conservation District	\$256,090 State Funds – Department of Water Resources, Proposition 84 IRWMP	Goals: 1, 3 Objectives: a, h
5.	Watershed Guidance and San Francisquito Watershed Restoration	IRWMP Round 1 – This project involves creek and floodplain restoration in economically disadvantaged watersheds. The watershed restoration planning and education project for San Francisquito Creek Watershed and East Palo Alto will develop creek and watershed technical and community planning and educational efforts. The Bay Area regional curves project is developing regional curve plots of stable creek parameters for creek restoration design and land managers in three disadvantaged communities in the Bay Area.	Local Project Sponsor, project manager	Committee for Green Foothills	\$292,000 State Funds – Department of Water Resources, Proposition 84 IRWMP	Goals: 1, 3 Objectives: a, h

## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
6.	San Francisco Estuary Salmonid Monitoring Program	IRWMP Round 1 – This project will use traps to collect outmigrating salmonids and perform related studies in important Bay Area watersheds: Sonoma Creek, Corte Madera Creek and the Napa River. Results will be used to evaluate the status of salmonids (primarily steelhead trout) in the basins and to formulate management and future monitoring recommendations. In addition, the project will lead to developing trapping programs in additional watersheds in the future.	Local Project Sponsor, project manager	CEMAR	\$498,537 State Funds – Department of Water Resources, Proposition 84 IRWMP	Goals: 1, 3 Objectives: a, h
7.	Regional Green Infrastructure Capacity Building Program/San Pablo Avenue Green Stormwater Spine Project	IRWMP Round 1 – This project includes the creation of innovative stormwater treatment projects along 12.5 miles of San Pablo Avenue in the cities of Albany, Berkeley, El Cerrito, Emeryville, Oakland, San Pablo and Richmond. Cumulatively, the seven sites will treat over 8 acres of impervious surface runoff. The San Francisco Estuary Institute will conduct water quality monitoring to quantify associated pollutant load reductions. Other outputs include regional outreach and creation of a model Green Streets Ordinance that municipalities can adapt and adopt to integrate LID practices into street/sidewalk improvements.	Local Project Sponsor, project manager	Cities of San Pablo, Richmond, Albany, Berkeley, Emeryville, Oakland, and El Cerrito; Caltrans	\$4.9M State Funds – Department of Water Resources, Proposition 84 IRWMP; Natural Resources Agency, Urban Greening; Department of Transportation EPA Funds – SF Bay Water Quality Improvement Fund	Goals: 2, 3 Objectives: f, i

## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
8.	Bay Area Regional Conservation and Education Program	IRWMP Round 2 – This project will expand the implementation of existing water conservation practices in the Bay Area, resulting in reduced potable water use and improve the existing Bay Area regional water conservation initiative. A suite of program elements will promote high-efficiency technologies and best water conservation practices that improve indoor and outdoor water use efficiency throughout the San Francisco Bay Area.	Grantee and overall coordinator for all 20 Round 2 projects	Solano County Water Agency (Lead Partner) and Water Agencies	\$2.7 M State Funds – Department of Water Resources, plus additional match from partners	Goal: 3 Objective: g
9.	East Bayshore Recycled Water Project Phase 2	IRWMP Round 2 – This project will ultimately provide up to 2.5 mgd (2,800 AFY) of tertiary treated recycled water to customers within the Cities of Alameda, Albany, Berkeley, Emeryville, and Oakland. In October 2012, EBMUD completed a segment of the East Bayshore recycled water transmission pipeline. This next phase will extend the recycled water transmission pipeline by about 5,100 feet to the north.	Grantee and overall coordinator for all 20 Round 2 projects	East Bay Municipal Utilities District	\$1 M State Funds – Department of Water Resources, plus additional match from partners	Goal: 3 Objective: g



## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
10.	Lagunitas Creek Watershed Sediment Reduction and Management Project	IRWMP Round 2 – This sediment reduction project will improve water quality and streambed habitat for the benefit of coho salmon and steelhead trout populations in Lagunitas Creek; and improve fish passage. The project involves repair of three stream crossings along the Cross Marin Trail to reduce fine sediment loading into Lagunitas Creek and its tributary streams. The stream crossing improvements will safeguard the Nicasio Transmission Line, a major public water supply transmission line for the area, and stabilize and restore recreational access within National Park Service and California State Parks lands.	Grantee and overall coordinator for all 20 Round 2 projects	Marin Municipal Water District	\$720,000 State Funds – Department of Water Resources, plus additional match from partners	Goal: 1 Objective: a
11.	Marin/Sonoma Conserving Our Watersheds: Agricultural BMP Projects	IRWMP Round 2 – This project will implement critical environmental Best Management Practices (BMPs) on agricultural lands in Marin and Sonoma counties. These BMPs are already identified in watershed plans in Marin and a portion of Sonoma County. The BMP projects will focus on improving water quality, conserving water, and enhancing wildlife ecosystems on agricultural lands.	Grantee and overall coordinator for all 20 Round 2 projects	Marin Resource Conservation District	\$600,000 State Funds – Department of Water Resources, plus additional cost share from partners	Goals: 1, 3 Objectives: a, g, i

## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
12.	Napa Milliken Creek Flood Damage Reduction and Fish Passage Barrier Removal	RWMP Round 2 – The Project involves three integrated elements along Milliken Creek: 1) removal of a dam and restoration of the stream, 2) construction of a flood bypass/weir to ensure a flood detention area does not overflow into neighboring homes, and 3) grading/landscape improvements to ensure adjacent low lying properties receive a comparable level of flood protection. The project will prevent flooding of a neighborhood of over 50 homes. The dam is currently a passage barrier for steelhead.	Grantee and overall coordinator for all 20 Round 2 projects	County of Napa	\$500,000 State Funds – Department of Water Resources, plus additional match from partners	Goals: 1, 2 Objectives: a, d
13.	North Bay Water Reuse Program's Sonoma Valley CSD 5th Street East/McGill Road Recycled Water Project	IRWMP Round 2 – The project consists of two recycled water sub-projects located In Sonoma Valley. The total recycled water yield from the Project is approximately 200 acre-feet per year (AFY). The Project will increase utilization of recycled water for non-potable water demands, and will improve water supply reliability for the region through the creation of a drought-proof supply that can offset use of potable water supplies for non-potable demands.	Grantee and overall coordinator for all 20 Round 2 projects	Sonoma Valley County Sanitation District	\$1.02 M State Funds – Department of Water Resources, plus additional match from partners	Goal: 3 Objective: g

## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
14.	Oakland Sausal Creek Restoration Project	RWMP Round 2 – This project involves restoring 754 linear feet of Sausal Creek in Dimond Park in Oakland, California, including 180 feet of culvert daylighting. The project includes restoration of channel function, stream bank stabilization, erosion prevention, native plant restoration, native trout habitat improvement, and interpretive site features.	Grantee and overall coordinator for all 20 Round 2 projects	City of Oakland	\$500,000 State Funds – Department of Water Resources, plus additional match from partners	Goal: 1 Objective: a
15.	Pescadero Water Supply and Sustainability Project	IRWMP Round 2 – This project will construct a new municipal groundwater well and 140,000 gallon storage tank for the County Service Area 11 (CSA 11) Water System, which serves approximately 100 households within the Town of Pescadero.	Grantee and overall coordinator for all 20 Round 2 projects	San Mateo County	\$700,000 State Funds – Department of Water Resources, plus additional cost share from partners	Goal: 3 Objective: g
16.	Petaluma Flood Reduction, Water & Habitat Quality, and Recreation Project for Capri Creek	IRWMP Round 2 – This project implements improvements to an existing engineering drainage swale to restore a natural riparian corridor aesthetic. The goals of the project are to achieve flood reduction, habitat enhancement, groundwater recharge opportunities (limited), expand recreational and educational amenities, and water quality improvements. The project compliments current efforts in the Petaluma River watershed to integrate other flood control projects with multiple benefits.	Grantee and overall coordinator for all 20 Round 2 projects	City of Petaluma	\$825,000 State Funds – Department of Water Resources, plus additional match share from partners	Goals: 1, 2, 3 Objectives: a, d, g

## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
17.	Redwood City Bayfront Canal and Atherton Channel Flood Improvement and Habitat Restoration Project	IRWMP Round 2 – This project will mitigate chronic and widespread flooding in the Bayfront Canal (Redwood City) and Atherton Channel (Menlo Park) neighborhoods by routing flood flows from the Bayfront Canal and Atherton Channel into managed ponds that are part of the Ravenswood Pond Complex portion of the South Bay Salt Pond Restoration Project. This will provide detention for these drainage areas, and redirected runoff will be used to enhance wetland habitat. This project will alleviate flooding concerns, improve runoff water quality from nearby neighborhoods, and support additional recreational trails.	Grantee and overall coordinator for all 20 Round 2 projects	Redwood City	\$1.135 M State Funds – Department of Water Resources, plus additional match from partners	Goals: 2, 3 Objectives: d, e, i
18.	Regional Groundwater Storage and Recovery Project	IRWMP Round 2 – The SFPUC, along with Partner Agencies the cities of Daly City and San Bruno and the California Water Service Company, will develop a regional conjunctive use project in the South Westside Groundwater Basin for use during drought conditions. The basin will be an underground reservoir to store water during periods when surface water supply can be made available to offset groundwater pumping by the Partner Agencies, leading to an accumulation of stored groundwater that can be used during drought years. Phase 1A will include the construction of 5 groundwater wells.	Grantee and overall coordinator for all 20 Round 2 projects	San Francisco Public Utilities Commission	\$1.4 M State Funds – Department of Water Resources, plus additional match from partners	Goal: 3 Objective: g

## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
19.	Richmond Breuner Marsh Restoration Project	IRWMP Round 2 – EBRPD will create, restore, enhance, and protect 164 acres of crucial habitat in Breuner Marsh at Point Pinole Regional Shoreline Park. The goal of this wetland restoration project is to provide long-term, self-sustaining tidal wetlands, seasonal wetlands, and coastal prairie to create valuable habitat for special-status species and for public access for compatible passive recreation and public education.	Grantee and overall coordinator for all 20 Round 2 projects	East Bay Regional Parks District	\$750,000 State Funds – Department of Water Resources, plus additional match from partners	Goal: 1 Objective: a
20.	Roseview Heights Infrastructure Upgrades for Water Supply and Quality Improvement	IRWMP Round 2 – This project will replace the existing, aging water system infrastructure before emergency repairs or emergency replacement become necessary. The project will improve water supply reliability, water quality, and fire suppression capability by replacing and upgrading water tanks and water mains and adding fire hydrants.	Grantee and overall coordinator for all 20 Round 2 projects	Roseview Heights Municipal Water District	\$500,000 State Funds – Department of Water Resources, plus additional match from partners	Goal: 3 Objective: g

## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
21.	San Francisco Bay Climate Change Pilot Projects Combining Ecosystem Adaptation, Flood Risk Management and Wastewater Effluent Polishing	IRWMP Round 2 – This project involves construction of a demonstration ecotone slope on an existing parcel owned by the Oro Loma Sanitary District. An ecotone slope provides a cost effective and environmentally friendly response to sea level rise. The pilot project will be studied to determine its efficacy and optimal design. The elements of the optimal design will then be built into a second phase of pilot projects at other sites in the Bay Area.	Grantee and overall coordinator for all 20 Round 2 projects	SFEP (Lead Partner), Ora Loma Sanitary District	\$2.1 M State Funds – Department of Water Resources, plus additional match from partners	Goal: 2 Objective: d, e
22.	San Francisco International Airport Industrial Waste Treatment Plant and Reclaimed Water Facility	IRWMP Round 2 – This project will provide the necessary infrastructure needed to reuse 100% of treated effluent at the airport terminals for non-potable reuse, thus reducing imported water demand on the Hetch Hetchy water system. An existing recycled water facility will be upgraded to treat 1.0 MGD of high quality industrial, sanitary, and stormwater effluent with microfiltration membrane treatment and hypochlorite disinfection to satisfy Title 22 reclaimed water criteria.	Grantee and overall coordinator for all 20 Round 2 projects	City and County of San Francisco Airport Commission	\$750,000 State Funds – Department of Water Resources, plus additional match from partners	Goal: 3 Objective: g

## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
23.	San Jose Green Streets & Alleys Demonstration Projects	IRWMP Round 2 – This project will construct Low Impact Development (LID) improvements along a residential collector-type street and alley segments in a disadvantaged community to demonstrate a range of approaches for retrofitting existing urban streets with LID stormwater management features. LID permeable pavement and infiltration facilities will be installed to eliminate sediment and ponding in the alleys, improve stormwater quality, and make the alleys a community amenity. These projects will add to a regional collection of demonstration LID retrofit projects.	Grantee and overall coordinator for all 20 Round 2 projects	City of San Jose	\$2 M State Funds – Department of Water Resources, plus additional match from partners	Goal: 3 Objective: i
24.	San Pablo Rheem Creek Wetlands Restoration Project	IRWMP Round 2 – This project will create seasonal wetlands on a ten-acre parcel adjacent to Rheem Creek and Breuner Marsh, located in the City of Richmond. The project will also improve the quality of stormwater that ultimately flows to San Pablo Bay. In addition, the project will lower potential flood impacts from Rheem Creek in neighborhoods within the cities of San Pablo and Richmond.	Grantee and overall coordinator for all 20 Round 2 projects	Contra Costa Water District	\$750,000 State Funds – Department of Water Resources, plus additional match from partners	Goals: 1, 2, 3 Objectives: a, d, e, i

## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
25.	St. Helena Upper York Creek Dam Removal and Ecosystem Restoration Project	IRWMP Round 2 – This project will remove the Upper York Creek Dam, a barrier to fish passage. The dam removal will provide access to an additional 1.7 miles of spawning and rearing habitat. The project will also restore approximately 2 acres of riparian corridor along York Creek, resulting in diverse, multi-story, shaded aquatic and riparian habitat; improved water quality through removal of the potential for accidental sediment releases during maintenance; and restored gravel yield to the channel downstream of the dam and the Napa River.	Grantee and overall coordinator for all 20 Round 2 projects	City of St. Helena	\$800,000 State Funds – Department of Water Resources, plus additional match from partners	Goal: 1 Objective: a
26.	Students and Teachers Restoring a Watershed (STRAW) Project, North and East Bay Watersheds	IRWMP Round 2 – This project will implement a minimum of 20 habitat restoration projects in Bay Area watersheds with students and community members from Alameda, Contra Costa, Marin, Napa, San Francisco, Solano and Sonoma counties. Professionally designed and implemented habitat restoration projects integrated with an innovative and time-tested education program will provide water quality benefits, habitat improvement, and positive impacts on economic, social, and environmental sustainability. STRAW coordinates with a network of committed teachers and community members to complete the restoration projects.	Grantee and overall coordinator for all 20 Round 2 projects	Point Blue	\$500,000 State Funds – Department of Water Resources, plus additional cost share from partners	Goals: 1, 4 Objectives: a, j



## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
27.	Integrated Regional Water Management Project Round 2	IRWMP Round 2 – ABAG’s Grant Administration will oversee invoicing and reporting for all of the projects in the grant.	Local Project Sponsor and overall coordinator for all 20 Round 2 projects		\$750,000 State Funds – Department of Water Resources	
28.	Lower Cherry Aqueduct Emergency Rehabilitation Project	IRWMP Round 3 – This project will install pipes and repair sections of a dam and tunnel in the Upper Tuolumne River watershed. These improvements will allow the San Francisco Public Utilities Commission (SFPUC) to access up to 150,000 AF of potable supply from Cherry Reservoir and Lake Eleanor in the Upper Tuolumne River watershed.	Grantee and overall coordinator for all 11 Round 3 projects	San Francisco Public Utilities Commission	\$3 M State Funds – Department of Water Resources, plus additional match from partners	Goal: 3 Objective: g
29.	Zone 7 Water Supply Drought Preparedness Project	IRWMP Round 3 – The project will increase potable water supply and groundwater recharge for residents of the Livermore-Amador Valley by constructing a new production well and pipeline. Chain of Lakes Well No. 5 is projected to produce up to 2 million gallons per day (6.1 AFD or 2,240 AFY) and will improve management of the groundwater basin by pumping from a different area of the basin to minimize effects on existing, localized, low water levels. The pipeline will transfer water between an impervious pond to a pervious pond to recharge up to 15 MGD (46 AFD).	Grantee and overall coordinator for all 11 Round 3 projects	Alameda County Zone 7 Water Agency	\$3 M State Funds – Department of Water Resources, plus additional match from partners	Goal: 3 Objective: g

## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
30.	Los Carneros Water District and Milliken-Sarco-Tulocay Recycled Water Pipelines	IRWMP Round 3 – The project extends NSD’s recycled water distribution system in Napa Valley by 15 miles west into the Los Carneros area and northeast into the MST area. The MST recycled water pipeline will supply 700 AFY for agricultural and landscape irrigation purposes, offsetting groundwater use. The LCWD recycled water pipeline will provide up to 1,250 AFY to supplement surface water demands and offset agricultural demands.	Grantee and overall coordinator for all 11 Round 3 projects	Napa Sanitation District	\$4 M State Funds – Department of Water Resources, plus additional match from partners	Goal: 3 Objective: g
31.	Sunnyvale Continuous Recycled Water Production Facilities and Wolfe Road Pipeline	IRWMP Round 3 – The project will increase recycled water production and distribution capacity to provide 1,680 AFY of additional recycled water to help maintain groundwater levels and contribute to the ongoing conjunctive management in the Santa Clara sub-basin. In addition, the Project will reduce nutrient loading to San Francisco Bay.	Grantee and overall coordinator for all 11 Round 3 projects	Santa Clara Valley Water District / City of Sunnyvale	\$4 M State Funds – Department of Water Resources, plus additional match from partners	Goal: 3 Objectives: g, i
32.	DERWA Phase 3 Recycled Water Expansion Project	IRWMP Round 3 – The DSRSD-EBMUD Recycled Water Authority’s (DERWA’s) project will construct permanent distribution system infrastructure to meet some current potable water demand with recycled water for non-potable uses: Anticipated recycled water deliveries are 390 acre-feet per year (AFY) from DERWA to DSRSD and 477 AFY from DERWA to EBMUD.	Grantee and overall coordinator for all 11 Round 3 projects	Dublin San Ramon Services District/East Bay Municipal Utilities District	\$4 M State Funds – Department of Water Resources, plus additional match from partners	Goal: 3 Objective: g

## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
33.	Calistoga Recycled Water Storage Facility	IRWMP Round 3 – The project will enhance recycled water production and storage to provide increased water supply for urban and agricultural use. The goal of the Project is to provide an additional 25 AFY of recycled water to Calistoga by extending the City’s ability to generate recycled water year-round and provide new customers with recycled water to offset their potable water and groundwater use.	Grantee and overall coordinator for all 11 Round 3 projects	City of Calistoga	\$750,000 State Funds – Department of Water Resources, plus additional cost share from partners	Goal: 3 Objective: g
34.	Drought Relief for South Coast San Mateo County	IRWMP Round 3 – The project will improve water supply and drought resiliency for domestic and agricultural water users in the two largest coastal watersheds in the county (Pescadero-Butano and San Gregorio watersheds). A suite of site-specific water use, infrastructure, and water management improvements will result in 20.1 AFY (6.55 MGY) of additional water storage capacity and 157 AFY (51 MGY) of reduced water demand.	Grantee and overall coordinator for all 11 Round 3 projects	San Mateo Resources Conservation District/ American Rivers	\$3.872 M State Funds – Department of Water Resources, plus additional cost share from partners	Goal: 3 Objective: g

## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
35	Stinson Beach Water Supply & Drought Preparedness Plan	IRWMP Round 3 – The plan includes four projects that will reduce water system losses; improve the District’s ability to identify, locate, and repair leaks in pipelines; improve drinking water supply and reliability; and benefit fish and wildlife. The Water District’s critical water needs relate to the isolated location of the District’s service area with no existing or feasible possibilities for inter-tie connections or water transfers with other water agencies, and limited local water supplies.	Grantee and overall coordinator for all 11 Round 3 projects	Stinson Beach Water District	\$937,452 State Funds – Department of Water Resources, plus additional cost share from partners	Goal: 3 Objectives: g, i
36	Bay Area Regional Drought Relief and Water Conservation Project	IRWMP Round 3 – The project will be implemented by 12 Bay Area agencies and will leverage and expand existing incentive projects to meet the reduction goals for the current drought and ensure long-term savings, thus improving water supply reliability. A suite of Project elements will promote high-efficiency technologies and water conservation practices that improve indoor and outdoor water use efficiency. The Project will save approximately 1,200 AFY (or 24,000 AF over 20 years).	Grantee and overall coordinator for all 11 Round 3 projects	Stopwaste.org and Water Agencies	\$5,993,971 State Funds – Department of Water Resources, plus additional match from partners	Goal: 3 Objective: g

## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
37.	WaterSMART Irrigation with AMI/AMR	IRWMP Round 3 – The project will alleviate drought impacts in MMWD’s service area by permanently reducing commercial landscape sector potable water demand. The Project goal is to achieve a 25% reduction in average landscaping water use through the installation of SMART irrigation equipment and AMI/AMR technology. The Project will install advanced irrigation equipment at 800 sites throughout MMWD’s service area in Marin County.	Grantee and overall coordinator for all 11 Round 3 projects	Marin Municipal Water District	\$975,000 State Funds – Department of Water Resources, plus additional cost share from partners	Goal: 3 Objective: g
38.	Integrated Regional Water Management Project Round 3	IRWMP Round 3 – ABAG’s Grant Administration will oversee invoicing and reporting for all of the projects in the grant.	Local Project Sponsor and overall coordinator for all 11 Round 3 projects		\$1.65 M State Funds – Department of Water Resources	
39.	Mercury in the South San Francisco Bay: The Guadalupe Watershed	Assist the Santa Clara County Parks and Recreation Department to complete both the Senador Mine and Calcine Paved Roads mercury remediation projects. Assist the SCCPRD in the creation of 25% design plans for the Upper Jacques Gulch Remediation Project.	Project Manager, Project Coordination	Santa Clara County Parks and Recreation Department	\$2,842,000 EPA, State Water Board, Santa Clara County	Goals: 1, 3, 4 Objectives: a, b, i, k

## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
40.	Stonybrook Creek Bio-Engineered Bank Stabilization	The Alameda County Resource Conservation District (ACRCD) completed a habitat assessment of the entire length of Stonybrook Creek and used the results of the assessment to develop a watershed plan for project prioritization and selected projects to implement. ACRCD completed bank stabilization projects and one of the two planned fish passage barrier removal projects. These projects will result in habitat improvements to 8,976 linear feet of creek habitat.	Project Manager	Alameda County Resource Conservation District	EPA	Goal: 1 Objectives: a, b, c
41.	Coastal Regional Sediment Management Plan 2015-16 (San Francisco Littoral Cell)	Assist government entities, municipalities, stakeholders, and communities in developing strategies for the beneficial use of sediments to address coastal erosion and storm damage.	Project Manager		CNRA	
42.	Flood Control 2.0	Develop a set of innovative approaches for bringing environmental benefits and cost-savings to flood protection infrastructure along the San Francisco Bay shoreline.	Project Manager, Project Coordination	SFEI, BCDC, JV, Marin County Flood Control, Contra Costa County Flood Control, San Francisco JPA	EPA – SF Bay Water Quality Improvement Fund	Goals: 1, 2, 3 Objectives: a, e, f, i
43.	Greener Pesticides for Cleaner Waterways Campaign	Provide publicity for the Our Water Our World program to guide customers to less-toxic pesticide products at retail stores and online to implement Bay Area Urban Creeks Toxicity/Pesticides TMDL.	Project Manager, Project Coordination	BASMAA	\$250,000 EPA – SF Bay Water Quality Improvement Fund	Goals: 3, 4 Objectives: i, j

## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
44.	Suisun Marsh Monitoring	This project will: 1) Identify constraints, opportunities and recommendations for managed wetlands Best Management Practice (BMP) in Suisun Marsh that could improve water quality relative to Dissolved Oxygen (DO) and Methylmercury (MeHg), (2) build knowledge within the managed wetland landowner community, and (3) develop working relationships between all stakeholders to support attaining long-term Total Maximum Daily Load objectives. Expected environmental outcomes are reduced occurrences of low DO and high MeHg events in tidal sloughs.	Project Manager	Suisun RCD, SF Bay RWQCB, Delta Science Program, Delta Conservancy, Fairfield-Suisun Sanitary District	\$843,982 EPA – SF Bay Water Quality Improvement Fund	Goals: 1, 3 Objectives: c, i
45.	Urban Greening Bay Area	This multi-pronged project will develop and further enhance watershed-based green infrastructure planning (GreenPlan-IT) and tracking tools to assist public agencies in meeting water quality and quantity targets. Partner agencies will integrate GreenPlan-IT outputs into appropriate planning documents and construct up to three projects based on cost-effective LID designs for standard intersections at select locations. A key output will be a report that maps out strategies for better positioning GI within planned transportation and GHG Reduction investment programs.	Project Manager, Project Coordination	SFEI, BASMAA, San Jose, San Mateo, ABAG, Sunnyvale, Oakland, Contra Costa County, Richmond, EPA	EPA – SF Bay Water Quality Improvement Fund	Goals: 2, 3 Objectives: b, e, f, i

## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
46.	Clean Vessel Act Program	Implement boater pollution prevention education program under the Clean Vessel Act: Increase recreational vessel pump-out usage and awareness among boating community with a goal of reducing sewage discharge into the San Francisco Bay and Sacramento Delta	Lead	California Department of Parks and Recreation, Division of Boating and Waterways, Bay and Delta Marinas, Coast Guard Auxiliary, Coastal Commission, SF Water Board	\$280,000 California Department of Parks and Recreation, Division of Boating and Waterways CVA grant	Goals: 1, 3, 4 Objectives: b, i, j



## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
47.	Aquatic Invasive Species	Provide continued staff support to work with national and regional coordinating bodies and the key agencies implementing programs to reduce the impact of invasive species through prevention, early detection, rapid response, eradication, and control. These groups including, the National Aquatic Nuisance Species Task Force, Western Regional Panel on Aquatic Nuisance Species, the State Lands Commission's Marine Invasive Species Program's Technical Advisory Committees, and the Quagga-Zebra Mussel Action Plan Team, are working on 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, and coordinating activities at the federal, state, and local levels.	Lead	USFWS, NOAA, CSLC, CDFW	EPA §320	Goal: 1 Objective: b
48.	Outreach on Resiliency and Green Infrastructure	Develop comprehensive written outreach products on resiliency and green infrastructure.	Lead		\$30,000 EPA (2100)	Goals: 2, 3, 4 Objectives: d, i, j
49.	Bay Area Regional Collaborative – Cross Agency Working Group	Coordinate with other agency staff to advance climate resiliency through regional agency coordination.	Project Support, Participant	Coastal Conservancy, BCDC, MTC, ABAG	Variable cost EPA §320	Goals: 2, 4 Objectives: e, j, l

## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
50.	Coastal Hazards Adaptation Resiliency Group	SFEP is a member of the Policy Subcommittee of the Coastal Hazards Adaptation Resiliency Group (CHARG)	Project Support, Participant	CHARG members – government, private, NGO	Variable cost EPA §320	Goals: 2, 4 Objectives: d, e, k, l
51.	Restoration Authority	Provide staff support to the Board of the Restoration Authority as it carries out its mission to find local funding for regional wetland restoration.	Staff Support	Coastal Conservancy	Variable cost EPA §320	Goals: 1, 2, 4 Objectives: a, d, e, f, j, k
52.	Supplemental Environmental Projects	Manage water quality improvement implementation projects funded through the SF Bay Regional Water Quality Control Board fines.	Program Coordination, Projects Oversight,	RWCQB	Variable cost SF Bay Regional Water Quality Control Board ACL actions	Goals: 1, 2, 3 Objectives: a, d, g, h, i
53.	State of the Estuary Conference	Plan and implement a 2017 State of the Estuary Conference	Lead		\$300,000 EPA §320 and donations and registration fees	Goal: 4 Objective: k
54.	San Francisco Bay-Delta Science Conference	Support Planning and Execution of Bay-Delta Science Conference in 2016.	Staff Support	Delta Science Program and USGS	\$350,000 Delta Science Program, USGS, and registration fees	Goal: 4 Objective: k
55.	Restoring Adequate Freshwater Flows	Support studies and efforts to restore adequate flows in the Estuary and in the Bay tributary rivers and streams.	Project support	Friends of the Estuary, Bay Institute, NRDC, RWQCB	Variable cost EPA §320	Goals: 3, 4 Objectives: h, j, k

## Existing Projects

#	Project Name	Description	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
56.	Water Management	Support and advance efforts to address water delivery, use, recycling and reuse issues. Includes working with ABAG's Resiliency staff to include water issues in Plan Bay Area.	Participant, project support	ABAG	Variable cost EPA §320	Goals: 3, 4 Objectives: g, l, j, k
57.	Estuary News	Increase public outreach through Estuary News publication	Funder, Staff Support		\$60,000 EPA §320, partner donations	Goal: 4 Objective: j
58.	2016 CCMP	Complete the revised Comprehensive Conservation and Management Plan (CCMP), distribute final version, and track and report on progress of actions	Lead		\$350,000 EPA §320 and SRF Loan	All
59.	Website, Social Media	Increase public outreach through keeping website up to date and implementing a social media strategy	Lead		Variable cost EPA §320	Goal: 4 Objective: j
60.	Report to EPA on habitat restoration and fund leveraging	Prepare annual NEPORT reports to EPA.	Lead		Variable Cost EPA §320	Goals: 1, 4 Objectives: c, j
61.	Promote 2015 State of the Estuary Report	Continue to promote the findings from the 2015 State of the Estuary Report through conferences, workshops, websites, publications, media, etc.	Lead		Variable Cost EPA §320	Goals: 1, 4 Objectives: c, j
62.	Provide meeting support for the Implementation Committee	Plan and hold four meetings per year of the Implementation Committee.	Lead		Variable Cost EPA §320	Goal: 4 Objectives: j, k, l
63.	Administrative Support	Provide staff training and equipment/supplies needed to successfully advance the work of SFEP.	Lead		Variable Cost EPA §320	All

## New Projects

### II. Commence New Projects<sup>1</sup>

Project #	Project Name	Description/Outputs	SFEP Role	Partners	Project Cost/ Funding Source	CCMP Goals/ Objectives Met
64.	Anderson Dam Seismic Retrofit Project	IRWMP Round 4 – This project will make improvements required for Anderson Dam and its appurtenances to withstand a maximum credible earthquake and probable maximum flood event.	Grantee and overall coordinator for 9 Round 4 projects	Santa Clara Valley Water District	\$4.09 M State Funds – DWR Proposition 84 IRWMP	Goals: 2, 3 Objectives: e, g
65.	Marin 2020 Turf Replacement Project	IRWMP Round 4 – This project will remove up to 443,000 square feet of non-functional turfgrass from commercial, institutional, and industrial properties and replace it with environmentally beneficial landscapes.	Grantee and overall coordinator for 9 Round 4 projects	Marin Municipal Water District	\$781,563 State Funds – DWR Proposition 84 IRWMP	Goal: 3 Objectives: g, i
66.	East Palo Alto Groundwater Supply Project	IRWMP Round 4 – This project includes development and use of groundwater as a new source of water supply for the City of East Palo Alto and its DACs.	Grantee and overall coordinator for 9 Round 4 projects	City of East Palo Alto	\$1,506,050 State Funds – DWR Proposition 84 IRWMP	Goal: 3 Objectives: g
67.	Coastal San Mateo County Drought Relief Phase II	IRWMP Round 4 – This project continues ongoing efforts with local communities and agricultural stakeholders to balance beneficial uses of water resources in San Mateo County.	Grantee and overall coordinator for 9 Round 4 projects	San Mateo County Resource Conservation District	\$1.4 M State Funds – DWR Proposition 84 IRWMP	Goal: 3 Objectives: g

<sup>1</sup> Some projects funding and/or partner contingent

## New Projects

68.	San Francisquito Creek Flood Protection and Ecosystem Restoration Project	RWMP Round 4 – The project goals are to protect against concurrent 100-year riverine floods, 100-year high-tides, and sea-level rise while restoring 18 acres of tidal marsh.	Grantee and overall coordinator for 9 Round 4 projects	State Coastal Conservancy	\$1,044,351 State Funds – DWR Proposition 84 IRWMP	Goals: 1, 2 Objectives: a, d, e
69.	Mountain View Shoreline Portion of SBSPR Project	IRWMP Round 4 – This project in Mountain View includes 710 acres of tidal marsh and upland habitat restoration and critical flood risk management infrastructure for residences and businesses.	Grantee and overall coordinator for 9 Round 4 projects	State Coastal Conservancy	\$4,807,998 State Funds – DWR Proposition 84 IRWMP	Goals: 1, 2 Objectives: a, d, e
70.	Eden Landing Portion of SBSPR Project	IRWMP Round 4 – The Eden Landing project involves restoration of over 1,300 acres of tidal marsh, levee improvements to decrease flood risk, and new public access trails.	Grantee and overall coordinator for 9 Round 4 projects	State Coastal Conservancy	\$3,265,121 State Funds – DWR Proposition 84 IRWMP	Goals: 1, 2 Objectives: a, d, e
71.	Novato Creek Flood Protection and Habitat Enhancement Project	IRWMP Round 4 – The Novato Creek Flood Protection and Habitat Enhancement Project will provide flood protection for 870 acres of land and restore 30 acres of wetland habitat.	Grantee and overall coordinator for 9 Round 4 projects	State Coastal Conservancy	\$3,551,607 State Funds – DWR Proposition 84 IRWMP	Goals: 1, 2 Objectives: a, d, e
72.	Integrated Regional Water Management Project Round 4	IRWMP Round 4 – ABAG's Grant Administration will oversee invoicing and reporting for all of the projects in the grant.	Lead		\$1,022,334 State Funds – DWR Proposition 84 IRWMP	
73.	Blue Carbon/Methane Monitoring Study	Asses methane fluxes regarding pond management of selected South Bay Salt Ponds	Project Manager	Coastal Conservancy	\$46,031 EPA §320	Goals: 1, 2, 3 Objectives: c, d, i

## New Projects

74.	Water Board Wetland Policies Analysis	This project will support the San Francisco Bay Regional Water Quality Control Board's evaluation of regulatory options associated with permitting multi-benefit projects designed to address sea level rise. The Project addresses a critical policy need for the Water Board to address climate change This work will help the state to better protect wetlands and water quality.	Lead (through contract position)	SF Bay Regional Water Quality Control Board	\$90,701 EPA Wetland Program Development Funds	Goals: 2, 4 Objectives: d, k, l
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## New Initiatives

### III.Pursue New Initiatives

The following are new initiatives identified within the 2016 CCMP that SFEP and our partners are committed to pursuing within FFY2016. SFEP will seek partnerships and funding to support specific tasks to advance these projects and programs.

