

SAN FRANCISCO ESTUARY PARTNERSHIP
Implementation Committee Meeting
Wednesday, August 28, 2013, 9:30 a.m. – 12:30 p.m.
1515 Clay Street, 2nd Floor, Room 10, Oakland, CA

AGENDA

- 1. Introductions**
Approval of May 22, 2013 Meeting Summary *Attachment 1*
9:30 *Amy Hutzel, IC Chair*
Action
- 2. Public Comments**
9:35 Any member of the public may address the IC on any matter regarding implementation of the Comprehensive Conservation and Management Plan (CCMP). Three minutes. Written comments are also accepted.
- 3. Director's Report** *Attachment 2*
9:40 *Judy Kelly, Director*
- 4. SFEP Activities**
9:50
Action
The CCMP 20th Anniversary Review *Ariel Rubissow Okamoto* *Attachment 3*

Special Estuary News magazine Report
Discussion: Defining the big picture accomplishments of the CCMP program areas
[aquatic resources, wetlands, water use, dredging/waterway modification, wildlife, pollution,
land use & watershed management]
- 11:00 **BREAK**
- 5. Restoring the Bay's Wetlands: Restoration Authority Update and Discussion**
11:15 *Patrick Band, Save The Bay*
- 6. The New Delta Stewardship Council's Science Plan**
11:50 *Rainer Hoenicke, DSC*
- 7. Concluding Business**
12:15 Road Map: Review, additions to agenda items for upcoming IC meetings *Attachment 4*
Action
- 8. Announcements**
12:25
- 9. Adjourn**
12:30

**San Francisco Estuary Partnership
Implementation Committee Meeting**

May 22, 2013

Elihu M. Harris State Building
Oakland, California

DRAFT MEETING SUMMARY

1. Introductions

Amy Hutzel, Chair of the Implementation Committee, called the meeting to order at 9:35 am. A round table of introductions followed. Amy reviewed the meeting agenda for today.

The Meeting Summary from the March 6, 2013 was approved.

2. Public Comments: no public comments.

3. Director's Report – Highlights

- Judy noted the small grants program awards under the Watershed Program as described in the Director's Report. Barbara Salzman questioned the educational focus of the awards and Adrien stated the activities were much broader than just education.
- Judy gave kudos to James Muller on the website upgrade and maintenance.

4. SFEP Activities

Strategic Plan Update

- Judy requested approval of the Strategic Plan update. There were brief comments on the plan and Susan Adams moved approval with a second by Harry Seraydarian. The Plan was approved.
- Judy noted SFEP will still have Annual Work Plans to bring to the IC for approval.
- SFEP will be tracking SP goals annually to see how we are doing; next report in May next year.
- Brief discussion of 20 Year retrospective report.
- Impact of sequester cut on NEP funds much greater than originally announced by EPA. Funds cut from \$597,334 to \$512,000, an \$85,000 or 14% cut, also down from a high of \$800,000 two years ago. Staff works under 35 grants and contracts; these are SFEP's only discretionary funds.
- As a result of this major funding cut, Judy proposed elimination of the *Estuary News* newsletter. There was a lengthy discussion of this proposal. Ariel Okamoto, newsletter editor suggested 3 options:
 - 1) Cease publication
 - 2) Recommit and make more secure with outside contributor funds
 - 3) Make the newsletter someone else's projectJudy will take lead in developing options based on Ariel's 3 options.

Got Ants? Presentation-Janet Cox

- GotAnts? Is a social media campaign to amplify the messaging of pesticide reduction using an IPM approach.
- Website was launched last week. www.gotantsgetserious.org

- Staff and IC members noted advertising on buses and BART.
- Facebook page for public to take the pledge to use less toxic pesticide approach.
- Last year DPR promulgated regulations for surface water applications; they are monitoring to document results of these regulations.
- Need to emphasize link to water quality.

5. NFWF Presentation-Mike Chrisman

- NFWF is a Congressionally chartered 501(c)(3).
- Focus is fish and wildlife habitat restoration.
- Leverage funds 3: 1 for on the ground conservation projects.
- Do not advocate or litigate.
- Have a 30 member Board including the head of the US Fish & Wildlife Service and NOAA.
- Large landscape restoration/conservation focusing on Keystone Programs:
 - Birds
 - Wildlife and habitat
 - Freshwater fish
 - Water quality
- Have specific conservation metrics; use indicator species; Bay would include eelgrass; oysters; clapper rail; steelhead
- EPA gives NFWF \$8-\$10 million per year
- Currently developing an investment strategy for the San Francisco Estuary; takes a year to develop a conservation business plan. Shape priorities around a focus area. Outcome focused process; threats, goals, opportunities for conservation.

