

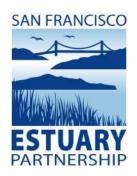
SAN FRANCISCO ESTUARY PARTNERSHIP

Implementation Committee Meeting

Tuesday, November 18, 2014, 9:30 a.m. – 12:30 p.m. 1515 Clay Street, 2nd Floor, Room 10, Oakland, CA

AGENDA

9:30	1. Welcome and Introductions	Amy Hutzel, Chair
9:40	2. Public Comments	
	Any member of the public may address the IC on any matter regarding implementation of the Comprehensive Conservation and Management Plan. Each speaker will be limited to three minutes.	
9:45	3. Director's Report (Attachment 1)	Judy Kelly, Director
	4. Action Items	Chair
10:00	Approve August 27, 2014 Meeting Summary (Attachment 2)	
	Approve 2015 Proposed IC Meeting Schedule (Director's Report)	
	5. Reports on SFEP Activities	
	CCMP Revision	Caitlin Sweeney
10:45	Break	
	6. Highlighting IC Partner Efforts	
11:00	Results of Proposition 1 election	Amy Hutzel
	ESTUARY Newsletter	Ariel Rubissow Okamoto
11:30	State of the Estuary Report	Dr. Letitia Grenier
	7. Concluding Business	
12:10	Review Road Map; add agenda items for future meetings (Attachment 3)	Chair, Judy Kelly
12:20	Announcements	
12:30	Adjourn	



DIRECTOR'S REPORTNovember 18, 2014

SFEP Program Management

Director Travels and Coordination with Other NEPs: I went to Washington, D.C., earlier this month to attend the Restore America's Estuaries conference and while there to meet with the other NEP directors and our advisors at EPA Headquarters. Discussion centered on grants guidance for 2015, climate change work at the NEPs and EPA Headquarters, and a new effort on ocean acidification.

We also discussed the potential impact of the most recent elections on EPA. Expectations are that environmental programs will not be strongly supported. Our increment of base funding from EPA through the Section 320 budget line is expected to remain constant from last year, as the federal budget is expected to be on a continuing resolution until next year. Further details are expected in February or March.

We hosted a meeting of the West Coast NEP directors in September, (Santa Monica Bay, Morro Bay, San Francisco Bay, Tillamook Bay, Columbia River, Puget Sound) to work on issues of mutual interest, especially relating to public outreach and joint administrative issues.

I went on a two-day Russian River tour in October and came away with some great lessons on issues of fresh water supply and riverine impacts, as well as the community response in the watershed and innovative water recycling projects and techniques.

Proposed 2015 IC Meeting Schedule

Tuesday, March 3, 2015 9:30am-12:30pm

Wednesday, May 27, 2015 9:30am-12:30pm

Wednesday, Aug 26, 2015 9:30am-12:30pm

Tuesday, Nov 17, 2015 9:30am-12:30pm

We'll review these proposed dates and approve the schedule at this meeting. Since several of our regular Wednesday meeting times posed conflicts for the Chair or Vice Chair, please note that the

Puget Sound

Columbia River

Pacific

Region

San Francisco

Morro Bay

proposed schedule contains two Tuesday dates. All times remain the same: 9:30am-12:30pm. We expect to be able to hold all the meetings in our current room.

Refreshing IC Membership: I've been working to infuse the IC with new energy, as discussed at previous meetings this year. I've issued several invitations to prospective members at new agencies that haven't been at the IC table in the past. I have several more discussions scheduled with prospective IC members, and we'll continue to update the list over the coming months. The first new IC member to accept my invitation is Carol Mahoney of the Zone 7 Water Agency, whom we'll welcome at this meeting. We've also secured new faces for returning agencies, and please join me in welcoming new member Blake Roberts of the Delta Protection Commission, who is replacing Alex Westhoff. We've reviewed and cleaned up our current membership list: deleting outdated members and removing duplicates for a given agency.



Sadly, a few key IC members will be moving on: Supervisor Susan Adams' term ends in January, and Peter LaCivita will be retiring. Many thanks to both of them for their service, ideas, and work to liaison between SFEP and their agencies.



The current IC list is below. You can always find the listing at the IC page on SFEP's website, www.sfestuary.org/about-us/implementation-committee. Suggestions are also welcome.

