

## **SAN FRANCISCO ESTUARY PARTNERSHIP**

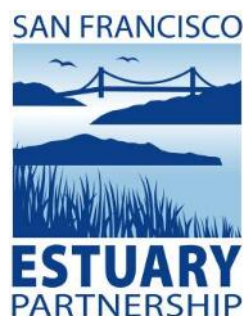
### **Implementation Committee Meeting**

Wednesday, May 21, 2014, 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 Hutzal, Chair    |
| 9:40  | <b>2. Public Comments</b>  |                      |
|       | Any member of the public may address the IC on any matter regarding implementation of the Comprehensive Conservation and Management Plan. Each speaker will be limited to three minutes. |                      |
| 9:45  | <b>3. Director's Report (Attachment 1)</b>   | Judy Kelly, Director |
|       | <b>4. Action Items</b>   | Chair                |
| 10:00 | Approve March 5, 2014 Meeting Summary (Attachment 2)   |                      |
| 10:05 | Election of IC Chair and Vice Chair for 2014-2016  |                      |
| 10:15 | Discuss and tentatively approve SFEP Workplan for 2014-2015 (Attachment 3)   |                      |
|       | <b>5. Reports on SFEP Activities</b>   |                      |
| 10:40 | IRWMP Projects/Process Update -- Rounds 2 and 3  | Jennifer Krebs       |
| 10:55 | <i>Break</i>   |                      |
| 11:10 | CCMP Revision Update and Recommendations (Attachment 4)  | Caitlin Sweeney      |
| 11:35 | State of the Estuary 2015 Report Update  | Judy Kelly           |
|       | <b>6. Highlighting IC Partner Efforts</b>  |                      |
| 11:50 | Drought Update, Department of Water Resources (Attachment 5)   | John Andrew, DWR     |
| 12:00 | National Fish and Wildlife Foundation Business Plan for San Francisco Bay: status update   | Claire Thorp, NFWF   |
|       | <b>7. Concluding Business</b>  |                      |
| 12:20 | Review Road Map; add agenda items for future meetings (Attachment 6)   | Chair, Judy Kelly    |
| 12:25 | Announcements  |                      |
| 12:30 | Adjourn  |                      |



## DIRECTOR'S REPORT

May 21, 2014

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### Program Management

#### Director travel to Seattle, WA

I will be in Seattle May 18-20, meeting with the other five West Coast National Estuary Program (NEP) directors. Our agenda will include discussion of climate change adaptation issues and other areas where the NEPs can benefit from shared ideas, information and work efforts. I will provide highlights at the meeting.

## Washington update

**EPA Funding.** The administration has requested \$600,000 per NEP in its \$25.2 million budget request for funding both the NEPs and EPA's Coastal Waterways Fund in 2015-16. Funding the NEPs at this level would require a cut in funding from the Fund, as the total request is down \$1.6 million from last year.

Following up on NEP directors' annual D.C. trip in February, our letter requesting the full federal appropriation of \$600,000 per NEP was signed by 54 House members, a new record. Most of the Bay Area delegation signed.

We expect to see another Continuing Resolution to fund the Interior Appropriations [under which US EPA is included], and will not likely have a final NEP 2015 budget figure from EPA until January or February 2015.

### Bills in Congress

- S. 2042, the Clean Estuaries Act of 2014, sponsored by Sheldon Whitehouse (D-RI), has been reported out of the Environment and Public Works Committee. It has no cosponsors.
- S. 224, the San Francisco Bay Restoration Act, sponsored by Dianne Feinstein (cosponsored by Barbara Boxer), has also been reported out of the Environment and Public Works Committee.
- H.R. 843 is the companion bill (to S. 224) in the House. It is sponsored by Jackie Speier and co-sponsored by 11 members of the Bay Area delegation. There has been no recent action on this bill.

## Staff Changes

Janet Cox, with SFEP since 2005, will be laid off from her position at the end of May. Unfortunately for the Partnership, our serious funding challenges this year have resulted in the loss of her senior staff position and in reduction in time for a second staff position. Janet's work for the Partnership on our trash project, as part of our communications endeavors, as the lead writer on our last two Strategic Plans and in many other key efforts, has been instrumental to their success. We thank Janet for the dedication and passion she has brought to her work with SFEP and wish her the best for future endeavors.

In addition, long-term agreements with Caltrans to provide technical assistance will be ending in November which will result in the loss of two additional positions at SFEP.

## 2014 Delta Science Conference: Call for Speaker and Poster Abstracts

### *All abstracts due June 11, 2014*

The Biennial Bay-Delta Science Conference is a forum for presenting technical analyses and results relevant to the Delta Science Program's mission to support environmental decision-making for water in the Bay-Delta system with the best possible unbiased, science-based information. The goal of the 2014 conference is to provide new information and syntheses to the broad community of scientists, engineers, resource managers, and stakeholders working on Bay-Delta issues. The organizers of this 8th Science Conference are seeking presentations that support this goal.

The conference theme this year is “Making Connections.” Management of the Bay-Delta ecosystem is at a critical crossroads as politicians and regulators seek new ways to manage water exports while restoring landscape-level ecosystem attributes and functions. Scientists who support these activities must make connections among external drivers, management actions, and ecosystem responses. Perhaps more critical, the scientific and management communities must connect and collaborate, in order to ensure a two-way flow of needs, resources, ideas, and understanding.

In addition to general session and poster topics based on the abstracts we receive, conference participants may propose special oral sessions or poster clusters on topics of particular importance to the Bay-Delta. All abstracts for oral sessions (special and general) and posters (including clusters) are due June 11, 2014. Visit the web site for more information: <http://scienceconf2014.deltacouncil.ca.gov>.



## New grant proposals

### **Unified Bay and Delta Protection Planning and Reporting Project, State Revolving Fund (Judy Kelly)**

The State Water Board’s Clean Water State Revolving Fund is entertaining proposals of up to \$1 million, with a reduced 25 percent match requirement, for each of the three NEPs in the state. This year SFEP, the Delta Science Program, and the San Francisco Estuary Institute (SFEI) are together requesting \$1.2 million in planning funds to support the Unified Bay and Delta Protection Planning and Reporting Project, in an effort to help meet the challenge of restoring and sustaining a healthy Bay-Delta Estuary. The Project, designed to inform key decisions affecting Estuary health, will create publicly accessible systems for regional, comprehensive, scientifically sound assessments and reports, based on established monitoring programs.

- Phase 1 of the Project will develop and deliver the Bay-Delta Science Report (2014) as the best source of critically important information about the current status of science for the Estuary.
- Phase 2 will flow directly from Phase 1, and along with other critical information sources, support a 2015 State of the Estuary Report that will cover the health of the Delta, the Bay, and the Gulf of the Farallones for the first time.
- Phase 3 will support SFEP’s update to the Comprehensive Conservation and Management Plan for the Bay-Delta Estuary (2016 CCMP), incorporating recent adjustments in public environmental policies and priorities for protecting the Estuary.

### **Urban Greening Bay Area, SF Bay Water Quality Improvement Fund (Jennifer Krebs)**

Urban Greening Bay Area builds on GreenPlan Bay Area, an initiative begun in 2013 by SFEP, SFEI, the Bay Area Storm Water Management Agencies Association (BASMAA), and others, to advance green infrastructure/low impact development (LID) plans and projects in cities and towns around the region. SFEI has already created GreenPlan-IT, a GIS-based LID site locator; planning initiatives based on forthcoming GreenPlan-IT outputs are underway in the cities of San José and San Mateo. Urban Greening Bay Area will expand the scope and reach of this initiative by collaborating with additional cities: Oakland, Livermore, Richmond, Sunnyvale, as well as Contra Costa County. Partners are expected to develop plans based upon GreenPlan-IT outputs and some sites will be built. Additionally, partners will transform SFEP's LID Leadership Group and BASMAA's Green Streets Work Group to focus on incorporating LID into transportation initiatives. This is a \$3.5 million dollar initiative with more than 50 percent match from current green planning and implementation efforts around the Bay.

### **Lower Walnut Creek Flood Protection and Habitat Restoration Project: Phase 1 – Project Visioning and Restoration Implementation, SF Bay Water Quality Improvement Fund (Caitlin Sweeney)**

Phase 1 of the Lower Walnut Creek Flood Protection and Habitat Restoration Project consists of a comprehensive visioning, planning, and public outreach effort for the entire project area and implementation of a significant component of the project: tidal marsh restoration at the mouth of Lower Walnut Creek, Basin 2 of Pacheco Marsh. Building on the EPA-funded “Flood Control 2.0” project, this proposed project will continue to advance the planning and implementation of innovative multi-objective flood control and habitat restoration projects in the Bay Area. SFEP is partnering with the Contra Costa County Flood Control and Water Conservation District and the San Francisco Estuary Institute, as well as a suite of additional partners who will participate in the planning and implementation of the project. The total project cost is \$3,160,000 of which we are requesting \$1,190,000 from EPA.

### **Wildcat Creek Restoration and Greenway Trail Project Proposal, SF Bay Water Quality Improvement Fund (Josh Bradt)**

The proposal is to restore an 1800-ft degraded urban reach of Wildcat Creek and install a fully separated (Class I) bicycle and pedestrian trail in the City of San Pablo, our primary project partner. Stream work will include 1) modifications to the width and depth of the active channel, 2) in-stream habitat improvements for resident trout, 2) installation of a floodplain “bench” and widened creek corridor to reduce downstream flood risks, 3) stabilization of the near-vertical right-bank, and 4) replanting with native riparian vegetation. The trail component will link the partially completed Bay Trail segment in North Richmond and Wildcat Canyon Regional Park. The project is in early design with a total cost projection of \$3.6 million. We have requested \$1.07 million from the Water Quality Improvement Fund for the creek improvements, hoping to leverage these funds for additional funding for demolition, trail construction, furnishings, monitoring, and public outreach.

### **Suisun Marsh Water Quality Objectives Attainment: Source Reduction Field Testing Project, SF Bay Water Quality Improvement Fund (Paula Trigueros)**

The Water Board is developing a TMDL (total maximum daily load) for Suisun Marsh, which is officially listed as impaired by low dissolved oxygen/organic enrichment, mercury, nutrients, and salinity. Water



quality in the marsh is influenced by flows from the Delta, tidal action, local runoff, and effluent from the Fairfield-Suisun Wastewater Treatment Plant, which receives “advanced secondary” treatment. This project, requesting \$2 million to be matched by \$2 million, would support early implementation of the TMDL by restoring some water quality objectives in the marsh; it would also develop assessment methods for TMDL effectiveness. It would refine management of Fairfield Suisun Sanitary District’s discharges and the managed wetland where treatment plant effluent is discharged; implement best management practices to control methyl-mercury and dissolved oxygen levels in managed wetlands; and investigate additional potential impairment sources and source reduction strategies. Ultimately, the project aims to make recommendations for meeting TMDL targets based on constraints and opportunities identified during this work.

## SFEP Projects

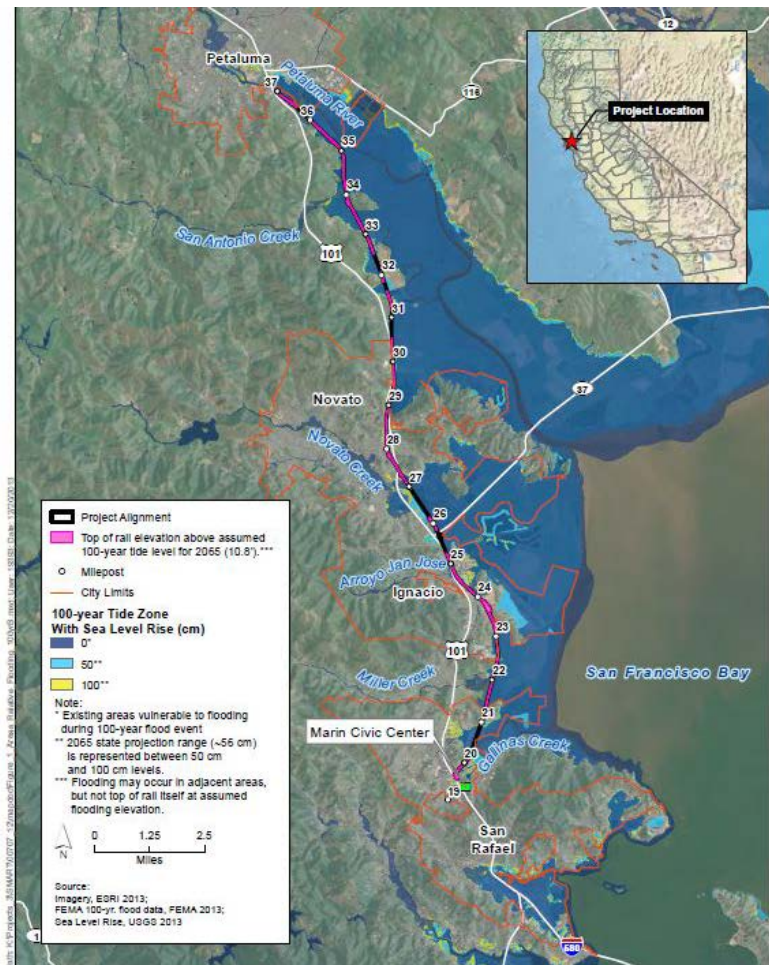
### SMART Project Permit is the First to Require an Applicant to address Climate Impacts (Paul Modrell)

In late February the Water Board issued a Clean Water Act Section 401 water quality certification, which Paul developed, for Initial Operating Segment-1 South of the Sonoma-Marin Area Rail Transit District (SMART) Project. This segment of the passenger line through Sonoma and Marin counties will rehabilitate almost 18 miles of low-lying railway on the western boundary of a large portion of Petaluma Marsh and the Burdell Ranch Wetlands Conservation Bank, crossing thirteen major streams (including Novato and Gallinas creeks) requiring bridge modification or replacement.

The Certification is the Water Board’s first to require an applicant to address the impacts of climate change on its project.

SMART produced a “Sea Level Rise Vulnerability Assessment and Adaptation Strategy”

(<http://www.sfestuary.org/wp-content/uploads/2014/05/SMART-IOS1S-SLR-2014.pdf>) as a supplement to its application for



certification. The document, which was accepted by the Water Board as a mitigation measure, addresses impact avoidance and minimization and provides a technical and scientific analysis of anticipated changes to the hydrology of creeks and wetlands resulting from continuing sea level rise. It identifies potential adaptation measures that should avoid and minimize hydraulic constrictions, discharges, and the loss of wetlands in the project area. The Certification requires reassessment of this analysis every five years, taking into account the latest sea level rise data and projections. It also requires SMART's good faith cooperation with stakeholders to identify regional solutions to the challenges of sea level rise.

### **San Francisco Bay Restoration Authority (Judy Kelly and Karen McDowell)**

The governing Board of the San Francisco Bay Restoration Authority will meet on May 28 to review recent poll results and come to a decision about placing a 10-year, \$9 parcel tax on the November 2014 ballot in all nine Bay Area counties. Should such a measure be passed by a 66 percent majority vote regionwide, it would raise approximately \$150 million to fund wetland restoration in San Francisco Bay. A final decision on the ballot measure will be made no later than June. Read the draft Expenditure Plan and potential projects list at <http://sfbayrestore.org/docs/Draft-Expenditure-Plan.pdf>, and view a map of the projects and local projected sea level rise scenarios at <http://sfbayrestore.org/docs/Map.pdf>. Visit the web site (<http://sfbayrestore.org/>) for more information.