6. IRWMP Funding 2014-Jennifer Krebs

- DWR pot of \$73 million for Bay Area projects.
- Current list includes 315 projects total \$4 billion
- Agendize richer project discussion in August
- Integrative cooperative projects fare better- IRWMP has dynamic process for adding projects
- Will put contact slides on IC Agenda web page

7. Announcements

- State of the Estuary Conference- Call for Posters is out
- Finalizing program in next month
- SBWQIF RFP due out today or tomorrow
- Plan Bay Area- grant opportunity- \$10 million for PCAs --\$5 million for North Bay counties conservation projects. Cities, counties or congestion agencies are proponents. Proposals due July 19 to Coastal Conservancy.

8. Concluding Business

Agenda items for upcoming meetings:

- IRWMP projects/process
- EcoAtlas

- Delta Plan
- Russian River NOAA project
- Stormwater/LID

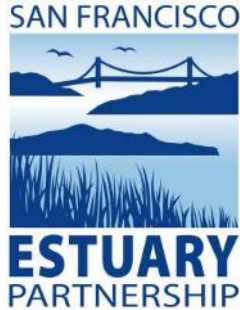
9. Adjourn

The meeting was adjourned at 12:30 pm. **The next meeting is August 28, 2013.**

SFEP IC Meeting Attendees

Susan Adams	ABAG/Marin County
John Andrew	DWR
Mike Chrisman	NFWF
Stephanie Coupe	NFWF
Jessica Davenport	Delta Stewardship Council
Matt Gearhart	SCC
Beth Huning	SF Bay Joint Venture
Amy Hutzel	Coastal Conservancy
John Klochak	USFWS
Jane Lavell	SF PUC
Peter LaCivita	US Army COE
Jessica Martini-Lamb	Sonoma County Water Agency
Tom Mumley	San Francisco Bay Water Board
David O'Neill	NFWF
Barbara Salzman	Marin Audubon Society
Harry Seraydarian	North Bay Watershed Association
Korie Schaeffer	NOAA Fisheries
Luisa Valiela	US EPA
Renee Webber	Sonoma County Water Agency
Alex Westhoff	Delta Protection Commission
Meredith Williams	SFEI

SFEP Staff	Melissa Gunter	Ariel Okamoto
Judy Kelly	Jennifer Krebs	Caitlin Sweeney
Josh Bradt	Karen McDowell	Paula Trigueros
Adrien Baudrimont	Jesse Mills	
Derek Beauduy	Paul Modrell	
Janet Cox	James Muller	



DIRECTOR'S REPORT

August 28, 2013

SFEP MANAGEMENT

Director to travel to DC to meet new Administrator

I will be going to DC on September 17th to meeting with the new US EPA Administrator, Gina McCarthy, as part of a small group of National Estuary Program Directors. The planned 45 minute meeting will give the Directors the opportunity to speak to the Administrator about the 20 year history of successes which the NEPs have accomplished, highlight several projects that help implement EPA programs, and to hear from her what priorities she sees for the Agency and how the NEPs can assist with those efforts.

Briefing for ABAG Executive Committee

I will be speaking to the ABAG Executive Committee on September 19th to brief them on the progress and status of freshwater flows into San Francisco Bay since they passed a Resolution in 2011 calling for additional freshwater flows to better protect and restore the Bay. I will be using an updated briefing paper which describes the current chronic drought condition of the Bay and update them on the status of the Bay Delta Conservation Plan [BDCP] and the State Water Board's Bay-Delta Water Quality Control Plan. BDCP is a plan for new conveyance facilities and habitat restoration. The Bay-Delta Water Quality Control Plan updates regulatory requirements for flows allocated to human and non-human uses. The outcome of these two efforts will greatly impact the future of the San Francisco Bay and Delta by determining how much fresh water from the Sacramento and San Joaquin Rivers will flow through the Delta and into the Bay. I am working closely with Darcie Luce, the staff person for Friends of the Estuary, on coordinating with ABAG officials regarding this issue.

Funding

As reported in the last meeting, the anticipated budget cut from our annual EPA support was finalized; we were reduced from last year's **\$597,000 to \$512,000**. This reduction, along with the surprise loss of a State Board contract, will likely mean a reduction in staff or a reduction to part-time time for at least one of the SFEP staff in November.

Additionally, as discussed at the last IC meeting, our SFEP contribution to the production of the Estuary News will be greatly reduced. However, there is a happy ending on this issue...

Estuary News Magazine SAVED!

