



**NOTICE AND AGENDA**  
Regular Meeting

Board of Directors  
Aquatic Science Center

To Be Held  
June 3, 2010  
**11:30am-2:30pm**

San Francisco Estuary Institute  
7770 Pardee Lane  
First Floor Conference Room

Oakland, CA 94621  
Phone (510) 746-7334

The Business Meeting will be preceded by an informational discussion session with the SFEI Board of Directors at 11:30am, followed by lunch at 12:30pm

**Joint Science Discussion with SFEI Board**

Multiple Factors in Primary Productivity  
Shifts in the Lower Estuary – Management  
Implications for Nutrients and Sediment

**ASC Business**

1. **Call to Order**
2. **Public Comments**
3. **Consent Items**
  - a) **Approval of Agenda**
  - b) **Approval of March 4, 2010, Meeting Minutes (Attachment 1)**

7770 Pardee Lane  
Second floor  
Oakland, CA 94621  
p: 510-746-7334  
f: 510-746-7300

Board Members  
*CHAIR* David Tucker  
*VICE-CHAIR/SEC.* Pamela Creedon  
*TREASURER* Frank Leung  
Rainer Hoenicke  
Bruce Wolfe  
David Williams  
Darrin Polhemus  
Doug Craig  
Alexis Strauss

4. **Information and Discussion Items**
  - a) **Quarterly Report (Attachment 2)**
  - b) **Emerging Topics of Interest and Notable Developments (Attachment 3)**
  - b) **Progress updates regarding Delta RMP and Petaluma/Tomales Bay TMDL support**
5. **Action Items**
  - a) **Appoint new Board Chair**
  - b) **Approve 2010/11 Program Plan and Associated Resolution (Attachment 4)**
  - c) **Endorse planning workshop agenda for September 2, 2010 (Attachment 5)**
6. **December Meeting Agenda Items**
7. **Adjournment**

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## **ATTACHMENT 1**

**Minutes of the Aquatic Science Center Board of Directors**  
**March 4, 2010**  
**San Francisco Estuary Institute**  
7770 Pardee Lane, Floor 2  
Oakland, CA

### **Members Present:**

David Tucker, Bay Area Clean Water Agencies  
Bruce Wolfe, San Francisco Bay Regional Water Quality Control Board  
Pamela Creedon, Central Valley Regional Water Quality Control Board  
Darrin Polhemus State Water Resources Control Board  
David Williams, Bay Area Clean Water Agencies  
Mike Connor (Alternate), East Bay Dischargers  
Dyan Whyte (Alternate), San Francisco Bay Regional Water Quality Control Board  
Amy Chastain (Alternate), Bay Area Clean Water Agencies  
Frank Leung, San Francisco Estuary Institute  
Rainer Hoenicke, San Francisco Estuary Institute

### **Non-Members Present:**

Stephanie Seto, San Francisco Estuary Institute

### **Others Present:**

Debbie Webster, Central Valley Clean Water Association (CVCWA)  
Patrick Morris, Central Valley Regional Water Quality Control Board  
Jay Davis, San Francisco Estuary Institute  
Don Yee, San Francisco Estuary Institute  
Trish Mulvey, SFEI Board and CLEAN South Bay

### **Call to Order**

Introductions were made with roll call at 11:30 a.m. and a quorum of ASC Board members/alternates were present for a joint science briefing with the San Francisco Estuary Institute Board about Mercury TMDL implementation presented by Dr. Jay Davis and Dr. Donald Yee of SFEI. Following a networking lunch, Mr. Tucker, Board Chair, called the ASC Board business meeting to order at 1:05 p.m.

### **Public Comments**

There were no public comments.

### **Consent Items**

#### **Review and Approve Agenda**

The consent calendar items of the March 4, 2010 agenda and the December, 14, 2009 meeting minutes were unanimously approved.

### **Information and Discussion Items**

#### **Quarterly Report**

Dr. Hoenicke updated the Board regarding new and existing projects. He also pointed out that the ASC logo had been added onto the SFEI Executive Director's Quarterly

Report. In response to a question, he noted that all ASC projects are currently expected to be completed by the expected deliverable date and within budget.

### **Project Updates**

Dr. Hoenicke provided a summary of the status of funded, suspended, and proposed projects. The Board recommended that all ASC contracts be grouped together when presented on the Executive Director's Quarterly Report.

### **New Initiatives and Opportunities**

There was discussion regarding the next steps to be taken to link efforts between the Central Valley Regional Water Board's efforts to develop a region-wide Salt and Nutrient Management Plan and ASC's involvement in the San Joaquin Basin. There was discussion in regards to adding CVCWA onto the ASC Board and joining the two groups in some sort of capacity. Once the Bylaws have been revisited, guidelines will be drafted for voting/non-voting members to determine what they will bring to the table. This will be discussed in more detail at the upcoming ASC strategic planning meeting.

### **Approve Work Plan for Strategic Planning Effort**

Dr. Hoenicke informed the Board that it could cost approximately \$50,000 to conduct a one-day ASC strategic planning workshop with senior staff. This cost includes facilitators and staff time to prepare for the workshop. After discussing the draft work plan for retreat planning and the remaining challenges associated with executive staff capacity to dedicate time to the planning effort, the Board decided to phase the effort with a half-day strategic discussion with senior staff in September and a more comprehensive planning retreat in mid-2011. Dr. Hoenicke will work with Mr. Polhemus and Mr. Williams on modifications to the initial work plan for the ASC retreat and narrow down the scope to fit into a half day meeting. (During the ASC discussion, it was recommended that ASC have an extended meeting on September 2<sup>nd</sup>, and the SFEI Board meeting be shifted to another convenient date).

### **Approve new element and amend 2009/10 Program Plan Modification of Amendment to 2009/10 ASC Program Plan**

The Board reviewed the above-cited attachment and determined to make the following modifications:

1. *Change the title of the program to Exposure Reduction Program for Contaminated Fish.*
2. *The entire description of the program is to be deleted.*
3. *Raise the estimated amount to \$500,000 per year.*

Mr. Tucker made a motion to approve the modifications to the 2009/10 Program Plan. The motion was seconded by Ms. Creedon and passed unanimously.

AYE: Mr. Tucker, Mr. Wolfe, Ms. Creedon, Mr. Polhemus, Ms. Whyte, Dr. Connor, Mr. Williams, Ms. Chastain, Mr. Leung, Mr. Hoenicke

NO: None

ABSTAIN: None

**Future Meeting Agenda Items and Meeting Schedule**

Future meeting items include progress updates regarding Delta RMP and Petaluma Tomales, and a table of contents/outline for strategic planning efforts.

**Adjournment**

The meeting was adjourned at 1:20 p.m.

Respectfully submitted,

\_\_\_\_\_  
Pamela Creedon, Board Secretary

\_\_\_\_\_  
Date



AQUATIC SCIENCE CENTER  
and the SAN FRANCISCO  
ESTUARY INSTITUTE

7770 Pardee Lane, 2nd flr,  
Oakland, CA 94621  
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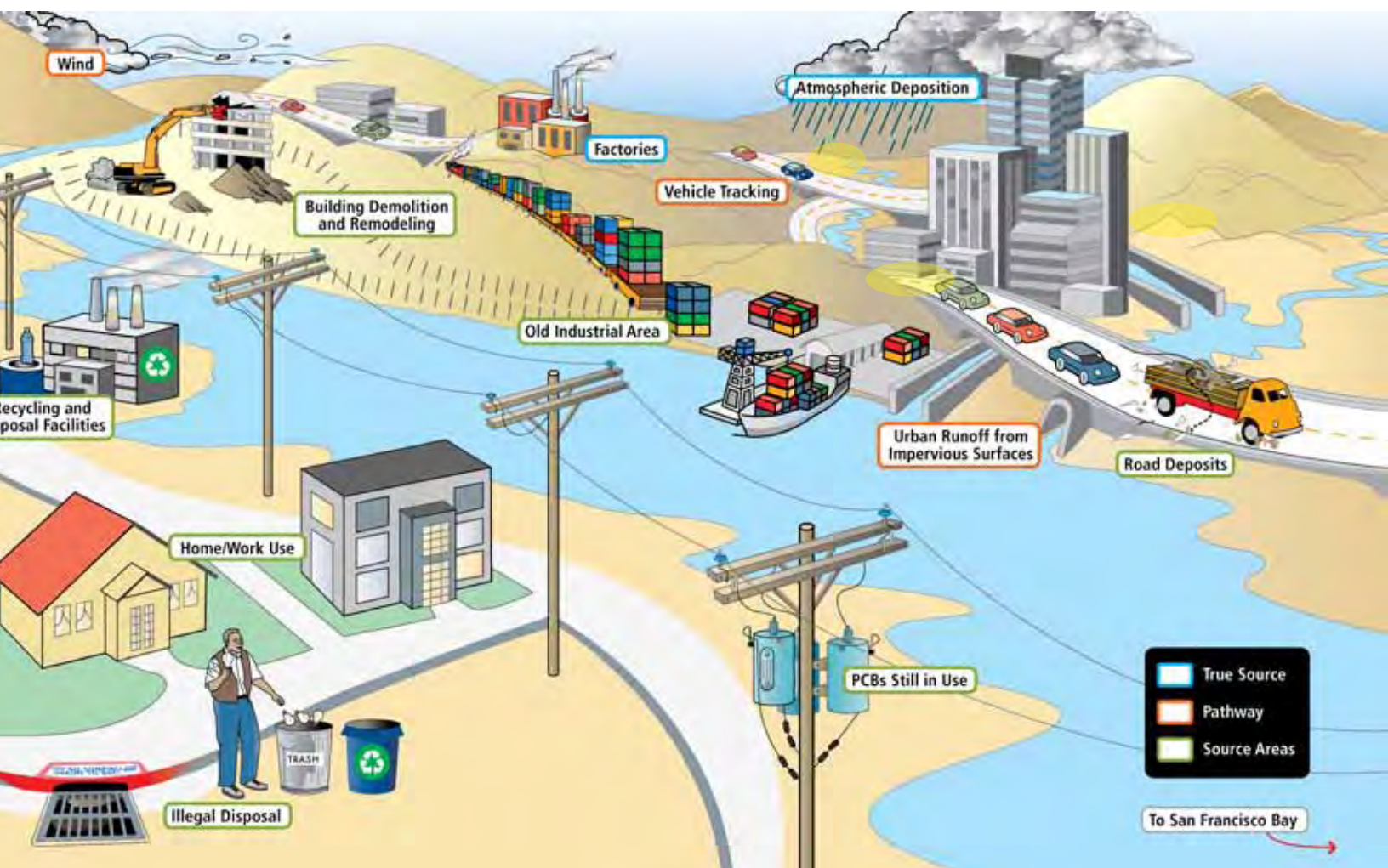
www.sfei.org

## Executive Director's Quarterly Report



Q2 • 2010

Quite a few substantive developments occurred in the second quarter of 2010. First, we have five new board members, and our gratitude goes out to the members of the Nominating Committee (Barbara Salzman, Jim McGrath, and Steve Ritchie), who recruited terrific talent to guide the Institute. Second, the new SFEI website has finally been launched! We are proud of the results of many months of work and having transitioned into the interactive web-world. The next few months will be dedicated to fine-tuning the new site. Board feedback will be particularly valuable. Third, another potentially very useful project is concluding, with major implications for how pollutants residing in urban landscapes can be prevented from impacting our waterways (cover and page 5). Our financial situation continues to improve, while we are catching up with our work backlog. — RAINER HOENICKE, EXECUTIVE DIRECTOR



**SFEI** has just completed a major project that provides a scientific basis for improved management of PCBs and Hg in urban systems of the Bay Area. The project includes mapping, literature review, and field components, with the highlight of the project being the final synthesis report - a "BMP tool box" describing options for removing equipment and managing soils or waters contaminated with Hg and PCBs within the urban landscape and stormwater conveyance system of the Bay Area.

continued on page 5 >



Mar 30

**Internal Beta Launch of SFEI's Geoportal**  
**Kristen Cayce, Shira Bezalet and Gregory Tseng**

successfully released the Beta version of SFEI's Geoportal to the GIS user group at SFEI. The Geoportal team has developed a data management plan that streamlines organization and accessibility of SFEI's spatial data. The team implemented the latest in geospatial tools, including

Geoportal and Spatial Database Engine (SDE), available through Environmental Systems Research Institute (ESRI) to optimize performance of spatial data and improve data management. Users will be able to search SFEI's data library by keywords or geographic extent through the on-line data catalog. Release of Geoportal to SFEI staff will happen in June 2010 and plans for a public release are scheduled for the end of the year.

Mar-Apr-May

**Jennifer Hunt** and other SFEI staff completed field sampling for four stormwater contaminant monitoring projects including Mallard Island (below the confluence of the Sacramento and San Joaquin River), Zone 4 Line A (an urban watershed in Hayward), Guadalupe River (a mercury contaminated watershed in San Jose), and a Low Impact Development (LID) site in San Mateo. Many locations had above normal precipitation and we had multiple storms with high discharge. Data from these field efforts will be coming in over the summer with draft reports ready by the 4th quarter for most projects.



**Ben Greenfield collects the final Guadalupe River water sample of the 2009-2010 wet weather season. This is part of a project supported by the Santa Clara Valley Water District to maintain the long-term data set of loads of mercury and other pollutants to the Bay. High quality loads monitoring represent the interface of the Regional Monitoring Program, and SFEI's Contaminant Monitoring and Research, and Watersheds programs. Photograph by Jennifer Hunt**

Mar 24

**Letitia Grenier**, Program Manager for the Conservation Biology and Wetlands Programs launched a project to Develop Riparian Mercury Biosentinels for streams in the Bay Area. As part of the Wetlands Regional Monitoring Project, this work will increase the breadth of the biosentinel toolkit available for monitoring methylmercury bioaccumulation in wetland food webs. The first meeting of the local and national experts was held on March 24 to kick off the project.

Apr 25

**Environmental Data Upload and Visualization Tools presented at the 2010 NWQMC Conference**

**Cristina Grosso** presented some of SFEI's environmental data upload and visualization tools at the National Water Quality Monitoring Council's National Monitoring Conference in Denver, CO in April. She highlighted SFEI's data upload tools (online Data Checker and field data entry forms) and visualization tools (Web Query Tool, California Wetlands Portal, and Central Valley Monitoring Directory) in the session "Using Data Sharing as a Pathway to Collaboration". The presentation also discussed SFEI's role as one of the regional data centers of the California Environmental Data Exchange Network (CEDEN).

cer at BCDC, to explore mechanisms for updating the Baylands Goals report and other initiatives.