### **Regulation of discharges from drinking water systems (Susan Glendening)**

Planned or unplanned discharges of potable, chlorinated water occur regularly throughout the region, for a variety of public health protection and maintenance purposes. These discharges flow to a receiving water

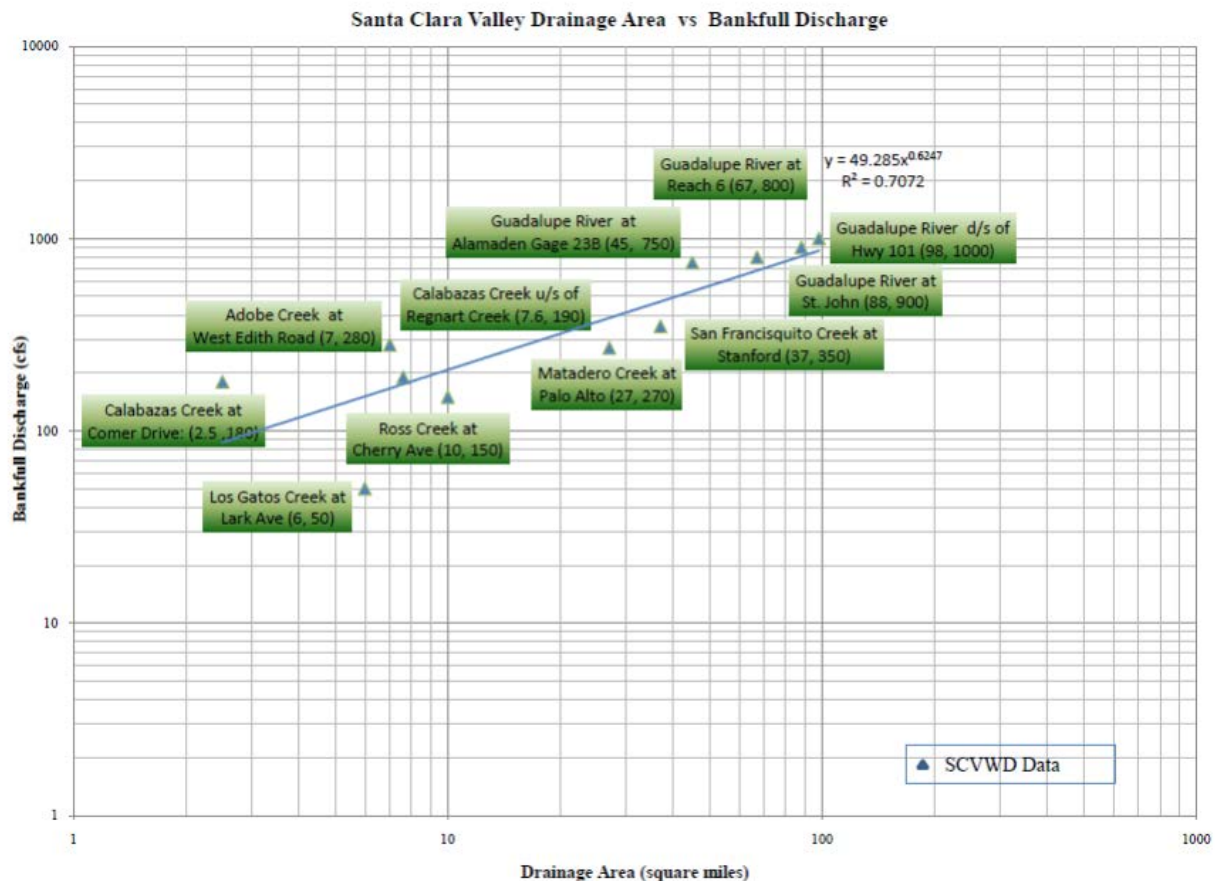


body directly from water delivery systems or indirectly through stormwater infrastructure. Susan has prepared a tentative order for a new general NPDES permit to regulate discharges from drinking water systems in Region 2. Since August 2012, she has coordinated a Water Agencies Task Force, including representatives from the Water Board and ten water and stormwater agencies, which has researched the issues and developed discharge requirements for the permit. The permit will

require water purveyors to use best management practices to dechlorinate flows, minimize turbidity in the discharge, and avoid sedimentation and erosion impacts in the receiving water body. The permit is applicable to as many as 195 community water systems in the Bay Area. Susan is planning a public meeting to discuss the permit on May 19, and will present the tentative order for the Water Board to consider it for adoption on August 13. SFEP will provide permittee enrollment and compliance assistance after the permit is adopted.

### Regional Design Curves Resource on SFEP's website (James Muller)

Stream design curves are planning tools that stream restoration professionals can use to develop initial channel geometries. They are created by analyzing analogous stable reaches in the region where the curve will be used. Design curves provide a starting point for designers, who must also take into account features unique to the project – in order to ensure a stable design. Due to the climatic variance in the Bay Area, sub-regional curves are needed in our region to provide more locally accurate design curves.



A typical design curve: With the bankfull discharge rate (y axis) plotted against drainage area on the x axis, stream restoration practitioners can plot their stream's drainage area on this curve to approximate their target bankfull discharge and then refine this calculation taking into account any site variances.

Many different agencies have worked to create these curves for their regions, but none have collected these curves and made them available to the public in one place. SFEP staffer, James Muller, is building a page on our website that will be dedicated to the dissemination of this information for Bay Area restoration professionals, including resources to help practitioners understand the proper use of this important restoration tool. When the page is published, it will be found at [www.sfestuary.org/designcurve/](http://www.sfestuary.org/designcurve/).



## Got Ants? Campaign: End of Phase I, more to come (Athena Honoré)

The Got Ants? pesticides outreach project has wrapped up its first phase, which was funded by a grant from the California Department of Pesticide Regulation's Pest Management Alliance program. The project, designed to reduce residential use of pyrethroids and fipronil, key targets of surface water pollution prevention efforts, produced a set of online and print materials including flyers, advertisements, magnets, a website ([www.gotantsgetserious.org](http://www.gotantsgetserious.org)), and a Facebook page – all geared towards providing residents with easy, less-toxic solutions to ants in the home. The campaign was promoted through advertising, social media, partner promotions, and earned media. All outreach avenues generated about 18 million impressions. *Advertising and web visits are shown in the chart below, which makes clear just how effectively advertising promotes the campaign.* More information is available at [http://www.cdpr.ca.gov/docs/pestmgt/grants/final-reports/got\\_ants.pdf](http://www.cdpr.ca.gov/docs/pestmgt/grants/final-reports/got_ants.pdf). The project will continue, with expanded outreach to be conducted under the San Francisco Bay Water Quality Improvement Fund award from the U.S. EPA.



	Advertising				Website
	Print ad viewers, Transit	Print ad viewers, Sunset magazine	Facebook advertising (online)	Google advertising (online)	Web hits (unique visitors)
May-13				11,842	414
Jun-13	5,139,780		1,361,710	34,095	1233
Jul-13	3,276,300	1,250,000	1,472,861	82,672	1837
Aug-13	2,338,455			40,736	1009
Sep-13	1,928,918	350,000			699
Oct-13					357
Nov-13					506
Dec-13					244
Jan-14					172

	Advertising				Website
Feb-14					214
Mar-14					163
Totals	12,683,453	1,600,000	2,834,571	169,345	6,848
Subtotals by type				17,287,369	6,848

### Bay Area-wide Trash Capture Demonstration Project final report released (Janet Cox)

The final report for this successful project (2009-2013) is now posted at <http://sfep.sfei.org/our-projects/water-quality-improvement/trashcapture/>. Funded with \$5 million from the American Recovery and Reinvestment Act of 2009 (the federal stimulus bill), and California bond measures (Coastal Nonpoint Source bonds, Propositions 13 and 50; and Urban Stormwater bonds, Prop 40), the project procured and installed more than 4000 trash capture devices in more than 60 Bay Area jurisdictions. The purpose of the project was to demonstrate effectiveness and cost efficiency of various types of trash capture devices that municipalities may want to purchase with their own funds in the future, in order to be in compliance with the San Francisco Bay Regional Water Board's Municipal Regional Stormwater Permit under the National Pollutant Discharge Elimination System (NPDES).

### Drought Response Outreach Program for Schools (DROPS; Josh Bradt)

SFEP will collaborate with the State Water Board's Division of Financial Assistance in developing a Drought Response Outreach Program for Schools (DROPS), which will direct approximately \$25-30M in "remnant" proposition funds to school districts to implement stormwater retention, recharge and/or reuse projects with strong education/outreach components for students. We will be participating in stakeholder meetings this spring and summer to help refine the program's scope, focus of implementation, and proposal requirements; and pursuing local school district partnerships to apply for funding, when a request for proposals is released in August/September 2014.

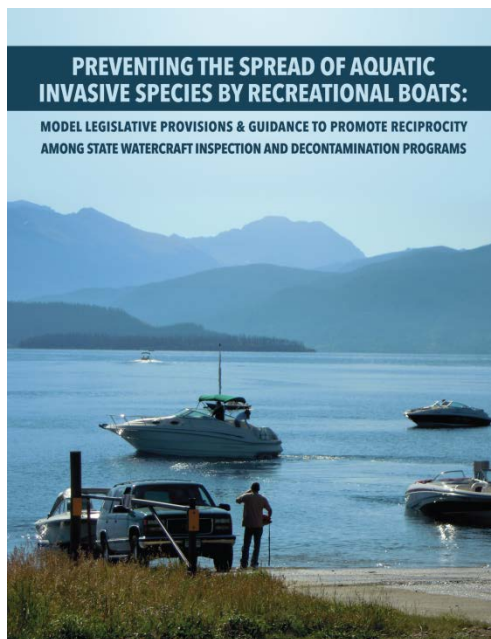
### SFEP's aquatic invasive species work (Karen McDowell)

Highly invasive quagga and zebra mussels (*Dreissena bugensis* and *D. polymorpha*, respectively; native to drainages in the former Soviet Union) were discovered in the Great Lakes in the late 1980's. In January 2007, the quagga mussel was found in Lake Mead and connected water bodies, spurring ramped-up management efforts in the western states, including California (<https://www.dfg.ca.gov/invasives/quaggamussel/>). In 2010, the Quagga-Zebra Mussel Action Plan (Q-ZAP) was finalized by the Western Regional Panel on Aquatic Nuisance Species (WRP) and approved by the federal Aquatic Nuisance Species Task Force (ANSTF) ([http://anstaskforce.gov/QZAP/QZAP\\_FINAL\\_Feb2010.pdf](http://anstaskforce.gov/QZAP/QZAP_FINAL_Feb2010.pdf)), mobilizing up to \$2 million/year in

additional federal funds to prevent the spread of quagga and zebra mussels in the western states. One of the top priorities for the funding is preventing the spread of these invasive species through inspection and decontamination programs, with focus on the Lake Mead region and surrounding infested water bodies.

In addition to the increased funding, the WRP and many other groups have been working together to coordinate inspection and decontamination programs throughout the west. A recent result of this work is the development of model legislative provisions and guidance to promote reciprocity among state watercraft inspection and decontamination programs (participating organizations on this effort include the WRP, National Sea Grant Law Center and the National Association of Attorneys General, along with many other organizations). This document can be found at: <http://nsglc.olemiss.edu/projects/files/Model-Legislative-Provisions-Guidance.pdf>

This effort also led to the formation of a joint workgroup of the ANSTF and the National Invasive



Species Council (NISC) for addressing aquatic invasive species Issues at federally managed water bodies. The first product of this group will be a federal policy option paper with recommendations addressing movement of species into and out of federally managed water bodies. This document is in draft form and should be released for review within the next year.

While these projects were initiated in response to quagga and zebra mussels, additional programs being developed will address the range of aquatic invasive species, including aquatic plants. All of these efforts are critical for preventing the spread of aquatic invasive species in the San Francisco Estuary. SFEP's Karen McDowell, Ph.D., will continue to be instrumental in this work, both on the West Coast and at the national level, as she has served as past chair and vice-chair of the WRP and is one of the few West Coast representatives on the ANSTF.

**San Francisco Estuary Partnership  
Implementation Committee Meeting**

March 5, 2014  
Elihu M. Harris State Building  
Oakland, California

**DRAFT MEETING SUMMARY**

**1. Introductions**

Amy Hutzell, Chair of the Implementation Committee, called the meeting to order at 9:45 am with a review of the agenda and a round of introductions.

Approval of the Meeting Summary for November 20, 2013. Moved, seconded and approved.

**2. Public Comments**

There were no public comments.

**3. Director's Report Highlights**

- Judy made the annual trip to Washington D.C. for meetings at EPA HQ. Budget numbers for 2014 year that starts October 1: \$538,000. Internal adjustments will be necessary.
- Judy visited 12 offices of local representatives and reports strong support from the local region.
- Highlights: award of \$20 million IRWMP grant for SFEP to manage; awarded \$800,000 for Calcine Paved Roads project in Guadalupe watershed.
- EPA's SBWQIF-FY 14 has \$ 5million available. RFP currently at HQ; expect in mid-late March. 45 day Initial proposal deadline. New emphasis on new applicants and new geographic places.
- 2015 Presidential budget released yesterday.
- EPA is considering rulemaking on wetlands in response to Rapanos. Not isolated wetlands (vernal pools), but those that have impact on navigable waterways.
- EPA wants science based letters. Arthur will send information to the Joint Venture.

**4. SFEP Activities**

- **Selection of Chair and Vice Chair 2014-2016**
  - Chair and Vice Chair seats are now open. Tom Mumley will retain his position as Chair or Vice Chair in accordance with IC procedures. Amy Hutzell is willing to retain her position if there are no other volunteers or nominations.
  - Let Judy know if there are other nominations.
  - Steve Goldbeck moved to nominate Amy as Chair; Arthur Feinstein seconds.
  - IC will take action at next IC meeting.
- **IRWMP Update**
  - IRWMP Plan Update adopted by Coordinating Committee last month.
  - SFEP awarded IRWMP2 grant to manage 19 regional projects for \$ 20 million.
  - Included \$2.7 million in conservation and recycled water projects; horizontal levee project at Oro Loma Sanitary District.
  - Action: IC would like a presentation on Oro Loma project.

- IRWMP Round 3 -\$73 million for SF Bay Region; DWR will fast track 42 percent (\$30.9 million) for drought related projects. Applications due by August 2014. Water supply and capital projects rise to top.
- Deadline to add Phase 3 Regional Projects: March 31; sub-regional projects by April 30.
- Call Jennifer Krebs for information on how to propose projects.
- **SF Bay Restoration Authority**
  - Considering a parcel tax of \$10/year, on the November 2014 ballot, for Bay shoreline restoration and flood protection.
  - The Restoration Authority Board consists of local government officials.
  - Save the Bay's polling at the end of January showed 68percent approval for a parcel tax of \$9-\$14.
  - Authority has a draft expenditure plan with a list of projects eligible for Authority funding.
  - Ballot cost is \$ 1 million (AB 279 last year). Save the Bay is doing fund raising for the campaign.
  - Parcel tax estimated to raise \$300 million for restoration funding.
- **CCMP Revision Update -- Caitlin**
  - Took road map to IC last November
  - Approved key objectives and goals of revision process:
    - Strategic focuses: 50 Actions
    - Integrate Bay and Delta
    - Incorporate content from other planning documents
    - Include success measures/tracking tools for each action
    - Align SFEP documents: CCMP/Strategic Plan/Annual Work Plan
    - Plan-manage-monitor-assess
  - Convened IC CCMP Steering Committee of volunteers from IC and Friends of the Estuary
    - Will guide/direct overall process
    - Form working subcommittees
    - Review drafts
    - Report on progress to IC
    - Next Steering Committee meeting April 18, 2014
  - Work Plan
    - Shift in timing since November—to integrate with update of State of the Estuary 2015 Report- new schedule March 2016
    - Caitlin will email work plan to IC; also list of documents; other action plans

## 5. Programs, Ideas, and Priorities from IC Members

- **Pacific Marine and Estuarine Fish Habitat Partnership-Korie Schaeffer**

Korie gave a presentation on this effort: 18 months for completion of work; 3 assessments of estuarine fish habitat. The Pacific Marine and Estuarine Fish Habitat Partnership (PMEP) is one of 18 nationally recognized partnerships that seeks to advance regional and



national goals relating to juvenile fish habitat. PMEP supports existing efforts in targeted priority areas and encourages new efforts to:

- Protect and maintain intact and healthy aquatic systems
- Prevent further degradation of fish habitats
- Reverse declines in the quality and quantity of aquatic habitats
- Increase the quality and quantity of fish habitats that support a broad natural diversity of fish and other aquatic species
- The currently funded project in California is the Salt River (Eel system) Ecosystem Restoration Project (SRERP)

For additional information about this project see <http://www.pacificfishhabitat.org/>

- **2015 State of the Estuary Report**

- Update of 2011 Report managed by Letitia Grenier
- Priorities: 1- Update existing indicators with current data; 2-tweak indicators and benchmarks; 3-add new indicators
- More coverage on Delta; add Delta indicators
- Process: lead scientist/review committee/ peer reviews

## **6. Concluding Business**

- Road Map review

## **7. Announcements**

- David Sedlack will speak at the Water Board on Monday, March 10
- Joint Venture will host a double decker boat trip on the Napa River March 21

Meeting was adjourned at 12:40 pm.