Thanks to the quick and significant response by a number of our partners, and the small individual contributions of devoted readers, Ariel has determined that Estuary will continue to be

written and mailed on a quarterly basis starting in January 2014. There will be a special edition of *Estuary* to coincide with the State of the Estuary Conference highlighting 20 years of CCMP implementation and will include an insert highlighting 20 years of RMP work as well. Thanks to all of you who have come to *Estuary's* aid, especially the Delta Science Program, the Regional Monitoring Program, NOAA, SFEI, USGS, the Coastal Conservancy, and BCDC.

New Grants Received

- A Prop 84 planning grant from the State Water Board to collaborate with SFEI for development and application of a Green Infrastructure GIS based planning tool to assist local municipalities in selecting low impact development sites based on their potential to reduce runoff and pollutant loads in their watershed. (Grant \$597,901; Match \$217,000).
- A Prop 84 grant from State Water Board to BASMAA for various trash efforts; the SFEP portion will be to coordinate creation of a statewide trash portal; oversee the upgrade of the SFEP/SFEI created Trash Tracker website to include other regions, and the expansion of Tracker's functionality (\$190,000).

Outreach- Boating

SFEP and the Department of Boating and Waterways Clean Vessel Act Program partnered with Septic Brothers in the Sacramento Delta and worked with Sequoia Yacht Club and Oakland Yacht Club, to arrange pump-outs for their cruises to Delta Yacht Club on August 8, 2013. SFEP traveled to several other marinas and anchor points in the Delta to conduct additional outreach.

- A total of 24 boats were pumped out representing seven different locations/affiliations including Oakland Yacht Club, Sequoia Yacht Club, Richmond Yacht Club, Tower Park Marina, Grand Marina, Village West Marina and H & H Marina.
- A total of 814 gallons of sewage was removed from the boats serviced
In addition to the 24 captains, 26 boaters took part in the education and outreach component totaling 50 boaters for the day.

Project Highlight:

Update: The 11th Biennial State of the Estuary Conference – October 29th and 30th

A wonderful evening at the Oakland Museum is being planned for the 28th to highlight and celebrate the Museum's Bay exhibit. The SFEI team for the Flood Control 2.0 project is interacting with the Oakland Museum of California to help shape their forthcoming major exhibition on San Francisco Bay. "*Above and Below: Stories from our Changing Bay*" will run August 31, 2013–February 23, 2014. As part of the exhibit there will be an ongoing slideshow and wall panel introducing the public to the concepts of sea-level rise vulnerability, wetlands as

buffers to flooding, and the Flood Control 2.0 project to direct sediment to marshes. The team anticipates providing a lecture on the topic as part of the Museum's speaker series. For more information about the upcoming exhibit, see:

<http://www.museumca.org/exhibit/above-and-below>

Speakers are all set and we are ready for a great 2013 conference. ***“20/20 Vision: Past Reflections, Future Directions,”*** will feature a plenary session on Day 1 focused on how to plan for resiliency along our bay shorelines, Day 2 plenary will focus on the current planning and management proposals for the Delta region and the water quality aspects of contaminants of emerging concern. The afternoon concurrent sessions and the poster session, with over 190 posters accepted, will showcase the latest information about the estuary's changing watersheds, impacts from major stressors, recovery programs for species and habitats, and emerging challenges.

The poster room will also house an exciting and interactive art project, *“The Inspiration Campaign”* designed to help “stimulate new thoughts and conversations in our lives and communities through messages that invite us to pause... reflect... activate... and awaken.” Participants will have the opportunity to participate in the creation of a billboard with a message that will inspire more care about/for the Estuary in people across the Bay. Check out the conference web site in September to submit suggestions for the messages that will be voted on at the conference.

Finally, there will be an interactive CCMP Success Spot during the poster sessions and reception where attendees will be able to share ideas, opinions and insights on the past success of the CCMP and help us define the most significant challenges remaining for us to address. Both the Friends of the Estuary and the Jean Auer awards have been selected and the winners announced soon.

The conference program, registration, and other key updates will be posted on the conference web site by the end of August: <http://www.sfestuary.org/SOE/>

And finally, of General Interest: Water Bond Discussions Reinitiated

In the past few weeks there have been new and interesting discussions about the Water Bond including an August 15 Assembly Committee for Water, Parks and Wildlife hearing to get public comment on newly proposed principles that would apply to a smaller [5 to 7 billion] bond which could be on the ballot in 2014.

Interestingly, Senate President Pro Tem Darrell Steinberg [D-Sacto] has said the extent of his support for a revised water bond will be tied in with resolving certain issues with the governor's plan for a massive twin-tunnel system that would carry water from the Sacramento-San Joaquin River Delta. Stay tuned...