John Andrew, California Department of Water Resources

Alyson Aquino, U.S. Dept. of Agriculture, Natural Resources Conservation Service (*likely transitioning to a new staff member)

John Coleman, Bay Planning Coalition

Josh Collins, San Francisco Estuary Institute

Jessica Davenport, Bay Delta Stewardship Council

Arthur Feinstein, Citizens Committee to Complete the Refuge

Steve Goldbeck, Deputy Director, Bay Conservation and Development Commission

Rainer Hoenicke, Bay Delta Stewardship Council

Marc Holmes, Bay Restoration Program Director, The Bay Institute

Beth Huning, Coordinator, San Francisco Bay Joint Venture

Amy Hutzel, SF Bay Area Regional Manager, California Coastal Conservancy

Thomas R. Kendall P.E., Chief, Planning Branch, U.S. Army Corps of Engineers, SF District

John Klochak, SF Bay Program Manager, U.S. Fish and Wildlife Service

Peter LaCivita, Fishery Biologist, U.S. Army Corps of Engineers, SF District (*likely transitioning to a new staff member after Peter's retirement)

Jane Lavelle, SFPUC

David Lewis, Executive Director, Save The Bay

Carol Mahoney, Zone 7 Water Agency

Jessica Martini-Lamb, Sonoma County Water Agency

Thomas Mumley, Assistant Executive Officer, San Francisco Bay Regional Water Quality Control

Board

Julie Pierce, Councilmember, City of Clayton

Chris Potter, Coastal Grant and Wetlands Coordinator, California Resources Agency

Blake Roberts, Delta Protection Commission

Barbara Salzman, Marin Audubon Society

Korie Schaeffer, Coordinator, Northern California Coastal and Estuarine Team, National Marine Fisheries Service

Harry Seraydarian, Executive Director, North Bay Watershed Association

Claire Thorp, Assistant Director, Southwestern Partnership Office, National Fish and Wildlife Foundation

Melody Tovar, Regulatory Program Division Manager, City of Sunnyvale

Luisa Valiela, San Francisco Bay Lead, SF Bay Delta Watersheds Program, U.S. EPA Region 9 **Michael Vasey**, SF Bay National Estuarine Research Reserve; San Francisco State University Romberg Tiburon Center for Environmental Studies

David Williams, Executive Director, Bay Area Clean Water Agencies

Sam Ziegler, Watersheds Office Manager, U.S. EPA Region 9

Staff Changes: We are bidding farewell to a few SFEP contract staffers whose outstanding work has been recognized by the Water Board: Maggie (Margarete) Beth is moving on to work for the San Francisco Regional Water Board after 6 years with SFEP as a permit writer for Santa Clara County. Paul Modrell, who joined SFEP a year-plus ago as a permit writer for the Marin County and Sonoma-Marin Area Rail Transit (SMART) project, has also accepted a position with the Regional Board's Planning division, working on the grazing and vineyard programs in Sonoma Creek and Napa River watersheds.

Awards



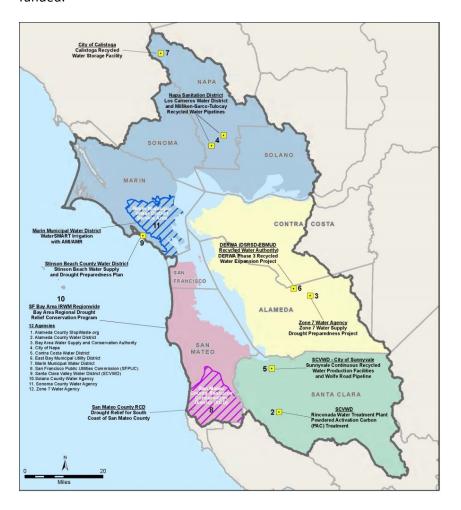
IRWMP Round 3: The Department of Water Resources announced the Integrated Regional Water Management Plan (IRWMP)'s Round 3 grant final awards on November 4, making it official that ABAG (SFEP's home agency) will be the grantee for \$32,178,423 to fund 11 projects known together as the Bay Area Drought Relief Program, or Bay DRP. ABAG was the only applicant for this umbrella proposal for all the San Francisco Bay Area projects. One project from the proposal (the Santa Clara Valley Water District's Rinconada Water Treatment Plant Powdered Activated Carbon project) was not accepted and was not a part of the final award.