#	Action	Description	CCMP Goals/ Objectives Met
New-1.	Watershed-based environmental protection	Develop and implement a regional approach to watershed-based protection that coordinated planning, permitting, operations, and monitoring for water quality control, flood risk management, water supply management, natural resource extractions and habitat conservation. Initial tasks include developing a pilot project in one Bay Area watershed.	Goals: 1, 2, 4 Objectives: a, b, c, d, e, f, l
New-2.	Protect, restore and enhance tidal wetlands systems	Restore and enhance tidal, intertidal, and subtidal habitats in the Estuary to provide multiple ecosystem services including habitat and food for wildlife, water quality, shoreline stabilization and protection, and recreation.	Goals: 1, 2 Objectives: a, b, d, e
New-3.	Transition zones	Identify, Inventory and protect existing and projected transition zones to accommodate upslope wetland migration and sustain tidal marshes under multiple sea level rise scenarios.	Goals: 1, 2 Objectives: a, b, d
New-4.	Protect and restore critical coldwater and riparian habitats	Protect, restore and enhance riparian habitat. Identify, assess, and map critical coldwater habitats to provide planners with the basis for defining and prioritizing streamflow conservation and enhancement opportunities on high value streams.	Goals: 1, 2 Objectives: a, b, d, e
New-5.	Carbon management	Increase carbon sequestration through wetland restoration and creation projects and advance applied research to better inform carbon management.	Goals: 1, 2 Objectives: a, c, d, f
New-6.	Estuary-watershed connections	Plan and implement integrated projects and programs that advance multiple objectives, including flood risk management and habitat improvement.	Goals: 1, 2 Objectives: a, b, c, d, e, f
New-7.	Regional wetland monitoring and assessment program	Support regionwide efforts to conduct comprehensive assessment of monitoring efforts in the estuary and facilitate development of comprehensive regional wetland monitoring program.	Goals: 1, 2 Objectives: a, b, c, f

## New Initiatives

New-8.	Natural infrastructure	Identify and help implement projects that demonstrate how tidal habitats and other ecosystems can serve as “natural infrastructure” to make the region more resilient.	Goals: 1, 2 Objectives: a, b, c, e, f
New-9.	Sediment management	Manage sediment comprehensively on a regional scale. Near term tasks may include quantifying sediment sources to the Estuary and determining sediment needs for maintaining current tidal habitats under various sea level rise projections.	Goals: 1, 2 Objectives: a, c, d, e, f
New-10.	Long-term drought planning	Support efforts to develop multi-year drought planning.	Goals: 2, 3 Objectives: e, g
New-11.	Decrease raw sewage discharges	Reduce the input of raw sewage into the Estuary through enhanced sewer lateral repair programs.	Goal: 3 Objective: i
New-12.	Water management	Support efforts to increase water use efficiency through use reduction, recycling and reuse.	Goal: 3 Objective: g



SFEP Work Plan Attachment 1 - DRAFT								
FY 17 (10/1/16-9/30/17) Estimated Funding								
Type	Funder	Project	OWP #	Federal	State/Local	FFY 16-17	SFEP Portion	Managed for Partners
Conference	Registrations, Sponsors, Contracts	State of the Estuary Conference	102065		\$ 300,000	\$ 300,000	\$ 300,000	\$ -
Conference	Registrations	Interagency Ecological Program workshop	102101		\$ 37,000	\$ 37,000	\$ -	\$ 37,000
Conference	Delta Stewardship Council	Delta Science Support	102281		\$ 286,967	\$ 286,967	\$ 26,742	\$ 260,225
Conference	Registrations	Delta Science Conference	n/a		\$ 100,000	\$ 100,000	\$ 100,000	\$ -
Local	Donations	Estuary News Magazine	102142		\$ 24,000	\$ 24,000	\$ -	\$ 24,000
Federal	EPA	Section 320 NEP Base Funds FY 16-17	102224	\$ 600,000		\$ 600,000	\$ 600,000	\$ -
Federal	EPA	Estuary 2100 Phase 2	102180	\$ 185,019		\$ 185,019	\$ 15,926	\$ 169,093
Federal	EPA	Flood Control 2.0 Resilient Habitats	102206	\$ 170,146		\$ 170,146	\$ 11,412	\$ 158,734
Federal	EPA	Greener Pesticides for Cleaner Waterways	102207	\$ 11,879		\$ 11,879	\$ 1,879	\$ 10,000
Federal	EPA	Calcine Paved Roads	102230	\$ 375,245		\$ 375,245	\$ 17,800	\$ 357,445
Federal	EPA	Urban Greening Bay Area	102263	\$ 570,264		\$ 570,264	\$ 128,121	\$ 442,143
Federal	EPA	Suisun Marsh Monitoring	102264	\$ 421,354		\$ 421,354	\$ 44,874	\$ 376,480
Federal	EPA	Wetland-Climate Change Regulatory Update	102280	\$ 45,000		\$ 45,000	\$ 45,000	\$ -
Federal	CA Division of Boating & Waterways	Clean Vessel Education Program	102262	\$ 114,677		\$ 114,677	\$ 68,038	\$ 46,639
Local	SCVWD	Permit Writing Assistance	102036		\$ 134,314	\$ 134,314	\$ 134,314	\$ -
Local	Marin County/SMART	Permit Writing Assistance	102214		\$ 168,855	\$ 168,855	\$ 168,855	\$ -
Local	Sonoma County Water Agency	Permit Writing Assistance	102220		\$ 107,702	\$ 107,702	\$ 107,702	\$ -
Local	Alameda County	Permit Writing Assistance	102227		\$ 158,266	\$ 158,266	\$ 158,266	\$ -
State	Regional Water Board	ACL-SEP Oversight	102015		\$ 21,248	\$ 21,248	\$ 21,248	\$ -
State	Strategic Growth Council	Stormwater Spine El Cerrito Site 3	102208		\$ 572,134	\$ 572,134	\$ 33,762	\$ 538,372
State	Caltrans	Match for Stormwater Spine project	102215		\$ 881,932	\$ 881,932	\$ -	\$ 881,932
State	Department of Water Resources	IRWM 1 SFEP GI projects	102204		\$ 247,981	\$ 247,981	\$ 112,879	\$ 135,102
State	Department of Water Resources	IRWM 1 DAC Projects	102205		\$ 718,229	\$ 718,229	\$ 20,366	\$ 697,863
State	Department of Water Resources	IRWM 2 Grant Administration	102231		\$ 158,557	\$ 158,557	\$ 158,557	\$ -
State	Department of Water Resources	IRWM 2 All Other Projects	102232-53		\$ 5,500,000	\$ 5,500,000	\$ -	\$ 5,500,000
State	Department of Water Resources	IRWM 3 Grant Administration	102257		\$ 471,429	\$ 471,429	\$ 471,429	\$ -
State	Department of Water Resources	IRWM 3 All Other Projects	102268-78		\$ 8,722,521	\$ 8,722,521	\$ -	\$ 8,722,521
State	Department of Water Resources	IRWM 4 Grant Administration	102261		\$ 318,649	\$ 318,649	\$ 318,649	\$ -
State	Department of Water Resources	IRWM 4 All Other Projects	tbd		\$ 6,372,981	\$ 6,372,981	\$ -	\$ 6,372,981
State	State Water Board-SRF	Unified Bay & Delta Protection and Reporting	102258		\$ 111,359	\$ 111,359	\$ 77,642	\$ 33,717
				\$ 2,493,583	\$ 25,414,124	\$ 27,907,708	\$ 3,143,461	\$ 24,764,247
				9%	91%	Grand Total	11%	89%



**Caitlin Sweeney, Director**, manages overall program direction and SFEP staff. Caitlin joined the Estuary Partnership in 2011 as a Senior Environmental Planner and was promoted to Director in 2015. She developed the Partnership's Watershed Program and has overseen various multi-partner collaborative projects on watershed management, wetland restoration, and climate adaptation and resiliency. In addition, Caitlin led the most recent revision of the Comprehensive Conservation and Development Plan, the collaborative blueprint for the future of the Estuary. Prior to coming to the Partnership she spent twelve years at the San Francisco Bay Conservation and Development Commission, as a planner and ultimately as Chief Deputy Director. During her tenure, she developed enforceable policies on natural resources and sustainable development, including on wetland mitigation, public access and use of salt ponds. Caitlin has a B.A. in Biological and Environmental Studies from Mills College, and a Master's in Marine Affairs from the University of Washington.

Contact Caitlin: (510) 622-2362 or [caitlin.sweeney@waterboards.ca.gov](mailto:caitlin.sweeney@waterboards.ca.gov)



**Adrien Baudrimont, Environmental Planner**, managed the San Francisco Creek Mouth Assessment Project, as well as the SFEP Small Grant Program before taking an active role in SFEP's Clean Vessel Act Program. Before joining the Partnership, Adrien worked for several cities in Europe as a consultant in urban planning and sustainable development. After his arrival in California a few years ago, he volunteered at the San Francisco Bay Conservation and Development Commission where he learned coastal policies and regulatory process along the Bay. Adrien has a Master in Geography and a Master in Urban Planning from the

University of Paris Sorbonne.

Contact Adrien: (510) 622-2337 or [adrien.baudrimont@waterboards.ca.gov](mailto:adrien.baudrimont@waterboards.ca.gov)



**Josh Bradt, Watershed Specialist & Project Manager**, manages the San Pablo Avenue Green Stormwater Spine Project and provides support to the Partnership's Watershed Program and regional green infrastructure efforts. Before joining the Partnership, Josh spearheaded the creation of a citywide Watershed Management Plan for the City of Berkeley. He has been the Executive Director and Restoration Director of the non-profit Urban Creeks Council. He has also worked as a Watershed Specialist for the Contra Costa Countywide Clean Water Program. Josh has a B.A. in

Political Science from the University of North Carolina.

Contact Josh: (510) 622-5048 or [josh.bradt@waterboards.ca.gov](mailto:josh.bradt@waterboards.ca.gov)



**Athena Honore, Contracts Manager**, started with SFEP in 2008. Before transitioning into the contract manager role in 2015, she served as a project manager on projects including urban pesticides, PCBs in caulk, Supplemental Environmental Project oversight, Integrated Regional Water Management, and regional outreach campaigns to reduce household pesticide use. Before that, Athena managed pollution prevention campaigns at Save The Bay covering trash, pharmaceuticals, and beach water quality. She has also run political campaigns and edited technical books. She co-holds a patent in germanosiloxane polymer synthesis and has a B.A. in English from Reed College.