CCMP 20th Anniversary Review

CHEAT-SHEETS

7 Program Areas

(drafts attached)

Aquatic Resources

Wildlife

Wetlands Management

Water Use

Dredging & Waterway Modification

(drafts by Friday 8-24)

Pollution Prevention & Reduction

Land Use & Watershed Management

(to be addressed later)

Public Education

Research & Monitoring

*Please use these to spark your memory....
Feel free to correct, update, add, subtract in docx
or by scribbling on the PDF.
We will use these as a springboard for discussion
at the IC meeting.*

CHEAT SHEET: Aquatic Resources draft 8/21/2013

Keywords: Fish, Invasions, Flows; River, Stream & Subtidal Restoration

Goals: Stem the decline fish & biota, restore healthy natural populations and habitats, ensure recovery of listed species, manage fish and wildlife accordingly.

Actions: 1993 -- Improve monitoring ecosystem condition, regulate ballast water discharges and control aquatic invasive species, review harvest regulations and reduce incidental take commercial species, recovery actions and plans for listed species, improve water management to help fish (upstream flows, pumps, screens, channel opening barriers and gates, shady habitat, water temp), reduce harmful activities (poaching, dredging, flood control).
 2007 -- Protect subtidal habitats, sand and oyster shell resources, and clean up marine debris.

IMPLEMENTATION OVERVIEW

Big Picture Accomplishments & Progress

- Two decades of continuous but shifting efforts to coordinate planning for Delta management to balance freshwater supply and ecosystem restoration.
- Major strides in prevention of aquatic invasions through state and local ballast water management, intervention and education.
- Restoration of flows and reintroduction of salmon, for the first time, to one of the Estuary’s two major tributaries, the San Joaquin River.
- State Board declaration in 2010 that Estuary species need 75% unimpaired flow for ecosystem health, and subsequent state led efforts by water board and DFW to set flow objectives and standards for streams and rivers throughout state/watershed.
- Significant scientific research on POD, fish screening technology, ??? and ?? which will help inform management ...
- Any good news on fish population rebounds?
- ????

Little stuff to mention....

- New emphasis on co-location remote monitoring various ecosystem parameters.
- Recent detailed research on effects of ammonia in Delta wastewater on endangered smelt.
- Fish friendly farming programs...
- ??

Project Countdown - *[staff will crunch the numbers]*

1993-2013—Total ### Projects Implementing Aquatic Resources Actions
 Monitoring: ## projects
 Invasive Species: ##
 Listed Species Recovery: ##
 Flows & Facilities Management: ##
 Aquatic Resources Management Plan: ##
 Upper estuary programs: ##
 Subtidal Habitats: ##
 Aquatic Mineral Resources: ##
 Marine Debris: ##

Significant Physical Habitat Restoration

1993-2002 Butte Creek, Battle Creek, Clear Creek, Yolo Bypass, Tuolumne River,??
 2003-2013 San Joaquin River, Cache Slough, North and South Bay salt ponds, ???

Metrics -1993-2013 [tbd]

unscreened diversions screened
 # listed aquatic species (added green sturgeon...)
 # delisted species
 # permits granted incidental take listed species
 ## miles/acreage of shaded riverine aquatic habitat
(1993 100 acres, AR 4.8 calls for 1000 acres by 2013?)

[add perf measures new AR actions 2007 CCMP??]

Specific Plans, Policies, Coordinating Programs

- Recovery Plan Delta smelt? Winter Run Chinook?
- Ballast Water Management Acts (AB 703 & 433), 1999 & 2003
- Cal Senate Bill 497 (zero ballast discharge by 2020)
- Cal State Lands Commission Ballast Water Regulations 2006
- SLC Review Onshore & Onboard Treatment Technologies, 2010
- CALFED, Delta Stewardship Council, Delta Vision
- California Aquatic Invasive Species Management Plan, DFG, 2007
- Estuary Subtidal Goals Report, 2010
- BDCP & BDCP EIS/EIR 2012
- Flow management agreements or standards (lower American River, 2006; lower San Joaquin River, 2006; ??)

[integrated monitoring programs? ??]

Major Science Research

Sierra to the Sea, the Bay Institute, 1998
????

SFEP Leadership On?