### **Meeting Attendees**

Arthur Feinstein	Citizens Committee to Complete the Refuge
Steve Goldbeck	BCDC
Amy Hutzell	State Coastal Conservancy
Tom Kendall	US Army COE
Peter LaCivita	US Army COE
Jane Lavelle	SF PUC
Jessica Martini-Lamb	Sonoma County Water Agency
Tom Mumley	San Francisco Water Board
Julie Pierce	ABAG
Barbara Salzman	Marin Audubon & Friends of the San Francisco Estuary
Korie Schaeffer	NOAA Fisheries
April Stephens	Bay Planning Coalition
Claire Thorpe	NFWF
Luisa Valiela	US EPA
Renee Webber	Sonoma County Water Agency

### **Staff**

Judy Kelly  
Caitlin Sweeney  
Karen McDowell  
James Muller  
Jennifer Krebs  
Jesse Mills  
Josh Bradt  
Paula Trigueros

# SAN FRANCISCO ESTUARY PARTNERSHIP

## FFY 2015 WORK PLAN AND BUDGET

### OCTOBER 1, 2014 - SEPTEMBER 30, 2015

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# INTRODUCTION

## THE SAN FRANCISCO ESTUARY PARTNERSHIP

The San Francisco Estuary Partnership works collaboratively with federal, state, and local agencies to restore and improve the health of the San Francisco Estuary. The Partnership developed and tracks implementation of the Estuary's environmental master planning document, the *Comprehensive Conservation and Management Plan*, (Comprehensive Plan or CCMP); manages over 40 implementation and restoration projects throughout the greater San Francisco Bay Area; and educates the public about Bay-Delta ecological issues including wetlands, wildlife, aquatic resources, land use, and pollution prevention. We also sponsor scientific conferences and colloquia including the biannual State of the Estuary Conference and the Delta Science Conference; and publish reports such as *The State of the Bay* (2011). The work of the Partnership is currently supported by more than 40 federal, state, and local grants and contracts and by the San Francisco Bay Regional Water Quality Control Board, which houses our offices, and the Association of Bay Area Governments, our parent agency.

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

## OUR ESTUARY

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

- Provide drinking water to nearly two-thirds of the state's population
- Support significant wildlife resources, including almost half of the migratory birds using the Pacific Flyway and about two-thirds of the state's salmon, which travel through the estuary as young fish and return to spawn as adults
- Provides many important wetland functions, acting as a natural pollution filter, trapping sediment, providing flood protection, and offering habitat for fish, shellfish, waterfowl, and other wildlife

Acquisition and restoration of the region's wetlands have long been top priorities among CCMP actions. The Partnership supports numerous efforts to protect and restore this critical habitat.

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

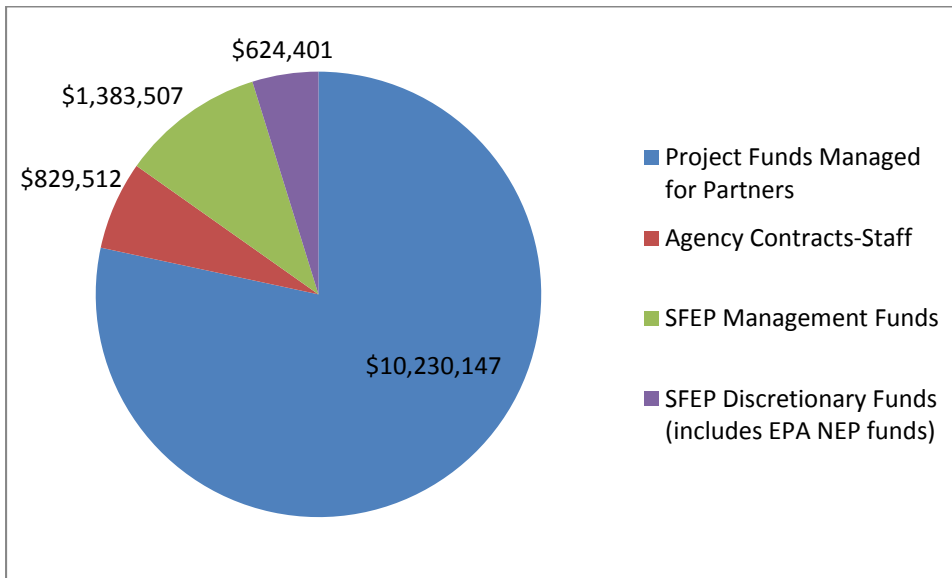
In all estuaries, the amount of fresh water that flows in from upland watersheds defines the quality and quantity of estuarine habitat. Most of the fresh water that flows into the San Francisco Estuary comes from the Sacramento and San Joaquin River basins, which provide more than 90 percent of total inflow in most years. Smaller local streams, principally the Napa and Guadalupe rivers and Alameda, San Francisquito, Coyote, and Sonoma creeks, contribute the balance.

Freshwater flows into the San Francisco Estuary have been greatly altered by upstream dams and water diversions. California's State Water Resources Control Board determined in 2010 that in order to protect public trust resources in the Sacramento-San Joaquin Delta and the Estuary, 75 percent of runoff from the Sacramento and San Joaquin River watersheds must flow unimpaired out of the Delta and into the estuary. From 2000 to 2009 only 52 percent of estimated unimpaired inflow, on average, actually flowed into the estuary. Addressing the needs of the estuary for additional freshwater flows is the subject of several urgent concurrent efforts at the regional and state levels. SFEP will continue to closely track and influence these processes. (See [www.sfestuary.org](http://www.sfestuary.org) for additional information about the Estuary.)

## FUNDING

**FFY 15 BUDGET ESTIMATE:** SFEP manages a total of over **\$33 million** in multi-year project and contract funding. This total includes four categories of funds: 1) project funds that we are awarded and manage for our partners; 2) funds from contracts for technical support related to permit compliance; 3) operating funds supporting work we do to manage over 40 grants and contracts, and 4) discretionary staff support/project funds we receive each year either through the US EPA from our Clean Water Act Section 320 grant, or from conference fees and donations.

- a. Project funds we are awarded and manage for partners. This includes the FFY 14 portion of the \$20 million that ABAG/SFEP was recently awarded for a Proposition 84 IRWMP Implementation Grant from DWR, which we manage on behalf of 19 partners; the \$400,000 that we manage for the Delta Science Program; and the funds we manage for projects being accomplished by more than 40 other partners working under grants received by SFEP.
- b. Agency contract funds for staff -technical support related to permit compliance. \$829,512 is the total for FY 2014, to fund 7 staff positions supporting the Regional Water Board for permit assistance. Two of these positions are slated to transition to Water Board staff in 2014,
- c. Grant management operating funds. This year SFEP will charge staff time of approximately \$1.38 million to the over 40 grants we manage for ourselves and for our partners.
- d. Discretionary funding of \$624,401 includes the annual NEP EPA funds of \$538,000 as well as funds raised from the biennial State of the Estuary Conference.



**Clean Water Act Section 320 Funding.** Our EPA FFY 14 allocation will be **\$538,000** – 27 percent of SFEP’s total operating budget (total of grant management and discretionary funds: \$1,982,349). These highly leveraged National Estuary Program dollars provide partial support for salary, benefits, and other fixed costs for 10 core staff. An additional 4-5 staff work under agreements with local agencies or entities on clean water efforts, and also focus on CCMP implementation. Their work is reflected in this work plan. ((See staffing details in Attachment 2)).

**Match Funds.** Our Section 320 funding requires 50 percent match. The San Francisco Bay Regional Water Quality Control Board provides match for this funding through in-kind support for office space, computers, phones, mailing, supplies, etc. The value of these essential benefits to the Partnership is estimated to total over **\$938,000** annually. Local agency contracts for technical support related to permit compliance also contribute to the **NEP leveraged funds** (funds



above the required match). Additionally, ABAG provides direct project match as well as in-kind support for financial statements, payable reports, invoicing, and legal assistance.

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

## THE STRATEGIC PLAN: 2014 – 2018 GOALS

### **Goal 1: Build Estuary readiness to deal with the effects of climate change**

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

### **Goal 2: Increase watershed health**

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

### **Goal 3: Improve water quality**

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

### **Goal 4: Champion the Estuary**

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

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

## 2014-2015 WORK PLAN: IMPLEMENTING THE STRATEGIC PLAN

This Work Plan is divided into sections related to the 5 Strategic Goals. Work under each Goal is organized into areas of effort. Projects in each area are categorized as follows:

- **Manage and Implement Current SFEP-led Projects.** Projects for which SFEP staff are the overall lead or contribute substantially (X.A.1)
- **Manage and Assist Current Partner-led Implementation Efforts.** Projects for which SFEP is not the day-to-day lead but provides oversight, coordination and grant management support (X.A.2)
- **Potential New Initiatives.** Priority areas for new efforts, should funding be secured (X.A.3)

### GOAL 1: BUILD ESTUARY READINESS TO DEAL WITH THE EFFECTS OF CLIMATE CHANGE

#### Objectives:

- Support research and analysis into effects of climate change on the ecology of the estuary
- Support and implement stream, wetland, riparian and fluvial/tidal restoration
- Implement multi-benefit climate adaptation strategies including flood protection
- Support sediment/sand research and policy development
- Refine existing and create new environmental indicators to measure and report health of the estuary

#### Measures of Success:

- Acres of restored habitat
- Refined estuary health indicators

#### Key successes of the previous year:

- The SF Bay Restoration Board is ready to vote in late May on the question of if there should be a ballot measure to fund wetland restoration in 2014 which would provide a substantial increase in restoration funds.
- SFEP reported that over 29,000 acres of regional wetlands were improved (25K spartina removal) and restored last year and estimates that regional agencies and NGOs will restore nearly 1490 acres in the next FFY
- The Stanley Reach re-oaking project has nearly completed a mile of stream restoration which will be a model project in the Livermore valley area. (see 1.A.2.a below)
- An update to the 2011 State of the Estuary Report is now underway; work will include the review, refinement and creation of new benchmarks and indicators with an emphasis on climate change impacts.
- Creosote pilings are being pulled from San Francisco Bay, implementing the Subtidal Habitat Goals Report with a \$2 million grant from the National Fish and Wildlife Federation to the Coastal Conservancy.

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

#### 1.A.1 Manage and Implement Current SFEP-led Projects

Actions/projects	Activities	Timeline	Resources
a) Support research and analysis into effects of climate change on the ecology of the estuary	Staff the Joint Policy Committee Support Goals studies and revisions Coordinate ABAG's efforts with other agencies on the Resilient Shorelines Program	Quarters 1-4	\$320 funding/State bond money through ABAG

Actions/projects	Activities	Timeline	Resources
b) Support the SF Bay Restoration Authority.	Staff support to the Board of the Authority as it carries out its mission to find local funding for regional wetland restoration. Continue to support RA	Quarters 1-4	\$320 funding
c) Refine existing and create new environmental indicators to measure and report health of the estuary	Reconvening indicator science team and beginning the process of indicator evaluation, refinement, and additions. A <i>State of the Estuary Report 2015</i> is underway.	Quarters 1-4	\$320 funding
d) Creek Mouth Assessment Tool	Create a user-friendly online web tool that will help agencies, organizations and volunteer stewardship groups understand both regional opportunities and constraints for creek mouth restoration/flood protection projects. Phase I completed; considering next steps and funding needs	Quarters 1-4	Needs additional funds
e) Provide Regional Board Stream and Wetland Protection amendments for SF Bay Water Quality Control Plan (Basin Plans)	Develop a Stream and Wetland Protection Basin Plan amendment for public review and comment. SFEP staff works with the Regional Board to develop an amendment to the Water Quality Control Plan for the San Francisco Bay Region to protect streams and wetland systems. The amendment will be accompanied by a Staff Report to support the public review process	Quarters 1-4	EPA grant funds
f) Statewide Wetland Area Protection Policy	Continue coordination between State and Regional Board efforts; provide technical support to State Board on key Policy elements including a revised wetland definition, procedures for the review of proposed discharges of dredge and fill material to wetlands, and the use of a watershed approach.  Phase 2 of the policy is being developed and is proposed to include wetland beneficial uses, water quality objectives, and water quality control activities/practices that can be	Quarters 1-4	EPA grant funds



<ul style="list-style-type: none"> <li>• Bay Point Stormwater and Flood Reduction Strategies Pilot Project</li> <li>• Richmond Shoreline &amp; San Pablo Flood Project</li> <li>• San Francisquito Watershed Design Curves</li> <li>• Pescadero Integrated Flood Reduction and Habitat Enhancement Project</li> <li>• SFEI Flood Infrastructure Mapping &amp; Communication Tool</li> <li>• Napa Co Milliken Creek Flood Damage Reduction</li> <li>• Oakland Sausal Creek Restoration</li> <li>• Petaluma Flood Reduction, Water and Habitat for Capri Creek</li> <li>• Redwood City Bayfront Canal Flood Management and Habitat Restoration</li> <li>• Richmond Breuner Marsh Restoration</li> <li>• San Francisco Bay Climate Change Pilot Projects (including Oro Loma Ecotone)</li> <li>• San Pablo Rheem Creek Wetlands Restoration</li> <li>• St. Helena Upper York Creek Dam Removal and Ecosystem Restoration</li> </ul>			DWR Integrated Regional Water Management Plan (IRWMP) Phase 2 implementation grant
<ul style="list-style-type: none"> <li>• Coastal Regional Sediment Management Plan for SF Littoral cell</li> </ul>	<ul style="list-style-type: none"> <li>• Lead public outreach and coordinate public comment on Plan</li> <li>• Investigate governance structure, possible lead for ABAG to coordinate post-Plan RSM activities</li> <li>• Pending approval of additional funding proposal: Activities as above</li> </ul>	Quarters 1-4	Dept. of Boating & Waterways U.S. Army Corps of Engineers



Actions/projects	Activities (vary by project)	Timeline	Resources
<b>1.A.3 Potential New Initiatives</b>			
a) Develop and implement methodology to measure and credit climate change adaptation benefits from wetland restoration projects	<ul style="list-style-type: none"> <li>• Identify and secure funding</li> <li>• Identify potential partners and projects</li> <li>• Further develop and refine project</li> </ul>	Quarter 4	<i>\$320 funding</i> New funding
b) Phase 2: Evaluate creek mouth restoration projects	<ul style="list-style-type: none"> <li>• Identify and secure funding</li> <li>• Complete regional assessment of creek mouth restoration opportunities</li> <li>• Identify potential partners and projects</li> <li>• Further develop and refine projects</li> </ul>	Quarter 3	<i>\$320 funding</i> New funding