Contact Athena: (510) 622-2325 or [athena.honore@waterboards.ca.gov](mailto:athena.honore@waterboards.ca.gov)



**Jennifer Krebs, Principal Environmental Planner**, leads the Green Infill – Clean Stormwater and Estuary 2100 projects. Jennifer also contributes to ABAG's Hazardous Waste Planning Program and Projections/Research Group. She helped design and implement the EcoWise Certified Program, the Joint Aquatic Resources Permit Application (JARPA), the Bay Area Dioxins Project, and the Bay Area Green Business Program. She was a hazmat specialist and taught physical geography. She has a B.S.F.S. in International Affairs and an M.A. in Geography.

Contact Jennifer: (510) 622-2315 or [jennifer.krebs@waterboards.ca.gov](mailto:jennifer.krebs@waterboards.ca.gov)



**Darcie Luce, Environmental Planner**, oversees the implementation of water-focused actions in the Comprehensive Conservation and Management Plan and assists with management of IRWMP-related projects. In addition to her work with the San Francisco Estuary Partnership, Darcie is a Water Policy Specialist for Friends of the San Francisco Estuary. Before joining the Partnership and Friends, Darcie was Assistant Director of the California Land Stewardship Institute, managing creek and watershed restoration projects and a water quality certification program for farmers. Darcie has a master's degree in applied anthropology with an environmental focus from the University of Maryland at College Park.

Contact Darcie (510) 622-2448 or [darcie.luce@waterboards.ca.gov](mailto:darcie.luce@waterboards.ca.gov)



**Karen McDowell, Environmental Planner**, leads aquatic invasive species issues, manages a boater/sewage education program, and coordinates the State of the Estuary Conference and the Bay-Delta Science Conference. She serves on regional, state, and federal invasive species task forces. She also coordinated a ballast water outreach program for California Sea Grant. Karen has a B.A. in Biology from U.C. Santa Cruz and a Ph.D. in Marine Ecology from the Florida Institute of Technology.

Contact Karen: (510) 622-2398 or [karen.mcdowell@waterboards.ca.gov](mailto:karen.mcdowell@waterboards.ca.gov)

**James Muller, Environmental Specialist**, leads a dynamic clean boater and outreach program



funded by a Clean Vessel Act grant from the California Department of Boating and Waterways. James has a Bachelor's of Science in Biology from Radford University and a Master's of Science in Environmental Management from the University of San Francisco. James works on the Boater Outreach and Education program and manages the E2100 suite of grant projects. He enjoys being a member of the Beach Watch (FMSA/NOAA) organization during his time off.

Contact James: (510) 622-2406 or [james.muller@waterboards.ca.gov](mailto:james.muller@waterboards.ca.gov)



**Heidi Nutters, Environmental Planner** leads the Comprehensive Conservation Management Plan (CCMP) process and supports climate resiliency efforts. Prior to joining the Partnership, she managed the Coastal Training Program for the San Francisco Bay National Estuarine Research Reserve. In her role there, she supported regional collaborative science, communication, training and strategic planning efforts. Heidi was previously a NOAA Coastal Management Fellow with the San Francisco Bay Conservation and Development Commission. She

received a B.A. in Cultural and Interdisciplinary Studies from Antioch College and a M.A. in Environmental Studies from Brown University.

Contact Heidi: (510) 622-2499 or [Heidi.Nutters@Waterboards.ca.gov](mailto:Heidi.Nutters@Waterboards.ca.gov)

**Paula Trigueros, Retired Contract Manager**, provided financial management for SFEP including budgeting, financial analysis, and grant, contract, and subcontract development and administration. She continues to support several key projects during her retirement. She has 20 years' experience with Clean Water Act grant projects and has written grant applications, work plans, contract work scopes and environmental documents. She has a B.A. and M.A. in English. Contact Paula: [paula.trigueros@waterboards.ca.gov](mailto:paula.trigueros@waterboards.ca.gov)

## PROJECT-SPECIFIC STAFF

**Susan Glendening** provides regulatory assistance to the Santa Clara Valley Water District by preparing Clean Water Act Section 401 permits, and reviewing and advising on plans and reports for the District's flood control, stream maintenance, and watershed enhancement projects. Before joining the San Francisco Estuary Partnership, Susan worked as an aquatic biologist and environmental scientist in both the private and public sector for over 15 years. She has a B.S. in Biological Sciences from U.C. Davis and an M.S. in Environmental Management from the University of San Francisco.

Contact Susan: (510) 622-2462 or [susan.glendening@waterboards.ca.gov](mailto:susan.glendening@waterboards.ca.gov)



**Ben Livsey, Environmental Specialist** at the S.F. Regional Water Quality Control Board, works under a contract funded by the Sonoma County Water Agency. He oversees a variety of permitting efforts related to stream maintenance and restoration, groundwater protection, and recycled water activities. Previously, Ben assessed and prioritized fish passage barriers in Southern California streams for a consulting firm. Ben has a B.A. in Environmental Studies/Geography and a Master's degree in Environmental Science and Management from U.C. Santa Barbara. Contact Ben: (510) 622-2308 or [ben.livsey@waterboards.ca.gov](mailto:ben.livsey@waterboards.ca.gov)

**Leslie Perry, Environmental Specialist** at the S.F. Regional Water Quality Control Board, works under a contract funded by the Alameda County Flood Control & Water Conservation District. She reviews and issues permits for 401 Water Quality Certification on Alameda County projects. Leslie previously served as Data Manager for the SWAMP program at the Water Board. She has a B.S. in Environmental Studies from the University of Oregon and an M.S. in Environmental Law from Vermont Law School.

Contact Leslie: (510) 622-2312 or [leslie.perry@waterboards.ca.gov](mailto:leslie.perry@waterboards.ca.gov)



**Christina Toms, Environmental Engineer** at the San Francisco Bay Regional Water Quality Control Board works under a contract funded by the Marin County Department of Public Works and SMART (Sonoma-Marín Area Rail Transit). She provides these agencies with environmental analysis services in support of the federal Clean Water Act and state Porter-Cologne Water Quality Control Act. Prior to joining SFEP, Christina worked as a private consultant for 12 years on a broad range of aquatic ecosystem assessment, management, and restoration projects throughout the San Francisco Estuary and Central Coast of California. Her professional focus is the interface between applied physical and ecological science, engineering, and regulatory compliance. Christina has an MS in Civil & Environmental Engineering from the University of California, Berkeley as well as a BS in Biological Resources Engineering from the University of Maryland, College Park.

Contact Christina: 510-622-2506 or [christina.toms@waterboards.ca.gov](mailto:christina.toms@waterboards.ca.gov).

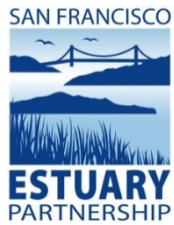
SFEP Work Plan FY 17 DRAFT Attachment 3, Funds Used for Travel								
<b>2014-15 Documentation of Travel Funds Expended Under Section 320 Grant (10/1/14-9/30/15)</b>								
<i>Personnel</i>	<i>Position</i>	<i>Dates of Travel</i>	<i>Purpose</i>	<i>Location</i>				
					\$ 375.74			
Caitlin Sweeney	Senior Environmental Planner	10/28-30/2014	Travel to Bay Delta Science Conference	Sacramento, CA	\$ 2,207.96			
Judy Kelly	Program Manager	11/3-5/14	Travel to Restore America's Estuaries conference	National Harbor, MD	\$ 120.00			
Judy Kelly	Program Manager	1/24/2015	California Water Law Symposium registration	San Francisco	\$ 1,571.61			
Judy Kelly	Program Manager	3/26/2015	EPA meeting	Washington, DC	\$ 96.26			
Jennifer Krebs	Principal Environmental Planner	4/29/2015	IRWMP meeting	Sacramento, CA	\$ 126.53			
Caitlin Sweeney	Senior Environmental Planner	8/20-8/24/15	Climate Change Symposium	Sacramento, CA	\$ 50.00			
Caitlin Sweeney	Senior Environmental Planner	8/20-8/24/15	Climate Change Symposium	Sacramento, CA	\$ 250.00	charged Sept 15 ABAG financials		
James Muller	Environmental Scientist	9/21-24/15	States Organization for Boating Access Basin Harbo	Vergennes, VT	\$ (250.00)	reversed Oct 15 ABAG financials		
James Muller	Environmental Scientist	9/21-24/15	States Organization for Boating Access Basin Harbo	Vergennes, VT	\$ 4,548.10			
<b>2015-16 Documentation of Travel Funds To Be Expended Under Section 320 Grant - Estimated after February 2016</b>						Cost		
<i>Personnel</i>	<i>Position</i>	<i>Dates of Travel</i>	<i>Purpose</i>	<i>Location</i>				
					\$ 20.00			
Karen McDowell	Environmental Planner	10/20/2015	Ballast Water Feasibility Workshop (parking only)	Sacramento, CA	\$ 644.23			
Judy Kelly	Program Manager	10/20/2015	Meeting with CA NEP directors	Los Angeles, CA	\$ 1,287.76			
Karen McDowell	Environmental Planner	11/4-5/15	Aquatic Nuisance Species Task Force Meeting	Silver Spring, MD	\$ 58.00			
Karen McDowell	Environmental Planner	12/20/2015	CA State Lands Commission meeting on biofouling	Sacramento, CA	\$ 2,500.00	estimated		
Caitlin Sweeney	Program Manager	2/22-25/16	NEP meeting	Washington, DC	\$ 1,800.00	estimated		
Karen McDowell	Environmental Planner	4/11-14/16	International Conference on Aquatic Invasive Specie	Winnipeg, Manitoba	\$ 1,500.00	estimated		
Karen McDowell	Environmental Planner	5/3-6/16	Aquatic Nuisance Species Task Force meeting	Traverse City, MI				
					\$ 7,809.99	estimated		