The table below shows funded projects.

Primary Project Benefit	Project	Agency	Requested Grant Amount	Project Description
Water Supply Enhancement	Lower Cherry Aqueduct Emergency Rehabilitation Project	San Francisco Public Utilities Commission	\$3,000,000	The project provides access to 150,000+ acre-feet (AF) of immediate, cost-effective, potable water for drought preparedness for 2.6 million Bay Area residents.
	Zone 7 Water Supply Drought Preparedness Project	Alameda County Zone 7 Water Agency	\$3,000,000	Zone 7 The project constructs a new well and short pipeline to increase water supply in the Livermore-Amador Valley during severe drought conditions.
	Los Carneros Water District and Milliken-Sarco- Tulocay Recycled Water Pipelines	Napa Sanitation District	\$4,000,000	The projects extend recycled water distribution infrastructure, which will offset groundwater and surface water use in the Napa Valley.
Recycled Water	Sunnyvale Continuous Recycled Water Production Facilities and Wolfe Road Pipeline	Santa Clara Valley Water District / City of Sunnyvale	\$4,000,000	The project consists of plant improvements and construction of a recycled water pipeline to offset 1,680 acre-feet per year (AFY) of potable water demand.
	DERWA Phase 3 Recycled Water Expansion Project	Dublin San Ramon Services District/East Bay Municipal Utilities District	\$4,000,000	The project includes construction of 9 miles of recycled water pipelines (867 AFY), which will replace potable demand with recycled water.
	Calistoga Recycled Water Storage Facility	City of Calistoga	\$750,000	The project enhances recycled water production and storage to provide increased water supply for urban and agricultural use.
Human Right to	Drought Relief for South Coast San Mateo County	San Mateo Resources Conservation District/American Rivers	\$3,872,000	The project enhances water supply and management to improve drought preparedness and drinking water supply reliability.
Water	Stinson Beach Water Supply & Drought Preparedness Plan	Stinson Beach Water District	\$937,452	The plan mitigates water supply shortages and increases water conservation efforts in response to current and future droughts.
Drought Preparedness	Bay Area Regional Drought Relief and Water Conservation Project	Stopwaste.org and Water Agencies	\$5,993,971	The project expands indoor and outdoor water use efficiency efforts to support the statewide 20% drought demand reduction goal.

	WaterSMART Irrigation with AMI/AMR	Marin Municipal Water District	\$975,000	The project provides immediate drought preparedness by improving landscape irrigation efficiency and achieving longterm water use reductions.
Administration	Grant Administration	ABAG/SFEP	\$1,650,000	The grant administration task ensures that IRWM grant funds for the 11 projects are properly managed, projects completed, and schedules met within budget.
	Proposal Total		\$32,178,423	

The map below illustrates locations for each project, although note that note this map, from the application, still shows the eliminated SCVWD powdered activated carbon project, which is not being funded.

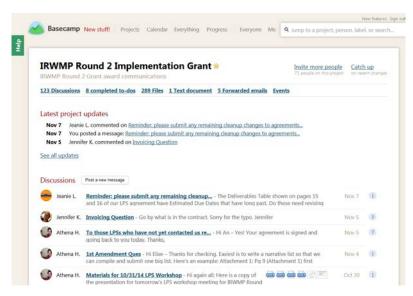


SFEP is seeing a significant increase in funding awards received. IRWMP Rounds 2 and 3 brought in \$20M and \$32M, respectively, and 30 new projects. This boosts our total budget and number of projects managed, with relatively lean staffing.

ABAG was also the grantee for IRWMP Round 2, a \$20 million grant covering 20 projects, which was awarded in February with agreements with Department of Water Resources signed in July.

SFEP Program Activity

IRWMP 2: SFEP staff are working to establish the administrative structure for this project. This \$20 million award is larger than those we have managed in the past, and we are working diligently to establish procedures to successfully manage the award. Staff have met with DWR to develop invoicing and reporting mechanisms for the projects. They have drafted subagreements for each Local Project Sponsor, and are working to resolve any issues and bring those agreements to signature. (Approximately two



thirds of the agreements are signed.) SFEP held a workshop for the LPSs on October 31 to review the procedures for invoicing and reporting.