May 12

**Delta RMP Plan**

ASC scientist **Thomas Jabusch** and Brock Bernstein have developed a DRAFT Delta RMP Program Plan, which will be released in early May for stakeholder review. A workshop will be held on May 12 to reinstate stakeholder involvement and begin technical work to address limitations with current monitoring and data management systems. The Delta RMP planning team envisions to release an initial communication product by November 2010.

ation by EPA headquarters of the San Francisco Estuary Partnership. Together with Judy Kelly, we are hoping that SFEI will pass with flying colors.

Ongoing 2010

The Policy Development Team for the California Wetland and Riparian Area Protection Policy (WRAPP) tapped the Aquatic Science Center (ASC) to convene a Technical Advisory Team (TAT) to provide the expertise to develop the scientific foundation of the policy. **Josh Collins** chairs the TAT which is publishing a series of Technical Memoranda related to specific aspects of the policy. Currently, the TAT is establishing a statewide committee to recommend wetlands mapping standards.



Apr 22

**EBMUD Earth Day Fair**

**Amy Franz** hosted the SFEI booth at the annual EBMUD Earth

Day Fair at the EBMUD offices in downtown Oakland. EBMUD is one of the RMP Program Participants. SFEI distributed copies of the 2008 and 2009 Pulse of the Estuary as well as other relevant publications.

Apr 30

**Rainer Hoenicke** met with Nadine Hitchcock, Deputy Executive Officer of the State Coastal Conservancy, and Joe LaClair, Chief Planning Offi-

May 19

A National Estuary Program delegation from USEPA Headquarters Puget Sound and Narragansett Bay visited the SFEI offices on May 19 to hear about science support for CCMP implementation. The site visit was part of a periodic evalu-

Apr 20

### Speier bill would provide \$100 million for San Francisco Bay restoration

By Julia Scott, San Mateo County Times

[http://www.mercurynews.com/ci\\_14925021](http://www.mercurynews.com/ci_14925021)

Rep. Jackie Speier, D-San Mateo, introduced HR 5061, the San Francisco Bay Improvement Act of 2010. She will hold a news conference in South San Francisco on Friday to discuss the bill's particulars, along with officials from the Environmental Protection Agency, the San Francisco Estuary Partnership, Save the Bay, The Bay Institute and other groups that are supporting her efforts.

*"One thing that we are blessed with in San Francisco Bay is a lot of creative planning into how the bay needs help for reducing pollution, restoring habitat and more," said Lewis. "The bill is intended to bring more federal resources for making the bay healthier."*

—Jackie Speier

Apr 23

### Speier has billion dollar plan to restore wetlands

By Marc Mathews, ABC local news

<http://abclocal.go.com/kgof/story?section=news/politics&id=7403804>

With bay wetlands behind her, San Mateo Congresswoman Jackie Speier announced Friday she is authoring a bill to restore wetlands areas around San Francisco Bay.

Speier's legislation calls for \$1 billion over the next 10 years to restore 100,000 acres of wetlands; two-thirds of the former wetlands that have been drained or lost to development. "One thing that we are blessed with in San Francisco Bay is a lot of creative planning into how the bay needs help for reducing pollution, restoring habitat and more," said Lewis. "The bill is intended to bring more federal resources for making the bay healthier."

*"It's time to save the bay again," Speier said.*

For the full text of the bill go to: <http://www.govtrack.us/congress/bill.xpd?bill=h111-5061>



Office of Congresswoman Jackie Speier

#### SAN FRANCISCO BAY IMPROVEMENT ACT OF 2010

#### FACT SHEET

For More Information Contact:  
Peter Viola, Office of Congresswoman Jackie Speier  
[Peter.Viola@mail.house.gov](mailto:Peter.Viola@mail.house.gov) / 202-225-3532

#### What the bill does:

- Authorizes \$100 million annually for ten years to the U.S. EPA to fund projects, programs, and studies that implement priority objectives of the San Francisco Estuary Partnership's Comprehensive Conservation and Management Plan (CCMP)
- Establishes a San Francisco Bay Program Office within Region 9 of the U.S. Environmental Protection Agency (EPA), and authorizes the EPA Administrator to appoint a Director of that Program Office to oversee that funding.
- Establishes a San Francisco Bay Program Advisory Committee to provide advice to the Administrator on implementing the identified goals and objectives of the CCMP, with representation from appropriate Federal and State departments and agencies, and the Director of the SFEP
- Provides that the President's annual budget submission to Congress shall provide information on federal agency expenditures for the protection and restoration of San Francisco Bay.



## IN THIS SECTION

- Journal Articles
- Reports
- Presentations
- Events & Appearances
- Brown Bags
- Upcoming Events
- What's New

## Journal Articles

### In Press

Grenier, J.L. and Davis, J. A., Water Quality in South San Francisco Bay, California: Current Condition and Potential Issues for the South Bay Salt Pond Restoration Project. Reviews of Environmental Contamination and Toxicology

### Apr 21

Greenfield, BK, Jahn, A. Mercury in San Francisco Bay forage fish. Environmental Pollution. Volume 158, Issue 6, June 2010 release.



*The peer reviewed journal, Environmental Pollution, just accepted for publication a new article summarizing a Bay wide survey on mercury concentrations in forage fish. The article indicates differences in mercury according to species habitat, and a spatial gradient, with elevated concentrations near the Guadalupe River outfall.*

(See full entry at [sfei.org](http://www.sfei.org))

## Reports

### April

The 2008 Annual Monitoring Results Report was finalized and published on the SFEI web site in April by Amy Franz and RMP staff. The AMR discusses changes to the RMP sampling program, specific details of the sampling events and methods used for analysis of the samples (cover at right).

### Mar 31

Jabush, T. and Bernstein, B. (2010). Delta Regional Monitoring Program. San Francisco Estuary Institute and Aquatic Science Center, Oakland, Ca. (in review by Central Valley Water Board)

### Apr 19

Jabusch, T., (2010) Grassland Bypass Project—10-year synthesis. Watershed Science Program. San Francisco Estuary Institute, Oakland, Ca. (submitted to Grassland Bypass Project (GBP) monitoring coordinator for review by the GBP Data Collection and Reporting Team)



Look for the final PDFs in the bibliography section at [www.sfei.org](http://www.sfei.org)  
For upcoming or those in review, please contact lead author



### Apr 11-14

The LID Conference paper Rainer submitted to the American Society of Civil Engineers was published as part of the conference proceedings, with several partners as co-authors.

Title: Forecasting Multiple Watershed-level Benefits of Alternative Storm Water Management Approaches in the Semi-arid Southwest: Required Tools for Investing Strategically

<http://content.asce.org/conferences/lid10/index.html>

## Upcoming Reports

Gilbreath, A. N. and McKee, L. J., 2010. Memo: Estimates of hydrology in small (<80km<sup>2</sup>) urbanized watershed under dry weather and high flow conditions. San Francisco Estuary Institute, Oakland, Ca. SFEI contribution 611.

SFEI, 2010. A BMP tool box for or reducing Polychlorinated biphenyls (PCBs) and Mercury (Hg) in municipal stormwater. San Francisco Estuary Institute, Oakland, Ca. SFEI contribution 612.

Mangarella, P., Havens, K., Lewis, W. and McKee, L. J. 2010. Desktop Evaluation of Controls for Polychlorinated Biphenyls and Mercury Load Reduction. A Technical Report of the Regional Watershed Program. SFEI contribution 613. San Francisco Estuary Institute, Oakland, Ca. 67pp.

## IN THIS SECTION

continued from page 1

- Journal Articles
- ➔ Reports
- Presentations
- Events & Appearances
- Brown Bags
- Upcoming Events
- What's New

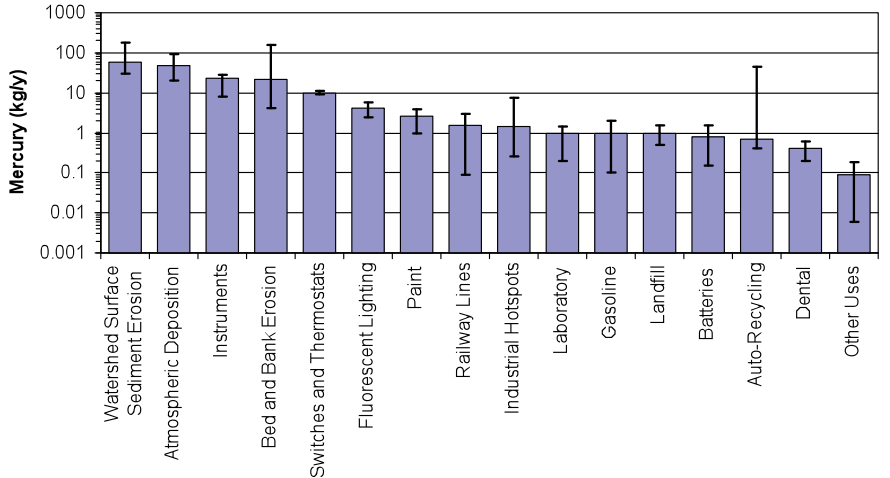
**Lead Scientist**  
Lester McKee

### Collaborators

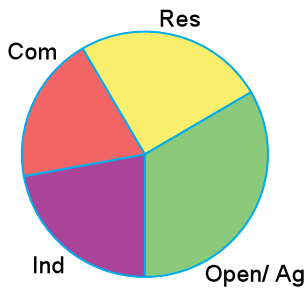
- GeoSyntec
- PWA
- Oakland Museum of California
- William Lettis and Associates
- Moss Landing Marine Laboratories
- East Bay Municipal Utility District
- AXYS Analytical
- Brooks Rand Laboratories

## April 2005 – March 2010 Regional Stormwater Monitoring and Urban BMP Evaluation: A Stakeholder-Driven Partnership to Reduce Contaminant Loadings

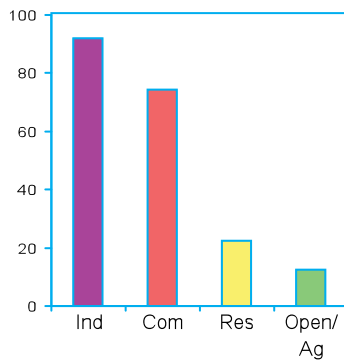
The project developed a mass balance model for Hg and PCBs for urban stormwater. This graphic shows our current understanding of Hg supply to stormwater.



### Mercury Load by Land Use

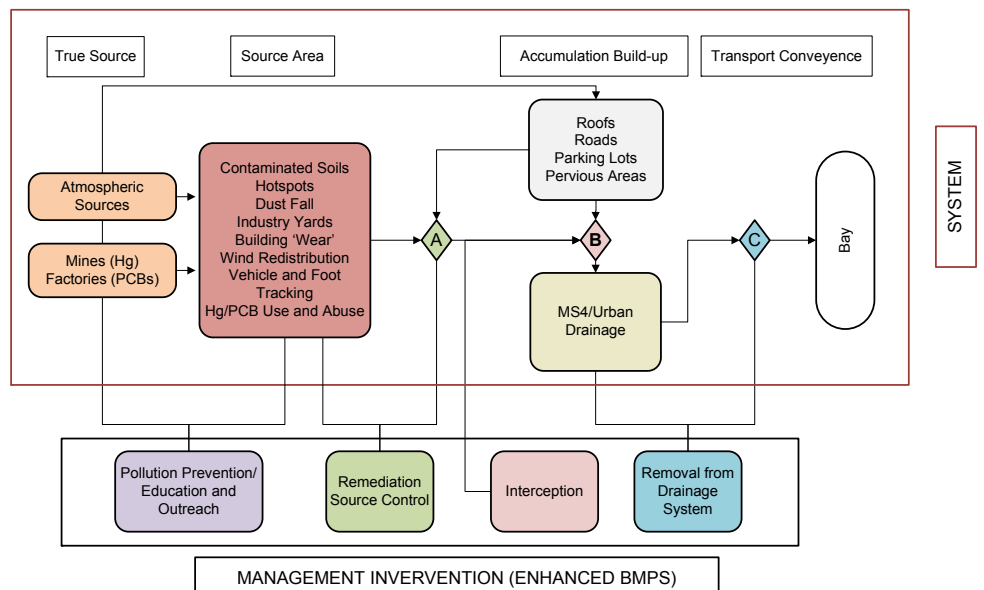


### Unit Loading (g/km<sup>2</sup>-yr)



In this example of output from the mass balance model, you can see that we estimate Hg loading from industrial areas is on average 7 times higher than from the agricultural/open space land use category. In the case of PCBs, that ratio is 16:1 highlighting that PCBs are much more concentrated in industrial areas relative to Hg.

The final product of the project was a written summary report titled "A BMP tool box for reducing Polychlorinated biphenyls (PCBs) and Mercury (Hg) in municipal stormwater". The tool box is intended to assist stormwater managers, municipal officials, and other stakeholders by describing available options for preventing Hg and PCBs entering stormwater or managing soils or waters contaminated with Hg and PCBs within the urban landscape and stormwater conveyance system. This example diagram from section 4 of the "tool box" shows implementation points for intercepting Hg and PCBs. Section 5 is a series of fact sheets describing technical information relevant each institutional or treatment BMP.



For more information, please contact Lester McKee at [lester@sfci.org](mailto:lester@sfci.org).

IN THIS SECTION

- Journal Articles
- Reports
- > Presentations
- Events & Appearances
- Brown Bags
- Upcoming Events
- What's New



Mar 22

**Thomas Jabusch** gave a presentation at 239th ACS National Meeting in San Francisco, CA, on March 22, 2010. His presentation was titled "Use of environmental fate processes to mitigate impacts on urban water quality." The presentation was authored by Ron Tjeerdema and Thomas Jabusch.

Mar 25

**Nicole David** presented at the American Chemical Society Meeting in San Francisco, which was held March 22-March 25, 2010. Her presentation was titled "Comparison of Agricultural Runoff from Conventional and Organic Orchards," authored by herself, Fred Thomas, Cerus Consulting and California Certified Organic Farmers Foundation. Nicole presented the results from pesticide and nutrient applications to orchard crops as a water quality issue for California. The project evaluated the effectiveness of BMPs applied by organic growers compared to conventional growers and the impact on water and sediment quality.



Apr 7-9

**Susan Klosterhaus** gave a presentation entitled "Recent studies on the identification an occurrence of PentaBDE replacement chemicals in indoor and outdoor environments" at the 5th International Symposium on Brominated Flame Retardants held April 7-9, 2010 in Kyoto, Japan. Her presentation included information on the chemicals currently being used in furniture foam and baby products since the phaseout of PentaBDE began in 2004 and their detection in house dust, sewage sludge, sediments, and wildlife from samples collected in California and elsewhere in the United States.

Apr 12

**Rainer Hoenicke** presented a paper at the International Low Impact Development Conference in Milbrae on April 12, entitled: Forecasting Multiple Watershed-level Benefits of Alternative Stormwater Management Approaches in the Semi-arid Southwest.