X2 estuarine standard development – 1999
State ballast water management policy
State planning aquatic invasive species
State of the Bay Report, 2012, including agreement on new metrics of estuarine health

Continuing Challenges as of 2013

- Pelagic Organisms Decline – 4 critical fish species going down
- Synergistic stressors on organisms (inc. ammonia & replacement pesticides)
- Design & construction of new water-moving infrastructure –twin tunnels

ARO-SFEP RESEARCH NOTES-later to do list (pages refer to 2007 CCMP)

*-ck status & funding CALTIP (AR2.5), p. 20 -check HCPs, relevant to aquatic areas? (AR3.5, p. 23); could this be construed as the BDCP?
-go over AR 4.1 phased approach with someone like Herbold or Bobker*

CHEAT SHEET: WILDLIFE

draft 8/21/2013

Keywords: Refuges, Wetlands, Riparian, Biodiversity, Restoration, Recovery

Goals: Stem and reverse decline estuarine plants and animals, ensure survival and recovery listed species, optimize management for wildlife.

Actions: 1993 – Restore tidal marsh for California clapper rail & salt marsh harvest mouse, complete expansion of SF Bay NWR, control invasive predators, prepare recovery plans for listed species, monitor status of candidate species.

2007 – Establish North Bay wildlife refuge, provide colony sites for California least tern and other colonial waterbirds, monitor migratory diving birds, provide nondisruptive landside & small boat recreational access, develop regionally consistent signage/education, revise CEQA to ensure consideration of adverse impacts.

IMPLEMENTATION OVERVIEW**Big Picture Accomplishments & Progress**

- Huge tidal marsh areas restored for clapper rails and salt marsh harvest mice. Clapper rail, once reduced to hundreds, now rebounding but not “recovered.” See Wetlands Management.
- Recovery plans developed for other endangered species including California freshwater shrimp (1998), Bay checkerspot butterfly (1998), giant garter snake (1999), California red-legged frog (2002), western snowy plover.
- Several species delisted: peregrine falcon (1999), Aleutian cackling goose (2001), brown pelican (2009).
- Invasive red fox controlled, easing predation pressure on clapper rail and other sensitive wetland species.
- New least tern colony established at Hayward Regional Shoreline.
- Progress toward protection of least terns at former Alameda Naval Air Station.
- Endangered species (least Bell’s vireo, riparian brush rabbit) recolonizing restored riparian habitat on San Joaquin River.
- Vineyards converted to riparian habitat on Tuolumne River floodplain.
- Riparian habitat restored on Feather River (River Partners.)
- Thousands of volunteers participating in Coastal Cleanup Days.
- Implementation of Baylands Ecosystem Goals Project.
- Acquisition of Stone Lakes National Wildlife Refuge, Skaggs Island, South Bay Salt Ponds, Breuner Marsh, Bahia Wetlands, other key habitat areas.
- Enhanced public access to Bayshore via Bay Trail and Water Trail.

Little stuff to mention....

- New thrust to restore sandy habitats –Arambaru...
- Raised awareness how to design restoration sites for better predator control and reduced invasive plants.

Project Countdown - [staff to crunch numbers]

1993-2013—Total ###? Projects Implementing Wildlife Actions

Recovery planning: ## projects

Habitat Improvement & Restoration: ##

Public Access Mgmt: ##

Wildlife Monitoring: ## projects

Invasive Predator Control: ##

Listed Species Recovery: ##

Significant Physical Habitat Restoration

1993-2002 ???

2003-2013 North and South Bay salt ponds....

(19,000 acres tidal marsh restored or enhanced, and 42,450 acquired and put in pipeline since 1990s.

Delta?

See also Wetlands Management

Metrics -1993-2013 [tbd]

acres acquired for South Bay Salt Pond restoration

acres acquired for expanded North Bay refuge

acres restored for North Bay refuge

recovery plans prepared for listed species

recovery plans updated

multispecies/community recovery plans prepared

species delisted

new colony sites provided for California least tern

% of increased shoreline access for nondisruptive recreation

biodiversity change...at large sites?

public access sites on shoreline

small boat launch sites

acres under wildlife friendly management practices

acres within refuges restored

#web site hits of people reporting info to monitoring programs...

Specific Plans, Policies, Coordinating Programs

SF Bay Joint Venture

Suisun Marsh Working Group

Historical Ecologies of Watersheds like Napa River, Alameda Creek, Delta by SFEI

Major Science Research

- Clapper rail population monitoring (PRBO)
- SF Bay shorebird survey (PRBO)
- Central Valley riparian songbird studies (PRBO, USGS)
- Clapper rail ecology (USGS)
- Contaminants in waterbirds and effects on reproduction (USGS)
- Migratory linkages between wintering and breeding waterfowl (USGS)
Waterfowl ecology and population dynamics (USGS)
- Migration of scaup and scoters (USGS)
- California gull population growth and predation on colonial waterbirds (USGS)
- Bird use of salt ponds (SF Bay Bird Observatory)
- Colonial waterbird monitoring (SFBBO)
- Snowy plover recovery (SFBBO)

SFEP Leadership On?