One of the more complex projects under Round 2 is the water conservation projects, itself an umbrella project including 11 agencies (water agencies and a nonprofit) implementing an array of projects aimed at conserving water, from rebates for home installations of high-efficiency toilets and washers and lawn removal rebates ("cash for grass"), to providing rebates for high-tech landscape irrigation controllers for homes and large institutions, to workshops for landscaping professionals and farmers on best practices to conserve water during irrigation. Another grant workshop will be held November 19 to bring these 11 agencies up to speed on reporting and invoicing procedures tailored to their specific project.

Potable Water Discharge Permit Wraps Up: Susan Glendening joined us to work on a regional permit for potable water discharges for the Water Board. Her work broke new ground on this ongoing issue and helped to shape new statewide NPDES permit for discharges from drinking water systems. The regional project is wrapping up, as the State Water Board plans to adopt the statewide permit on November 18, 2014.



The Biennial Bay-Delta Science Conference was held October 28-30th in Sacramento. The 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

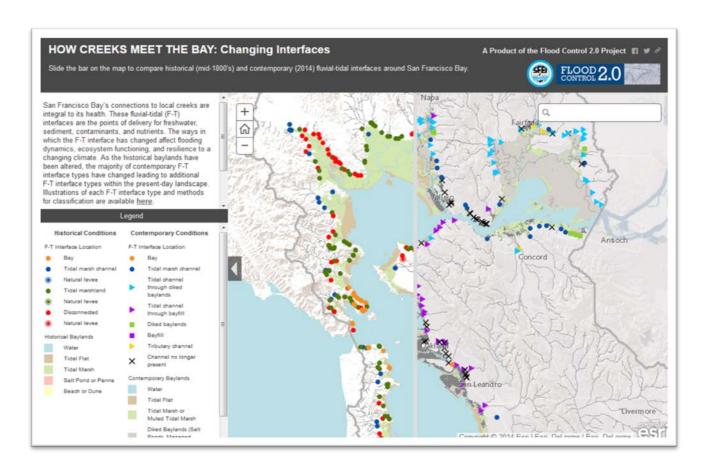
unbiased, science-based information. There were over 1,100 participants, 250 speakers, and 175 poster presenters at this year's conference. Abstracts are currently posted on the web site and organizers are also trying to post PDF files of some of the presentations by December. Visit the web site to download the program and the abstracts: http://scienceconf2014.deltacouncil.ca.gov.

Boating Outreach: SFEP partnered with Septic Brothers to host a Delta Honey Pot Day on August 31, 2014. This event including working with the Sea Ray Boat Club of Northern California and pumping out any other boats in the area. Septic Brothers pumped out a total of 62 boats and properly disposed of a total of 2,745 gallons of sewage. The boaters serviced were educated on the implications of dumping sewage in the delta, the regulations regarding sewage discharge, and were given clean boating resources.



to start planning the overall scope of the conference and the plenary sessions. In March, the committee will be looking for additional input for concurrent sessions. If you have ideas about plenary speakers or concurrent sessions, please contact Karen McDowell, kmcdowell@waterboards.ca.gov.

Flood Control 2.0: Concurrent with the Bay-Delta Science Conference, the San Francisco Estuary Institute released an interactive online map comparing the historical and current interfaces between creeks and the San Francisco Bay. Flood Control 2.0 partners distributed handouts and informally discussed the online map and the project in general with various attendees at the Bay-Delta Conference. The online map, How Creeks Meet the Bay: Changing Interfaces, can be accessed at: http://storymaps.sfei.org/flood-control/.



In addition, Caitlin Sweeney presented the Flood Control 2.0 Project in a session at the Joint Summit of Restore America's Estuaries and The Coastal Society, held in Maryland in November. The Summit theme was *Inspiring Action, Creating Resilience* and was attended by more than 1200 people.