## GOAL 2: INCREASE WATERSHED HEALTH

### Objectives:

- Build, promote and support community based approaches to watershed protection, restoration and stewardship
- Increase watershed management capacity of local governments
- Support implementation and management of the state aquatic invasive species management plan
- Support and promote new water use conservation methods
- Support efforts to restore adequate flows to bay tributaries

### Measures of Success:

- Increased number of watershed restoration projects
- Acre feet of water conserved by new water conservation projects

### Key successes of the previous year:

- SFEP awarded \$50,000 in micro and small grants to 20 entities for projects that supported watershed improvement to eleven Bay Area watersheds; funds went to local creek groups, non-profits, and special districts working in watersheds across the Bay Area.
- Even prior to the Governor's drought announcement(s), SFEP partners have been implementing innovative projects to recycle wastewater or increase water supplies through conservation programs. Several of the IRWMP funded projects are included below: Regional Water Conservation Project, SFPUC regional groundwater storage and recovery project; San Francisco International Airport Industrial Waste and Reclaimed Water Facility; East Bayshore recycled water pipeline (EBMUD); North Bay Water Reuse Program-SCWA and Roseview Heights Water Supply Infrastructure Upgrades.
- Friends of the Estuary, with SFEP support, has worked with Napa, Sonoma, Marin and Contra Costa and other counties on Resolutions calling for increased freshwater flows. Resolutions are being discussed in Sacramento as the region weighs in more heavily on State Board's actions on Bay Delta flow allocations

## 2.A. SFEP Watershed Program

### 2.A.1 Manage and Implement Current SFEP-led Projects

Actions/projects	Activities	Timeline	Resources
Watershed Program	<ul style="list-style-type: none"> <li>• Managing currently funded IRWMP Prop 84 Disadvantaged Communities projects and assist with IRWMP update outreach.</li> <li>• Coordinate the Bay Area Watershed Network (BAWN) and its working groups.</li> <li>• Maintain BAWN online resources.</li> <li>• Awarded \$50,000 in micro and small grants to 11 entities to make watershed improvements</li> <li>• Project management ongoing and basic support for BAWN, but funding has ended for other program efforts</li> </ul>	Quarters 1-4	DWR Integrated Regional Water Management Plan Implementation Grant-Prop 84 <i>\$320 funding</i>

## 2.A.2. Manage and Assist Current Partner-led Implementation Efforts

Actions/projects	Activities	Timeline	Resources
<ul style="list-style-type: none"> <li>• Lagunitas Creek Watershed Sediment Reduction &amp; Management</li> <li>• Marin/Sonoma: Conserving Our Watersheds: Agricultural BMP project</li> <li>• Pescadero Water Supply and Sustainability project</li> <li>• Students and Teachers Restoring a Watershed (STRAW)</li> </ul>	<ul style="list-style-type: none"> <li>• Monitor project progress</li> <li>• Review &amp; submit quarterly reports and invoices</li> <li>• Provide administrative support and management</li> <li>• Coordinate sub-recipient activities</li> <li>• Manage contracts for implementation of project - specific actions</li> <li>• Review and submit draft and final reports</li> </ul>	<p>Efforts began in spring 2014</p> <p>Local project sponsor (sub-recipients) agreements expected July 2014</p>	DWR Integrated Regional Water Management Plan (IRWMP) Phase 2 implementation grant

## 2.B. Aquatic Invasive Species

### 2.B.1. Manage and Implement Current SFEP-led Projects

<ul style="list-style-type: none"> <li>• National Aquatic Nuisance Species Task Force</li> <li>• Western Regional Panel (WRP) on Aquatic Nuisance Sp.</li> <li>• The Marine Invasive Species Program's Tech. Advisory Com</li> <li>• Quagga-Zebra Mussel Action Plan Team</li> </ul>	<p>Provide continued staff support to panels and programs. Key activities include:</p> <ul style="list-style-type: none"> <li>• Developing new policies and programs to reduce the spread of aquatic invasive species</li> <li>• Developing and reviewing regional and species management plans</li> <li>• Prioritizing key activities for implementation and funding</li> <li>• Coordinating activities at the federal, state, and local levels</li> <li>• Staff attends Fall and Spring ANS Task Force Meetings, the Annual WRP meeting held in the fall, and MISP meetings and QZAP meetings as they are scheduled.</li> <li>• The following document was just released and was a part of the WRP efforts: <i>Preventing the Spread of AIS by Recreational Boats: Model Legislative Provisions &amp; Guidance to Promote Reciprocity among State Watercraft Inspection and Decontamination Programs.</i></li> </ul>	Quarters 1-4	<p>§320 funding</p> <p>U.S. Fish &amp; Wildlife Service funding</p>
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## 2.B.2. Potential New Initiatives

Actions/projects	Activities	Timeline	Resources
a) Strengthen early detection programs for aquatic invasive species in the San Francisco Estuary	Partner with Bay Area Early Detection Network and explore other opportunities to expand early detection efforts to wetland and aquatic species	Quarter 1	\$320 <i>funding</i> New funds
b) Expand aquatic invasive species outreach to targeted audiences including: recreational boaters , aquarium hobbyists, water gardeners, live bait distributors, etc.	<ul style="list-style-type: none"> <li>Identify partners</li> <li>Develop program</li> <li>Identify resources</li> <li>Distributing AIS information at boat shows</li> </ul>	Quarter 1	\$320 <i>funding</i> New funds

## 2.C. Water Conservation

### 2.C.1. Manage and Implement Current SFEP-led Projects

Support and promote new methods of water use and conservation within the estuary watersheds	Support current and potential projects	Quarters 1-4	DWR IRWM Prop 84
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### 2.C.2. Manage and Assist Current Partner-led Implementation Efforts

<ul style="list-style-type: none"> <li>SFPUC regional groundwater storage and recovery</li> <li>San Francisco International Airport Industrial Waste and Reclaimed Water Facility</li> <li>East Bayshore recycled water pipeline (EBMUD)</li> <li>Bay Area Regional Water Conservation Project</li> <li>North Bay Water Reuse Program-SCWA</li> <li>Roseview Heights Water Supply Infrastructure Upgrades</li> </ul>	<ul style="list-style-type: none"> <li>SFEP will manage grant projects</li> <li>Monitor project progress</li> <li>Review &amp; submit quarterly reports and invoices</li> <li>Provide administrative support and management</li> <li>Coordinate sub-recipient activities</li> <li>Manage contracts for implementation of project -specific actions</li> <li>Review and submit final reports</li> </ul>	<p>Grant Agreement expected June 2014</p> <p>Local project sponsor (sub-recipients) agreements expected July 2014</p>	DWR Integrated Regional Water Management Plan (IRWMP) Phase 2 implementation grant
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## 2.D. Support Flow Studies and Efforts to Restore SF Bay Flows

### 2.D.1. Manage and Implement Current SFEP-led Projects

Support flow studies and efforts to restore adequate flows in Bay tributary rivers and streams	<ul style="list-style-type: none"> <li>Continue distribution of SFEP Flows Fact Sheet</li> <li>Provide annual updates of fish and flows analysis</li> </ul>	Quarters 1-4	\$320 <i>funding and work in partnership with The Bay Institute and Friends of the Estuary</i>
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	<ul style="list-style-type: none"> <li>• Continue to brief local elected officials on importance of adequate flows</li> <li>• With partners, complete new report: <i>The Case for the Bay</i> summarizing the need for freshwater in the Bay.</li> </ul>		
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## GOAL 3: IMPROVE WATER QUALITY

### Objectives:

- Implement the Clean Water Act by supporting TMDL development and implementation across the region.
- Expand existing SFEP programs and projects to focus on water quality improvements.
- Develop and implement well-designed and effective LID (green infrastructure) projects to reduce stormwater pollution throughout the region.

### Measures of Success:

- Increase in regional TMDL implementation projects
- Increase in use of LID facilities throughout the region

### Key successes of the previous year:

- Initiation of Green Plan Bay Area to help local agencies site/ plan for LID within a watershed context.
- Planning near completion on San Pablo Spine projects and City of Campbell Hacienda Green Streets
- Completion of monitoring efforts on Fremont Tree Well Filters and San Francisco Newcomb Avenue Projects (final reports pending).
- Completion of the Fish Friendly Farming Project with the California Land Stewardship Institute, certifying 138 sites, totaling 14,533 acres of land where BMP's were put in place to reduce sediment discharge into the Napa River Watershed, representing 16% of the total vineyard acreage.
- Removal of approximately 800 cy of over-steepened mercury mine waste from the Hicks Flat creek slope in the Mid-Peninsula Regional Open Space District's Sierra Azul Open Space Preserve.
- Completion of the restoration of a 300 ft tributary to Warner Creek located in Boyle Park to implement the Richardson Bay Pathogen TMDL, a project in partnership with Marin County.

## 3.A. TMDL /Pollution Prevention Implementation

### 3. A.1 Manage and Implement Current SFEP-led Projects

Actions/projects	Activities	Timeline	Resources
a) Implement and Track Bay Area Urban Creeks Toxicity/ Pesticides TMDL Project: Greener Pesticides for Cleaner Waterways campaign (GPCW)	For GPCW: Reduce household pesticide use through regional outreach campaign building on Our Water Our World program and Got Ants? materials.	Quarters 1-4	CA Dept. of Pesticide Regulation grant San Francisco Bay Water Quality Improvement Funds \$320 funding
b) Support Bay Area municipalities' efforts to reduce trash in local creeks and the Bay	Expand Trash Tracker website to include trash hotspots and cleanup events	Quarters 1-4	Prop 84 grant
c) Coordinate Supplemental Environmental Projects (Water quality implementation projects funded through RWQCB fines)	<ul style="list-style-type: none"> <li>• Provide project oversight</li> <li>• Coordinate with Water Board staff</li> <li>• Maintain lists of potential and completed projects</li> <li>• Provide project selection assistance to dischargers</li> </ul>	Quarters 1-4	SF Bay Regional Water Board Administrative Civil Liability actions

Actions/projects	Activities	Timeline	Resources
d) Implement boater education program under the Clean Vessel Act: Increase pump-out usage and awareness among boating community	<ul style="list-style-type: none"> <li>• Edit, reprint and distribute pump-out maps and other outreach materials</li> <li>• Survey and report on condition and use of current pump-outs in the Bay-Delta region.</li> <li>• Work with marinas, boaters and stakeholders to develop a BMP and best technologies toolkit that can be used by other marinas throughout the bay and delta</li> <li>• Host Honey Pot Day events in the bay and delta to educate boaters on sewage related issues</li> <li>• Develop phone tree for boaters to report inoperable pumpouts</li> </ul>	Quarters 1-4	State Dept. of Parks and Recreation, Boating and Waterways CVA Grant
<b>3.A.2 Manage and Assist Current Partner-led TMDL Implementation Efforts</b>			
<ul style="list-style-type: none"> <li>• Richardson Bay Pathogen TMDL Implementation</li> <li>• Implement Sediment TMDLs in Marin, Napa, and Sonoma Counties</li> <li>• Implement Pathogen TMDLs in Napa County</li> <li>• North Richmond Stormwater Diversion Project</li> <li>• Senador Mine Mercury Waste Remediation (Guadalupe R. watershed mercury TMDL)</li> <li>• Calcine Paved Roads remediation</li> </ul>	<ul style="list-style-type: none"> <li>• Complete monthly/ quarterly/semi-annual progress reports</li> <li>• Manage subcontracts/ sub-recipients</li> <li>• Perform site visits</li> <li>• Review and manage specific project actions</li> <li>• Process invoices and billings</li> <li>• Provide contracting support</li> <li>• Produce final project reports</li> </ul>	Quarters 1-4	SF Bay Water Quality Improvement Fund (EPA)

### 3. A.3 Potential New Initiatives

Actions/projects	Activities	Timeline	Resources
a) Expand Focus of Clean Boating Program.	<ul style="list-style-type: none"> <li>Research and work with partners</li> <li>Research funding sources.</li> <li>Determine which areas are not being addressed adequately and where SFEP can contribute. Examples: Anti-fouling paints, chemical use in boating, invasive species, oil and fuel disposal</li> </ul>	Dependent on staff availability and new funding/partnerships	DBW or DPH/EPA or others Partnership with SFEI or educational institutions
b) Coordinate Guadalupe Hg TMDL implementation - Los Alamitos Creek Reach.	<ul style="list-style-type: none"> <li>Attend pre-planning meetings with EPA and others</li> <li>Identify how SFEP can contribute; assist with grant applications and other communications.</li> </ul>	Dependent on new funding	New funding
c) Facilitate regional purchasing of full trash capture devices	<ul style="list-style-type: none"> <li>Issue Request for Proposals</li> <li>Identify appropriate devices and make available to ABAG member municipalities</li> <li>Pursue opportunities to apply for additional funding for device installation and trash monitoring</li> </ul>	Quarters 1-4	\$320 <i>funding</i> Municipal funding

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

#### 3.B.1. Manage and Implement Current SFEP-led Implementation Efforts

a) Design and implement the San Pablo Avenue Green Stormwater Spine	Continue to work with 7 cities and contractors on the design and construction of spine sites, and conduct outreach.	Quarters 1-4	DWR IRWMP Prop 84 Implementation grant SF Bay Water Quality Improvement Fund (EPA) Caltrans CA Natural Resources Agency-UGC Cities
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<b>Actions/projects</b>	<b>Activities (vary by project)</b>	<b>Timeline</b>	<b>Resources</b>
b) Continue to staff LID Leadership Group	Continue to work with and implement the ideas of (as funding allows) the SFEP/ABAG LID Leadership Group.	Quarters 1-4	DWR IRWMP Prop 84 Implementation grant
c) IRWMP planning to facilitate green infrastructure (and multi-benefit project) implementation	Work with the newly created IRWMP sub-regions and continue to identify ways to increase green infrastructure implementation	Quarters 1-4	DWR IRWMP Prop 84 Implementation grant
d) Green infrastructure outreach	<ul style="list-style-type: none"> <li>• Organize/host green infrastructure tracks at conferences</li> <li>• Collaborate with the California Stormwater Quality Association on updates to LID handbook</li> <li>• Review, compile, organize specs/BMPs to make green infrastructure projects easier to bring on line</li> <li>• Participate in newly organized BASMAA Green Streets Workgroup</li> </ul>	Quarters 1-4	<i>§320 funding</i> DWR IRWMP Prop 84 Implementation grant SWRCB Prop 84
e) GreenPlan Bay Area: LID siting and planning with local governments	In concert with SFEI, assist local governments in siting LID features; and developing GreenPlans that institutionalize the placement of such features	Quarters 1-4	<i>§320 funding</i> SWRCB Prop 84
f) Green infrastructure capacity-building.	Assist local governments with strategizing how to partner and fund green infrastructure projects.	Quarters 1-4	<i>§320 funding</i> DWR IRWMP implementation grant SWRCB Prop 84
g) Update green infrastructure web tools	Add green infrastructure materials to SFEP website; include recent monitoring and evaluation results from current projects.	Quarters 1-4	<i>§320 funding</i>

### 3.B.2. Manage and Assist Current Partner-led Implementation Efforts

Actions/projects	Activities (vary by project)	Timeline	Resources
<ul style="list-style-type: none"> <li>• City of San Francisco Newcomb Ave. Greening</li> <li>• City of Fremont Tree Well Filter Monitoring</li> <li>• City of Campbell Hacienda Green Street</li> <li>• San Jose Green Streets and Alleys Demonstration project</li> </ul>	<ul style="list-style-type: none"> <li>• Quarterly reports</li> <li>• Site visits</li> <li>• Support and oversee San Francisco Estuary Institute monitoring efforts</li> <li>• Manage sub-recipients' project implementation contracts</li> <li>• Publicize projects</li> <li>• Hold tours and forums</li> <li>• Prepare final report</li> </ul>	Quarters 1-4	SF Bay Water Quality Improvement Fund (EPA)  DWR IRWMP Phase 1 implementation grant DWR IRWMP Phase 2 implementation grant

### 3.B.3 Potential New Initiatives

a) Develop homeowners' or municipal building rain garden program	Develop contest and pilot program for homeowners (4 in 2 counties) to implement rain gardens	Dependent on staffing availability	<i>\$320 funding</i>
b) Develop cost/benefit analysis for green infrastructure projects in Bay Area.	Find and secure funding to hire environmental economist to conduct cost/benefit analysis of regional green infrastructure projects.	Dependent on availability of staffing, funding	<i>\$320 funding</i> New funding

## GOAL 4: CHAMPION THE ESTUARY

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

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

### Objectives:

- Promote public involvement in estuary protection through redesigned interactive website
- Educate the community through the biennial State of the Estuary Conference
- Create and publish the 2015 State of the Estuary Report

### Measures of Success:

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

### Key successes of the previous year:

- Publication of 20<sup>th</sup> Anniversary CCMP Review in *Estuary News* magazine (October 2013)
- 11<sup>th</sup> Biennial State of the Estuary Conference (October 2013) with over 800 attendees first joint effort with the SFEI Regional Monitoring Program deemed a great success.
- Web traffic greatly increased during 2013; from an average of 113 viewers per day from October 2012-March 2013 to 429 viewers per day for the period of April- October 2013
- *Estuary News Magazine* is now largely funded by SFEP partner agencies after a very successful outreach effort to secure broader funding support for the publication.

