

SAN FRANCISCO ESTUARY PARTNERSHIP

Implementation Committee Meeting

Wednesday, May 18, 2016, 9:30 a.m. – 12:30 p.m.

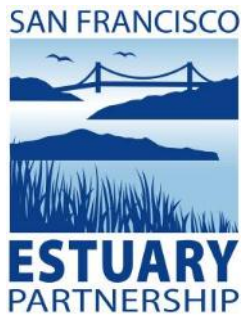
1515 Clay Street, 2nd Floor, Room 10, Oakland, CA

AGENDA

- | | | |
|-------|--|------------------------|
| 9:30 | 1. Welcome and Introductions | Amy Hutzel, Chair |
| 9:40 | 2. Public Comments
Any member of the public may address the IC on any matter regarding implementation of the Comprehensive Conservation and Management Plan. Speaker will be limited to three minutes. | |
| | 3. Action: Approve 3/2/16 Meeting Summary (Attachment 1) | Chair |
| 9:45 | 4. Director's Report (Attachment 2) | Caitlin Sweeney |
| 10:00 | 5. Reports on SFEP Activities | |
| | <ul style="list-style-type: none">SFEP FFY 2016-17 Work Plan Final (Attachment 3)
Action: Approve the Work Plan | Caitlin Sweeney |
| | <ul style="list-style-type: none">Consideration of 2016 CCMP (Attachment 4) | Heidi Nutters |
| 11:00 | Break | |
| 11:15 | <ul style="list-style-type: none">Consideration of 2016 CCMP, Continued
Possible Action: Approve the 2016 CCMP | |
| 12:15 | 6. Concluding Business

Review Road Map; Add Agenda Items for Future Meetings (Attachment 5)

Announcements | Chair, Caitlin Sweeney |
| 12:30 | 7. Adjourn | |



San Francisco Estuary Partnership
Implementation Committee Meeting
Wednesday, March 2, 2016
Elihu M. Harris State Building
Oakland, California

DRAFT MEETING SUMMARY

1. Welcome and Introductions

Amy Hutzel, Chair, called the meeting to order. Bill Brostoff, USACE, announced his upcoming retirement. Michelle Palmer, USACE Fisheries Biologist, introduced herself as Bill's replacement on the Committee. Darcie Luce and Heidi Nutters were introduced as new SFEP staff.

2. Public Comments/Meeting Summary Approval

There were no public comments.

Minutes were approved. Motion to Approve by Arthur Feinstein and seconded by Steve Goldbeck. No oppositions to approval.

3. Director's Report – Caitlin Sweeney

Caitlin provided highlights from the Director's Report attachment including shifting scheduled December 2016 IC meeting to December 2 to avoid conflict with the Delta Science Conference.

EPA

Caitlin reported on the very positive EPA evaluation letter, received January 5, 2016. She recently returned from the annual NEP directors' meeting in Washington, D.C., where the directors urged the EPA to allow more flexibility and less specificity with CCMPs and work plans (new requirements established last year). She expects the letter approving the appropriation of \$600,000 to each NEP to go out soon. Reauthorization bills passed both Congressional houses (lapsed in 2009), but need still need reconciliation

Estuary News

The December 2015 *Estuary News* issue includes a letter regarding continuation of 4 issues in 2016. One issue will be with one dedicated to the updated CCMP. The next issue will have in depth discussion on various planning efforts. *Estuary News* costs about \$70K annually to publish. SFEP is always appreciative of donations, including those from IC partners.

4. IC Chair/Vice Chair Selection

Amy Hutzel and Tom Mumley had been previously nominated to continue as Chair and Vice-Chair of the IC for May 2016-2018, respectively. After brief discussion, Steve Goldbeck motioned, Carol Mahoney seconded, none opposed.

5. Reports on SFEP Activities

SFEP FFY 2016-17 Draft Work Plan

Caitlin provided an overview of the draft work plan which has been simplified, streamlined, and newly formatted to better align with the CCMP update. The plan is divided into 1) on-going, funded projects, 2) newly funded projects, and 3) unfunded initiatives SFEP would like to pursue in 2017.

Discussion among the IC included a suggestion to increase public education efforts. Caitlin responded that SFEP has limited funding and capacity for new education initiatives and instead relies on supporting partner efforts such as the Joint Venture. There are some specific outreach efforts, both ongoing and new initiatives, listed in the work plan.