April 19

**Sarah Pearce** was an invited speaker, and gave a talk titled "Sediment Loading from Local Tributaries" April 19th and 20th, at the USGS/BCDC Sediment Conference in Menlo Park, Ca. The conference brought together key scientists, managers, planners, and stakeholders to discuss existing science and prioritize key data gaps, while working towards a goal of creating a Regional Sediment Management Strategy.



Apr 29

**Kat Ridolfi** presented at National Water Quality Monitoring Conference in Denver, CO on April 29, 2010. Her presentation was titled "Assessing Impairment of Tomales Bay due to Mercury".

Apr 30 & May 13

**Ben Greenfield** gave a presentation titled "A framework and technical approach to address sediment indirect effects to human consumers of seafood" authored by himself and Steven M. Bay of SCCWRP. Ben gave the presentation at the Southern California SETAC meeting on April 30, 2010 in San Diego, and at the Northern California SETAC meeting on May 13, 2010.

May 13

**Rachel Allen** attended NorCal SETAC conference on May 13, and presenting on "Evaluating Potential Pathways of Perfluorinated Compounds to San Francisco Bay", a project I'm working on with Meg, Susan, and Richard Grace from AXYS. The theme of the conference is Contaminants of Emerging Concern: Responding to a 21st Century Challenge.

May 13

**Michelle Lent** gave a presentation at the Norcal SETAC conference on May 13, 2010. Her presentation was titled "Guadalupe River Watershed Model: Support tool for regional Hg and PCB management," authored by Michelle Lent, John Oram and Lester McKee.



May 19  
2010 LTMS Science Symposium

State of California Building, Oakland, California

Symposium Purpose

Discuss results and recommendations of scientific studies funded by and/or of interest to the LTMS program

Target Audience

Representatives from the dredging community, regulators, managers, scientists, and other interested parties

SFEI had 4 presentations at this year's LTMS Symposium

Kat Ridolfi

LTMS Symposium Summary: Green Sturgeon, Longfin Smelt, and Dredging Operations in the San Francisco Estuary

John Oram

Environmental Visualization Tools

Jen Hunt

Guidance for Potential Removal of Creosote-Treated Pilings and Structures in San Francisco Bay

Don Yee

LTMS Symposium Summary: Methylmercury in Dredging Operations and Dredged Sediment Reuse in the San Francisco Estuary

## IN THIS SECTION

Journal Articles

Reports

Presentations

→ Events & Appearances

Brown Bags

Upcoming Events

What's New

**Mar 16-17**

**Letitia Grenier** and **Lester McKee** participated in the Climate Ready Estuaries workshop sponsored by BCDC and the EPA. The goal of the workshop was to consider impacts of climate change and management response options for key estuarine habitats.

**Mar 22-25**

**Susan Klosterhaus** and **Meg Sedlak** attended the American Chemical Society (ACS) Meeting.

**Apr 7**

**Sarah Lowe** hosted the RMP Toxicity Workgroup's Workshop on Sediment Toxicity Stressor Identifications, which focused on the status of solid phase and molecular TIE tool development for the estuarine amphipod sediment toxicity tests. This was the first of two workshops scheduled for 2010. The meeting was well attended by regional and national toxicologists and chemists and local and state managers. There was a lot of interest in the workshop that the group made some suggestions for coordinating on developing TIE guidance documents, sharing thresholds of effects information, and ideas for refining TIE procedures to address the causes of sediment toxicity in estuarine sediment samples.

**Apr 13**

**Rainer Hoenicke** attended the 23rd Annual Bay Planning Coalition Decision-makers Conference - Climate Change 3.0.

**Apr 19-20**

**Josh Collins**, **Robin Grossinger**, and **Sarah Pearce** attended the BCDC Sediment Workshop at the US Geological Survey Science Center in Menlo Park, CA. The workshop included talks by leading Bay Area experts presenting their research on sediment transport and processes, as well as biota and habitat implications. The goals were to present current research, discuss potential research needs and identify key data gaps.

**Apr 20**

**Letitia Grenier** participated in the Bay Area Critical Linkages Workshop sponsored by the California Coastal Conservancy and Open Space Council, this project aims to connect large areas of open space for long-term wildlife conservation.

**Apr 21**

The RMP hosted a planning workshop with the Steering Committee, on April 21, in order to give direction to future pilot and special studies. The meeting outlined current and future information needs for the stakeholders, prioritized these needs, and suggested projects to address them. It enables the SC to solicit projects, and to be sure that the RMP budget represents the priorities of the stakeholders.

**Apr 25-29**

**Cristina Grosso** attended the National Water Quality Monitoring Council's (NWQMC) National Monitoring Conference in Denver, CO.

**Apr 26-28**

California Rapid Assessment Method for wetlands (CRAM) practitioner-level training session. April 26-28th, Sacramento. **Sarah Pearce** taught the class of 16 students, including agency staff and consultants from across the region, how to accurately and consistently conduct CRAM assessments of riverine wetlands.

**May 5 and 6**

California Rapid Assessment Method for wetlands (CRAM) training session for US Army Corps Staff. Sacramento US Army Corps offices. **Sarah Pearce** was a co-instructor for this 2-day introduction to CRAM that focused on riverine and vernal pool wetlands.

**May 11**

The RMP held the second joint CTAG-TRC designed to facilitate communication between the RMP and SCCWRP, and discuss collaborations between the organizations

**May 13**

**Rachel Allen**, **Ben Greenfield**, and **Michelle Lent** presented at the 20th Annual Meeting of the Northern California Chapter of the Society of Environmental Toxicology and Chemistry, held at the UC Berkeley Clark Kerr Campus. The meeting focused on Contaminants of Emerging Concern, and as a member of the Board of Directors, **Susan Klosterhaus** helped facilitate the meeting.

**May 17-18**

**Public Issues and Conflict Management: An Intensive 2-Day Course**

SFEI co-sponsored Navigating in Rough Seas, an intensive 2-day process management and facilitation training held by National Oceanographic and Atmospheric Administration (NOAA) Coastal Learning Services staff on May 17 and 18 in the Elihu Harris State Building in downtown Oakland. Twenty-one environmental professionals representing flood protection, natural resources, and regulatory agencies as well as environmental groups attended the training to learn meeting management and facilitation skills for resolving controversial issues in public forums. Among the participants was SFEI scientist **Thomas Jabusch**.

**May 19-20**

**Mike May** and **Todd Featherston** attended the Google I/O conference (Google's Largest Developer Event of the Year) at the Moscone Center in San Francisco, CA. Google I/O features 80 sessions, more than 5,000 developers, and over 100 demonstrations from developers showcasing their technologies. Attendees are able to talk shop with engineers building the next generation of web, mobile, and enterprise applications.

**IN THIS SECTION**

- Journal Articles
- Reports
- Presentations
- Events & Appearances
- > **Brown Bags**
- Upcoming Events
- What's New

**Mar 24**  
**Dave Bollinger**

Dave received his Masters in Environmental Management from Duke University and has worked for USEPA and FEMA. Dave's talk highlighted the use of analytic tools (GIS, statistics, and modeling) in water quality, wetland health, and environmental law/policy work.

**Apr 8**  
**Dr. Brian Atwater**  
U.S. Geological Survey at Department  
of Earth and Space Sciences

**Tidal-Wetland Geology and Earthquake History**

Dr. Brian F. Atwater visited SFEI and spoke about his and others' research using tidal-wetland geology to learn about earthquake history. His most notable publication, *The Orphan Tsunami of 1700 – Japanese Clues to a Parent Earthquake in North America* (<http://pubs.usgs.gov/pp/pp1707/>), presents research that precisely assigns a date to a Cascadia earthquake, whose tsunami was felt in Japan, and also provided evidence of high magnitude quakes in the Cascadia region."

**Mar 9**  
**Jon E. Leatherbarrow**  
Ph.D. Candidate, Department of Civil and Environmental  
Engineering University of California, Davis

**The size-resolved composition, sorption,  
and settling of pollutant metals in highway  
stormwater runoff: Implications for stormwater  
treatment**

**Abstract**  
Stormwater runoff discharged from the highway environment often requires reductions in pollutant concentrations and/or loadings to comply with federal and state stormwater targets for protection of water quality and beneficial uses. The entrainment of pollutants, such as metals and PAHs, in highway stormwater runoff is dependent on their partitioning between dissolved and particulate fractions and the distribution of particle-associated pollutants across the particle size continuum. Limited data exist, however, that integrate information on pollutant concentrations, partitioning, and size distribution in the context of transport and stormwater treatment. This research combines monitoring and experimental studies to investigate the particle size influence on transport and fate of metal pollutants (cadmium, copper, lead, and zinc) in the highway environment with implications for enhancing our understanding of runoff treatment potential through improved monitoring and modeling methodologies. To understand the particle-mediated transport of metals from source areas to receiving waters, size-distributed metal concentrations and mass were measured in sequentially sieved solid media collected from three types of highway settings: highway pavement soils, highway runoff suspended solids, and detention basin sediment.

> [Look for the full abstract on the calendar at sfei.org](http://sfei.org)



**Apr 29**  
**Dr. Giovanni Cecconi**  
Thetis consulting firm  
Venice, Italy

**Salt marsh sustainability and vulnerability to sea  
level rise in Venice, Italy**

Dr. Giovanni Cecconi discussed his ongoing work in Venice Lagoon focusing on integration of morphological restoration and flood control.

**Abstract**  
Along the last 70 years the Venice Lagoon has been affected by flooding and tidal flat erosion and loss of salt marsh habitat at an alarming rate due to relative sea level rise, lack of river sediment input, pollution, construction of port infrastructures and mechanical clam fishing. At the same time frequency of flooding had an increase of ten times. In 1992 a plan as been set up by Magistrato alle Acque, the local water authority of the Italian Ministry of Infrastructures, for restoring the lagoon environment and for flood control.

One of the main line of action was the construction of deposits with maintenance dredging sediments for starting-up a naturalization processes able to transform the fill into a salt marsh habitat: 14 million m<sup>3</sup> of sediments have been reused in 94 salt marsh fills and their evolution was monitored for adaptive maintenance works of refilling-removal or dredging of tidal creeks and ponds. At the same time 45 km of littoral have been protected by beach nourishment and dune construction with 9 million cubic metres of sand dredged at sea. The introduction of neo-formation self-structuring habitats for erosion control have made it possible to complete the protection with the mobile flood barriers at the lagoon inlets that will be operated only few times a year.

> [Look for the full abstract on the calendar at sfei.org](http://sfei.org)

## IN THIS SECTION

- Journal Articles
- Reports
- Presentations
- Events & Appearances
- Brown Bags
- > Upcoming Events
- > What's New

## May

### May 26 Brisbane

Nicole will be giving a presentation titled, "How are Stormwater Treatment Measures Working at Serramonte Library. Preliminary Water Quality Monitoring Results" at the San Mateo County, Water Pollution Prevention Program Workshop in Brisbane regarding preliminary results from the Green Infill Clean Stormwater Project.

## June

### Jun 8 Cupertino

Nicole will be giving her presentation titled, "How are Stormwater Treatment Measures Working at Serramonte Library. Preliminary Water Quality Monitoring Results" at the Santa Clara County, Water Pollution Prevention Program Workshop in Cupertino regarding preliminary results from the Green Infill Clean Stormwater Project.

### June 21-25

CRAM Riverine and Vernal Pool Training in Moss Landing, CA

## SFEI welcomes five new Board Members

**Phil Stevens** is currently the Executive Director for the Urban Creeks Council in Berkeley, California. Previous experience includes positions as Director of Resources for The Nature Conservancy in Anchorage, AK and Associate Director of Philanthropy at The Nature Conservancy in San Francisco. As a founding member of the Wildlands Restoration Team in Santa Cruz, he has logged hundreds of hours in the field dedicated to controlling invasive plants in redwood forests in the Santa Cruz Mountains. Phil also has experience developing a Quality Assurance Project Plan for a current USEPA grant, attending California Rapid Assessment Method training and nearly twenty years of fundraising experience which has allowed him to develop an extensive network of relationships within the private philanthropic community in the Bay Area.

**John Callaway** is currently Professor and Graduate Program Director in the Department of Environmental Science at the University of San Francisco. His recent research has focused on evaluating wetland restoration and mitigation projects, as well as investigating potential effects of climate change on tidal wetlands, and most recently measuring rates of carbon sequestration in tidal wetland. He has served on scientific advisory panels for the San Francisco Airport runway expansion project, the South Bay Salt Pond Restoration Project, and the California Rapid Assessment Methods (CRAM) of wetlands. He has also served on Strategic Planning Team for the Elkhorn Slough Tidal Wetland Restoration Plan and a number of other state and national panels

**Mitch Avalon** is currently the Deputy Chief Engineer for the Contra Costa Flood Control and Water Conservation District, overseeing both the County's Flood Control District and the County's Clean Water Program. He has 20 years experience in other aspects of public works, such as transportation, construction, development, and design. Mitch is Chair of Flood Control Policy of the Bay Area Flood Protection Agencies Association, Chair of a Bay Area Watershed Network subcommittee on Monitoring and Assessment, and Chair of the Alhambra Creek Watershed Council. He is also on the Friends of the San Francisco Estuary Board of Directors and has worked with SFEI on developing the concept for a Watershed Goals Project.

**Adam W. Olivieri**, Dr.PH, P.E. is Vice President at EOA, Inc. (Eisenberg, Olivieri & Associates) a firm dedicated to Environmental and Public Health and Engineering. Prior to EOA, Adam worked at the San Francisco Water Board as the senior engineer in charge of the policy and basin planning unit at the University of California, School of Public Health, as well as the Public Health Institute as a researcher. He also held the role of Vice Chair of the Bay Area Stormwater Management Agencies Association (BASMAA) and has acted as representative to the Regional Monitoring Program steering committee.

**Alan Remo** is currently a tenured professor at Golden Gate University School of Law, where he directs the JD and LLM Environmental Law Program. He has worked at the law school for over 15 years after founding its Environmental Law and Justice Clinic. Prior to this, Alan was legal and general counsel for Communities for a Better Environment (CBE, previous name Citizens for a Better Environment) around the same time that the Aquatic Habitat Institute became SFEI. From 1984-92, Alan has worked on cases addressing the implications of expansion of the Port of Oakland, the continued use of once-through cooling at existing power plants and the ongoing process of remediation at the various former Navy bases around the Bay.

## SFEI says goodbye and thank you to three Board Members

**Chuck Weir**, Board Treasurer, served on the Admin-Finance Committee. He served on the Board from 2001-10 representing the Clean Water Agencies for a large part of his tenure.

**Leo O'Brien** served on the Board from 2004-10 representing the BayKeeper organization.

**Jonathan Kaplan** served on the Board from 2000-10 representing The Natural Resources Defense Council.



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**Project Pages** provide  
project-centric access to  
site content

For comments or  
corrections, please  
email the Design  
& Communications  
Department  
(lindaw@sfei.org).