## 4.A Manage and Implement Current SFEP Efforts

Actions	Activities	Timeline	Resources
a) Increase public outreach through redesigned website and <i>Estuary News</i> publication	<ul style="list-style-type: none"> <li>• Continue to update and upgrade SFEP website</li> <li>• Leverage information from SOE, <i>Estuary News</i>, etc. for increased outreach and awareness</li> </ul>	Quarters 1-4	<i>\$320 funding</i>
b) Support SFEP projects with enhanced GIS capability	Develop GIS mapping for key Partnership projects and efforts	Quarters 1-4	<i>\$320 funding</i> Grant funds when appropriate
c) Produce print media promoting the Partnership's projects and programs, building public support for a healthy estuary	<ul style="list-style-type: none"> <li>• <i>Estuary News Magazine</i> Columns in Service Matters (ABAG newsletter)</li> </ul>	Quarters 1-4	<i>\$320 funding</i> Appropriate grant funds and subscriptions
d) Produce project-specific podcasts and public service announcements	Topics to be chosen as projects are completed	Quarters 1-4	<i>\$320 funding</i> Appropriate grant funds
e) Use/enhance online/social media	Continue to support: <ul style="list-style-type: none"> <li>• SFEP Website</li> <li>• <i>Estuary Report</i> video podcasts</li> <li>• SFEP Facebook page</li> </ul>	Quarters 1-4	<i>\$320 funding</i> Appropriate grant funds/ (summer 2014 intern shared with Friends of the Estuary)
f) Commemorate significant dates by highlighting Partnership work	National Estuaries Day event	Quarters 3 & 4	<i>\$320 funding</i> Appropriate grant funds

<b>Actions</b>	<b>Activities</b>	<b>Timeline</b>	<b>Resources</b>
g) Sponsor, plan, and conduct forums, workshops, tours, presentations and conferences	<ul style="list-style-type: none"> <li>• Conduct subregional conferences for local government officials and staff to disseminate the results of green stormwater demonstration projects</li> <li>• Conduct media event/tour of completed projects to highlight project environmental effectiveness.</li> <li>• Coordinate the Bay Delta Science Conference scheduled for October 28-30, 2014.</li> <li>• Plan the State of the Estuary Conference for the Fall of 2015.</li> </ul>	Quarters 1-4	<i>\$320 funding</i> Appropriate grant funds
h) Increase outreach efforts through ABAG.	Continue green infrastructure leadership group; sponsor workshops.	Quarters 1-4	<i>\$320 funding</i> Appropriate grant funds
i) Implement boater education program under the Clean Vessel Act (Increase pump-out usage and awareness among boating community).	Produce and distribute pump-out maps and other outreach materials	Quarters 1-4	State Dept. of Boating and Waterways CVA Grant
j) Greener Pesticides for Cleaner Waterways campaign	Reduce household pesticide use through regional outreach campaign building on Our Water Our World program and Got Ants? materials.	Quarters 1-4	SF Bay Water Quality Improvement Fund (EPA)



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

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

### Objectives:

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

### Measures of Success:

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

### Key successes of the previous year:

- SFEP has been awarded a total of \$21.6 million during the period from October 1, 2013 to April 30, 2014 (1/2 way through this FFY) and has an additional 5 applications pending (4 to US EPA and one to the SWRCB for SRF funding). We continue to expand our list of working partners and diversify funding
- SFEP continues to pass all audit reviews with no corrective actions required.
- Based on interest by the many regional IRWMP partners, SFEP is considering being the applicant for the next two rounds of IRWMP funding expected to be released over the next 1 to 12 months. Our award management expertise will be supported by an approximate 5% of the IRWMP total, further deepening the SFEP funding portfolio.

### 5.A. Ongoing and Completed Administrative Activities

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

# SAN FRANCISCO ESTUARY PARTNERSHIP OVERVIEW

## PROGRAM ORGANIZATION:

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

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

The **Implementation Committee** (IC) serves as the oversight committee for the Partnership, and advises implementation efforts, helps set priorities, and supports work plans and budgets. Members represent local/state/federal agencies, business/industry, and environmental organizations.

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

## KEY IMPLEMENTATION PARTNERS:

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

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

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

## PROGRAM TRACKING AND REPORTING:

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

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

[The State of the Estuary Conference](#). This biennial, two-day conference examines the ecological status of the estuary and provides opportunities for scientists, decision makers, interest groups, and the public to link SFEP and CCMP implementation activities to other ecosystem management programs and activities. The conference also provides a forum to discuss new research and monitoring data, political and scientific impacts on environmental policy, and priority ecosystem management issues. SFEP produces a summary document on each conference highlighting important findings and issues. The [2013 conference](#) was held October 29-30 2013. During this FFY SFEP will do the planning for and hold the Fall 2015 Conference.

**CCMP Tracking.** In recognition of the 20<sup>th</sup> anniversary of the approval of the CCMP, SFEP released a summary of accomplishments and status of CCMP implementation in the *Estuary News Magazine*

<http://www.sfestuary.org/wp-content/uploads/2013/10/EstOct2013-final-Web.pdf>

This special publication reflects both internal and external evaluations on the extent of CCMP implementation over the past 20 years.

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

## ECOSYSTEM TRACKING: STATUS AND TRENDS:

**State of San Francisco Bay Report 2015** SFEP and its scientific partners are working to update the 2011 State of the Bay Report and after assessing the current report, update as needed and create new ecological and social indicators to characterize the health of the Estuary. The target is to release the 2015 State of the Estuary report at the Fall 2015 State of the Estuary conference.

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

**Monitoring and Reporting on the Bay's Health: The Regional Monitoring Program (RMP)** monitors contamination in the Estuary and provides regulators with information necessary for effective water quality management. It is conducted by our partner, SFEI, and funded by Bay Area regulated dischargers (about \$3 million annually). Results are presented at an annual conference and in the Institute's Annual Monitoring Report. SFEI also publishes the annual Pulse of The Estuary; [http://www.sfei.org/sites/default/files/Pulse%202013%20CECs\(1\).pdf](http://www.sfei.org/sites/default/files/Pulse%202013%20CECs(1).pdf)

a quarterly newsletter; technical reports that document specific studies and synthesize information from diverse sources; and journal publications that disseminate RMP results to the world's scientific community. The SFEI web site provides access to RMP products and links to other sources of information about water quality in San Francisco Bay. A 2012 Pulse of the Delta is also available

[http://www.waterboards.ca.gov/rwqcb5/water\\_issues/delta\\_water\\_quality/comprehensive\\_monitoring\\_program/2012\\_pulse\\_of\\_the\\_delta.pdf](http://www.waterboards.ca.gov/rwqcb5/water_issues/delta_water_quality/comprehensive_monitoring_program/2012_pulse_of_the_delta.pdf)

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

## TECHNICAL ASSISTANCE TO SFEP PARTNER AGENCIES

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

**Technical Support for Water Quality Certification and Waste Discharge Requirement Applications (WDRs).**

Supporting the Water Board, several SFEP, working under contract, provides technical support for reviewing and commenting on 401 permit applications and Waste Discharge Requirements. Typical projects include dredge and fill projects, wetland and flood protection projects, and transportation projects. This work is funded by and supports the

efforts of the San Francisco Public Utilities Commission, the Santa Clara Valley Water District, Marin and Sonoma counties and the Alameda County Clean Water Program,.

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

**SFEP Work Plan: Attachment 1 :FY 2014-2015 ESTIMATED FUNDING**

**Federal fiscal year October 1, 2014-September 30, 2015**

**Note: Budget amounts are estimated allocations of total grant awards projected for receipt during the above fiscal year**

						All Funds FFY 14-15		Total
	GRANT #	PROJECT #	PROJECT	TERM	Funder	Federal	State/Local	
1	Section 320-NEP		SFEP Base Funding Support	10/01/14-09/30/15	US EPA	\$ 538,000		\$ 538,000
2	Regional Board	102015	ACL-SEP Management	07/01/99-----	Regiona Bd Fines		\$ 79,836	\$ 79,836
3		102030	EROSION CONTROL	06/01/06-----	Publication sales		\$ 3,215	\$ 3,215
4	00-107-744	102032	DBW-OUTREACH	01/01/14-12/31/15	CA Dept Boating	\$ 184,000		\$ 184,000
5	A3613S	102036	SCVWD	10/01/12-9/30/2015	Santa Clara Valley Water District		\$ 181,500	\$ 181,500
6	Conference	102065	SOE Conference	07/01/07-----	Fund Raising		\$ 83,186	\$ 83,186
7	Conference	102101	CAFW IEP	07/01/01-ONGOING	Conference fees		\$ 33,000	\$ 33,000
8	WS-96932601-0	102130	WCEI_Green Infill	10/01/08-09/30/2015	US EPA	\$ 119,845		\$ 119,845
9	X7-00T04701-0	102134	Estuary 2100	03/01/09-02/29/2016	US EPA	\$ 387,587		\$ 387,587
10	EM-00T34101-0	102180	Estuary 2100-Phase 2	03/10/10-12/31/16	US EPA	\$ 675,816		\$ 675,816
11	11-149-120	102201	Regional Bd TMDL Support	03/27/12-03/27/2015	Regional Board		\$ 14,635	\$ 14,635
12	EBMUD	102202	EBMUD Permit Writer	06/01/12-06/01/2014	East Bay MUD		\$ 189,448	\$ 189,448
13	11-300-809	102203	DBW- Reg Sed Mgnt	05/07/12-6/30/2014	CA Dept. Boating & Waterways			
14	4600009715	102204	IRWM Green Infrastructure	08/16/11-09/30/2016	CA DWR-Prop 84		\$ 792,894	\$ 792,894
15	4600009715	102205	IRWM- DAC Cts	08/16/11-09/30/2016	CA DWR-Prop 84		\$ 510,431	\$ 510,431
16	00T92401-0	102206	EPA-Flood 2.0 Resilient Habitats	07/01/12-12/01/2015	US EPA	\$ 498,269		\$ 498,269
17	00T97901-0	102207	EPA-Greener Pesticides	09/01/12-10/31/2014	US EPA	\$ 73,477		\$ 73,477
18	U59232-0	102208	SGC_Urban Greening-EC3	08/01/12-12/30/2015	Ca Natural Resources Agency	\$ 437,463		\$ 437,463
19	ASC 1034	102210	ASC 1034-WAPP Support	07/01/12-11/15/2013	Aquatic Science Center	\$ 24,466		\$ 24,466
20	Marin Co	102214	Marin/Smart Permit Writer	11/06/12-07/01/2014	County of Marin/SMART		\$ 182,284	\$ 182,284
21	Caltrans	102215	Caltrans Match for Spine		Caltrans		\$ 1,763,361	\$ 1,763,361
22	Sonoma Co	102220	SCWA-Permit Writer	03/15/13-06/30/2015	Sonoma Co Water Agency		\$ 193,308	\$ 193,308
23	DSC 2081	102222	Delta Science Support	07/01/13-06/30/14	Delta Stewardship Council		\$ 177,018	\$ 177,018
24	12-415-550	102223	SWRCB_GreenPlan-Prop 84	0/01/13-11/30/15	State Water Board		\$ 287,994	\$ 287,994
25	PO 5705	102227	Alameda County Permitting	09/24/13-08/09/18	Alameda Flood Control District		\$ 182,190	\$ 182,190
26	W9-99T03401-0	102230	Calcine Paved Roads	01/13/14-12/31/15	US EPA	\$ 454,344		\$ 454,344
	Various		DWR-IRWMP 2 Implementation	02/04/14-02/04/18	CA DWR-Prop 84		\$ 5,000,000	\$ 5,000,000

Federal Non-NEP	\$ 2,855,267
State/Local	\$ 9,674,300
Total Non-NEP	\$ 12,529,567
State/Local % Total	74%
Federal % Total	26%
NEP % Total	4%
NEP % of Federal	16%

TOTAL \$ 3,393,267 \$ 9,674,300 \$ 13,067,567

May 14, 2014

To: Implementation Committee

From: Caitlin Sweeney/Judy Kelly

**Re: CCMP Revision**

As part of our ongoing work to keep the IC fully informed about progress on developing a new CCMP, attached please find a short document outlining the process for revising the CCMP which the IC steering Committee recently approved. (Sections of that document are also on the CCMP Revision webpage, at [www.sfestuary.org/ccmp-revision](http://www.sfestuary.org/ccmp-revision).)

For the May 21<sup>st</sup> IC meeting, we will focus our discussion on two elements of the revision process.

1. Program Area Subcommittees

We'd appreciate your attention to the discussion in the Process Outline document regarding the new working "program areas" [water, habitat, living resources, ecological processes, and stewardship] for the CCMP. The IC CCMP Steering Committee has agreed to go forward with these working program areas, and we are forming subcommittees for each area. We'd like each subcommittee to include an IC Steering Committee member, a SFEP staff member, and 3-5 additional outside experts. In some of the program areas we expect to further break into working groups where we will delve into specific topics with additional outside participation.

**Please review the description of the proposed program areas and let us know if you would like to volunteer for a subcommittee or have suggestions for other members. We will discuss this briefly at the May 21<sup>st</sup> IC meeting and you are also welcome to contact Caitlin after the meeting.**

2. Prioritization Criteria

The Process Outline document also contains a short discussion and accompanying figure (Figure 3) of the proposed CCMP actions development process. At the next CCMP Steering Committee, we will focus on the "Prioritization Criteria" (i.e., the screen through which we will view all proposed actions and select final CCMP actions)—a process represented in Figure 3 by the arrow between "possible" and "final" actions. In preparation for that discussion, we are asking for your feedback on proposed prioritization criteria topics. Your feedback on the topics will assist the Steering Committee in further refining and defining the prioritization criteria.