The IC generally liked the new structure of the work plan but suggested some revisions/refinements including: putting projects where SFEP is the lead up front, collapsing the IRWMP projects, and providing more specificity in the New Initiatives section. Caitlin will work with Luisa to revise as per EPA requirements and a deadline of March 30th was set for additional comments from the IC on the work plan.

MTC/ABAG Merger

Caitlin provided an update on the status of the possible merger process between ABAG and MTC. Management Consultants are analyzing options up to and including full merger (report due June). State Assembly Select Committee for Regional Planning in SF Bay Area established, chaired by Thurmond.

Attachment 4 was provided as part of the IC packet that describes SFEP's governance structure.

After discussion, the IC agreed to submit a letter to the consultants (copying the Executive Directors of ABAG and MTC) that describes SFEP and its importance and supports a full merger of the two agencies to achieve an integrated comprehensive regional approach to managing land use, transportation and the environment.

CCMP Status

Heidi Nutters provided overview of the status of the CCMP, including the planned IC vote in June and public release in July/August (hard copies and webpage). Heidi also described the development of a tool to track progress on CCMP actions.

Concern was expressed regarding the timeline, specifically allowing for time for the Executive Committee to review and approve the CCMP. A suggestion was made for a possible additional IC meeting in June.

6. IC Member Activities

Clean and Healthy Bay Ballot Measure (AA), Beckie Zisser (Save the Bay)

- SF Bay restoration authority overview (Amy), generate revenue for restoration, associated flood protection, etc. \$12/parcel tax, needs 2/3 vote cumulatively from the 9 county area

- Campaign coordination: need to get measure on each county's ballot, meeting with supervisors from each.
- Using Bay Ecosystem goals as driver to reclaim lost wetland acreage. \$500m over 20 years, funds may be available in advance...
- Advisory committee, sunset date, audit
- Campaign being developed now even though there is June vote. Media firm, co-chairs, co-sponsors, executive committee, consultants, \$2-5M campaign likely. December tracking poll indicates good support (close to 2/3)
- Developing grant making procedural. 50% of funds to local entities based on population; remaining 50% for high priority projects. Project list ready.
- Measure AA webpage will be available soon, under revisions

Prop 1 Update, Beth Huning (SF Bay Joint Venture)

- Prop 1 overview, general provisions,
- Chapter 6 guidelines (protecting rivers, lakes, and streams)
 - Multi-benefit ecosystem and watershed protection and restoration in accordance with State priorities
 - SFBJV submitted comments, met with agency directors, and provided letters of support for priority projects
 - Coordinated message: reinforce value of Bay Area wetlands, prioritize projects, allocate specific amount for Bay Area, request timely release of funding, enable projects by other entities on state lands
- Review various programs and priorities
- Lessons Learned in year one

7. Concluding Business

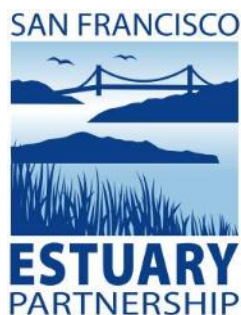
- Road Map/agenda topics
- Announcements: USF&WS recommends submitting good projects to NCWG for acquisition/ restoration of transition zones; FEMA pre-disaster/flood mitigation funds available for nature-based solutions

8. Adjourn

Attendees:

Jane Lavelle, SFPUC
 Jessica Martini-Lamb,
 Arthur Feinstein, Citizens to Complete the Refuge
 Steve Goldbeck, BCDC
 John Klochak, USFWS
 Kate Poole, NRDC
 Beth Huning, SF Bay Joint Venture
 Amy Hutzler, State Coastal Conservancy
 Tom Mumley, SF Bay Regional Water Quality Control Board
 Carol Mahoney, Zone 7 Water Agency
 Luisa Valiela, U.S. EPA Region 9
 Bill Brostoff, US Army Corps
 Michele Palmer, US Army Corps

Staff
Caitlin Sweeney
James Muller
Karen McDowell
Adrien Baudrimont
Josh Bradt
Darcie Luce
Heidi Nutters