**May-18**  
**SFEI Launches New Website**

A team of SFEI scientists and technology specialists spent countless hours researching and implementing appropriate technologies for our new, dynamic website. The team ultimately chose the Drupal Content Management System to deliver content to the web. Drupal is an open-source, community-developed content management system.





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# Program Plan Update

## Q2 • 2010

### Contents

PAGE 1 TO 5

**Introduction and  
Financial Health Indicators**

PAGES 6-9

**Budget Updates**

PAGE 10-11

**Staffing Updates**

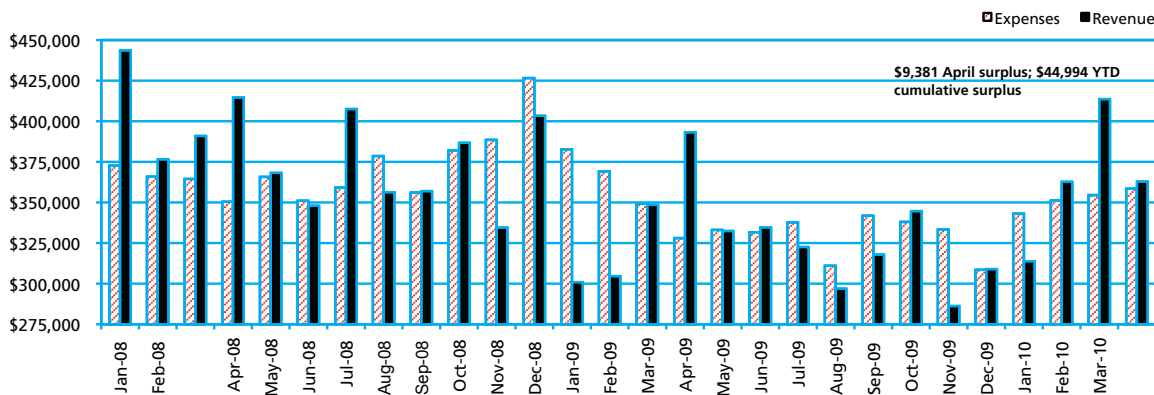
PAGES 14-23

**Project Descriptions**

## Introduction and Financial Health Indicators Summary

While we are adding staff, our imbalance between projected and actual revenue is gradually decreasing. We are leveling workflow by increasing billable project assignments to traditionally low-billable staff, primarily in the Environmental Informatics focus area, and by filling new positions. As part of the complete overhaul of SFEI's workflow tracking and planning system, staff continues to work on a better classification system of hours billed to various overhead categories and building a meaningful hierarchy of "projects" and associated tasks. Over the past decade, new billing items were added on an ad hoc basis, which makes implementation of the envisioned new approach a challenge. I am hoping to have this re-tooling process completed by the middle of the third quarter. April was the third consecutive month for which we generated a surplus (see [Figure 1](#)). As [Table 1](#) and [Figure 2](#) show, we have a reasonable cushion of projects in the pipeline to support our existing staff plus new positions created for the next 30 months. The small amount of proposals funded in the first quarter gave us some welcome breathing room and push internal planning deadlines out into 2011 for a few key projects with product due dates further out in 2011 and 2012. Second quarter proposal-writing activity has been more intense. With our current staffing figures, including new positions to be filled, we require approximately \$3M of new project funding for SFEI labor per year (excluding RMP), as shown in [Figure 3](#). The relatively low level of new proposals funded as of April 2010 give us at least one quarter of breathing room to catch up with project delays. [Table 2](#) shows the amount of proposals submitted recently, including the estimated likelihood of being awarded. The discounted grand total for SFEI/ASC labor is estimated at \$1.2M. [Figures 4](#) and [5](#) demonstrate that average, Institute-wide, billable target hours and percentages may not always be a very accurate predictor of financial health, but they provide good guideposts to supervisors and project planners for necessary course adjustments in the future. [Figure 6](#) and [Table 3](#) show recent cash and receivable trends.

**Figure 1 Revenue and Expense**



- ▶ Revenue = Billed labor revenue
  - Does not include subcontractors or other direct expenses
- ▶ Expense = Payroll + Overhead (rent, office supplies, etc.)
  - Does not include direct subcontractor fees and direct expenses

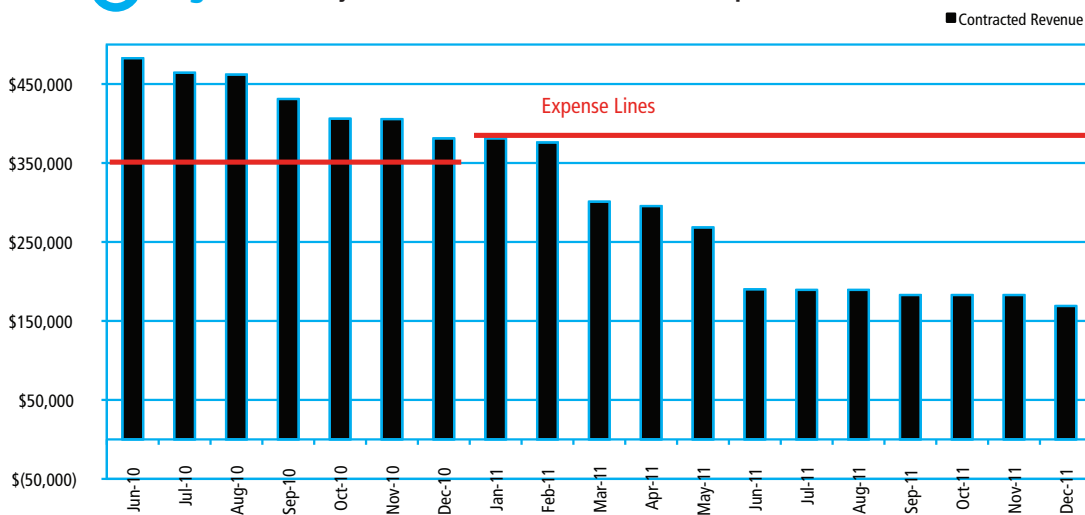


**Table 1** Number of months that each type of funding will be able to sustain SFEI expenses

Type of Funding	Contracted Amount	Expense	Month Equivalent
Contracted Labor Balance (includes 2010 RMP)	\$ 4,424,715	\$ 350,000	13
In Negotiations	\$ 1,978,419	\$ 350,000	6
Proposals	\$ 894,708	\$ 350,000	3
2011 Additional RMP Labor	\$ 1,800,000	\$ 367,500	5
2012 Additional RMP Labor	\$ 1,800,000	\$ 385,875	5
		TOTAL	30

▶ Does not include \$20K/month target surplus

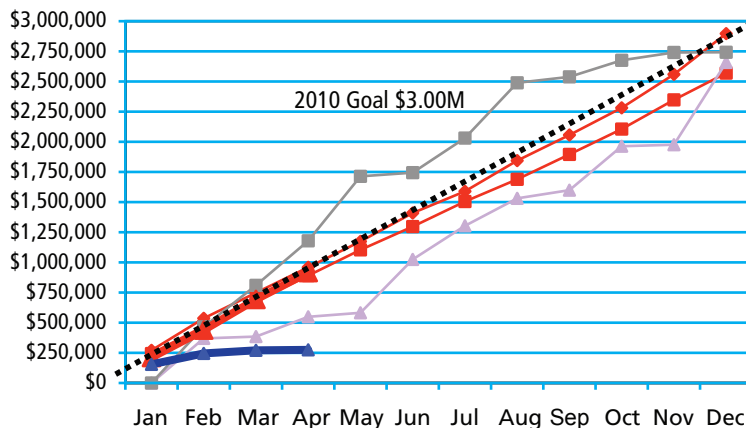
**Figure 2** Projected Contracted Revenue vs Expense



- ▶ Projected Revenue = Projected Monthly Labor
  - Projected monthly labor for each contract = labor balance divided by months remaining on contract
  - Projected Revenue = The sum of all projected monthly labor for ALL contracts including RMP
- ▶ Expense = Payroll + Overhead (rent, office supplies, etc.)
  - Higher expense scenario starting January 1, 2011 with 5% increase factored in
  - Staff levels assumed to remain constant

**Figure 3** Proposal Needs

- ◆ 08 SFEI Expenses
- ◆ 09 SFEI Expenses
- ◆ 10 SFEI Expenses
- ◆ 08 SFEI Proposals Funded
- ◆ 09 SFEI Proposals Funded
- ◆ 10 SFEI Proposals Funded



- ▶ Excludes RMP estimated labor of \$1.44mm/year
- ▶ Estimated \$350k of expense/mth plus \$20k surplus/mth

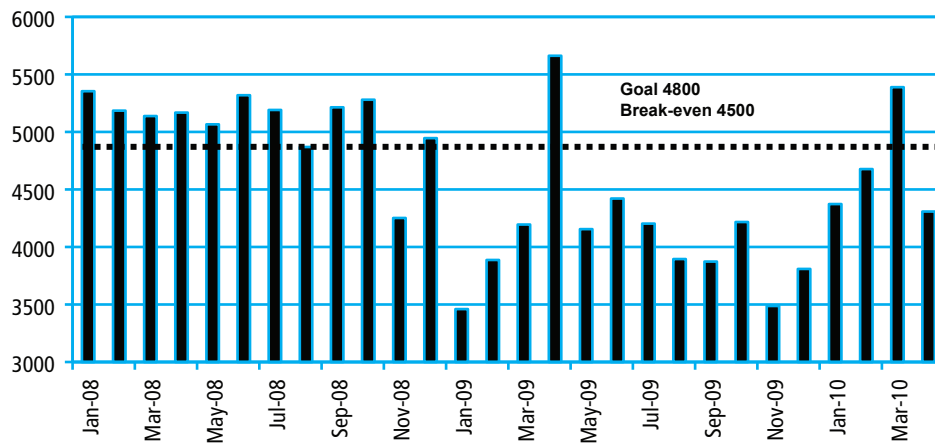
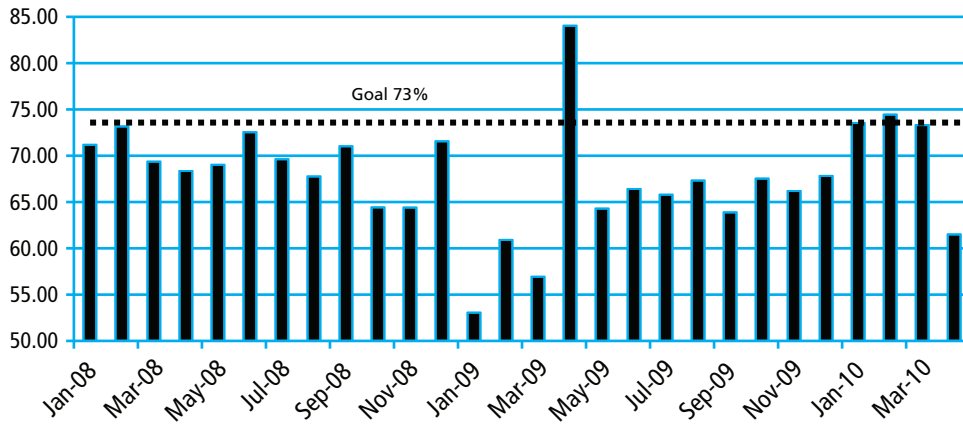
**Table 2** Projected Contracted Revenue