Finally, as a reminder, four podcasts on the Flood Control 2.0 project are available at: http://www.yourwetlands.org/podcasts.php

Outreach

Bay+Delta+Water: Better Together

A Conference on Fresh Water in Our Bay-Delta Estuary

More than 200 elected officials, agency leaders and community advocates from the San Francisco Bay and Delta regions convened on September 24th in Antioch to discuss the role that fresh water plays in the San Francisco Bay-Delta Estuary. Presented by the Association of Bay Area Governments, Delta Counties Coalition, and Friends of the San Francisco Estuary, the half-day conference focused on collaboration among the 12 Bay Area and Delta counties as the key to helping and identifying shared



Panel: (L to R) Delta Stewardship Council Chair Randy Fiorini, San Joaquin County Supervisor Larry Ruhstaller, Contra Costa County Supervisor Mary Piepho, and Rivers and Delta Program Director Gary Bobker (The Bay Institute)

solutions to issues of freshwater flows and its impacts on public health, ecosystems, recreation, and the economy.



The conference included a discussion component focusing on action steps. Writeups of those discussions are posted at http://friendsofsfestuary.weebly.com/proceedings.html along with speaker presentations and coverage by the Maven's Notebook water blog.

ATTACHMENT 1

ESTUARY News: The September issue featured new science on how to identify plankton species by color, new surveys on the spread of invasive sea lavender, and surprising findings concerning PCB levels in small fish. It covers the disappointing end to a bid for Wild and Scenic River status for the Mokelumne, and the slow pace of restoration along Alameda Creek. Other stories discuss the impacts of drought on valley wildlife refuges, protocols to make Delta restoration projects more efficient, and a new film about Pelicans. If you haven't read it yet, view it online at www.sfestuary.org/wp-content/uploads/2014/09/EstNewsSept2014-v8.pdf.





San Francisco Estuary Partnership Implementation Committee Meeting

August 27, 2014 Elihu M. Harris State Building Oakland, California

DRAFT MEETING SUMMARY

Welcome and Introductions: Amy Hutzel, Chair of the Implementation Committee, called the meeting to order at 9:40 am with a round of introductions.

Public Comment: None

Director's Report: Judy reminded the IC that the group tentatively approved the Work Plan at the May meeting and she will add the final approval of the Work Plan, with changes, under Item 4, Action Items. Workplan changes from suggestions at the last meeting were made, and those changes are listed in the May meeting minutes.

She directed attention to Director's Report page 11 for an ACWA summary of provisions in the latest water bond. Amy Hutzel described the sections that might be of interest to the IC, particularly the watershed/ecosystem restoration section, which will give the State conservancies \$327 million.

- Arthur Feinstein asked about the repurposed moneys from earlier bonds. Amy noted they've been told that portion will only be 9M of new money, from unspent administrative funds.
- Judy noted that the money for storage is a continuous appropriation, meaning they don't have
 to go back to the legislature for further studies or any other uses. John Andrew noted that the
 potential projects could include surface or groundwater. Those funds are going through the
 California Water Commission rather than DWR and needs a positive cost benefit ratio. Judy
 noted that some think this could favor ground water storage.
- The bond is not passed yet (set for November ballot) but is polling well and has strong governor's support. Discussion will continue at the November IC meeting.
- Harry Seraydarian noted that some funding is set aside for planning and monitoring. Tom
 Mumley suggested that we should start preparing but the competitive process for funding
 distribution may not start for another two years and in all there is plenty of time.
- Amy noted there are requirements to set up competitive grant programs, with three public meetings across the state. The first funds wouldn't appear until July 2015.

SFEP is managing IRWM Round 2 and proposing to manage IRWM Round 3. Projects in each are listed in the Director's Report. ABAG/SFEP's role is management only in Round 3, whereas we have one project in Round 2 (the Oro Loma project in conjunction with the Oro Loma Sanitary District).

The Bay-Delta Science Conference is in October in Sacramento, attendance encouraged.

Planning for the 2015 State of the Estuary conference will begin late this year. The conference will be held in October 2015 in Oakland, again in partnership with the Regional Monitoring Program. Karen McDowell is the SFEP staff lead. Judy highlighted the detailed memo about the State of the Estuary Report from Letitia Grenier that is included in the Director's Report; there has been lots of progress in setting up teams and reviewing sections from 2011 report. The report will incorporate Delta data and link up with 2011 indicators. Conversations are in process and good partners on board.

The Chinook Book includes an advertising section for the Our Water Our World program and purchasing less toxic pesticides.