DIRECTOR'S REPORT

May 18, 2016

SFEP Program Management

Staff Transitions

Jennifer Krebs Retiring: As she gets ready to retire at the end of June, we want to thank Jennifer for her tireless work on behalf of the San Francisco Estuary Partnership. In her 12 years with SFEP, and the 8 years before at ABAG, Jennifer has worked to develop partnerships and projects to improve and protect the environmental health of the San Francisco Estuary. Her skill at writing successful grant proposals for SFEP sponsored projects has resulted in obtaining water quality improvement funds from US EPA (over \$11 million) for grants including Green Infill/Clean Stormwater, Estuary 2100 and 2100-2, and Urban Greening Bay Area; State Water Board (over \$500k) for EcoWise and Green Plan Bay Area and DWR Proposition 84 funds for Bay Regional IRWMP projects (over \$50 million over 4 rounds). These projects cover a wide variety of approaches to conserve water, recycle/reuse water, enhance water supply, restore habitat, implement low impact development, pilot climate change solutions and monitor environmental benefits and outcomes. Additionally, Jennifer's skills in leadership and collaboration, contract management, organizational management as a team leader and staff mentor have served the Partnership well and enhanced our ability to champion Estuary resiliency. We will miss her!



Recruitment for Jennifer's replacement is underway.

Chair/Vice Chair New Terms Begin in May

Following their nomination and unanimous approval at our March meeting, Amy Hutzler and Tom Mumley will continue as Chair and Vice Chair, respectively, for a new two-year term beginning at this May 2016 meeting and continuing through March 2018.

New IC Representative for Corps

Please welcome Michele Palmer, Regional Fishery Biologist of the U. S. Army Corps of Engineers, San Francisco District, who will be replacing Bill Brostoff on the IC. Thank you to Bill for his time with us, and wish him a happy retirement!

ABAG Activity: Office Move and Merger Discussions

ABAG's planned move to 375 Beale Street in San Francisco will occur on May 31st. The Bay Area MetroCenter will house the Metropolitan Transportation Commission, The Bay Area Air Quality Management District, and ABAG. SFEP offices will remain at 1515 Clay Street with the SF Regional Water Quality Control Board, although SFEP staff will have access to office space in the Bay Area MetroCenter.

Management Partners, the consultants chosen to undertake a study of a possible merger of MTC and ABAG, developed a suite of merger options for discussion. ABAG is conducting a Special General Assembly on May 19th to discuss the options and inform the ABAG Executive Board. That same evening the ABAG Executive Board will vote on which option or modified option to support going forward. On May 25th MTC will vote on whether or not to support a mutually agreed upon option with ABAG. Agreement on an option before July 1, 2016 stops implementation of Resolution 4210, MTC's initial plan to cut ABAG's planning funds and transfer 13 planners to MTC. After the votes, Management Partners will develop a more detailed merger implementation plan based on direction from the Joint MTC Planning/ABAG Administrative Committee.



New Email Addresses: first.last@sfestuary.org

SFEP has moved to a gmail platform. We have transitioned away from our @waterboards.ca.gov email addresses and can now be reached at first.last@sfestuary.org. If you haven't already started using these new email addresses, please do.

National Estuary Program Reauthorization

Authorization for the National Estuary Program expired in 2010 and we have been relying on yearly appropriations for our base funding from EPA. Since 2010 several attempts to reauthorize the program have been initiated but none have been successful. This year, however, a bill to amend the Water Pollution Control Act to reauthorize the National Estuary Program was successfully passed by the Senate in August and the House in April. The House passed the bill with minor changes not in the Senate version so the bill was sent back to the Senate for approval where it is currently still resides. S 1523 would appropriate \$26,500,000 for each of fiscal years 2017 through 2021 for the Program. In addition, the bill limits EPA administration funds to 5 percent of amount appropriated per year, allocates 80 percent of the amount per year to the development, implementation and monitoring of CCMPs, and also allocates 15 percent for competitive awards to NEPs. Getting the bill this far is a significant accomplishment and there is hope that the Senate will take the bill as passed by the House and pass it along to the President for his signature.



New Funding

SFEP has successfully secured additional funding from EPA for two new collaborative efforts: studying the impacts of ocean acidification on the Bay, and advancing mapping and implementation of transition zones. Both projects are supported by the 2016 CCMP and are in SFEP's final work plan for FY 2017.