**Attachment 4: Completed Projects from the Previous Work Year (FY 16, Oct 1 2015-Sep 30 2016) – IN PROCESS**

<b>Project name</b>	<b>Objective</b>	<b>Project description (brief)</b>	<b>Lead Implementer, Partners, Their Roles</b>	<b>Accomplishments, Deliverables</b>	<b>Amount of Sec 320 grant/cooperative agreement funds spent on project implementation</b>	<b>Expected Long-Term Outcomes</b>	<b>Implements core CWA program?</b>
EPA Estuary 2100 – Phase 1 <ul style="list-style-type: none"> <li>• ... all the projects that completed this year</li> </ul>					<ul style="list-style-type: none"> <li>• \$0 from Section 320</li> <li>• \$4,922,000 from EPA</li> </ul>		
Estuary 2100 – Phase 2 <ul style="list-style-type: none"> <li>• North Richmond Pump Station</li> <li>• North Bay TMDLs</li> <li>• ...</li> </ul>					<ul style="list-style-type: none"> <li>• \$0 from Section 320</li> <li>• \$3,613,704 from EPA</li> </ul>		
Delta Science Support	Establish peer review, review program actions and strategies based on new knowledge, further integration of scientific practices	Provide expert advisors, plan and implement the Bay-Delta Science Conference 2014, provide science communications	SFEP, lead in conference planning and contracting with experts and science communications providers. Delta Stewardship Council, funder	Hosted 2014 conference, successfully managed dozens of expert contracts and payments	<ul style="list-style-type: none"> <li>• \$0 from Section 320</li> <li>• \$400,000 from CA Delta Stewardship Council</li> </ul>	Ensure best available science informs agencies' actions	Indirectly, all

Bay Area Green Infrastructure Master Planning Project ("GreenPlan")	Develop and demonstrate a transferable GIS-based siting toolkit that will identify, evaluate, and prioritize LID sties based on potential to reduce runoff and pollutant loads in the Bay Area	Develop Green Infrastructure Master Plans. Develop LID siting toolkit, demonstrate it in communities. Develop and disseminate outreach and education materials about toolkit.	State Water Resources Control Board (funder), SFEI (developed toolkit)	Delivered toolkit including siting, effectiveness, and cost-benefit modules. Worked with Cities of San Jose and San Mateo to pilot the toolkit in select watersheds and incorporate its results into their Sustainable Streets plans. Held webinar to showcase the toolkit for 79 participants.	<ul style="list-style-type: none"> <li>• \$0 from Section 320</li> <li>• \$597,901 from CA Prop 84</li> </ul>	As additional green infrastructure sites are built, remove more pollutant loading from stormwater	Implement TMDLs and addressing diffuse, nonpoint sources of pollution
102262 CRSMP Outreach	Address coastal erosion and storm damage along the coast, and provide tools to address sea level rise and coastal resiliency	Develop outreach and governance structure for SF Littoral Cell Coastal Regional Sediment Management Plan	California Natural Resources Agency (funder), U.S. Army Corps of Engineers (reviewer), Coastal Regional Sediment Management Workgroup	Provided outreach to complete the Plan process and developed governance structure guidance	\$0 from Section 320; \$105,000 from CA Natural Resources Agency	Establish a regional cooperative network on coastal erosion hazard mitigation	Protecting coastal waters





Date: March 2, 2016

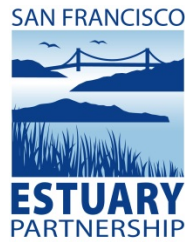
To: Implementation Committee

From: Caitlin Sweeney, Director

**RE: SFEP Governance Structure Overview**

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At the November 17, 2015 Implementation Committee meeting the IC was briefed on the potential merger of ABAG and MTC. Some discussion followed on potential consequences to the Partnership of a merger and questions were raised regarding the structure of the Partnership and the structure of other National Estuary Programs. The attached overview of SFEP's governance structure is in response to the request from the Implementation Committee for more information on these issues.



## SFEP Governance Structure Overview

### Overview – The Partnership and the National Estuary Program

- Under the National Estuary Program (NEP) of USEPA, the San Francisco Bay-Delta Estuary was designated as an estuary of national significance under the Clean Water Act (Section 320) in 1993. The San Francisco Estuary Partnership (the Partnership) is one of 28 programs established by USEPA and Congress and works as a non-regulatory leader to improve the waters, habitats and living resources of the San Francisco Bay-Delta Estuary and to protect these resources from the impacts of climate change.
- The Partnership has a staff of 13 and works collaboratively with local and regional governments, non-profit organizations, scientists, watershed groups and many other stakeholders to leverage funding sources and implement projects.
- The Partnership currently manages approximately 30 contracts covering about 70 projects around the Estuary, for a total amount of just over \$100 million.

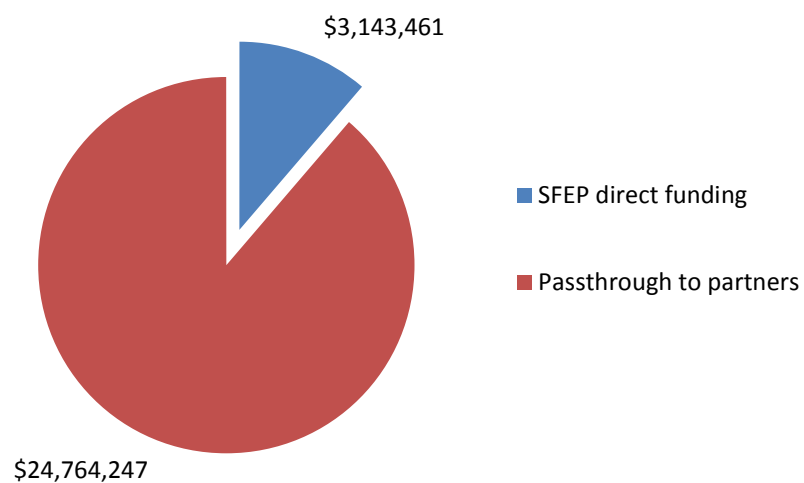


Figure 1: SFEP Total Budget \$27.9 M FFY 16-17

## Structure – Partnerships

- The 28 National Estuary Programs are either set up as independent organizations or have a host entity, such as a university, a state or regional agency, or a nonprofit organization. The host entity administers the EPA annual funding that supports the activities and projects of the NEP.
- Critical to the success in collaboratively advancing the health and resiliency of estuaries is for the individual NEPs to maintain their status as largely autonomous entities, independent of any particular agency, stakeholder, or interest group.
- The host entities of the 28 NEPs currently fall under the following categories:
  - Interstate Commission – 1
  - State Government – 8
  - Regional Government – 1
  - Local Government – 2
  - Special District – 2
  - Academic – 4
  - Independent Non-Profit Organization – 9
  - Foundation – 1
- The Partnership is the single NEP hosted by a regional government agency; the Association of Bay Area Governments (ABAG). Since 1993, ABAG has been the Partnership's fiscal and administrative agent. In addition, Partnership staff work closely with other ABAG staff on issues of mutual concern such as climate resiliency, water supply, and stormwater management.
- The NEP requires the individual programs to provide both matching funds and pursue leveraging opportunities. The San Francisco Bay Regional Water Quality Control Board (SF Water Board) provides the Partnership with office space and equipment. This arrangement results in lower billing rates for Partnership staff as overhead is not included. This lack of overhead enables a larger percentage of grant funds to go to projects that benefit the Estuary.
- Partnership staff includes several contract positions which are funded by local municipalities or districts and provide permitting assistance to the SF Water Board. This arrangement is beneficial to both the SF Water Board and the permitted community by providing cost efficient regulatory assistance (due to the lack of overhead for SFEP employees). These positions also allow the SF Water Board to increase its permitting capacity and to reduce the likelihood of permitting delays.

## Guiding Documents and Process – CCMP, Implementation Committee, Executive Council

- Each NEP is required to produce a Comprehensive Conservation and Management Plan (CCMP) that guides the work of the Program in its region. The Partnership is currently in the process of updating the San Francisco Bay-Delta CCMP which represents the unifying collaborative vision for the future of the Estuary.