ASC Proposals

Not Submitted yet

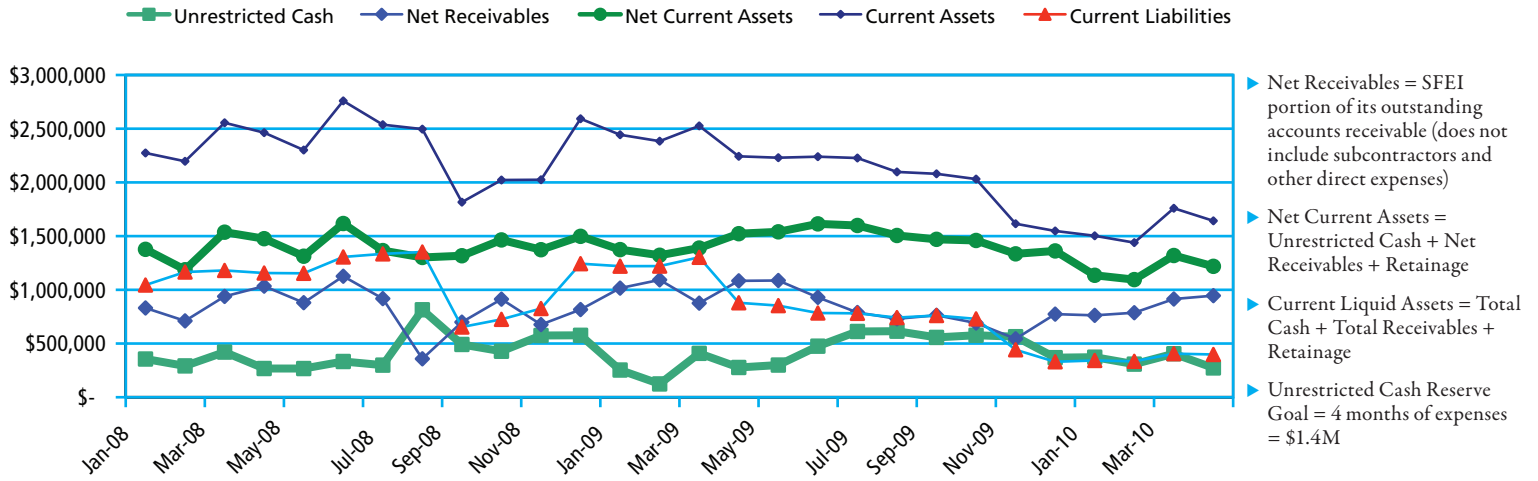
PROPOSALS SUBMITTED	TOTAL AMOUNT SUBMITTED	AMOUNT TO SFEI	Percent Probability of Funding	Discounted Estimated Probability	Funding Source/ Partners	Anticipated Notice of Award	Anticipated Duration	Solicited S, Competitive C, Renewal R	Last Updated
USA RAM	\$30,000	\$30,000	80%	\$24,000	EPA	July		R	5/18/10
BASMAA Assistance MRP Database Development	\$20,000	\$20,000	80%	\$16,000	BASMAA		7/10-6/11	S	5/7/10
Geomorphic Assistance for Zone 7 Agency	\$300,000	\$200,000	80%	\$160,000	Zone 7 Water Agency		7/10-6/13	S	5/7/10
San Francisquito Watershed/Urban Greening Plan Development	\$250,000	\$63,000	50%	\$31,500	Committee for Green Foothills/SFEP			S	4/5/10
Salinas River Historical Ecology Technical Review	\$26,000	\$26,000	60%	\$15,600	The Nature Conservancy			S	3/29/10
Removal of an Exotic Oyster from San Francisco Bay	\$46,895	\$20,000	50%	\$10,000	USACE/CRAB			S	3/16/10
BASMAA Assistance MRP Monitoring Methods Document	\$20,000	\$20,000	90%	\$18,000	BASMAA	July-August		S	2/24/10
Walnut Creek MRP Loads Monitoring	\$150,000	\$75,000	90%	\$67,500	Contra Costa County		7/10-9/11	S	2/11/10
Fremont Retrofit LID for Cleaner Roads	\$203,000	\$101,500	50%	\$50,750	City of Fremont		7/10-7/12	C	2/11/10
City of Livermore Sediment Source Assessment	\$25,000	\$25,000	25%	\$6,250	City of Livermore	2011		S	2/11/10
T-Sheet Atlas Review	\$10,000	\$10,000	75%	\$7,500	USFWS			S	1/20/10
Marine Debris	\$196,507	\$51,120	50%	\$25,560	Department of Commerce			S	11/12/09
Grasslands (3 years)	\$300,000	\$300,000	80%	\$240,000	Bureau of Reclamation			R	10/29/09
Senador Creek Watershed	\$79,547	\$48,426	90%	\$43,584	Santa Clara County Park District/URS		6/10-6/11	S	10/29/09
Novato Creek HE	\$160,000	\$160,000	10%	\$16,000	Marin County			S	10/19/09
Completion of T-Sheet Atlas	\$15,000	\$15,000	25%	\$3,750	SANDAG/WRA/SCCWRP			S	10/13/09
Historical Analysis of North San Diego County Lagoons	\$155,000	\$155,000	20%	\$31,000	SANDAG/WRA/SCCWRP			S	10/13/09
T-Sheet Geodatabase & Workshop Prep	\$9,500	\$5,000	50%	\$2,500	SCC/SCCWRP			S	8/7/09
RB Electronic Data Integration	\$10,000	\$10,000	60%	\$6,000	EBDA	Aug		S	5/20/10
Sierra Nevada Test of California Wetland and Riparian Area Monitoring Program (WRAMP)	\$345,000	\$177,195	50%	\$88,598	EPA	Sept	12/10-11/13	C	5/6/10
Comprehensive Strategy to Protect and Monitor California Wetlands: Science Support for Developmental Phases 2 and 3	\$350,000	\$197,000	50%	\$98,500	EPA	Sept	11/10-10/12	C	5/6/10
Regional Monitoring Program Development Including Wetland Performance Curves	\$346,091	\$233,251	50%	\$116,626	EPA	Sept	1/11-12/13	C	5/6/10
Managing Water Quality in the Delta	\$200,000	\$141,979	50%	\$70,990	EPA	June		C	4/12/10
Data Management and Assessment in the San Joaquin River Basin	\$200,000	\$187,375	20%	\$37,475	EPA	June		C	4/12/10
SF Bay Fish Risk Reduction Program	\$300,000	\$15,000	95%	\$14,250	CDPH/BACWA/WSPA/BASMAA	July			4/1/10
<b>TOTAL SFEI</b>	<b>\$2,306,448</b>	<b>\$1,350,046</b>	<b>58%</b>	<b>\$789,744</b>					
<b>TOTAL ASC</b>	<b>\$1,441,091</b>	<b>\$936,800</b>	<b>44%</b>	<b>\$412,188</b>					
<b>GRAND TOTAL</b>	<b>\$3,747,539</b>	<b>\$2,286,846</b>	<b>53%</b>	<b>\$1,201,931</b>					

**Figure 4 and 5** Monthly Billable Percentage and Hours



- ▶ 73% and 4800 hours goals cover expenses plus \$20K target surplus (based on historical performance)
- ▶ Averages: 2009 – 65%, 4100 hours; 2008 – 69%, 5080 hours

**Figure 6 and Table 3 Assets and Liabilities Status**



	Unrestricted Cash	Net Receivables	Net Current Assets	Current Assets	Current Liabilities
Apr-10	\$ 273,024	\$945,718	\$1,218,742	\$1,642,196	\$397,978
Mar-10	\$ 405,017	\$914,424	\$1,319,441	\$1,759,386	\$405,823
Feb-10	\$ 308,277	\$786,872	\$1,095,150	\$1,439,486	\$334,448
Jan-10	\$ 372,958	\$762,389	\$1,135,347	\$1,502,941	\$342,355
Dec-09	\$ 368,437	\$773,767	\$1,362,100	\$1,548,061	\$330,068
Nov-09	\$ 563,657	\$543,910	\$1,334,929	\$1,615,214	\$441,870
Oct-09	\$ 577,074	\$690,990	\$1,459,406	\$2,031,143	\$729,455
Sep-09	\$ 557,017	\$763,042	\$1,470,114	\$2,080,010	\$760,815
Aug-09	\$ 614,947	\$730,458	\$1,505,884	\$2,097,502	\$741,580
Jul-09	\$ 612,366	\$788,900	\$1,598,940	\$2,227,104	\$781,105
Jun-09	\$ 475,407	\$929,513	\$1,613,987	\$2,239,445	\$784,216
May-09	\$ 299,592	\$1,086,727	\$1,539,972	\$2,229,949	\$853,018
Apr-09	\$ 277,093	\$1,083,631	\$1,522,565	\$2,242,831	\$879,423
Mar-09	\$ 408,677	\$876,052	\$1,388,860	\$2,525,984	\$1,302,820
Feb-09	\$ 123,920	\$1,092,742	\$1,321,779	\$2,383,841	\$1,220,921
Jan-09	\$ 253,281	\$1,015,847	\$1,374,362	\$2,443,551	\$1,220,138
Dec-08	\$ 576,508	\$816,316	\$1,498,058	\$2,592,555	\$1,243,298
Nov-08	\$ 574,841	\$676,433	\$1,373,457	\$2,024,676	\$825,971
Oct-08	\$ 428,206	\$913,090	\$1,464,508	\$2,022,302	\$725,221
Sep-08	\$ 491,399	\$699,048	\$1,317,321	\$1,816,151	\$653,697
Aug-08	\$ 814,314	\$357,736	\$1,301,265	\$2,496,059	\$1,352,061
Jul-08	\$ 298,914	\$918,101	\$1,365,223	\$2,537,372	\$1,334,700
Jun-08	\$ 332,746	\$1,126,479	\$1,617,317	\$2,758,949	\$1,305,996
May-08	\$ 267,192	\$880,271	\$1,312,859	\$2,301,398	\$1,153,752
Apr-08	\$ 267,458	\$1,034,291	\$1,476,139	\$2,463,014	\$1,156,348
Mar-08	\$ 420,366	\$938,649	\$1,536,639	\$2,555,130	\$1,180,458
Feb-08	\$ 291,804	\$710,746	\$1,186,898	\$2,196,661	\$1,165,710
Jan-08	\$ 355,794	\$831,011	\$1,377,013	\$2,274,040	\$1,044,515

Projected and actual revenues by quarter are updated for each “accounting center” (SFEI, ASC, and RMP) in [Tables 4-6](#), with updated expense figures included in [Table 7](#). New projects awarded but still in the negotiation or contract preparation phase at the granting agency are summarized in [Table 8](#). Contracts that have been signed since the last reporting period are listed in [Table 9](#).

**Table 4** Projected vs. Actual Revenue - SFEI

	SFEI Year Budget	SFEI Q1 Budget	SFEI Q1 Actual	SFEI Q1 Difference
Revenue				
Billed Labor	\$ 2,390,410	\$ 597,603	\$ 553,046	\$ (44,557)
Subcontracts	\$500,000	\$125,000	\$143,060	\$18,060
Other Reimb Revenue	\$165,000	\$41,250	\$10,091	(\$31,159)
*Other Revenue	\$34,200	\$8,550	\$6,140	(\$2,410)
Total Revenue	\$ 3,089,610	\$ 772,403	\$ 712,338	\$ (60,065)

\*Extra revenue from Alameda County, rental income, equipment rental

**Table 5** Projected vs. Actual Revenue – ASC

	ASC Year Budget	ASC Q1 Budget	ASC Q1 Actual	ASC Q1 Difference
Revenue				
Billed Labor	\$ 800,000	\$ 200,000	\$ 181,170	\$ (18,830)
Subcontracts	\$125,000	\$31,250	\$10,706	(\$20,544)
Other Reimb Revenue	\$10,000	\$2,500	\$899	(\$1,601)
Total Revenue	\$ 935,000	\$ 233,750	\$ 192,774	\$ (40,976)

**Table 6** Projected vs. Actual Revenue – RMP

	RMP Budget	RMP Q1 Budget	RMP Q1 Actual	RMP Q1 Difference
Revenue				
Billed Labor	\$ 1,821,237	\$ 455,309	\$ 355,993	\$ (99,317)
Subcontracts	\$1,550,000	\$387,500	\$225,888	(\$161,612)
Other Reimb Revenue	\$153,550	\$38,388	\$28,800	(\$9,588)
Total Revenue	\$ 3,524,787	\$ 881,197	\$ 610,680	\$ (270,517)

**Table 7** Projected vs. Actual Revenue & Expense - TOTAL

	Total Year Budget	Total Q1 Budget	Total Q1 Actual	Total Q1 Difference
<b>Revenue</b>				
Billed Labor	\$ 5,011,647	\$ 1,252,912	\$ 1,090,208	\$ (162,704)
Subcontracts	\$2,175,000	\$543,750	\$379,654	(\$164,096)
Other Reimb Revenue	\$328,550	\$82,138	\$39,789	(\$42,348)
*Other Revenue	\$34,200	\$8,550	\$6,140	(\$2,410)
<b>Total Revenue</b>	<b>\$ 7,549,397</b>	<b>\$ 1,887,349</b>	<b>\$ 1,515,791</b>	<b>\$ (371,558)</b>
*Extra revenue from Alameda County, rental income, equipment rental				
<b>Expenses</b>				
Salaries	\$3,095,791	\$773,948	\$683,554	(\$90,394)
Benefits	\$720,441	\$180,110	\$196,701	\$16,590
**S&B for 2.5 Staff	\$201,500	\$50,375		
Subcontracts	\$2,175,000	\$543,750	\$389,896	(\$153,854)
Other Reimb Expense	\$328,550	\$82,138	\$41,344	(\$40,793)
Adm Exp	\$772,000	\$193,000	\$146,832	(\$46,168)
Legal/Accounting	\$30,000	\$7,500	\$0	(\$7,500)
Consultant	\$40,000	\$10,000	\$3,098	(\$6,902)
Supplies - Office & Field	\$30,000	\$7,500	\$7,748	\$248
Publications/Dues	\$5,000	\$1,250	\$638	(\$612)
Printing	\$12,000	\$3,000	\$2,266	(\$734)
Postage & Courier	\$5,000	\$1,250	\$842	(\$408)
Small Equip Office & Field	\$50,000	\$12,500	\$923	(\$11,577)
Rent	\$331,000	\$82,750	\$79,829	(\$2,921)
Equipment Lease	\$40,000	\$10,000	\$8,135	(\$1,865)
Telephones	\$20,000	\$5,000	\$6,159	\$1,159
Insurance	\$25,000	\$6,250	\$4,427	(\$1,823)
Repairs & Maint	\$15,000	\$3,750	\$140	(\$3,610)
Janitorial service	\$25,000	\$6,250	\$5,400	(\$850)
Travel	\$25,000	\$6,250	\$5,835	(\$415)
Professional Development	\$10,000	\$2,500	\$1,139	(\$1,361)
Conference	\$25,000	\$6,250	\$5,640	(\$610)
Membership	\$5,000	\$1,250	\$395	(\$855)
Recruiting Costs	\$8,000	\$2,000	\$0	(\$2,000)
License & Taxes	\$2,000	\$500	\$476	(\$24)
Depreciation	\$60,000	\$15,000	\$12,000	(\$3,000)
Bank/Payroll fees	\$5,000	\$1,250	\$1,178	(\$72)
Miscellaneous	\$2,000	\$500	\$563	\$63
Bad debt expense	\$2,000	\$500	\$0	(\$500)
IT	\$124,780	\$31,195	\$21,852	(\$9,343)
Workstation software	\$28,580	\$7,145	\$2,055	(\$5,090)
Workstation hardware	\$23,000	\$5,750	\$7,359	\$1,609
IT Training	\$37,500	\$9,375	\$1,517	(\$7,858)
Internet	\$8,100	\$2,025	\$3,064	\$1,039
Data Storage (Backup)	\$8,880	\$2,220	\$732	(\$1,488)
Server software	\$9,200	\$2,300	\$1,593	(\$707)
Server hardware	\$9,020	\$2,255	\$5,507	\$3,252
Small Equip. & Book	\$500	\$125	\$25	(\$100)
<b>Total Expenses</b>	<b>\$7,418,062</b>	<b>\$1,854,516</b>	<b>\$1,480,178</b>	<b>(\$374,337)</b>
<b>Surplus (Deficit)</b>	<b>\$ 131,335</b>	<b>\$ 32,834</b>	<b>\$ 35,613</b>	<b>\$ 2,780</b>