- The effort to assess ocean acidification on San Francisco Bay is in collaboration with SF State's Romberg Tiburon Center for Environmental Studies, UC Davis' Bodega Marine Laboratory, the San Francisco Bay National Estuarine Research Reserve, and the San Francisco Estuary Institute. \$70,000 was granted through the US EPA's Ocean and Coastal Protection Division through SFEP to help build a coordinated ocean acidification monitoring program by purchasing and deploying key equipment and by supporting a regional workshop to develop a plan for a coordinated monitoring network.
- Funding from the US EPA's Climate Ready Institute was awarded to SFEP to pursue developing a regional transition zone mapping methodology and to develop a pilot project in North Richmond to map transition zones on a local scale and partner with a vulnerable community to identify opportunities and create a vision for sea level rise resiliency focusing on transition zones. The project supports the recommendations of the Baylands Goals Science Update. SFEP will collaborate with the San



Francisco Bay Joint Venture, the San Francisco Estuary Institute, the North Richmond Shoreline Open Space Alliance, Urban Tilth, and others to implement the \$75,000 project.

SFEP will also take on grant administration duties for the projects remaining active in IRWMP Round 1, currently managed by BACWA. BACWA will remain the grantee, but SFEP will perform the same functions that we are doing for other IRWMP projects. Approximately \$100,000 will fund ABAG's administration role. Transferring the project management responsibility has been approved by the Bay Area IRWM Oversight and Coordination Committee. The projects are currently scheduled to be completed by December 2017.

Program Highlights

Clean and Healthy Bay Measure

The \$12 parcel tax measure developed by the San Francisco Bay Restoration Authority will appear on the June 7th ballot in all 9 Bay Area Counties. The measure will generate \$25 million per year for the next 20 years for wetlands restoration if it is passed by a cumulative two-thirds vote. Save The Bay is



chairing the campaign, and SFEP's role is limited to providing educational information about the value of wetland restoration in SF Bay and to continue to staff the Authority. See www.sfbayrestore.org and www.savesfbay.org for additional information.



Bay-Delta Science Conference

The Biennial Bay-Delta Science Conference is a forum for presenting technical analyses and results relevant to the Delta Science Program's mission to provide the best possible, unbiased, science-based information for water and environmental decision-making in the Bay-Delta system. The goal of the 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 conference program will feature oral and poster presentations that provide scientific information and ideas relevant to the topic sessions. The organizers of this 9th Science Conference are seeking presentations that support this goal. The deadline for abstracts is June 3, 2016. See <http://scienceconf2016.deltacouncil.ca.gov/> for additional information.

First IRWMP Projects Complete

Jennifer Krebs attended the ribbon cutting for Napa Sanitation District's Recycled Water Pipeline expansion. Among the speakers at the event was Steve Moore of the SWRCB. The pipeline delivers water to vineyards in Napa and Carneros. Funding for the pipeline was provided by DWR's IRWMP Program managed by SFEP.



Aquatic Invasive Species (AIS) Updates

Karen McDowell represented SFEP and the Estuary at a workshop on Marine Biofouling for the Western Regional Panel on Aquatic Nuisance Species (WRP) and the Spring Federal Aquatic Nuisance Species Task Force (ANSTF) Meeting. Activity right now on aquatic invasive species includes:

- **Marine Biofouling** – SFEP is working with the Western Regional Panel's Coastal Committee on the draft report: "Biofouling on the U.S. West Coast: The need for a regional plan to address marine bioinvasions," and focusing future committee efforts on the key vectors (commercial ships, recreational vessels, commercial fishing vessels, and marine infrastructure). Next steps include compiling a document with Biofouling BMPs and Legal Framework for the key vectors.
- **Federal Lands Committee** – At the Spring ANSTF meeting, the committee presented a framework to implement the recently released report, "Federal Policy Options Addressing the Movement of Aquatic Invasive Species Onto and Off of Federal Lands and Waters." The framework for implementation focuses on movement of aquatic invasive species onto and off federal lands by recreational watercraft in order to concentrate efforts on this priority pathway; future work of the committee will consider other potential pathways. For next steps, see: http://www.anstaskforce.gov/Meetings/2016_May/31a_AIS_&_Federal_Lands_Committee_Options_for_Next_Steps.pdf
- **Early Detection and Rapid Response** – The Department of the Interior (working with the National Invasive Species Council and the ANSTF) released their report, "Safeguarding America's

Lands and Waters from Invasive Species: A National Framework for Early Detection and Rapid Response,” which includes Federal action recommendations

(http://www.anstaskforce.gov/Meetings/2016_May/32_National_Early_Detection_Rapid_Response_Framework.pdf)..