A special half-day conference on freshwater needs in the Bay and Delta will be held on September 24 in Antioch. "Better Together" is the theme, and it's sponsored through Friends of the Estuary.

Actions Taken: It was moved to approve May minutes and seconded by Arthur Feinstein. All approved. Arthur moved to approve the final work plan; Harry Seraydarian seconded. All approved.

Reports on SFEP Activities: Adrien Baudrimont gave a short presentation on the small and micro grants program completed earlier in 2014. Of \$50K total, small grants were awarded up to \$5K, and microgrants were up to \$1k. The goal was to target different types of audiences and projects. All was handled through the SFEP watershed program, built to address CCMP goals. Projects included signage, tours, and educational projects with schools, and they are highlighted on an SFEP web page: http://www.sfestuary.org/our-projects/watershed-management/small-grants-release.

- Amy noted Conservancy has done similar projects for slightly larger \$ and supports them.
- Tom noted he hopes there's a criterion for ongoing work in the watershed so that restoration work is able to be maintained. Adrien replied "yes" there's a sustainability criterion.
- Caitlin noted that the participants presented posters at the SoE conference last year (session organized by Adrien), and presenters were happy to be there and grateful to get the funding.

Caitlin gave a status update on the CCMP revision project. The process is coming together; the Steering Committee is established and meeting; Caitlin is working on getting subcommittees up and running now and turning to content development. The Steering Committee agreed on a critical aspect of structure of new document: goals will be aspirational, based on a 35-year vision to 2050. The objectives and actions will be updated every 5 years. Objectives will be specific statements that make progress towards achieving goals, will be measurable, specific, and practical. Actions will be tasks to reach objectives; they will include "owners" and be achievable within 5 years.

Caitlin described criteria for objectives and actions. Subcommittees are forming based on topic areas, starting with Water, Habitats, and Living Resources. She circulated a handout showing members of each subcommittee. Climate change is integrated into every one of the topic areas. We received additional funding to provide honoraria to climate change experts for participation. SFEP staffers will coordinate subcommittees, draft language, edit, provide straw proposals, etc., in order to use subcommittee

members' time efficiently. Marc Holmes will be assisting. Caitlin is keeping a list of targeted reviewers who should review; she requested any additional input on these. Plans call for five meetings between September and May. The first of those meetings will be on goals, and the remaining meetings will focus on objectives/actions, owners, etc.

Overall schedule: development through fall 2014-early 2015, debut the draft at State of the Estuary Conference in 2015, incorporate feedback and input, finalize in 2016, approvals, release by May 2016, and public outreach afterwards.

- Amy asked what constitutes final. Judy noted that she and EPA are working on that question.
 Historically final has meant approval by the State of California and EPA, and that has taken time.
- Josh Collins noted that the timeline looks ambitious, especially given the State of the Estuary
 report. He likes the theory of both items dovetailing but is concerned about feasibility. Caitlin
 notes we are seeking other funding which would allow other more staff to be brought to bear.
- Josh asked if outreach would slow the process. Judy noted that the outreach will be iterative.
 Tom noted that if any actions are controversial, that could slow the process; if we include actions we have control over it would be smooth but there will be some that we don't have control over.
- Arthur said that it will be challenging to choose actions, and we all know that the number of
 actions will be limited. He said he will be disappointed if we take a very easy road-he hopes that
 we will set the high mark and includes some aggressiveness re what the bay needs.
- Josh noted that the Bay-Delta Science Plan looks at linkages for whole estuary. The CCMP is the only document to look at whole estuary.
- Caitlin described next steps: kickoff meetings, public and agency outreach, create a mailing list for updates, website, and a regular section in Estuary newsletter. The team will formalize the review process for draft documents and will solicit input along the way.
- Amy noted that many other Delta groups are needed, but Luisa Valiela noted that we should have conversations first on which should be included. Amy noted sensitivity is needed when San Francisco Bay folks come up with Delta plans, to avoid negative reception. Josh suggested asking Rainer Hoenicke, Campbell Ingram, and Carl Wilcox for feedback on approach, such as who should we talk to for sage advice. Please send suggestions to Judy re: representation.