- Each NEP is informed and guided by an Implementation Committee (sometimes called a Management Committee), comprised of various stakeholders including local, state and federal agencies, and representatives from public and user interest groups. The Partnership's Implementation Committee meets quarterly and works with SFEP's Director to coordinate the implementation of Partnership activities, help set work priorities, exchange ideas and suggestions about management issues, and approve work plans and budgets. The Implementation Committee provides the overall policy direction for the Partnership.
- The Partnership is also guided by a five member Executive Council. The Executive Council meets when necessary to provide guidance and approve major revisions of the CCMP. It consists of the following: the Regional Administrator, USEPA Region 9; the Regional Director, US Fish and Wildlife Service Pacific Southwest Office; the Secretary of California EPA; the Secretary of California Resources Agency; and Executive Director of the Association of Bay Area Governments.

## **Governance Alternatives**

- The Partnership's host, ABAG, is currently the subject of an analysis of a possible merger with the Metropolitan Transportation Commission. The results of the analysis are unknown, but partial or full merger of the two entities over the next few years is a possibility.
- With guidance from the Implementation Committee and EPA, to ensure effective implementation of the CCMP the Partnership could seek to partner with a different host entity (including a new regional agency comprised of the fully merged functions of ABAG and MTC) or become an independent organization. A thorough analysis of the opportunities and challenges of various alternative structures would necessarily precede any change.
- In the short term, shifting host entities or becoming an independent organization would require transferring all current contracts and may open contracts up to renegotiation, potentially delaying projects. Further, depending on the new structure, the Partnership may be ineligible for one or more of the grants it currently manages (for example, the Partnership is currently managing a project with grant funds only available to local or regional agencies).
- Long term considerations include: future eligibility for various grant funding sources; continuation of the existing partnership with the SF Water Board; and possible new partnership opportunities and funding sources for improved response to emerging issues and trends.

## The Association of Bay Area Governments (ABAG) and Metropolitan Transportation Commission (MTC)

# Merger Study Information Sheet

### Why conduct a merger study?

In October 2015, the Metropolitan Transportation Commission (MTC) adopted a resolution to create an integrated regional planning department as the best near-term approach to carry out the land use and transportation planning responsibilities set forth in SB 375 and reduce duplication of effort. This would result in a functional consolidation of planners working on SB 375 within MTC. The respective SB 375 statutory responsibilities of ABAG and MTC would remain the same. The ABAG Administrative Committee also adopted a resolution expressing support of MTC's resolution. The actions by MTC and ABAG were accompanied by an agreement to conduct a Merger Study and in the event ABAG and MTC approve a Merger Implementation Plan prior to July 1, 2016, the functional consolidation of planning departments shall be pre-empted. In January, 2016, ABAG and MTC hired Management Partners to study the policy, management, financial, and legal issues associated with further integration, up to and including institutional merger between the agencies, and how an integration model might be implemented.

### What will be done?

**Management Partners will evaluate different integration models with respect to the following:**

- Policy considerations
- Statutory authorities
- Representation and governance
- Financial resources and budget
- Employee relations
- Agency mission
- Regional planning needs



## Background Information

### About ABAG

#### The Region's Council of Governments (COG)

ABAG was formed by a Joint Powers Authority in 1961 and is a voluntary association of the Bay Area's 101 cities and nine counties.

As a comprehensive regional planning agency, ABAG works with local governments and stakeholders to develop forecasts of the region's housing, jobs and population growth, identify regional housing needs, address resilience and climate change issues, carry out regional social, economic and land use research and prepare elements of the Sustainable Communities Strategy (SCS). ABAG also provides special services to local governments, such as affordable housing and infrastructure financing, risk management and insurance, electricity and natural gas aggregation, energy efficiency programs and emergency preparedness.

### About MTC

#### The Region's MPO and RTPA

MTC was created by the California Legislature in 1970. It is the federally-designated Metropolitan Planning Organization (MPO) and the state-designated Regional Transportation Planning Agency (RTPA) for the region.

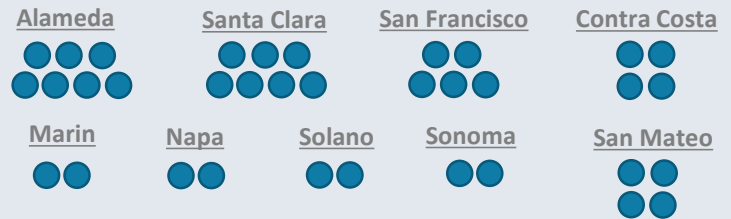
As the transportation planning, financing and coordinating agency for the nine Bay Area counties, MTC collaborates with other public agencies to plan and finance the region's streets, highways, and transit network. It is responsible for preparing a regional transportation plan (RTP) every four years which, under SB 375, must include and support the Sustainable Communities Strategy.

MTC annually programs and allocates roughly \$1.5 billion in transportation revenues and is responsible for an \$8+ billion debt portfolio. MTC also operates a suite of services to help travelers get around, including the 511 traveler information system, FasTrak® electronic toll collection, Clipper® transit fare card and the Freeway Service Patrol's fleet of roving tow trucks.

**ABAG**  
ABAG's governance structure is separated into two primary policy bodies and a variety of standing committees

**ABAG General Assembly**  
(110 voting members)  
  
1 elected official from every county, city and town

**ABAG Executive Board**  
(38 voting members)  
Representation varies by county



**MTC Commission**  
(18 voting members)  
Representation varies by county



\*One of the San Francisco Commissioners is selected by BCDC and must be a San Francisco resident.

**MTC**

MTC's governance structure is consolidated into one primary policy body and a variety of standing committees

## Plan Bay Area and SB 375

### What is SB 375?

SB 375 requires each of California's 18 Metropolitan Planning Organizations (MPOs) to include a Sustainable Communities Strategy (SCS) in the Regional Transportation Plan (RTP), both of which are required to be approved and adopted by MTC. The SCS sets forth a vision for regional growth that takes into account the region's transportation, housing, environmental, and economic needs. The SCS is the blueprint by which each region intends to meet its greenhouse gas emissions reductions target.

### What is Plan Bay Area?

Plan Bay Area is the region's first SCS. It was adopted by the ABAG Executive Board and MTC in July 2013. An updated Plan Bay Area must be completed by 2017.

### Why are both organizations involved in preparing Plan Bay Area?

In SB 375 legislation, the state outlined the roles of each organization in preparing the SCS, as well as joint responsibilities.

#### ABAG's statutory responsibilities:

- Identify the general location of uses, residential densities, and building intensities within the region
- Identify areas within the region sufficient to house the existing and projected population, considering state housing goals
- Gather and consider the best practically available scientific information regarding resource areas and farmland

#### MTC's statutory responsibilities:

- Identify a transportation network to service the transportation needs of the region
- Allow the regional transportation plan to comply with Section 176 of the federal Clean Air Act

#### Joint statutory responsibilities:

- Set forth a forecasted development pattern for the region which, when integrated with the transportation network, will reduce greenhouse gas emissions

### Management Partners wants to hear from stakeholders...

To share your perspective on this merger study, please visit the project website for a schedule of outreach events and options for giving feedback.

[www.mtcabagmergerstudy.com](http://www.mtcabagmergerstudy.com)



Date: March 2, 2016

To: Implementation Committee

From: SFEP Staff

**RE: CCMP Revision Status Report**

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A significant amount of progress has been made on the CCMP revision since the public comment period closed. SFEP staff is currently doing extensive partner engagement on CCMP Actions and Tasks to identify owners and to finalize language with the IC CCMP Steering Committee and other partners.

SFEP has contracted with three consultants to complete deliverables for the CCMP, including developing content, document editing, document layout and supporting analyses related to project evaluation and funding requirements for CCMP actions. The final products for the CCMP will include the final document, as well as complementary web materials to support project success tracking and easy navigation through the CCMP.

As part of our ongoing work to keep the IC fully informed about progress on finalizing the CCMP, attached please find a timeline for completion of the revision process.



## CCMP Revision Road Map

Estimated Completion Month	Status	Activity
February	Complete	Public comments added to the website
March	In progress	Create complementary communication materials (sidebars, appendices)
	In progress	Revise actions and identify owners and implementing partners for each action
	In progress	Analysis of funding requirements and evaluation metrics for each action
	In progress	Update website as needed
	In progress	Implementation schedule (internal project tracking)
		Complete draft of CCMP
		Implementation Committee Meeting
April		Convene CCMP Steering Committee
		Response to feedback
May		Implementation Committee approval
		External project tracking on the website
June		Executive Council approval
		Document layout, formatting and copy editing
		CCMP outreach – print and web
July		Public release of CCMP



**Road Map for Upcoming IC Meetings  
March 2, 2016**

**Wednesday, May 18, 2016**

*Confirmed*

- Approve final work plan
- Chair/Vice Chair new terms begin for 2016-17
- Approve 2016 CCMP

*Potential*

- San Pablo Avenue Stormwater Spine project overview
- State greenhouse gas cap and trade program update
- Update *on Wetter or Not* water conservation recommendations
- SFEP's Clean Vessel Act Program (boating outreach)

**Wednesday, August 24, 2016**

*Confirmed*

- Public release of 2016 CCMP
- ESTUARY News funding update and discussion of options for support going forward

*Potential*

- Resilient Shoreline Planning through Bay Area Regional Collaborative

**Wednesday November 2, 2016 – NEW DATE**

*Confirmed*

- Set calendar for 2016 meeting dates

**February or March, 2017**