- Other current topics covered at the spring ANSTF meeting included: the development of surveillance programs (prioritizing sites and developing techniques), discussion of clustered regularly-interspaced short palindromic repeats (CRISPR) gene-drive technology, development of an economics report, development of a technical information report on boat design and construction in consideration of AIS, and regional panel activities.

San Pablo Avenue Green Stormwater Spine

The San Pablo Avenue Green Stormwater Spine project has advanced to the implementation stage with the May release of the construction bid advertisement. The project will retrofit the existing public right of way with green infrastructure measures at seven locations along San Pablo Avenue in the cities of Oakland, Emeryville, Berkeley, Albany, El Cerrito, Richmond and San Pablo. In total, the project will treat urban runoff from over eight acres of impervious drainage area along this heavy used transportation and commercial corridor. We anticipate construction will begin by late June and wrap up in December. The engineer’s estimate for construction, including a 10% contingency, is \$2.1M. The bulk of the construction funding comes from Caltrans as partial mitigation for the Bay Bridge retrofit project, additional funding comes from DWR’s IRWM program and the Natural Resources Agency’s Urban Greening Program.



Figure 1 Albany site existing



Figure 2 Albany site post construction rendering

Clean Vessel Act Program

SFEP staff visited Sacramento in March to participate in the Sacramento Boat Show. There, SFEP staff worked with boaters to conduct outreach and education. Unfortunately, the weather only allowed for one day of participation in the four day event. Heavy rains the first night of the show resulted in several inches of water in the booth. DBW, the funding agency, decided to cancel our participation in the event.



Senador Mine (E2100 I)

The Santa Clara County Parks and Recreation Department has obtained all needed permits and approvals to enter into construction this season. The project will be completed by September of this year. Following the Senador Mine remediation, the County will move forward with its next EPA funded project: Calcine Paved Roads. This project is currently designed and is awaiting permits from applicable agencies.

Estuary News Support Solicited for 2016

Thank you to Sonoma County, State Coastal Conservancy, the Regional Monitoring Program, San Francisco Estuary Institute, Santa Clara Valley Water District, Bay Conservation and Development Commission donors, and several private citizens who have donated to support Estuary News this year. Those donations supported January-March efforts but did not reach the level of support needed for the full year. We are seeking additional donations from any agencies who were solicited earlier and have not responded. Please contact Ariel Okamoto, Estuary News Editor, for any needed information: estuaryeditor@gmail.com.

Outreach

March Estuary News

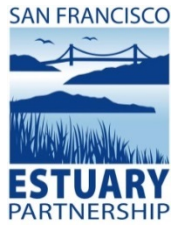
The March issue covers the Estuary north, south, east and west. It details lessons being learned from a rock barrier on the False River designed to prevent salt water intrusion into the Delta, and says farewell to the grande dame of Bay research, a yacht called the *Polaris* now being replaced with a catamaran. The issue also explores the buzz on “resilience” in climate change planning and then gives the low down on two recent restorations at opposite ends of the Bay: one on Sonoma Creek and the other at Bair Island. An opinion piece urges support for Measure AA and science news tracks El Niño effects on the movement of mercury and sediment.



Friends of the Estuary Activity

Our partner organization Friends of the San Francisco Estuary worked with Senator Lois Wolk and Bay Area legislators to call for an expedited update of the Bay-Delta Water Quality Control Plan. The letter to the State Water Resources Control Board, sent May 3, was signed by Senators Wolk, Hancock, Hill, and Leno and Assemblymembers Chiu, Chu, Dodd, Gordon, Levine, Mullin, and Thurmond. This letter echoes the letters sent in April by over 150 business, recreation, and conservation organizations to the State Board and EPA, urging the State Board to complete the update process in the next one to two years in order to better protect fish and wildlife. The letters can be found on the [Friends of the San Francisco Estuary's website](http://www.friendsofthesanfranciscoestuary.org).