**Table 8** Contracts in Negotiation

ASC

AWARDED CONTRACTS AWAITING SIGNATURE OR IN NEGOTIATIONS	AMOUNT SUBMITTED	AMOUNT AWARDED	AMT TO SFEI/ ASC LABOR	In Original Program Plan?	Funding Source/ Partners	Anticipated Duration Date	Assigned Project #	Solicited S, Competitive C, Renewal R	Last Updated
James V. Fitzgerald Area of Special Biological Significance Pollution Reduction Program (Frozen)	\$2,500,000	\$400,000	\$189,600	No	Prop 84/ SMCRCD	9/10-8/13		C	5/4/10
North Richmond	\$155,532	\$155,532	\$60,600	No	Contra Costa County Public Works	7/10-6/12	50xx	S	5/4/10
HE of Eastern Contra Costa County (Additional Focus Areas)	\$40,000	\$40,000	\$40,000	No	Contra Costa County	4/14/10- 12/31/10	7055	S	5/4/10
Montezuma Wetlands Project TRT	\$80,804			No	Montezuma Wetlands LLC	5/1/10- 12/31/10	4044	R	5/4/10
Integrated Ecological Mon & Assessment	\$20,000	\$20,000	\$20,000	No	EOA		5067	R	5/4/10
Sediment Management Plan f or the Alameda Creek Flood Control Channel	\$300,000	\$380,000	\$193,000	No	ACFC&WCD	5/25/10- 5/24/12	50xx	S	5/3/10
CEDEN	\$41,750	\$41,750	\$41,750	No	SWRCB/SJSURF	6/1/10- 3/31/12	1066.6	R	4/20/10
EPA National Coastal Assessment (NCA) SF Bay Report	\$69,000	\$69,000	\$69,000	No	SWRCB/SJSURF	6/1/10- 3/31/12	1066.6	R	4/20/10
Joint Fire Science Program	\$245,000	\$245,000	\$150,000	No	JFSP/Nat'l Parks/ UCB/Amah Mutsun Tribal Band/BLM	8/1/11- 9/30/13		C	4/5/10
State of the Bay Report	\$30,335	\$37,765	\$37,765	No	SFEP/CEMAR, TBI, PRBO		10xx	C	2/12/10
LID Monitoring Guidance	\$50,000	\$50,000	\$50,000	No	SCCWRP	5/1/10- 12/31/11		S	1/31/10
Eastern Contra Costa County Historical Ecology Study Printing	\$9,600	\$9,600	\$-	No	Contra Costa County Fish and Wildlife Propagation Fund			C	1/24/10
CIAP HOT	\$130,000	?	?	No	DOI/BCDC	?	?	S	12/10/09
Estuary 2100 Phase 2	\$450,000		\$393,780	Yes	EPA/SFEP	5/10-5/13		S	11/10/09
CA S&T Assessment of WL Extent & Intensification of the 2011 NWCA	\$58,000		\$58,000	Yes	SCCWRP	11/10		C	10/29/09
Montezuma Data Management	\$10,904		\$10,904	No	Montezuma Wetlands LLC	12/10	6504	R	4/13/09
Focused Funding (Delta RMP amendment)	\$250,000	\$250,000	\$205,132	No	SWRCB	2/4/10- 3/31/12	SWRCB	R	5/20/10
Healthy Streams Portal Development	\$48,000	\$48,000	\$48,000	No	SWRCB	5/1/10- 6/30/11	8401	S	4/27/10
Safe to Eat Portal	\$48,000	\$48,000	\$48,000	No	SWRCB			S	3/26/10
WL Monitoring Tool Kit	\$1,250,000	\$1,000,000	\$412,000	Yes	CIAP	6/10-6/13	84xx	C	10/29/09
<b>TOTAL SFEI:</b>	<b>\$4,190,925</b>	<b>\$1,448,647</b>	<b>\$1,314,399</b>						
<b>TOTAL ASC:</b>	<b>\$1,596,000</b>	<b>\$1,346,000</b>	<b>\$713,132</b>						
<b>GRAND TOTAL:</b>	<b>\$5,786,925</b>	<b>\$2,794,647</b>	<b>\$2,027,531</b>						

**Table 9** New Contracts Summary

ASC Project Closed

PROPOSALS FUNDED	AMOUNT SUBMITTED	Amount to SFEI	AMOUNT OF AWARD	Funding Source/ Partners	In Program Plan?	Assigned Project #	Solicited S, Competitive C, or Renewal R	Last Updated
Elkhorn Slough Tidal Wetland Plan	\$5,193	\$4,893	\$5,193	Elkhorn Slough Foundation	No	4063.1	R	5/13/10
SWAMP (Coast Y2)	\$117,000	\$129,833	\$109,833	SJSURF	Yes	1066.6	R	5/3/10
Napa Valley HE Atlas	\$4,000	\$4,000	\$4,000	UC Press	Yes	7076		4/26/10
Napa Valley HE Atlas	\$20,000	\$20,000	\$20,000	Napa County FCD	Yes	7075	S	3/4/10
Vernal Pool CRAM Training	\$15,000	\$5,600	\$14,999	Tetra Tech	No	4079	S	3/1/10
Climate Ready Estuaries Expert Elicitation Workshop	\$6,000	\$6,000	\$6,000	ICF International	No	5070	S	2/16/10
Wetland Data Portal	\$30,000	\$35,000	\$35,000	SWRCB/ SJSURF	Yes	1066.5	R	1/25/10
El Cerrito Green Streets Pilot Project	\$112,205	\$47,548	\$102,429	ARRA/ABAG	No	5068	C	1/20/10
Newcomb Model Block Project (mod to Estuary 2100)	\$30,290	\$22,500	\$22,500	City of San Francisco/ ABAG	No	5065	R	1/20/10
National Wetlands Assessment	\$38,300	\$38,389	\$38,389	EPA	Yes	4076	S	1/19/10
LID/TAC Hydromodification	\$2,000	\$1,000	\$2,000	EPA	No	4078		1/27/10
General GIS Services to RWQCB (Marcus)	\$10,000	\$10,000	\$10,000	ABAG	No	8600	R	1/20/10
Focused Funding for Monitoring Directory	\$50,000	\$41,784	\$50,000	SWRCB	No	8102	S	2/8/10
TAT ARRA Science Support	\$86,000	\$43,000	\$149,000	ARRA/EPA/ SWRCB	Yes	8402	R	2/4/10
<b>TOTAL SFEI:</b>	<b>\$389,988</b>	<b>\$324,763</b>	<b>\$370,342</b>					
<b>TOTAL ASC:</b>	<b>\$136,000</b>	<b>\$84,784</b>	<b>\$199,000</b>					
<b>GRAND TOTAL:</b>	<b>\$525,988</b>	<b>\$409,546</b>	<b>\$569,342</b>					



The data management position was filled in April by Adam Wong. Adam was born and raised in Davis and comes to us with a B.A. in Environmental Science and Policy from Duke University. After an initial internship at the Institute, Greg Tseng joined the information technology staff as an Analyst full-time in May, shortly after completing his B.S. at UC Berkeley. He is providing desktop support, and is an integral part of the GIS unit. After submittal of his dissertation in environmental engineering at UC Davis, Jon Leatherbarrow will re-join the Institute on June 9th. We are delighted to have Letitia Grenier back full-time following her lengthy treatment and recovery. She will be spearheading our climate change-related initiatives. Resumes for two environmental scientist vacancies and for a web developer position are being evaluated for hiring as soon as possible. These additional positions are budgeted into a two-year planning horizon. The goal for filling the position of Deputy Director is to fully identify and integrate skill sets that are complementary to existing senior staff members. I therefore decided to await the outcome of our internal 360-degree mid-year reviews and to insure that internal candidates have an opportunity to apply for the position after our reorganization is completed. **Table 10** represents the different types of training and development the existing staff has completed. **Table 11** provides an update of work leveling efforts under updated billable guidelines for existing staff and new positions.

**Table 10** Training and Development

NAME	CONFERENCES & SYMPOSIUMS	TECHNICAL INSTRUCTIONS	PROJECT MANAGEMENT	BUSINESS-FOCUSED TRAINING PROGRAMS
Allen				
Askevold				
Beller				
Bezalel		1		
Cabling				
Cayce		1		
Clark				
Collins				
David	1			
Davis				
Featherston				
Franz				
Frontiera				
Gilbreath				
Greenfield	5			
Grenier	1			
Grosso				
Grossinger				
Harrold				
Hoenicke				1
Hunt				
Jabusch				
Klatt		1		
Klosterhaus	3			
Lent	1			
Leung, F				
Leung, L				
Lowe				
May				
Melwani				
McKee				
Oram				
Pearce				
Poche				
Ross				
Ridolfi	1			
Russio				
Salomon				
Sedlak				
Seto				
Stanford				
Striplen	1			
Wanczyk				
Whipple				
Williams	1			
Wong				
Yee	2			
<b>Total:</b>	<b>5</b>	<b>3</b>	<b>0</b>	<b>1</b>

**Table 11**  
**Discrepancies**  
**between work load**  
**and available staff**  
**resources. Excess**  
**hours include**  
**projects with**  
**greater than 50%**  
**likelihood of being**  
**funded in Q4.**

First Name	Last Name	Avg Billing Rate x2.78	Available Hours	Billable Goal %	Billable Goal Hours	Billable Planned Hours	Need Hours? (over)	Planned %
Rachel	Allen	\$46.78	1780	90%	1478	1526	(48)	103%
Ruth	Askevold	\$73.51	1992	80%	1394	1289	105	92%
Erin	Beller	\$53.06	1793	90%	1434	1557	(123)	109%
Shira	Bezalel	\$70.84	1992	60%	896	1044	(148)	117%
Joanne	Cabling	\$45.21	1594	30%	430	361	69	84%
Kristen	Cayce	\$81.43	1925	70%	1213	1493	(280)	123%
Angelina	Clark	\$41.70	1743	25%	401	24	377	6%
Joshua	Collins	\$159.08	1992	60%	1056	1900	(844)	180%
Nicole	David	\$76.99	1726	85%	1208	1990	(782)	165%
Jay	Davis	\$150.09	1992	60%	1036	1233	(197)	119%
Todd	Featherston	\$125.01	1992	45%	618	897	(279)	145%
Amy	Franz	\$56.67	1992	90%	1614	1719	(105)	107%
Patricia	Frontiera	\$68.40	697	80%	558	563	(5)	101%
Alicia	Gilbreath	\$59.50	996	90%	767	763	4	99%
Ben	Greenfield	\$80.75	1992	80%	1394	1750	(356)	126%
Letitia	Grenier	\$102.08	1825	60%	986	1122	(136)	114%
Robin	Grossinger	\$113.34	1992	60%	1056	1341	(285)	127%
Cristina	Grosso	\$93.85	1992	70%	1215	1716	(501)	141%
Rainer	Hoenicke	\$180.43	1992	15%	259	241	18	93%
Jennifer	Hunt	\$73.44	1992	80%	1434	1811	(377)	126%
Thomas	Jabusch	\$84.38	1992	70%	1434	1395	39	97%
Jamie	Kass	\$53.46	1877	90%	1558	983	575	63%
Marcus	Klatt	\$50.79	1992	90%	1653	1669	(16)	101%
Susan	Klosterhaus	\$82.99	1992	80%	1434	1613	(179)	112%
Michelle	Lent	\$59.50	1992	90%	1614	1811	(197)	112%
Frank	Leung	\$88.41	1992	50%	876	1015	(139)	116%
Lawrence	Leung	\$78.66	1992	50%	896	1068	(172)	119%
Sarah	Lowe	\$106.17	1992	80%	1394	1735	(341)	124%
Michael	May	\$121.24	1992	40%	518	727	(209)	140%
Lester	McKee	\$122.77	1992	60%	1056	1466	(410)	139%
Aroon	Melwani	\$65.88	1992	85%	1614	1213	401	75%
Theodore	Meyers	\$87.23	1992	100%	1833	1834	(1)	100%
John	Oram	\$101.77	1992	60%	1076	1037	39	96%
Sarah	Pearce	\$71.85	1594	85%	1227	1343	(116)	109%
Katherine	Ridolfi	\$65.52	1992	80%	1534	1624	(90)	106%
April	Robinson	\$32.11	199	90%	199	159	40	80%
John	Ross	\$72.63	1992	90%	1614	1737	(123)	108%
Linda	Russio	\$74.73	1992	30%	438	155	283	35%
Micha	Salomon	\$55.84	1942	85%	1573	1496	77	95%
Meg	Sedlak	\$116.17	530	80%	387	439	(52)	113%
Stephanie	Seto	\$57.34	1992	30%	279	161	118	58%
Bronwen	Stanford	\$49.12	1992	90%	1653	1491	162	90%
Charles	Striplen	\$42.12	598	100%	598	174	424	29%
Gregory	Tseng	\$21.00	1541	10%	145	60	85	41%
Linda	Wanczyk	\$85.71	1992	50%	896	702	194	78%
Alison	Whipple	\$59.50	1992	90%	1653	1345	308	81%
Meredith	Williams	\$115.72	1992	60%	996	1189	(193)	119%
Adam	Wong	\$48.12	1411	90%	1169	1456	(287)	125%
Donald	Yee	\$123.84	1992	80%	1394	1418	(24)	102%
Deputy Director (Nov 1)		\$160.38	332	60%	183	345	(162)	188%
Envir Scientist (Wetlands July 1)		\$95.56	996	60%	550	796	(246)	145%
GIS Intern		\$23.40	540	100%	540	147	393	27%
Interns - Misc.		\$15.86	623	100%	623	623	0	100%
Web Developer (July 1)		\$54.00	498	90%	749	602	147	80%
SPL Scientist (Jon Leatherborrow - June 9)		\$90.88	1162	60%	642	1032	(390)	161%
Envir Analyst (Watershed Aug 1)		\$46.78	830	90%	688	480	208	70%
		\$4,433.58	92496		57133	60880	(3747)	106.56%

While the original 2010 Program Plan, approved by the Board in December 2009, contained our best assessment of work commitments for the year ahead, a number of new projects have since come online. **Table 12** lists all active projects sorted by anticipated completion date. For the Board to be able to find more detail behind the budget tables above, we have included project narratives, estimated timelines, and budget amounts below. We have included projects with an estimated probability greater than 75% of being awarded by the end of the year.