The proposed prioritization criteria topics are based on several sources. First, recall that an "IC Ad Hoc Project Selection Committee" was formed in 2009 to establish guidelines to help SFEP develop, select, and find funding for projects. The Committee developed criteria for screening and selecting viable projects, some of which are reflected below.

The second source for the proposed criteria comes from the process SFEP staff undertook in preparation for the 2008 SFEP Strategic Plan when staff analyzed the status, relevance, and overlap among the current CCMP actions, and reviewed every action against a set of criteria, some of which are also reflected below.

Finally, we reviewed the CCMPs of other estuary programs and gathered available information on how they determined priority actions.

**Please review the following draft prioritization criteria topics and be prepared to provide feedback at the May 21<sup>st</sup> IC meeting. We are specifically looking for suggestions for important topics that are missing as well as relevancy/importance of the topics we have proposed.**

**Draft CCMP Action Prioritization Criteria Topics**

- Effectiveness in Meeting Goal(s)
- Probability of Success/Feasibility
- Level of Benefit
- Level of Need/Importance
- Measurable Results (within a specific timeframe)
- Strengthens Partnerships/Promotes Leveraging
- Relationship to Other Actions/Interdependency



# 2014-16 Comprehensive Conservation and Management Plan Revision

## PROCESS OUTLINE

### 1. Overview

The revision of the current CCMP is guided by the following key objectives:

- Implement a focused and strategic revision process that results in a list of less than 50 priority actions
- Increase coordination and integration between Bay and Delta
- Acknowledge key publicly-vetted goals and actions developed since initial CCMP was created
- Include measurements to track progress for all actions (based, to the extent possible, on currently available data and on targets that have high public interest) and develop tracking tool
- Integrate the State of the Estuary Report, State of the Estuary Conference, SFEP's Strategic Plan and the CCMP – Plan, Implement, Monitor, Assess (adaptive management cycle – see Figure 1, below)

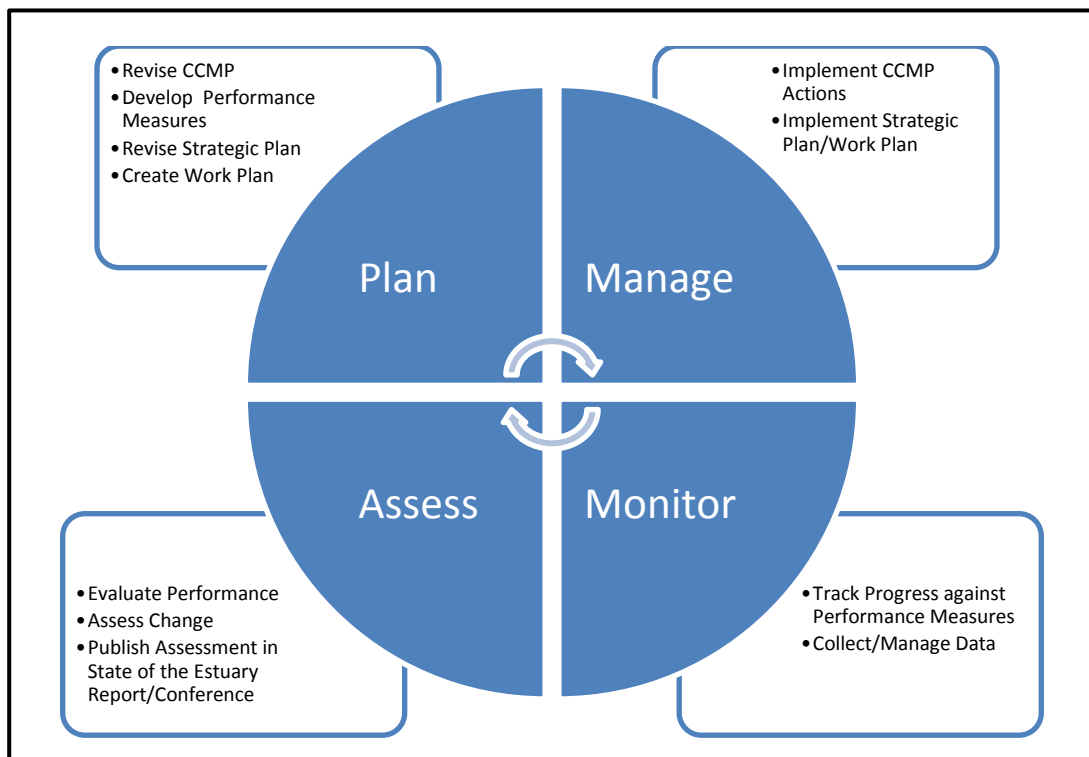


Figure 1. Adaptive Management Cycle for SFEP

## 2. Roles and Responsibilities

**SFEP Implementation Committee (IC):** Provide overall guidance, interim input, and final approval of revised CCMP.

**IC CCMP Steering Committee:** Comprised of volunteers from IC. The Steering Committee will guide and direct the overall update, as representatives of the IC. The Steering Committee will also help with the formation of Program Area Subcommittees (see below) by participating directly within subcommittees and/or helping to identify other appropriate individuals from outside SFEP staff, the IC and the Steering Committee to join subcommittees. Steering Committee members who participate within subcommittees will assist with developing content for the revised CCMP. All Steering Committee members will review draft content.

**Program Area Subcommittees:** Five working Program Areas (see #4, below) comprised of Steering Committee members, SFEP staff, and outside experts. Serve as working committees to develop draft goals, actions and performance indicators for the revised CCMP with overall guidance on process and format provided by SFEP staff.

**SFEP Staff:** Manage entire CCMP revision process, including: developing agendas for and facilitating Steering Committee meetings; providing guidance for and participating directly on Program Area Subcommittees; and compiling and editing all content.

**General Public:** Interested parties not on the Steering Committee or Program Area Subcommittees will provide feedback and comments on interim products as well as on the final draft of the revised CCMP. SFEP will engage partners and interested parties through the SFEP website, meetings, workshops, and email mailing lists.

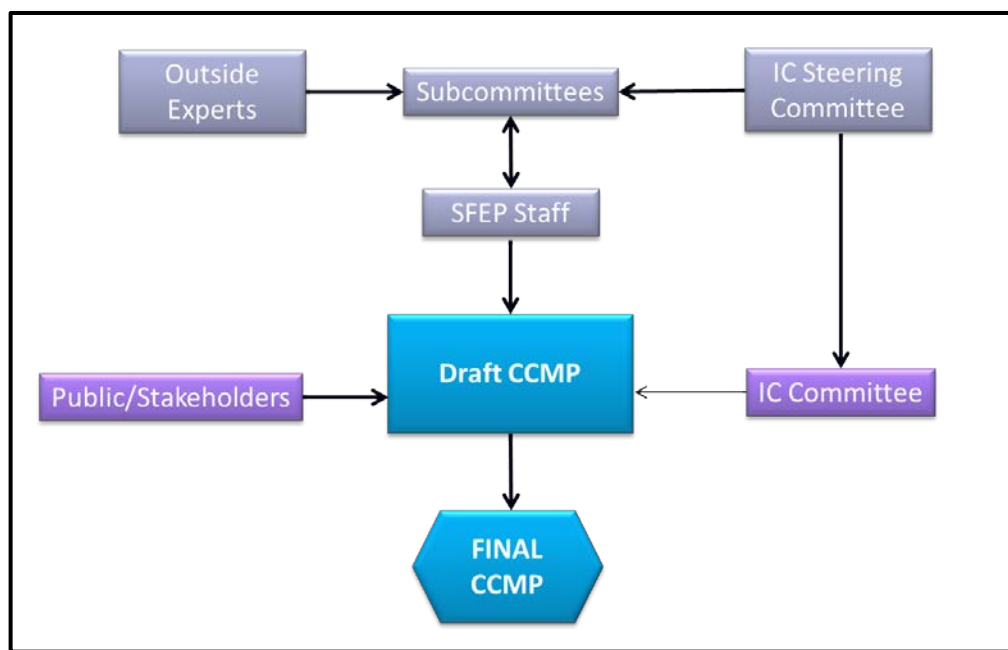


Figure 2. CCMP Revision Flowchart

### 3. Content Development Process

SFEP first completed its CCMP in 1993. It was updated in 2007, through a process of updating background information, deleting goals and actions that were no longer relevant, and adding new goals and actions. The current revision of the CCMP is a major revision of both content and format. However, the process will include an analysis of the current CCMP in terms of what has been accomplished, what has not been accomplished but is no longer relevant, and what still needs to be accomplished. In addition, the revision will draw upon the major regional policy documents and action plans that have been developed since 1993 and will recognize and incorporate as appropriate goals and policies within those plans. In addition, SFEP is currently revising its 2011 State of the San Francisco Bay report. The revised report (the 2015 State of the Estuary Report) will identify key challenges in the Estuary that the CCMP should address.

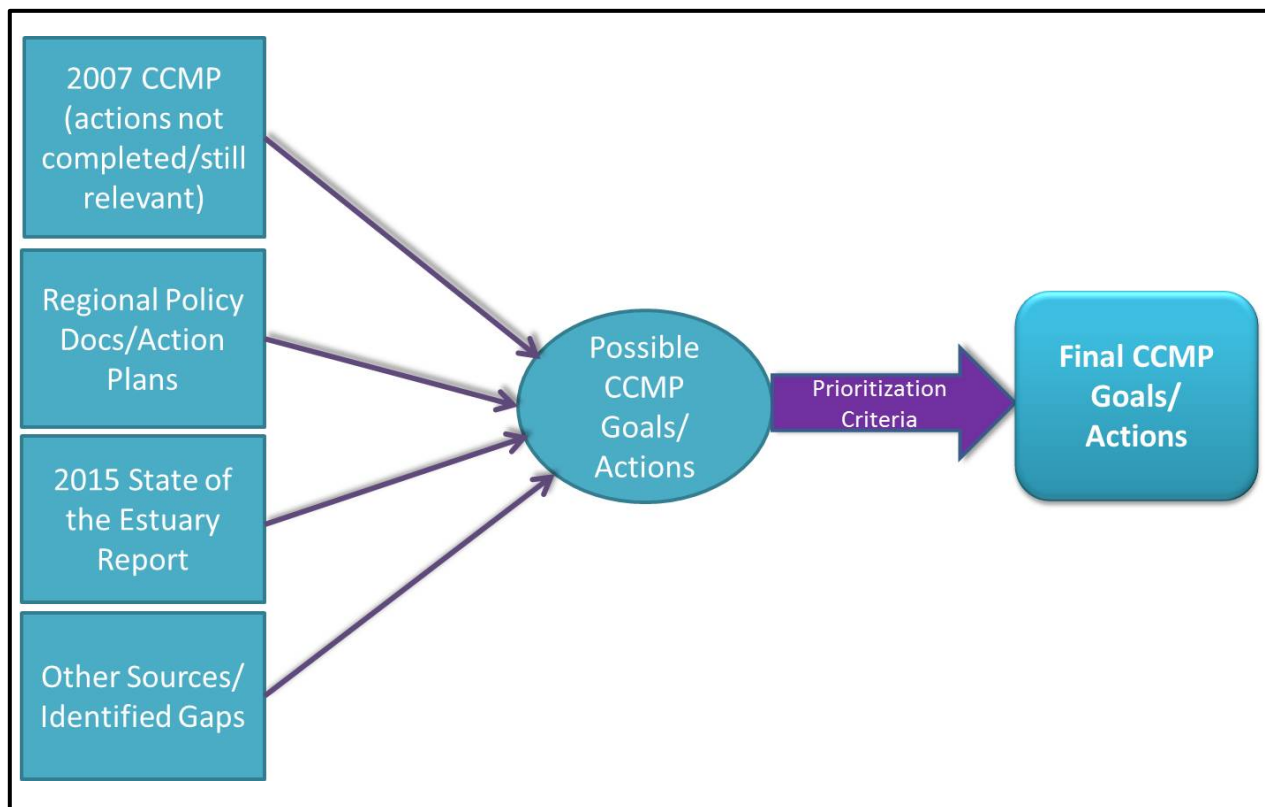


Figure 3. CCMP Goals and Actions Flowchart

#### 4. Revised Program Areas

The working program areas for SFEP's new CCMP come directly from the 2011 State of the Bay Report, which is based on the guidance of the US EPA's Science Advisory Board on the key attributes of an estuary. The key attributes of a healthy estuary are interacting parts of an ecosystem that influence each other directly and indirectly.

Subcommittees will be formed based on the five following program areas. In addition, it is expected that each subcommittee will be further broken down into topic area working committees as needed to develop specific objectives and actions.

- a. **Water.** Water includes both the amount of water and its chemical quality.
- b. **Physical Habitats.** The physical habitats of the Estuary include tidal marshes and tidal flats, upland transitional zones, managed ponds, estuarine open water, subtidal habitat, and the local watersheds that drain to the Bay.
- c. **Living Resources.** The living resources of the Estuary include invertebrates, fish, birds, and other wildlife.
- d. **Ecological Processes.** The active processes that link the physical, biological and chemical components of the Estuary, such as the cycling of nutrients and predator-prey interactions that are part of the food web.
- e. **Stewardship.** Individual and community actions that reduce adverse impacts on the ecosystem. Stewardship includes actions by volunteers as well as regulators, managers, and the regional community, such as cities, counties, and industry.

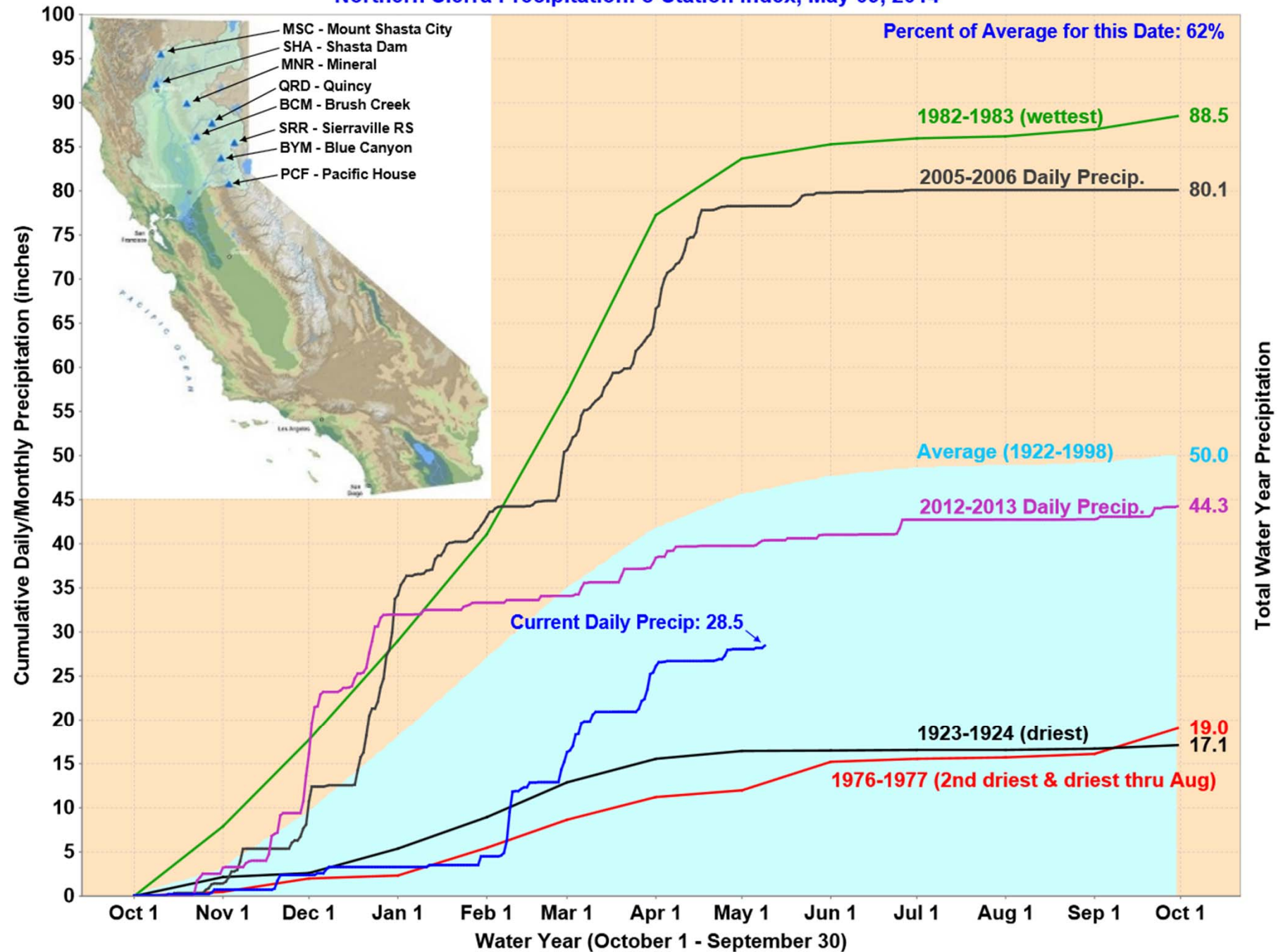
**Climate change** considerations will be integrated into all of the program areas.