INSERT ATTACHMENT 3 HERE



Date: May 11, 2016

To: Implementation Committee

From: SFEP Staff

RE: Consideration of 2016 CCMP (Agenda Item 5)

SFEP staff has completed a final draft version of the 2016 CCMP for review and possible approval by the Implementation Committee. At the May 18th Implementation Committee meeting, we will review the CCMP in depth and the IC may choose to either take action on approval of the document or to postpone action to an additional IC meeting to be held on June 15th. In the event of IC approval of the 2016 CCMP at the May 18th meeting, the additional June 15th IC meeting will be cancelled.

Since the March 2nd IC meeting, SFEP staff worked with a professional editor and designer to develop a working draft of the CCMP, which was emailed to the IC CCMP Steering Committee on April 15, 2016. All members of the IC were copied on the email and invited to review the document and/or attend the IC CCMP Steering Committee meeting on April 20, 2016. Following the April 20th meeting, SFEP staff has worked closely with members of the IC Steering Committee to finalize language and address overall comments on the document. The draft has also undergone significant editorial review for clarity and consistency of tone throughout the document. In addition to revisions to the Actions, *Section V: Sensitive Species* was added, additional detail was added to *Section III: Implementation* including several sidebars, and revisions were made to *Section VI: Tracking Changes*.

In addition to the Draft CCMP please note the "Revision Process Flow Chart." This document provides a detailed description of revisions made to individual actions since the public review draft of the CCMP was released in September, 2015.

Please note that the Final Draft of the 2016 CCMP will be available for viewing and download with the other IC Meeting Packet files on Thursday, May 12th. Printed copies will be available at the meeting.

CCMP Revision Process from Public Review Draft

Following the public comment period for the CCMP, SFEP staff undertook a comprehensive revision process of the document. The table below describes detailed revisions for individual actions. In addition to these revisions, all actions were revised in the following ways:

Owners and Collaborating Partners

All actions have owners and collaborating partners listed. As described in the “Anatomy of an Action” section, owners of the tasks are entities that have agreed to play a key role in advancing tasks either as implementers, trackers, conveners, or stewards.

Collaborating partners is a list of key entities, in addition to the owners, engaged in accomplishing the action.

Milestones and Target Year

Clear milestones with associated dates have been added in order to track progress in advancing the action. Milestone years reflect the entire planning horizon of the CCMP, from 2016-2021. Milestones will be tracked for stakeholders via several mediums following adoption and dissemination of the CCMP.

Copy edits

The entire document was thoroughly edited for tone and consistency.

CCMP Revision Process Chart		
Action Name in Public Review Draft	Updated Action Names in Final Draft	Major Changes Since Public Review Draft
Action 1: Develop and implement watershed approaches to comprehensive aquatic resource protection	Action 1: Develop and implement a comprehensive, watershed-based approach to aquatic resource protection	Moderate revisions. Revised based on public, owner and collaborating partner comment. Revised task language, including: clarified linkages between SF Bay and Delta, number of pilot projects was reduced, overall approach was clarified.
Action 8: Establish a regional wetland and stream monitoring and assessment program	Action 2: Establish a regional wetland and stream monitoring program	Substantial revisions. Based on public, owner and collaborating partner, and IC comment, tasks were added on the CA Aquatic Resource Inventory, sentinel site monitoring and to support stream

		monitoring.
Action 2: Protect, restore and enhance tidal marsh and tidal flat habitat	Action 3: Protect, restore and enhance tidal marsh and tidal flat habitat	Minor revisions. Based on public comment, information about potential acquisition sites as well as nexus to other planning efforts was added. Linkages to species interactions were added based on comments from IC.
Action 3: Identify, protect and create transition zones	Action 4: Identify, protect and create transition zones around the Estuary	Minor revisions. Based on public and IC comment, tasks clarified and added for consistency with owner efforts. Nexus with other planning efforts was added.
Action 4: Protect, restore and enhance intertidal and subtidal habitats	Action 5: Protect, restore and enhance intertidal and subtidal habitats	Minor revisions. Based on public comment, background modified to provide more in-depth description of species interactions.
Action 5: Maximize habitat benefits of managed wetlands and ponds	Action 6: Maximize habitat benefits of managed wetlands and ponds	Minor revisions. Clarified differences in approach for managed ponds and managed wetlands based on owner input and public comment. Worked closely with State Coastal Conservancy. Tasks and background clarified. Added nexus with other planning efforts.
Action 6: Protect, restore, and enhance riparian habitat	Action 7: Conserve and enhance riparian and in-stream habitats throughout the Estuary's watersheds	Substantial revisions. Action 6 & 7 were merged into one action incorporating riparian and in-stream habitats. Revisions based on public comment and input from partners, including SF Water Board and SFBJV. Tasks were combined and clarified.
Action 7: Protect and restore critical coldwater habitats in tributary streams		Merged with Action 6
Action 9: Protect, restore and enhance seasonal wetlands	Action 8: Protect, restore and enhance seasonal wetlands	Minor revisions. Based on comments from IC and partners, clarified the scope of the Action, added task on developing a white paper on grazing BMPs, added detail to the Background regarding