Amy Hutzel discussed the decision not to move forward with the Bay Restoration Authority ballot initiative to raise local funding for wetland restoration this November. BRA has been working towards placing a regional measure on the ballot, doing polling, settled on a \$9 per parcel tax for the entire 9-county bay area, to go towards restoration or enhancement of SF Bay shoreline and associated flood protection and public access and restoration. More recent polling had picked back up and showed above 2/3 support, with positive messaging was in the 70s. There was an expenditure plan, a list of potentially eligible projects, and ballot access would cost \$5-7million. Hancock carried legislation to define those costs so they would be \$1.5-2 million for the full Bay Area, though that expires at the end of 2016. The project was close to identifying funding for ballot access costs through local agencies. The biggest issue at the end came down to campaign funding. The Bay Area Council and Silicon Valley Leadership Group

had committed to finding some funding, but it was not in place by June when the decision needed to be made. The Restoration Authority board meets again in September to discuss, and partners are continuing to work on this. The Committee discussed the history of support for the measure and the difference between 501 C1 and C (3) actions. Amy noted that flood protection polls lowest, people don't appreciate risks and value of flood protection infrastructure. Polling results are on the BRA website, http://sfbayrestore.org.

Highlighting IC Partners Efforts: Jeremy Lowe, ESA PWA: "Why a horizontal levee?"

Jeremy showed diagrams of how the horizontal levee pilot project at Oro Loma Sanitary District would look and discussed its ecological, flood risk management, and wastewater management benefits. This project provides a pilot, proof of concept to refine the design through experiment and further the regulatory dialogue. The project has a sloped area that will be built as an experiment. The slope will have pumps and valves, very manipulable, to play around with flows, soils, concentrations. It will be a treatment wetland, not claiming ecological benefits for that part. The project will look at vegetation types and water quality benefits. Treated water will flow back into facility (closed circuit system) and Buckman canal. OLSD self-funded the conceptual design. Final report done by 2018

- Josh Collins noted that there's remnant historical transitional zone nearby, and asked Jeremy to remind Peter Baye that there's a reference site next door, although it's not very large.
- Josh Bradt asked how they are doing the seepage. Jeremy said they want to use readily available
 materials: bay mud, sands, gravel, wood chips, sawdust, other organics. You need right matrix of
 water flow through, right conditions for plants to grow and denitrification. Flows will be treated
 wastewater effluent (100KGD) which will seep through roots of slope. This is to avoid
 denitrification treatment costs.

Brenda Goeden, BCDC: "The future of beneficial reuse"

Brenda gave some background on the LTMS (Long-Term Management Strategy for Dredging)'s 12 year review project. The LTMS work comes under the CCMP's dredging and waterways section. It has several goals, one of which is to reduce in-bay disposal and maximize beneficial reuse with ocean disposal as a backup. The goals were established in the 1980s (Harry Seraydarian was involved). There were concerns about contamination and navigability because permitting for dredging took so long. In 2000, a management plan was published. The implementing agencies were EPA, BCDC, Water Board, and the Corps of Engineers. They planned a 12-year transition of reducing in bay disposal from 6.6MCY to 1.25MCY. There were step-downs every 3 years of allowable in-bay disposal total. There were several disposal sites in bay. There were about 100 dredging projects in the bay including 17 navigational channels, berths for ports and refineries, homeowner slips, etc. Dredge material had to meet sediment quality targets for in-bay disposal, and when the bay quota was met, sediment went to ocean disposal or other sites. There was a large peak in volume dredged during the Oakland Harbor deepening project. The region successfully met the in-bay disposal goals throughout the period. Now they are working to

hold at 1.25MCY/year in the bay. Anything above needs to go somewhere else. The current plan calls for 40/40/20: 40% beneficial reuse, 40% out of bay disposal, and 20% in bay.