#### 5. Timeline

The revision process commenced in January, 2015 and the new CCMP is expected to be completed, approved, and distributed by April 1, 2016.

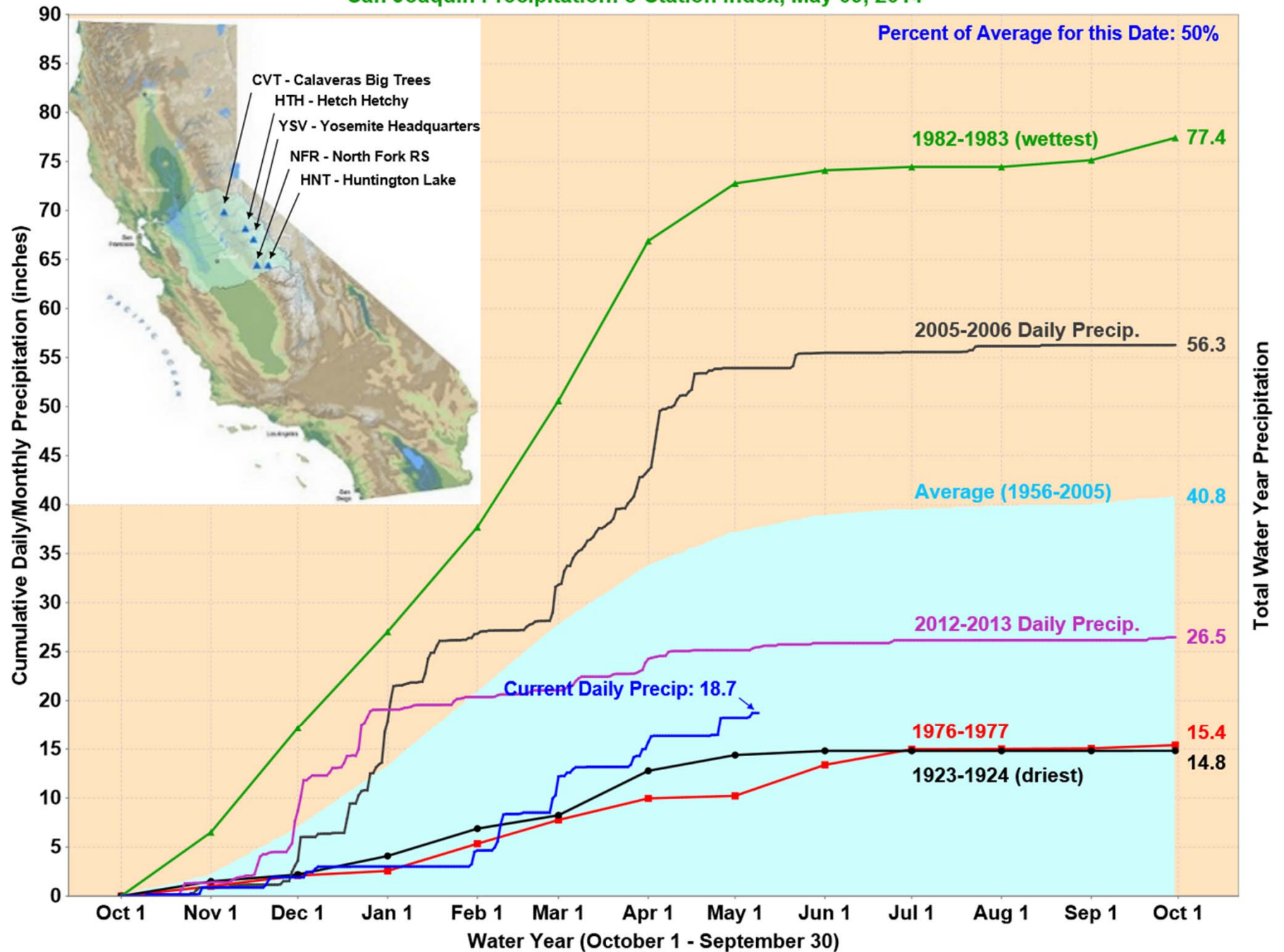


# Northern Sierra Precipitation: 8-Station Index, May 09, 2014





## San Joaquin Precipitation: 5-Station Index, May 09, 2014

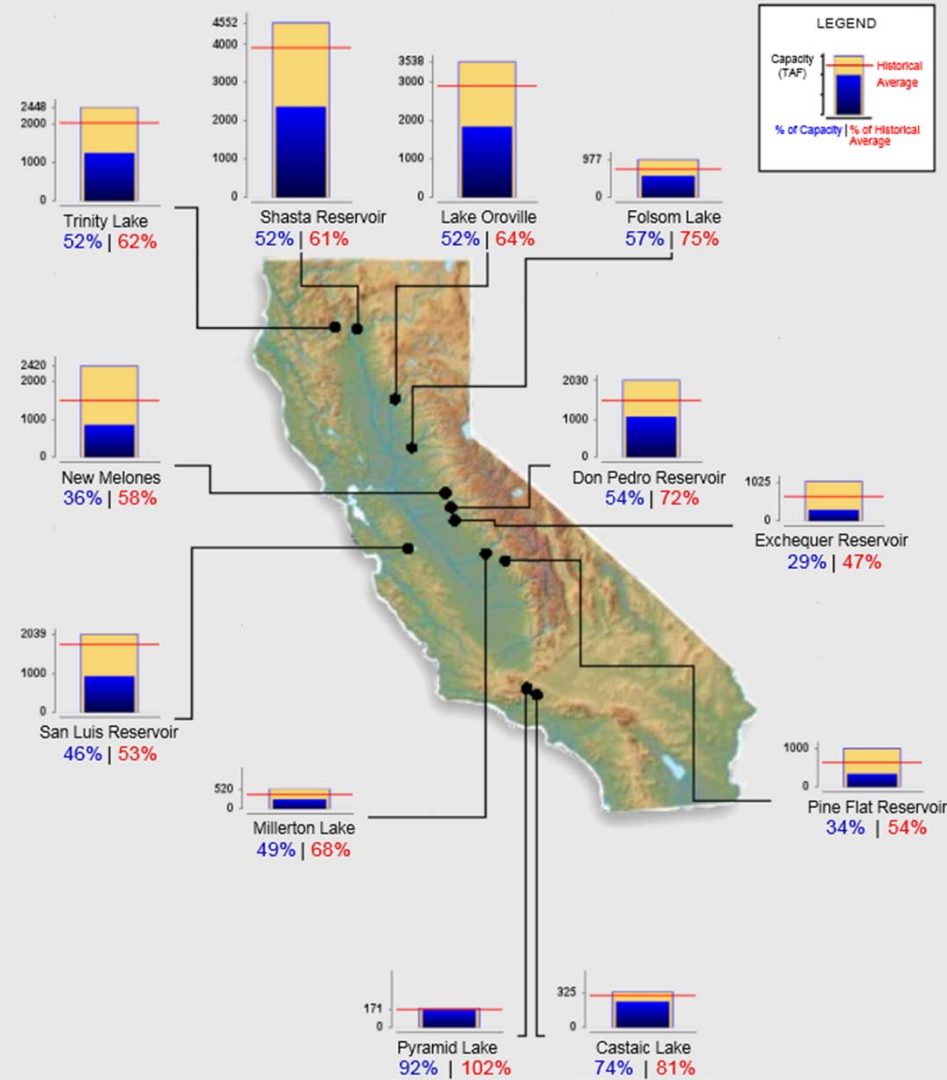




# Reservoir Conditions

Ending At Midnight - May 8, 2014

## CURRENT RESERVOIR CONDITIONS



Graph Updated 05/09/2014 08:15 AM



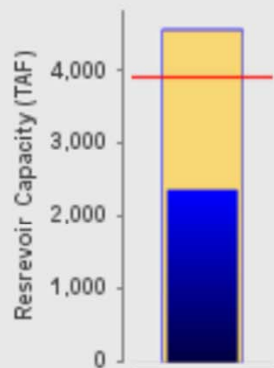


# Reservoir Conditions - Shasta Reservoir



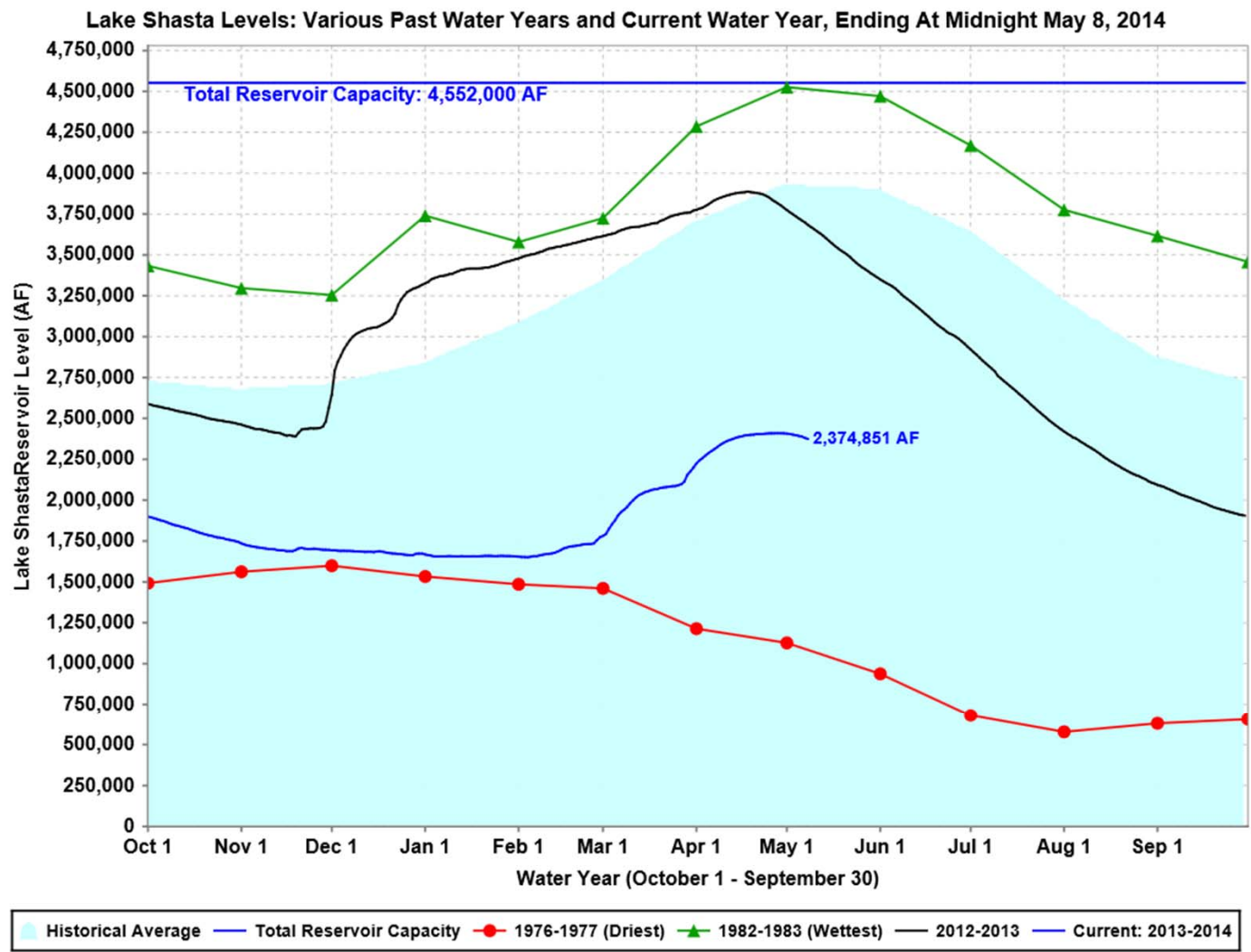
## Lake Shasta Conditions

(as of Midnight - May 8, 2014)



Current Level: 2,374,851 AF

52% (Total Capacity) | 61% (Historical Avg.)



Data Updated 05/09/2014 08:15 AM

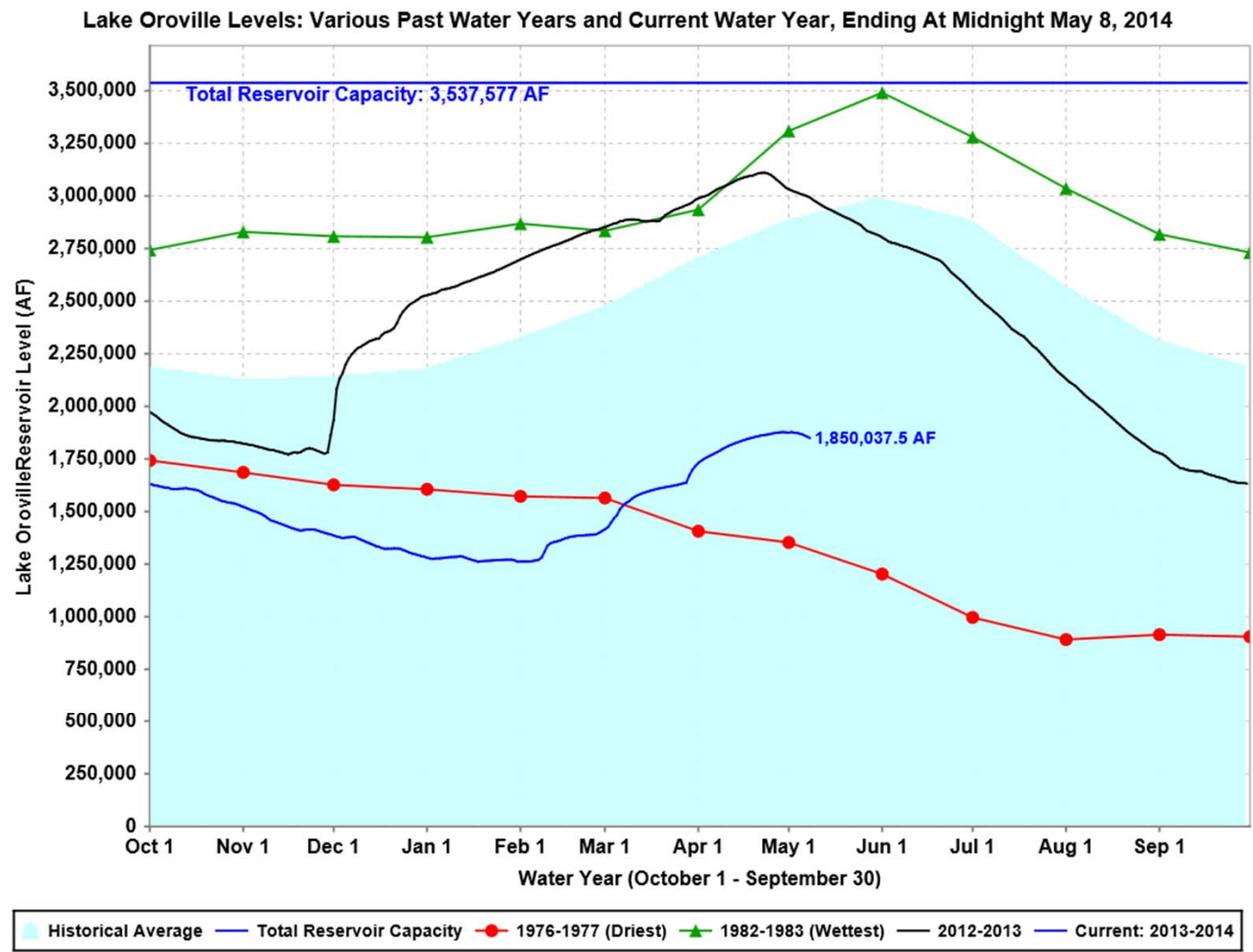
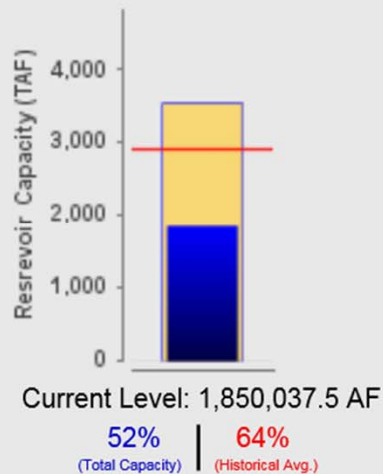