**Table 12** Timelines of Existing Projects

Proj#	Contract Name	Date Start	Date Complete	Original Contract Amount	SFEI Labor Budget	Balance SFEI Labor
7061	S.F. Bay Creosote Assessment	6/20/08	4/30/10	\$165,000	\$96,048	\$2,326
1084	Methyl Hg & Dredging Operations Symposiu	7/13/09	5/31/10	\$30,182	\$29,317	\$3,614
7052	Trancas Crossing Park and Napa River Trail	2/16/07	5/31/10	\$19,372	\$15,251	\$794
2027	SF Bay Non-Native Oyster Eradication II	8/12/08	6/30/10	\$109,477	\$37,477	\$3,815
2500	Green Sturgeon & Longfin Smelt Symposia	7/7/09	6/30/10	\$45,551	\$39,201	\$4,839
5057	Watershed Indicators	1/1/08	6/30/10	\$145,000	\$118,000	\$29,206
5062	Development of Estuarine Nutrient Numeric Endpoints	10/1/08	6/30/10	\$75,227	\$64,927	\$33,369
7054	Ano Nuevo GIS Products	8/23/07	6/30/10	\$20,500	\$13,561	\$4,039
7060	Friends of Napa River Historical Atlas	5/1/08	6/30/10	\$10,000	\$9,510	\$6,176
7063	Napa Valley Historical Atlas (Vintners)	9/1/08	6/30/10	\$7,000	\$6,327	\$1,627
7070	Ballona Watershed HE Study	9/15/09	6/30/10	\$21,000	\$20,000	\$4,057
1053	San Joaquin Monitoring Strategy	7/20/06	7/31/10	\$232,000	\$193,058	\$7,618
7076	Napa Atlas - UC Press	3/23/10	8/15/10	\$4,000	\$3,984	\$3,984
6015	Ted Meyers	8/18/08	8/17/10	\$358,000	\$357,000	\$91,508
1067	CCC Marina Grant Program, Phase II	8/14/07	9/1/10	\$77,669	\$55,895	\$(1,419)
4076	USA Rapid Assessment	1/1/10	9/30/10	\$38,389	\$38,389	\$20,941
5061	Grasslands	10/1/08	9/30/10	\$148,893	\$143,393	\$64,210
7072	Upper Penitencia Creek HE Assessment	10/16/09	10/16/10	\$40,000	\$40,000	\$39,826
4044	Montezuma Phase 2	4/1/04	12/31/10	\$127,346	\$113,278	\$11,271
5066	Guadalupe	7/1/09	12/31/10	\$178,993	\$113,924	\$39,974
7055	HE of Eastern Contra Costa County	7/2/07	12/31/10	\$350,000	\$346,960	\$32,106
7059	Napa HE Atlas SCC	6/20/08	12/31/10	\$25,000	\$25,000	\$14,156
7062	Alameda Creek HE Study	12/12/08	12/31/10	\$425,850	\$413,850	\$251,419
6509.1	SBSP GIS Coastal Conservancy	3/1/10	2/15/11	\$62,272	\$61,272	\$56,239
5046	Spartina Monitoring Plan in Eden Landing	7/24/06	2/28/11	\$24,900	\$24,790	\$20,910
5054	Critical Coastal Area Phase II	4/1/07	3/1/11	\$900,000	\$479,000	\$180,858
1064	SQO Phase II (Sarah's Task)	5/1/07	3/30/11	\$756,043	\$152,011	\$22,183
1064	SQO Phase II (Ben's Task)	5/1/07	3/30/11	\$243,957	\$221,537	\$69,936
1066.2	SWAMP Phase II (Bioaccumulation LY2)	5/29/07	3/31/11	\$112,619	\$107,619	\$7,203
1066.2	SWAMP Phase II (Data Center)	5/29/07	3/31/11	\$193,000	\$192,500	\$80,153
1066.2	SWAMP Phase II (Bioaccumulation CY1)	5/29/07	3/31/11	\$100,381	\$85,381	\$71,902
4066	Wetlands Regional Monitoring	3/1/07	3/31/11	\$1,250,000	\$1,145,679	\$387,692
4072	CRAM Reference Site Network	1/1/09	3/31/11	\$61,500	\$57,900	\$50,908
5060	Green Infill - Clean Stormwater	10/1/08	3/31/11	\$200,000	\$127,212	\$79,438
5067	Ecological Monitoring & Assessment Framework Project	5/22/09	3/31/11	\$233,447	\$233,313	\$155,748
1078	McNabney Marsh - Benthos	8/13/08	4/30/11	\$33,990	\$17,550	\$10,458
7053	Ventura Historical Ecology Study	7/13/07	6/30/11	\$550,000	\$371,790	\$89,555
7069	Southern CA Historic T-sheet Website	7/7/09	7/7/11	\$12,000	\$12,000	\$3,153
7027	SVP2c Historical Ecology	3/22/04	11/21/11	\$212,185	\$192,654	\$69,691
5056	PCBs in Building Materials	1/27/10	12/1/11	\$87,976	\$81,150	\$70,063
4075	Coastal Program Workshop	9/23/09	12/31/11	\$10,000	\$10,000	\$10,000
5065	Estuary 2100 & Newcomb Model Block	3/1/09	1/31/12	\$268,750	\$267,862	\$189,056
1066.6	Bioaccum Services for Coastal Waters	2/15/10	3/31/12	\$129,833	\$109,833	\$109,833
5068	El Cerrito Green Streets Pilot Project	10/6/09	6/30/12	\$102,429	\$44,746	\$37,677
1082	Lindsey Slough Methyl Hg Study	12/1/08	12/31/13	\$89,446	\$60,035	\$37,214
1085	State of the Bay Report					
1086	Misc. CRAB Work					
4073	CRAM Training Cost Recovery	4/1/09		\$-	\$-	\$-
5069	Estuary 2100 Phase 2					
3010	RMP 2010	1/1/10	12/31/10	\$3,808,595	\$1,852,881	\$1,343,461
8250	North Bay Biosentinel Small Fish Mercury	11/16/09	9/30/10	\$65,000	\$17,478	\$15,074
8102	Focused Funding for Monitoring Directory	2/4/10	11/30/10	\$50,000	\$41,784	\$41,631
8400	Online 401 Application	10/1/08	12/31/10	\$313,890	\$303,060	\$202,931
8402	TAT ARRA Science Support	1/29/10	3/31/11	\$149,000	\$43,000	\$38,625
8401	Stream & WL System Protection Policy Sup	11/1/08	6/30/11	\$318,200	\$264,660	\$63,621
8700	Sacramento-San Joaquin Delta HE	6/30/09	9/30/11	\$350,000	\$316,033	\$240,045
			SFEI TOTAL	\$8,289,176	\$6,350,186	\$2,479,326
			RMP TOTAL	\$3,808,595	\$1,852,881	\$1,343,461
			ASC TOTAL	\$1,246,090	\$986,015	\$601,928
			GRAND TOTAL	\$13,343,861	\$9,189,082	\$4,424,715

RMP  
ASC Project

## Contaminants

### Project Title

## State of the Bay Report

#### PROJECT CODE

10xx

#### START DATE

May 1, 2010

#### ANTICIPATED COMPLETION

March 31, 2011

#### TOTAL FUNDING

\$37,765

#### FUNDING FOR SFEI LABOR

\$37,765

#### STATUS

In Negotiations

#### DIRECT CLIENT

CEMAR

#### PRIMARY CLIENT

SFEP

#### LEAD SCIENTIST

Josh Collins

#### PROJECT MANAGER

Thomas Jabusch

#### COLLABORATORS

PRBO, TBI

### Project Description

The project team will draft the State of the Bay report, in advance of the 2011 State of the Estuary Conference.

### Work Products

The first of two written products will be a one-page “scorecard” that will be circulated widely and form the basis for a web-based presentation of the results. The second written product will be a 50-75 page report for practitioners that will describe in more detail the indicators and metrics used to compile the indices.

### Plans for 2010

Review and revise existing indices based upon recent scientific findings and analysis; bring data sets up-to-date; analysis and computation; devise reporting formats.

### Project Title

## California Environmental Data Exchange Network Support

#### PROJECT CODE

1066.6

#### START DATE

June 1, 2010

#### ANTICIPATED COMPLETION

March 31, 2012

#### TOTAL FUNDING

\$41,750

#### FUNDING FOR SFEI LABOR

\$41,750

#### STATUS

In Negotiations

#### DIRECT CLIENT

SJSURF

#### PRIMARY CLIENT

SWRCB

#### LEAD SCIENTIST

John Oram

#### PROJECT MANAGER

Cristina Grosso

#### COLLABORATORS

State Board, MLML, SCCWRP, UCD

### Project Description

The California Environmental Data Exchange Network (CEDEN) is a system designed to facilitate integration and sharing of data collected by many different participants. It is a growing statewide cooperative effort of various groups involved in the water and environmental resources of the State of California. Currently, there are four regional data centers at SFEI, SCCWRP, MLML, and UCD that provide data to CEDEN.

### Work Products

In coordination with the other regional data centers:

- (1) maintain CEDEN infrastructure and data standards and existing applications that allow for ongoing data submittals.
- (2) develop and document standards for data formats, CEDEN comparability and data usage tiering.

## Waterlands

### Project Title

## Vernal Pool CRAM Training

#### PROJECT CODE

4079

#### START DATE

February 15, 2010

#### ANTICIPATED COMPLETION

March 12, 2010

#### TOTAL FUNDING

\$15,000

#### FUNDING FOR SFEI LABOR

\$5,600

#### STATUS

Closed

#### DIRECT CLIENT

Tetra Tech

#### PRIMARY CLIENT

EPA

#### LEAD SCIENTIST

Joshua Collins

#### PROJECT MANAGER

Meredith Williams

#### COLLABORATORS

Carol Witham & Chad Roberts

### Project Description

Conduct training in the use of the California Rapid Assessment Method to assess vernal pools systems in California

### Work Products

Roster of instructors and trainees, teaching materials, course evaluation forms, and a synopsis of the effort overall

### Project Title

## Montezuma TRT

#### PROJECT CODE

4044

#### START DATE

June 1, 2010

#### ANTICIPATED COMPLETION

December 31, 2010

#### TOTAL FUNDING

\$60,000

#### FUNDING FOR SFEI LABOR

\$52,000

#### STATUS

Proposal - 90% probability

#### DIRECT CLIENT

Montezuma Wetlands LLC (MWLLC)

#### PRIMARY CLIENT

Same as above

#### LEAD SCIENTIST

Josh Collins

#### PROJECT MANAGER

Meredith Williams

### Project Description

Continuation of SFEI's administration of the Technical Review Team (TRT). The TRT reviews the results of Montezuma Restoration Project monitoring and certain design aspects. SFEI has served as the TRT administrator since 2000. It is expected that monitoring will continue throughout construction of the Project, and for at least 10 years thereafter.

### Work Products

Annual report

### Project Title

## Newcomb Model Block Project

#### PROJECT CODE

5065

#### START DATE

January 1, 2010

#### ANTICIPATED COMPLETION

January 31, 2012

#### TOTAL FUNDING

\$22,500

#### FUNDING FOR SFEI LABOR

\$22,500

#### STATUS

Active

#### DIRECT CLIENT

ABAG

#### PRIMARY CLIENT

EPA

**LEAD SCIENTIST**

**Joshua Collins/Lester McKee**

**PROJECT MANAGER**

**Meredith Williams**

### Project Description

The City of San Francisco is constructing improvements to the 1700 Block of Newcomb Avenue in the Bayview neighborhood of San Francisco. The pre-construction effective watershed area draining this block is currently estimated to be almost 100% impervious surfaces comprised of concrete and asphalt pavements. The City of San Francisco will be constructing a model “Green Street” with pervious pavement and increased plant landscaping which will increase water infiltration and help reduce stormwater runoff as well as achieve other desirable social outcomes. The results of this pilot project are intended to help inform future urban redevelopment in San Francisco.

The San Francisco Estuary Institute (SFEI), in partnership with San Francisco Public Utilities Commission (SFPUC) staff, will monitor storms at the site to determine the amounts of rainfall, runoff, flow rates and total volume of each monitored storm under both pre- and post-construction conditions. Data will be used to develop a characteristic hydrograph for the site for both before and after construction. Results will include an analysis of the amount of runoff reduction achieved by the project.

### Work Products

Data will be used to develop a characteristic hydrograph for the site for both before and after construction. A project-specific model will be developed using observed data to forecast stormwater runoff changes for similarly configured catchment areas.

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### Project Title

## El Cerrito Green Streets Pilot Project

**PROJECT CODE**

**5068**

**START DATE**

**October 6, 2009**

**ANTICIPATED COMPLETION**

**June 30, 2012**

**TOTAL FUNDING**

**\$102,429**

**FUNDING FOR SFEI LABOR**

**\$44,746**

**STATUS**

**Active**

**DIRECT CLIENT**

**ABAG**

**PRIMARY CLIENT**

**ARRA**

**LEAD SCIENTIST**

**Lester McKee**

**PROJECT MANAGER**

**Kat Ridolfi**

**COLLABORATORS**

**AXYS & Brooks Rand**

### Project Description

The El Cerrito Green Streets pilot project consists of installing two stormwater treatment rain gardens, monitoring rain garden performance, conducting outreach about the rain gardens and stormwater pollution prevention outreach, and conducting technology transfer. The project retrofits a dense urban corridor with green stormwater infrastructure that detains and treats urban runoff to remove pesticides, PCBs, mercury, and copper as specified in San Francisco Bay Basin Water Quality Control Plan TMDLs and SSOs. The project will construct the rain gardens into existing sidewalks and on-street parking areas to treat stormwater from 1.23 acres of impervious surface (San Pablo Avenue, adjacent commercial properties, and adjacent residential streets), thus reducing pollutant loads. After construction, a monitoring plan will be designed and implemented to quantify the performance of the rain gardens, communicating results via technical report and other communication venues, such as newsletters and web sites. Outreach to the public about the rain gardens and stormwater pollution prevention will occur through interpretive signs, information on SFEP’s and the City’s websites, a Green Streets Tour, a flier for adjacent businesses, and a media release.

### Work Products

Final technical report

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### Project Title

## Climate Ready Estuaries Expert Elicitation Workshop

**PROJECT CODE**

**5070**

**START DATE**

**January 15, 2010**

**ANTICIPATED COMPLETION**

**April 30, 2010**

**TOTAL FUNDING**

**\$4,000**

**FUNDING FOR SFEI LABOR**  
\$4,000

**STATUS**  
Closed

**DIRECT CLIENT**  
ICF International

**PRIMARY CLIENT**  
Same as above

**LEAD SCIENTIST**  
Lester McKee/Letitia Grenier

**PROJECT MANAGER**  
Lester McKee/Letitia Grenier

### Project Description

Lester McKee and Letitia Grenier were part of an expert workshop to address climate change vulnerabilities and adaptation implications for the San Francisco Estuary Partnership (SFEP). SFEP has been collaborating with the U.S. Environmental Protection Agency (EPA) Office of Research and Development on an ecological vulnerability assessment under EPA's Climate Ready Estuaries (CRE) Program. The goal was to provide place-based information on the potential implications of climate change for estuarine ecosystems and processes, in a form that will enable managers to undertake adaptation planning. The workshop used an expert elicitation-style exercise to assess the relative effects of climate-stressor interactions on important salt marsh and mudflat ecosystem processes, with an eye toward adaptation management implications.

### Work Products

Pre-workshop review and input of conceptual models.  
Workshop attendance

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### Project Title

## Sediment Management Plan for the Alameda Creek Flood Control Channel

**PROJECT CODE**  
50XX

**START DATE**  
May 1, 2010

**ANTICIPATED COMPLETION**  
May 31, 2012

**TOTAL FUNDING**  
\$430,000

**FUNDING FOR SFEI LABOR**  
\$230,000

**STATUS**  
In Negotiations

**DIRECT CLIENT**  
Alameda Flood Control and Water Conservation District

**PRIMARY CLIENT**  
Same as above

**LEAD SCIENTIST**  
Lester McKee

**PROJECT MANAGER**  
Kat Ridolfi

### COLLABORATORS

**CEMAR, DHI Water and Environment, Watershed Sciences, Restoration Design Group, Paul Bigelow, Mitch Swanson**

### Project Description

SFEI will be coordinating a team of scientists and engineers to provide support for improved management of ACFC&WCD facilities focusing on the Alameda Flood Control Channel passing through Fremont. The project is multi-year with multiple components that include a channel goals facilitation process, geomorphic and engineering studies, sediment source analysis, and channel management recommendations. In addition, the District has asked for analysis of sediment issues on the Eden Creek Hollis Creek area of the San Lorenzo Creek Watershed.