The 12 year review key findings: 20MCY beneficial reuse, 20MCY of in-bay disposal, 8 MCY at the Deep ocean disposal site. Findings: there is still capacity for ben. reuse. 128 reuse projects were identified, and many are still available, though with challenges. Dredging of navigational channels continued, though not always to their full depths depending on funding available. Costs matter: disposal in bay is cheapest, and beneficial reuse is most expensive. Now: they consider beneficial reuse more important than ever because of climate change and decreased sediment supply from delta. There is 37% less sediment coming in from the Delta since 1998, and that trend is continuing. It's not getting any better; the erodible sediment bed has declined significantly, and sediment is trapped behind water control structures. We could see less sediment still coming in the future. Yet the need for sediment is increasing with sea level rise. Dredge material of 2-3MCY per year is available from maintenance. Other sources include flood control channels, etc. What makes a site a good candidate for reuse? A site that is very subsided, or a site with low levels of suspended sediment nearby, specific habitat qualities targeted (Hamilton - tidal marsh and also seasonal wetlands required even higher elevations at the back of the site), time horizon to vegetation. If you can get to marsh plain elevation quickly, your vegetation will establish more quickly. Hamilton, Sonoma Baylands, Montezuma Wetlands were big sites that used beneficially reused materials. Aramburu Island used a small amount from SF marina. Other sites to use dredge material: SBSP (Pond A8 – but very far from dredging sites – Eden Landing, Ravenswood), Skaggs Island, Cullinan Ranch taking 400KCY now, Bel Marin Keys could take 7-14MCY, smaller projects – shallower water means smaller volumes coming over longer periods of time. In something of a lull now for beneficial reuse, given the challenges to get mud to marsh. Funding is the key problem. We have done reuse, know how to move sediment, and funding is the challenge. To move a large mass, you need a lot of energy and specialized equipment. The dredge community says, 'we are spending \$15-20 million to dredge, we don't have extra money to move it to your site.' Governments and project proponents say, 'we don't have the funds to move materials.' There is a need to work together regionally – a pipeline or barge needed. New work projects can have mitigation required, can have opportunities to build in funding for beneficial reuse. Another way to incentivize beneficial reuse is to make ocean disposal more expensive. Dredgers will do what's cheapest. The Corps is the largest dredger, and the federal standard says have to go to least-cost, environmentally-acceptable alternative: the ocean qualifies.

Big picture: mudflats are a problem in placement, pumping for a longer distance equals more money, more equipment equals more money, and there is always the preference for least cost. Other sources of sediment: Bair used dredge material and also excess construction soil. Upsides: many goals plans call for additional sediment reuse. Lots of need: baylands habitat goals, tidal marsh recovery plans, species recovery plans. Options: create an aquatic transfer facility for quick offload of dredge material and store until needed. Co-locate offloading equipment: have a regionally available/shared offloader. Incentives: open work windows for salmon in exchange for beneficial reuse?

Concluding Business

Review road map. Amy solicited items for the year. Tom says we're already taking on too much, so everyone note priorities. *November suggested additions:* Continue Water Bond discussions. *February additions:* Baylands Ecosystem Habitat Goals update –Letitia

Announcements

National Estuaries Week is the week of September 20. Judy noted that pictures from Estuary Conference and the billboard ("freshwater and salt water, a love story") will be displayed at the Ferry Terminal in San Francisco. National Estuaries Week will be highlighted for a month on SFEP website, please send any ideas for inclusion to Judy.

The Bay Institute/Aquarium of the Bay Gala in being held in October (Marc).

The next meeting is November 18, 2014.

The meeting was adjourned 12:28pm.

Meeting Attendees:

John Andrew, DWR

Jane Lavelle, SFPUC

Julie Pierce, City of Clayton

Josh Collins, SFEI

Marc Holmes, The Bay Institute

Melody Tovar, City of Sunnyvale

Austin Perez, Bay Planning Coalition

Tom Mumley, San Francisco Bay Regional Water Board

Judy Kelly, San Francisco Estuary Partnership

Amy Hutzel, State Coastal Conservancy

Luisa Valiela, U.S. EPA

Erica Yelensky, U.S. EPA

Harry Seraydarian, North Bay Watershed Association

Arthur Feinstein, Citizens Committee to Complete the Refuge

Jessica Martini-Lamb, Sonoma County Water Agency

Mike Vasey, San Francisco National Estuarine Research Reserve

Road Map for Upcoming IC Meetings

March 2015

Potential

- Resilient Shoreline Planning: SFEP/ABAG, BCDC, CCC status
- 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
- State of the Estuary 2015 planning
- Work plan discussion

May 2015

Potential

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Confirmed

- CCMP update discussion
- State of the Bay report update
- State of the Estuary 2015 planning
- SFEP 2016 workplan approval

August 2015

Potential

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Confirmed

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

November 2015

Potential

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