		grazing.
Action 10: Minimize the impact of invasive species	Action 9: Minimize the impact of invasive species,	Minor revisions. Species specifics were added to background based on public comment. Clarified milestones and add detail to the background. Refocused task 9-4 on invasive spartina in coordination with the State Coastal Conservancy.
Action 11: Increase the efficacy of predator management	Action 10: Increase the efficacy of predator management	Minor revisions. Based on comments from public and IC, added mention of advocacy groups, worked with owners to clarify task language and add milestone.
Action 12: Increase carbon sequestration through wetland restoration, creation and management	Action 11: Increase carbon sequestration through wetland restoration, creation and management	Minor revisions. Based on public and owner and collaborating partner comment, added task on development carbon offset protocols, and clarified tasks and milestones.
Action 13: Restore Estuary-watershed connections for multiple benefits including flood risk management and habitat	Action 12: Restore watershed connections to the Estuary to improve habitat, flood protection and water quality	Minor revisions. Based on public and partner comment, tasks were rearranged and more detail was added.
Action 14: Manage sediment on a regional scale and advance beneficial reuse	Action 13: Manage sediment on a regional scale and advance beneficial reuse	Minor revisions. Based on comments from action owners and partners, reduced number of tasks, and clarified milestones.
Action 15: Demonstrate how restored habitats serve as "natural infrastructure" that provide multiple benefits	Action 14: Demonstrate how natural habitats and nature-based shoreline infrastructure can provide increased resiliency to changes in the Estuary environment.	Moderate revisions. Worked with owners and collaborating partners to refine task order, descriptions and milestones. Strengthened linkage to climate change based on public comment.
Action 16: Advance natural resource protection while increasing resiliency of shoreline communities	Action 15: Advance natural resource protection while increasing resiliency of shoreline communities	Minor revisions. Worked with action owner to clarify scope of action, merged tasks for clarity.
Action 17: Integrate	Action 16: Integrate natural	Minor revisions. Based on owner

natural resource protection into local government hazard mitigation, response, and recovery planning	resource protection into state and local government hazard mitigation, response, and recovery planning	comment, added Delta-specific task, clarified scope of tasks.
Action 18: Improve regulatory processes regarding permitting and monitoring innovative multi-benefit projects	Action 17: Improve regulatory review, permitting, and monitoring processes for multi-benefit climate adaptation projects	Moderate revisions. Based on owner and collaborating partner and IC comment, added task for SF Bay Regional Board, and clarified existing tasks and milestones. Tone of task description and background modified to reflect support of previous and ongoing regulatory advances and modified title to clarify intent.
Action 26: Adopt new Bay-Delta freshwater inflow/outflow standards that better protect all beneficial uses	Action 18: Improve the timing, amount, and duration of freshwater flows critical to Estuary health	Moderate revisions. Incorporated changes in response to public comment, added task from deleted action (Public Draft Action 24) on waste and unreasonable use.
Action 19: Develop long-term drought plans	Action 19: Develop long-term drought plans	Minor revisions. Revised in response to public comment including removing focus on UWMPs. Fine-tuned tasks with partners.
Action 27: Increase regional agriculture water use efficiency	Action 20: Increase regional agriculture water use efficiency	Moderate revisions. Revised in response to public comment; merged tasks and added new task on offstream storage identified as a priority by multiple partners.
Action 20: Reduce Bay Area landscape water use	Action 21: Reduce water use for landscaping around the Estuary	Minor revisions. No public comments received. Updated and fine-tuned tasks with input from partners.
Action 21: Increase water recycling	Action 22: Expand the use of recycled water	Substantial revisions. Incorporated public comments. Combined Public Draft Actions 21 and 23 into Final Draft Action 22. Refined tasks in collaboration with Owners.
Action 22: Change public's perception of the value of water to achieve long term reduction in water use	Action 22: Change public's perception of the value of water to achieve long term reduction in water use	Merged into other actions, particularly Action 21, due to lack of feasibility and resources