# Reservoir Conditions - Lake Oroville



## Lake Oroville Conditions

(as of Midnight - May 8, 2014)



Data Updated 05/09/2014 08:15 AM

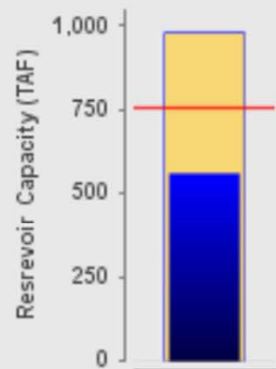


# Reservoir Conditions - Folsom Lake



## Folsom Lake Conditions

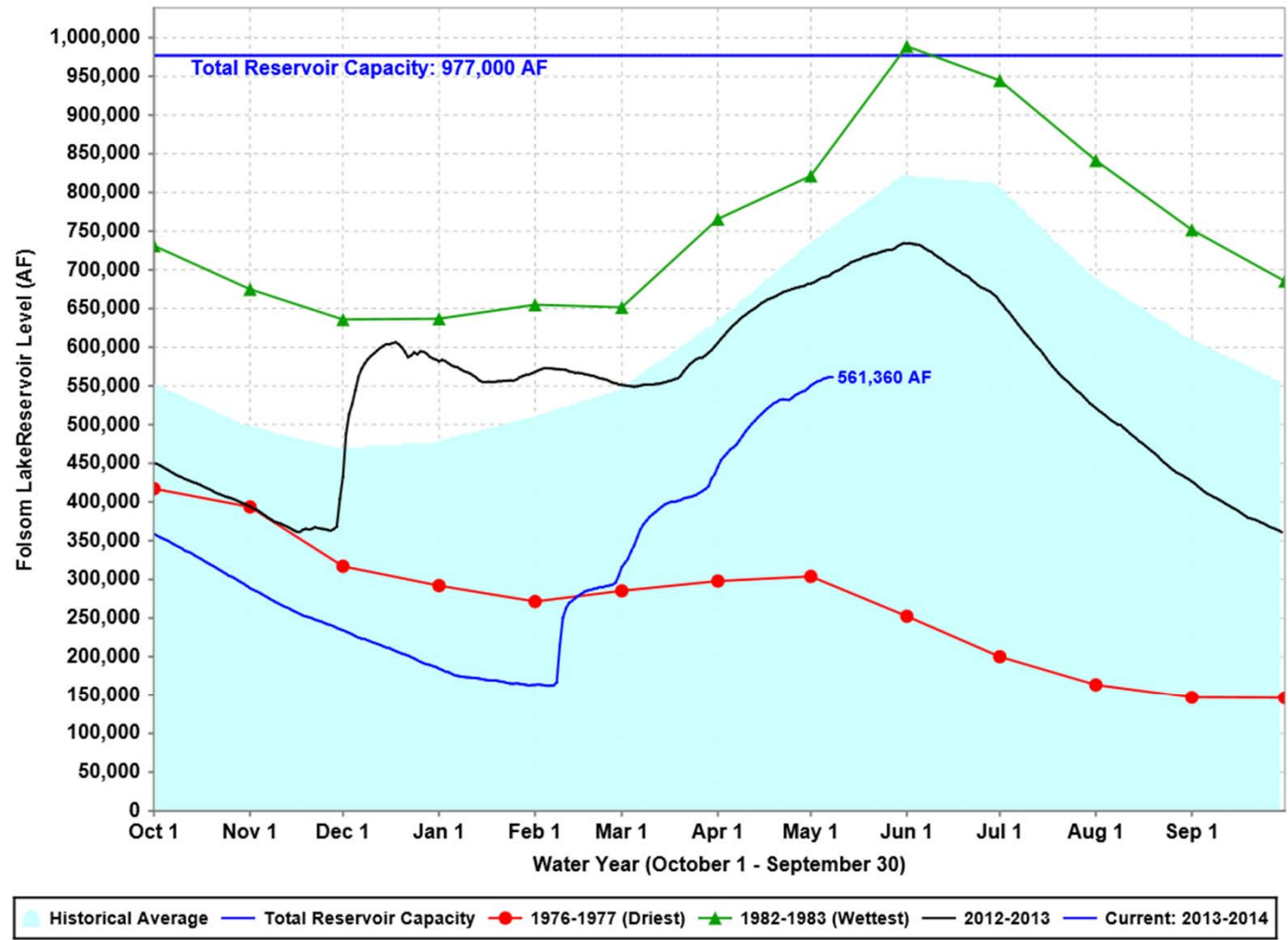
(as of Midnight - May 8, 2014)



Current Level: 561,360 AF

57% (Total Capacity) | 75% (Historical Avg.)

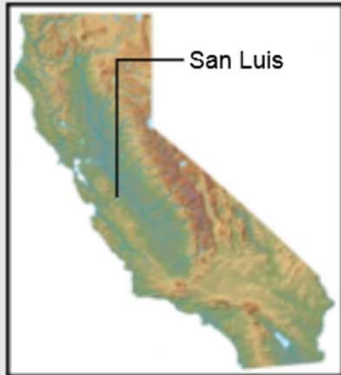
Folsom Lake Levels: Various Past Water Years and Current Water Year, Ending At Midnight May 8, 2014





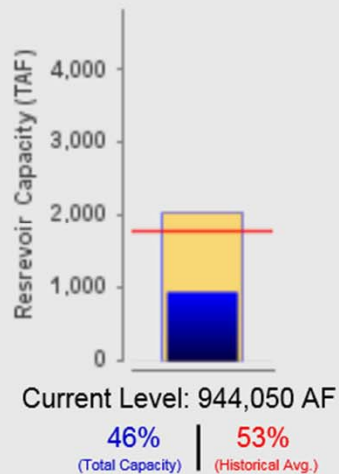


# Reservoir Conditions - San Luis

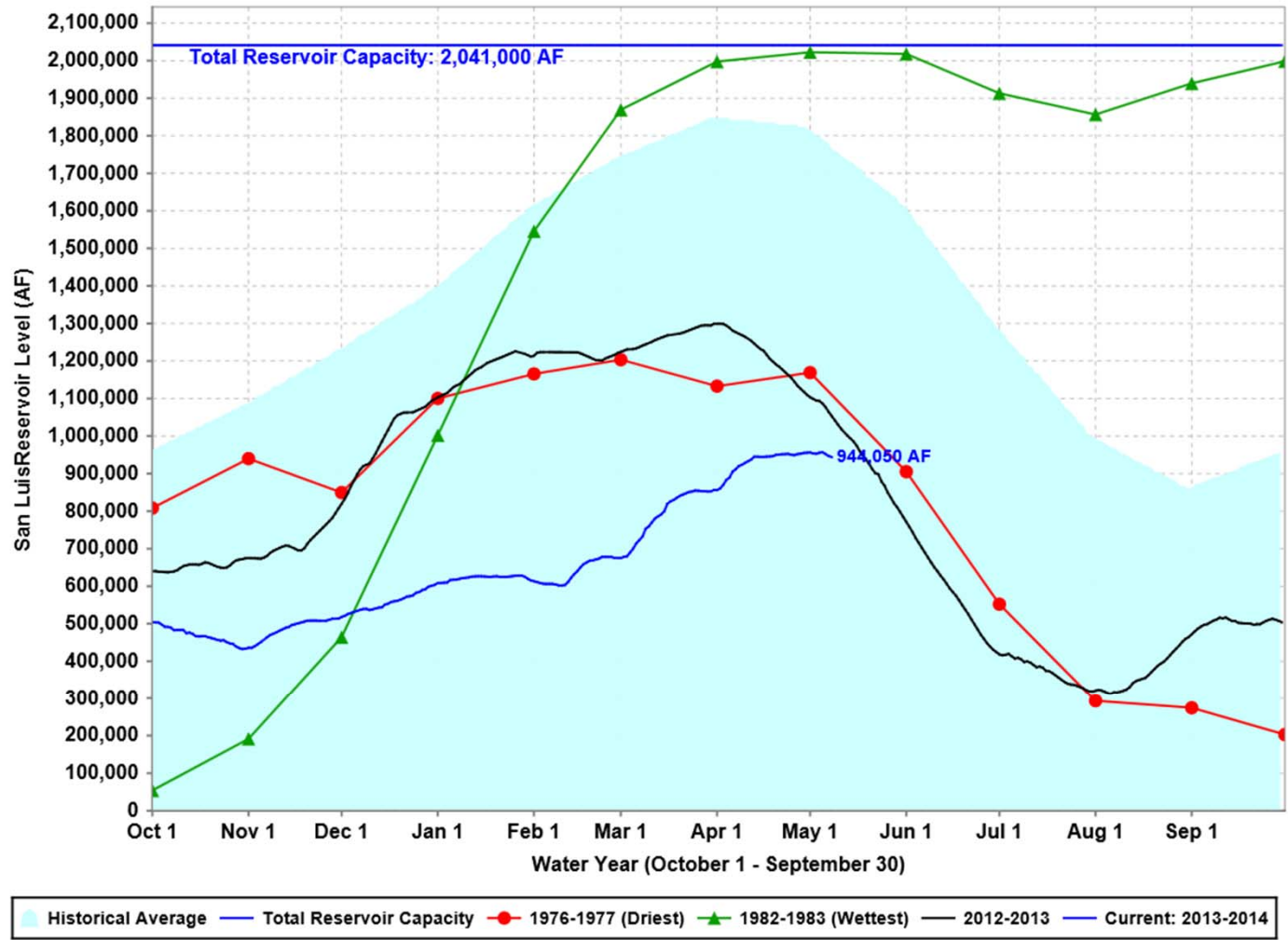


## San Luis Conditions

(as of Midnight - May 8, 2014)



San Luis Levels: Various Past Water Years and Current Water Year, Ending At Midnight May 8, 2014



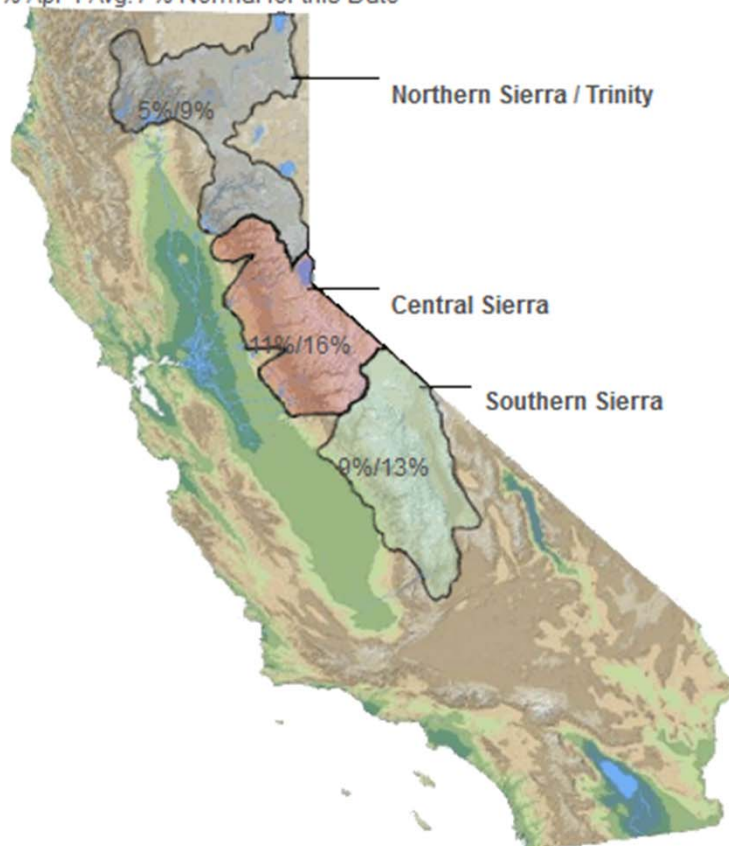
Data Updated 05/09/2014 08:15 AM

## → Snow Water Equivalents (inches)

Provided by the California Cooperative Snow Surveys

Data For: 09-May-2014

% Apr 1 Avg. / % Normal for this Date



Change Date :



09-May-2014

Refresh Data

### NORTH

Data For: 09-May-2014

Number of Stations Reporting	27
Average snow water equivalent	1.5"
Percent of April 1 Average	5%
Percent of normal for this date	9%

### CENTRAL

Data For: 09-May-2014

Number of Stations Reporting	42
Average snow water equivalent	3.2"
Percent of April 1 Average	11%
Percent of normal for this date	16%

### SOUTH

Data For: 09-May-2014

Number of Stations Reporting	28
Average snow water equivalent	2.4"
Percent of April 1 Average	9%
Percent of normal for this date	13%

### STATEWIDE SUMMARY

Data For: 09-May-2014

Number of Stations Reporting	97
Average snow water equivalent	2.5"
Percent of April 1 Average	9%
Percent of normal for this date	14%

## Road Map for Upcoming IC Meetings

### August 2014

#### *Potential*

- State water bond status
- Bay Restoration Authority ballot measure update
- Resilient Shoreline Planning: SFEP/ABAG, BCDC, CCC status
- Presentation on Oro Loma hybrid levee project
- Plan Bay Area update – ABAG
- Discussion of how watershed protection and water quality overlap with climate change issues (Melody Tovar)
- Oil Spill response and restoration: Cosco Busan DARP presentation by trustee agencies on what has changed and preparation for response to the next spill

#### *Confirmed*

- CCMP update discussion
- State of the Bay report update
- IRWMP round 3 planning update

### November 2014

#### *Potential*

- Bay Restoration Authority ballot measure debrief

#### *Confirmed*

- CCMP update discussion
- State of the Bay report update

### February/March 2015

#### *Potential*

- 

#### *Confirmed*

- CCMP update discussion
- State of the Bay report update
- State of the Estuary 2015 planning