- Eelgrass restoration
- Invasive species management
- ??

Continuing Challenges as of 2013

- No new large-scale sustainable funding sources
- Proposed shoreline development (North Richmond, Cargill site, other)
- Balancing public access and wildlife values (Bay Trail)
- Need for wildlife corridors
- Legacy pollutants & emerging contaminants affecting wildlife (PCBs, PBDEs)
- Nonpoint source pollution via storm drains
- Balancing needs of waterbirds v. marsh species in salt pond restoration
 - Status of Alameda least tern colony
- Political pressure to weaken CEQA
- Continuing decline of some listed species
- Decline of wintering diving ducks (scaup, scoters)
- Impact of increased California gull population on colonial waterbirds/shorebirds

CHEAT SHEET: WETLANDS MGMT draft 8/21/2013

Keywords: restoration, tidal, seasonal, riparian, biodiversity, buffer, mitigation

Goals: Protect, manage and restore existing wetlands; enhance ecological productivity and habitat values; increase quantity as well as quality of wetlands.

Actions: 1993 – Prepare regional wetlands management plan, improve wetlands protection under Clean Water Act.

2007 – Protect wetland transition/buffer habitats, protect/restore seasonal wetlands, protect of riparian areas, adopt state program for Estuary to include no net loss policy, increase enforcement to curb illegal wetland alteration, adopt uniform mitigation policies, establish Estuary-specific wetlands acquisition program, control non-native invasive plant species, develop of Bay-Delta wetlands monitoring plan, implement wetland project tracking, research effects of known stressors and emerging contaminants

IMPLEMENTATION OVERVIEW

Big Picture Accomplishments & Progress

- See also Significant Physical Habitat Restoration (below), Aquatic Resources, Wildlife
- 60% of SF Bay Joint Venture’s tidal wetlands acquisition goals reached as of 2007 (update); 50% of overall acquisition goals.
- State Water Board extended protection to inland/intermittent wetlands (2012)
- SF Bay Water Board no net loss policy and updates to Basin Plan
- Progress in control of invasive Spartina.
- 20+ mitigation banks for Bay Area watershed projects
- Beneficial reuse of dredged material in wetlands restoration projects (Hamilton, Bel Marin Keys, Sonoma Baylands, Montezuma)
- Enhanced habitat project tracking (Ducks Unlimited, SF Bay Joint Venture.)
- SF Bay Estuarine Research Reserve (NOAA, 2003)
- SF Bay designation as Ramsar Site (2012)
- New monitoring methodologies (CRAM, WEA)
- SFEI historical ecology projects
- BCDC policy updates on recreation in shoreline parks, desalination.

Little stuff to mention....

??

Project Countdown - [staff to crunch numbers]

1993-2013—Total ###? Projects Implementing Wetlands Management Actions

Tidal marsh restoration: ## projects

Seasonal wetland protection/restoration: ##

Riparian protection/restoration: ##

Significant Physical Habitat Restoration

1993-2002 – Carl’s Marsh, Sonoma Baylands, Cosumnes River Preserve expansion, ??

2003-2013 - Napa-Sonoma Marshes Wildlife Area, South Bay Salt Ponds, Bair Island, Dutch Slough? (pending ---Skaggs Island, Sears Point)

Metrics -1993 -2013

acres (square miles?) tidal marsh restored

acres seasonal wetlands restored

river miles acres riparian restoration

acres in mitigation banks (Bay Area specific projects)

enforcement actions on illegal wetlands alteration

\$ amount of fines collected for illegal wetlands alteration

acres cleared of invasive Spartina

Specific Plans, Policies, Coordinating Programs

- Bay Area Conservancy
- San Francisco Bay Joint Venture
- Turning Salt into Gold, Save the Bay
- Proposed San Francisco Restoration Authority, (AB ???)
- CALFED, Delta Vision, Delta Stewardship, BDCP & BDCP EIS/EIR 2012
- Baylands Ecosystem Habitat Goals Report (1999)
- Subtidal Habitat Goals Report, 2010
- Upland Habitat Goals Project (draft)
- Tidal Marsh Restoration Guidelines, BCDC, PWA

Major Science Research

- Models of climate change impact on Bay marshes (USGS)
- SF Bay Joint Venture Monitoring & Evaluation Program (2012)
- CASCADE study (USGS)
- South San Francisco Bay Shoreline Study (Army Corps of Engineers, Coastal Conservancy, Santa Clara Valley Water District)
- ??

SFEP Leadership On?