Action 23: Promote potable reuse with regional agencies and following state lead, standards for direct potable reuse		Merged with Public Draft Action 21
Action 24: Assess potential application of the constitutional standard of waste and unreasonable use in the Estuary	Action 22: Assess potential application of the constitutional standard of waste and unreasonable use in the Estuary	Merged tasks and incorporated into Final Draft Action 18
Action 25: Integrate water into the updated Plan Bay Area and Delta Sustainable Communities Strategies	Action 23: Integrate water into the updated Plan Bay Area and other regional planning efforts	Moderate revisions. Incorporated changes in response to public comment, identified new task on water summit in collaboration with Owners.
Action 31: Manage stormwater with Low Impact Development/Green Infrastructure practices	Action 24: Manage stormwater with low impact development and green infrastructure	Minor revisions. Updated and fine-tuned tasks and background in response to public comment and input from collaborating partners.
Action 28: Identify and work to eliminate illegal water diversions in the San Francisco Bay region		After consulting with potential owners/partners, deleted due to lack of identified owners, collaborating partners, and resources.
Action 29: Address emerging contaminants	Action 25: Address emerging contaminants	Moderate revisions. Deleted tasks identified as superfluous or redundant. Fine-tuned tasks in collaboration with owners.
Action 30: Decrease raw sewage discharges	Action 26: Decrease raw sewage discharges into the Estuary	Moderate revisions. No public comments received. Merged two tasks together; updated and fine-tuned tasks and background in response to input from collaborating partners.
Action 32: Implement select TMDLs	Action 27: Implement mercury, methylmercury, dissolved oxygen, and areas of low dissolved oxygen in the Estuary	Moderate revisions. No public comments received. Revised title, description and tasks to more accurately reflect current staff projects. Fine-tuned tasks and background with input from staff.
Action 33: Manage	Action 28: Advance nutrient	Substantial revisions. Revised in

nutrients in the Estuary	management in the Estuary	response to public comment. Added three tasks and made substantial revisions to background as the result of input from owners.
New Action	Action 29: Engage the scientific community in efforts to improve baseline monitoring of ocean acidification and hypoxia	This Action was added based on public comment and input from IC and partners including EPA, SF Bay NERR and CNRA about the need for this issue to be addressed in the CCMP.
Action 34: Reduce trash input into the Estuary	Action 30: Reduce trash input into the Estuary	Moderate revisions. Revised in response to public comment; further revisions to tasks in collaboration with partners.
Action 35: Develop and expand public involvement, education and advocacy efforts that support the CCMP		Merged into Task 32.
Action 36: Foster support for resource protection and restoration by providing Estuary-oriented public access and recreational opportunities compatible with wildlife	Action 31: Foster support for resource protection and restoration by providing Estuary-oriented public access and recreational opportunities compatible with wildlife	Minor revisions in response to partner and IC commen. Additional detail was added to reflect the work of SFEP's Boating Program and ABAG's Water Trail program.
Action 37: Increase regional coordination among all levels of government to support implementation of the CCMP	Action 32: Champion and implement the CCMP	Substantial revisions. Actions 35, 37 & 38 were merged into this Action focused on outreach and stakeholder engagement approach for the CCMP in coordination with SFEP staff.
Action 38: Increase funding mechanisms to implement the CCMP		Merged into Task 32.

INSERT ATTACHMENT 4 HERE

**Road Map for Upcoming IC Meetings
May 18, 2016**

Wednesday, June 15, 2016 – Potential Meeting if CCMP is Not Approved in May

- Approve 2016 CCMP

Wednesday, August 24, 2016

Confirmed

- Updates on CCMP Approvals (EPA and Executive Council)
- CCMP Outreach Strategy
- ESTUARY News funding update and discussion of options for support going forward

Potential

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

Wednesday November 2, 2016 – NEW DATE

Confirmed

- Set calendar for 2017 meeting dates
- Public release of 2016 CCMP

February or March, 2017

- Work plan draft
- Update on Bay-Delta Science Conference