- Beneficial reuse of dredged materials (Long Term Management Strategy)
- Monitoring South Bay Salt Ponds restoration
- Restoration Bahia Marsh, Yosemite Slough
- ??

Continuing Challenges as of 2013

- Absence of a formal regional wetlands management plan
- SF Bay NWR still incomplete
- Continued pressure for shoreline development (Saltworks, West Contra Costa shoreline)
- Need to prioritize tidal flood management over tidal wetland restoration
- Loss of seasonal wetlands and streams
- Inconsistent practices in mitigation banking
- Supreme Court ruling on isolated wetlands (Rapanos decision)
- Uncertainty about mercury methylation and mobilization by wetlands
- Uncertainty re long-range sediment processes/budget
- Army Corps of Engineers policy change on levee vegetation
- Climate change, including altered runoff patterns and sea level rise

CHEAT SHEET: WATER USE draft 8/21/2013

Keywords: efficiency, conservation, recycling, banking, storage

Goals: Develop/implement water management measures to increase freshwater availability to the Estuary.

Actions: Most 1993 actions revised 2007. Study water recycling feasibility, construct water recycling facilities, promote local/county legal changes to encourage recycling, establish public education programs to promote recycling, develop efficient agricultural water management practices (including pilot projects), update DWR list of efficient agricultural water management practices, maximize conjunctive use of water through groundwater recharge, develop local (basin) groundwater management

plans, promote of integrated regional water management, explore of desalinization option.

IMPLEMENTATION OVERVIEW

Big Picture Accomplishments & Progress

- New wastewater recycling projects operating or under construction. 41 facilities in SF Bay Region (Water Board Region 2) as of 2009.
- Urban use of recycled wastewater in Region 2 increased from 14,979 acre-feet in 2001 to 24,044 in 2009; all uses increased from 29,520 to 41019.
- Improved urban water use efficiency.
- Decreased per capita water use in urban Bay Area.
- Groundwater banking expanded in Kern County.
- Cooperation among regional water interests.
- More cities (e.g. El Cerrito) adopting low impact development stormwater management practices—bioswales, etc.
- Local rainwater retention programs (SF, Oakland).

Little stuff to mention....

?

Project Countdown - [staff to crunch numbers]

1993-2013—Total ##? Projects Implementing Water Use Actions

Water recycling: ## projects

Groundwater banking: ## projects

Metrics -1993 - 2013

municipal water recycling facilities in operation in Bay Area

water recycling facilities under construction

water recycling facilities approved, construction pending

new groundwater banking projects

LID stormwater management projects

% decrease in per capita water consumption in Bay Area

35,000 acre-feet recycled water delivered to Bay Area golf courses, car washes, parks, soccer fields annually (Raines)

Specific Plans, Policies, Coordinating Programs

- State Recycled Water Task Force [date?]
- Water Plan Update, 2005
- CALFED Water Use Efficiency Comprehensive Evaluation, 2006
- MOU Re Urban Water Conservation in California [date?]
- State Landscape Task Force, 2005
- Department of Water Resources List of Efficient Water Management Practices (agriculture) [date?]
- Regional (Bay Area) Master Plan for Recycling & Recent Update, 1999 & ????

Major Science Research

Pacific Institute Reports and Analysis, including the *California Water 2030, An Efficient Future*.

Environmental Defense Fund research...

SFEP Leadership On?

- San Pablo Avenue Green Stormwater Spine

- Newcomb Avenue Low Impact Development
- El Cerrito Low Impact Development
- Renewed championship of more flows for San Francisco Bay. Education ABAG officials on the importance of Delta water management to Bay Area.

Continuing Challenges as of 2013

- Uncertainty re Peripheral Tunnels
- Uncertainty re funding for other major projects (storage etc.)
- Controversy re new/expanded reservoirs
- Projected population increase (to 48 M by 2030)
- Continuing agricultural demand
- New demand re natural gas extraction (fracking)
- Climate change—reduced snowpack, changes in seasonal flows and storage options.
- Ag resistance to improved water use efficiency, monitoring
- Consumer resistance to recycled wastewater use?
- Overalllocation

[ARO-research notes

- *Last 25 years, MWD paid out \$220 million in incentives for water conservation & efficiency, leading to the production of 1.2 maf recycled water. Recent years, six counties in central MWD recycled 155,000 acre feet annually. (NHSFB)*
- *About half 40 wastewater treatment facilities Bay Area recycling portion of flow for beneficial uses. (NHSFB)]*
- *Pac Institute report 2008, indicating water conservation can make a real diff in reducing demand, and yield as much water as 3-20 modest sized dams.]*

CHEAT SHEET: DREDGE & WATERWAYS draft 8/21/2013

Keywords: Needs, Disposal Options, Sediment Fate, Regional Management

Goals: Eliminate unnecessary dredging, maximize beneficial reuse, develop comprehensive sediment management strategy, manage waterway modification to offset adverse impacts.

Actions: 1993 – Conduct sediment transport studies in water and marshes; study effects dredging on aquatic species and assess sediment quality; develop regional strategy including needs assessment, regulatory and management procedures, and reference sites; remove derelict structures; identify dredged material disposal options and update testing guidelines; identify areas vulnerable to flooding and sea level rise and acquire diked baylands as buffers.

2007 – Assess sediment quality on regional scale; develop system to standardize dredge permit conditions; explore in-place knock-down alternatives; evaluate impacts proposed new waterway modification and mitigation options; study salinity intrusion caused by dredging; encourage info sharing LTMS community; develop Delta LTMS.

IMPLEMENTATION OVERVIEW

Big Picture Accomplishments & Progress

- Completion of LTMS (long term management strategy) and breaking of “mudlock.”
- Establishment interagency office and procedure (DMMO) to streamline and improve dredging and disposal permitting, as well as environmental work windows to prevent disturbance of aquatic species and habitats. Consistent re-evaluation and improvement of these procedures over the last decade.
- Development sediment testing guidelines, and sediment quality objectives for reuse.
- Reuse of significant quantities of dredged material in restoration projects, to increase subsided baylands and rehabilitate habitats, starting with a few hundred acres at Sonoma Baylands and increasing to more than a thousand acres at Hamilton airfield site. Monitoring of results and sharing of lessons learned.
- Giant steps in the South Bay Flood Control study.

Little stuff to mention....

- Changes to work windows? to account for 20?? listing of the green sturgeon (a bottom-feeding fish species)
- Coastal Sediment Management Workgroup (state impetus for regional sediment management plans? beach nourishment projects)

Project Countdown

1993-2013—Total ### Projects Implementing
 Regional Management: ## projects
 Beneficial Reuse: ##
 Sediment Quality Monitoring & Research: ##

Significant Physical Habitat Restoration

1993-2002 – 300 acres Sonoma Baylands, using ## mcy dredged material
 2003-2013 -- 5,000+ acres baylands restored using dredged material (CCMP);

Metrics -1993 -2003-2013

- Nine mcy dredged material used in restoration and shoreline rehabilitation @ seven sites as of 2007 (Hamilton, Sonoma Baylands, Montezuma, Winter & Sherman Islands, Oakland middle harbor eelgrass, Ocean Beach). (2007 CCMP) *(latest number?)*
- # days taken to process a dredging permit –compare 1990 to 2013?

- # permits processed in 1993, 2003, 2013
- 50% work completed during dredging work windows protective of wildlife before 2001, grew to 80% by 2003, and ?? today. (CCMP)
- ## miles levees enhanced;
- ## acres eelgrass substrate rebuilt in Oakland Harbor
- ### acres beach nourished with sandy material from dredging?

Specific Plans, Policies, Coordinating Programs

- LTMS
- DMMO, & Environmental Work Windows
- Inland Testing Manual for Dredged Material, 1998
- Public Notices from DMMO (PN99-3, PN01-01)
- South Bay Shoreline Study, 2013

Major Science Research

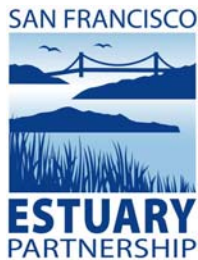
- USGS and other sediment transport studies, fate and behavior, resulting in forthcoming special issue *Marine Geology*.

SFEP Leadership On?

- Flood Control 2.0, 2013

Continuing Challenges as of 2013

- Sea level rise, and shoreline inundation.
- New sediment scarcity in once sediment-rich system. Less inputs but more need for sediment. New debate over whether any material at all should be “wasted” by being dumped at the ocean disposal site.
- Buried legacy contaminants may be exposed as bayfloor becomes more erosional.
- Expense of upland disposal for restoration.
- Lack of disposal options for contaminated materials.



IC "Road Map" for Upcoming Meetings

November 20, 2013

Confirmed

- State of the Estuary Conference wrap up
- Eco Atlas presentation and user tips [SFEI]
- Update on Friends of the Estuary outreach work on Bay Delta outflow

Potential

- Coastal restoration funds: \$ 4.1 million between PS and Monterey; Elkhorn Slough, Sonoma Creek and Salt Creek, NOAA focus area on Russian River
- One 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
- IRWMP plan update climate change, round 2 outcome and planning for round 3

2014

March 2014

Confirmed

- Draft Work plan

May 2014

August 2014

November 2014