### Work Products

Technical reports, meeting facilitations, design/management options, meeting presentations, peer-review

### Plans for 2010

Design and facilitate goals workshop. Get started on technical work

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### Project Title

## James V. Fitzgerald Area of Special Biological Significance Pollution Reduction Program

**PROJECT CODE**  
50xx

**START DATE**  
9/1/10

**ANTICIPATED COMPLETION**  
8/31/13

**TOTAL FUNDING**  
\$400,000

**FUNDING FOR SFEI LABOR**  
\$189,600

**STATUS**  
In Negotiations

**DIRECT CLIENT**  
San Mateo County Public Works

**PRIMARY CLIENT**  
Prop 84 ASBS

**LEAD SCIENTIST**  
Lester McKee?

**PROJECT MANAGER**  
Nicole David?

**COLLABORATORS**  
San Mateo County RCD

### Project Description

Includes implementation of targeted BMPs and an education/ outreach campaign. Pilot BMPs on high threat discharges to the ASBS, a storm drain inventory and assessment, and a pathogen source tracking study will precede targeted BMP implementation. Information from these precursory studies will guide targeted, broad-scale application of the most appropriate and effective BMPs to address upland sources of specific pollutants and eliminate dry weather discharges. The Program will protect the beneficial uses of the ASBS by improving water quality at public beaches and the ASBS, help the community to meet objectives and regulations outlined in the Ocean Plan, and reduce pathogens in 303(d) listed Fitzgerald Marine Reserve and San Vicente Creek.

### Work Products

Monitoring plan, data, outreach materials, QAPP

### Plans for 2010

Possibly first flush and other pre-implementation sampling

.....

### Project Title

## North Richmond Pump Station Storm Water Diversion Feasibility Study

**PROJECT CODE**  
50xx

**START DATE**  
May 1, 2010

**ANTICIPATED COMPLETION**  
April 30, 2012

**TOTAL FUNDING**  
\$155,532

**FUNDING FOR SFEI LABOR**  
\$56,220

**STATUS**  
In Negotiations

**DIRECT CLIENT**  
Contra Costa County Public Works

**PRIMARY CLIENT**  
Same as above

**LEAD SCIENTIST**  
Lester McKee

**PROJECT MANAGER**  
Kat Ridolfi

**COLLABORATORS**  
EBMUD, AXYS, Rivermetrics & Brooks Rand

### Project Description

SFEI will assist CCC to characterize water quality during low flow and high flow conditions in water flow through the North Richmond Pump station. This project will directly address MRP permit provision C.11.f and C.12.f that call for evaluation of the potential for reduced loads of Hg and PCBs from diversion of dry weather and first flush stormwater flows to sanitary sewers. The outcomes of the project may include diversion in this manor or recommendations for alternative use of stormwater including use in Chevron Refinery's cooling systems or perhaps use in a new Bay Freshwater wetland.

### Work Products

Water sampling, laboratory analysis, QA, reporting

### Plans for 2010

Set up and sampling

.....



## Project Title

### Coastal Impact Assistance Program – Evaluating Head-of-Tide

#### DIRECT CLIENT

Dol, Minerals Management Service

#### PROJECT MANAGER

Meredith Williams

## Project Description

The goal of this study is to assess the impacts of sea level rise and coastal flooding that may arise from the migration of the Head of Tide at the upstream limit of San Francisco Bay tides in tributary rivers. Climate change-induced sea level rise will change the key factors that contribute to coastal flooding in the San Francisco Bay (Bay): tide heights, storm surge, river flows, and wind-waves.

## Work Products

(1) development of a HOT basemap (what it is and where it is and what are the HOT cultural and ecological attributes) and (2) development of guidelines for assessing the vulnerability of HOT locations to sea level rise and coastal flooding induced by climate change.

## Project Title

### Low Impact Development Monitoring Guidance

#### PROJECT CODE

50xx

#### START DATE

May 1, 2010

#### ANTICIPATED COMPLETION

December 31, 2011

#### TOTAL FUNDING

\$50,000

#### FUNDING FOR SFEI LABOR

\$50,000

#### STATUS

In Negotiations

#### DIRECT CLIENT

SCCWRP

#### LEAD SCIENTIST

Lester McKee/Meredith Williams

#### PROJECT MANAGER

Meredith Williams

## Project Description

Develop a conceptual monitoring framework for hydromod and LID best management practices (BMPs) installed or monitored associated with State and Federal grant funding activities.

## Work Products

Final technical memo summarizing the conceptual framework, summarizing literature review and identifying any existing reference documents or guidance manuals that may support conceptual framework.

## Project Title

### Grasslands Report (3 Years)

#### PROJECT CODE

5061

#### START DATE

October 1, 2010

#### ANTICIPATED COMPLETION

September 30, 2013

#### TOTAL FUNDING

\$300,000

#### FUNDING FOR SFEI LABOR

\$300,000

#### STATUS

Proposal - 80% probability

#### DIRECT CLIENT

Bureau of Reclamation

#### PRIMARY CLIENT

Same as above

#### LEAD SCIENTIST

Nicole David

#### PROJECT MANAGER

Nicole David

## Project Description

The Project prevents discharge of subsurface agricultural drainage water into wildlife refuges and wetlands in central California. The drainage water is conveyed instead through a segment of the San Luis Drain to Mud Slough, a tributary of the San Joaquin River. The Project improves water quality in the wildlife refuges and wetlands, sustains the productivity of 97,000 acres of farmland, and fosters cooperation between area farmers and regulatory agencies in drainage management reduction of selenium and salt loading.

## Work Products

Monthly, quarterly, and annual reports

## Recent Findings and Publications

2006-2007 annual report, in review

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### Project Title

## Senador Creek Watershed Restoration

#### PROJECT CODE

50xx

#### START DATE

Notice of award in April 2010

#### ANTICIPATED COMPLETION

June 2011 (with continuation possible)

#### TOTAL FUNDING

\$79,547

#### FUNDING FOR SFEI LABOR

\$48,426

#### STATUS

Proposal - 90% probability

#### DIRECT CLIENT

Santa Clara County Park District

#### PRIMARY CLIENT

Same as above

#### LEAD SCIENTIST

Lester McKee

#### PROJECT MANAGER

Jennifer Hunt

#### COLLABORATORS

URS, Brooks Rand

### Project Description

SFEI will work with URS to assist the Park District in defining Hg contamination in the Senador mine area of the New Almaden Mining District. This data will be used to prioritize areas for increased management of sediment contamination and downstream transport that occurs through erosion during rainfall. The final outcome will be the design of erosion implementation of improved erosion control measures.

### Work Products

QAPP, field sampling, QAQC, draft and final reports, meeting presentations, review of control strategies.

### Plans for 2010

QAPP and field sampling, reporting

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### Project Title

## Walnut Creek Municipal Regional Permit Loads Monitoring

#### PROJECT CODE

50xx

#### START DATE

Notice of award in July 2010

#### ANTICIPATED COMPLETION

TBD

#### TOTAL FUNDING

\$150,000

#### FUNDING FOR SFEI LABOR

\$75,000

#### STATUS

Proposal - 75% probability

#### DIRECT CLIENT

Contra Costa County

#### PRIMARY CLIENT

Same as above

#### LEAD SCIENTIST

Lester McKee

#### PROJECT MANAGER

TBD

### Project Description

SFEI will assist BASMAA agencies by developing and implementing a loads monitoring project on Walnut Creek in Concord to address provision C.8.e of the MRP. This study will follow the sampling guidelines being developed through the RMP small tributaries loading strategy (STLS).

### Work Products

Sampling, lab analysis QAQC, reporting

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### Project Title

## BASMAA Assistance MRP Monitoring Assistance

#### PROJECT CODE

50xx

#### START DATE

Notice of award in July 2010

#### ANTICIPATED COMPLETION

June 2011 (with continuation likely)

**TOTAL FUNDING**  
\$50,000

**FUNDING FOR SFEI LABOR**  
\$50,000

**STATUS**  
Proposal - 75% probability

**DIRECT CLIENT**  
BASMAA

**PRIMARY CLIENT**  
Same as above

**LEAD SCIENTIST**  
Lester McKee

**PROJECT MANAGER**  
TBD

**COLLABORATORS**  
AMS

## Project Description

SFEI will assist BASMAA agencies with three tasks. 1. SFEI will write a field manual for loads monitoring to address provision C.8.e of the MRP. This manual will be based on lessons learned over the past 9 years through our RMP loading monitoring projects on Guadalupe River and in Zone 4 Line A in Hayward. 2. SFEI will assist BASMAA to write a SOP/QAQC plan for MRP related data collection activities, and 3. SFEI will assist BASMAA to set up and maintain a data management structure in relation to MRP requirements.

## Work Products

Meetings with BASMAA, draft and final field manual

## Plans for 2010

Complete products for the field manual and SOP/QAQC plan. Begin working with them on the data management system

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# Information Technology

## Project Title

### Montezuma Data Management

**PROJECT CODE**  
6504

**START DATE**  
May 1, 2010

**ANTICIPATED COMPLETION**  
December 31, 2010

**TOTAL FUNDING**  
\$10,904

**FUNDING FOR SFEI LABOR**  
\$10,904

**STATUS**  
In Negotiations

**DIRECT CLIENT**  
Montezuma Wetlands LLC

**PRIMARY CLIENT**  
Same as above

**LEAD SCIENTIST**  
Cristina Grosso

**PROJECT MANAGER**  
Cristina Grosso

## Project Description

The Montezuma Wetlands Project is a for-profit venture to restore 2,500 acres of brackish tidal marsh in the western Delta using dredged sediment. As part of the USACE permit for the project, the sponsor was required to contract with a non-profit organization to create and administer a technical team for independent scientific review and interpretation of the project monitoring effort and resulting data for the 20-30 year life of the project. The Wetlands Science Program at SFEI leads a Technical Review Team (under a different project). This project provides data management services for the Montezuma Wetlands Project. This is an ongoing project that began in 2003.

## Work Products

- Maintain a project database.
  - Compile and QA monitoring data for 2009-2010.
  - Generate data tables and QA summaries for 2008-2009 for reporting purposes.
-

## Historical Ecology

### Project Title

HE of Eastern Contra Costa County (Additional Focus Areas)

### PROJECT CODE

7055

### START DATE

April 15, 2010

### ANTICIPATED COMPLETION

September 30, 2010

### TOTAL FUNDING

\$40,000

### FUNDING FOR SFEI LABOR

\$40,000

### STATUS

Funded (received contract)

### DIRECT CLIENT

Contra Costa County

### PRIMARY CLIENT

State Coastal Conservancy

### LEAD SCIENTIST

Robin Grossinger

### PROJECT MANAGER

Ruth Askevold

### COLLABORATORS

Contra Costa County

### Project Description

For the East Contra Costa County project area, develop additional watershed and parcel-specific analyses for the final technical report. Discussion will include topics such as alkali habitat patterns, terrestrial vegetation changes, and local evidence for historical hydrologic changes.

### Work Products

Addition to Historical Ecology of East Contra Costa County Report

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## Aquatic Science Center

### Project Title

Technical Support for Facilitating Central Valley Regional Monitoring Efforts

### PROJECT CODE

8102

### START DATE

February 4, 2010

### ANTICIPATED COMPLETION

November 30, 2010

### TOTAL FUNDING

\$50,000

### FUNDING FOR SFEI LABOR

\$41,784

### STATUS

Active

### DIRECT CLIENT

SWRCB

### PRIMARY CLIENT

Same as above

### LEAD SCIENTIST

Thomas Jabusch

### PROJECT MANAGER

Thomas Jabusch

### COLLABORATORS

\$8,000 to Brock Bernstein

### Project Description

This project is intended to provide technical and administrative support to facilitate the development of regional monitoring programs in the Central Valley, with a primary focus on the Delta. The effort includes a stakeholder evaluation of the previously developed, web-based Central Valley Monitoring Directory ([www.centralvalleymonitoring.org](http://www.centralvalleymonitoring.org)) and a feasibility study to identify potential improvements and the costs associated with statewide expansion.

### Plans for 2010

Public release of the Central Valley Monitoring Directory and Feasibility Report

### Recent Findings and Publications

The Monitoring Directory was previewed by the SWAMP Roundtable. Participants representing other regions expressed interest in adopting the tool.

## Project Title

### Technical Support for Facilitating Central Valley Regional Monitoring efforts (contract amendment)

**PROJECT CODE**  
8102

**START DATE**  
Notice of award in May 2010

**ANTICIPATED COMPLETION**  
January 31, 2011

**TOTAL FUNDING**  
\$250,000

**FUNDING FOR SFEI LABOR**  
\$200,000

**STATUS**  
In Negotiations

**DIRECT CLIENT**  
SWRCB

**PRIMARY CLIENT**  
Same as above

**LEAD SCIENTIST**  
Thomas Jabusch

**PROJECT MANAGER**  
Thomas Jabusch

**COLLABORATORS**  
Brock Bernstein

## Project Description

This project is intended to provide technical, administrative, and science support for planning and implementing a comprehensive regional water quality monitoring program for the Sacramento-San Joaquin Delta (Delta RMP). The initial planning phase of the Delta RMP development has been completed with the preparation of a draft program plan that describes a phased approach consisting of a program pilot, development phase, and the long-term program implementation. At an initial Delta RMP stakeholder workgroup meeting, consensus was reached that the Central Valley and State Water Boards, assisted by the Aquatic Science Center, would be responsible for coordinating this phase.

## Work Products

Technical Plan describing Regional Monitoring and Assessment Framework and Delta RMP implementation; Program Plan presenting an interim organizational structure, projects, and anticipated organizational budget for the first year of the long-term implementation; "Delta Pulse" report communicating a

comprehensive analysis of priority water quality management issues in the Delta (e.g. ammonia, pyrethroids, endocrine disruptors, toxicity)

## Plans for 2010

Workgroups to develop longer-term implementation plan and program infrastructure; technical workgroups to address shortcomings in the current monitoring and data management system; first "Delta Pulse" report

## Project Title

### Healthy Streams Portal Development

**PROJECT CODE**  
8401

**START DATE**  
May 1, 2010

**ANTICIPATED COMPLETION**  
June 30, 2011

**TOTAL FUNDING**  
\$48,000

**FUNDING FOR SFEI LABOR**  
\$48,000

**STATUS**  
Awaiting Signature

**DIRECT CLIENT**  
SWRCB

**PRIMARY CLIENT**  
Same as above

**LEAD SCIENTIST**  
John Oram

**PROJECT MANAGER**  
Cristina Grosso

**COLLABORATORS**  
None

## Project Description

The California Water Quality Monitoring Council is coordinating the development of theme-based, question-driven web portals to provide access to the State's data for different audiences. The Healthy Streams Portal is one of several of the portals available at: [www.waterboards.ca.gov/mywaterquality/](http://www.waterboards.ca.gov/mywaterquality/). SFEI has already developed the Safe To Eat and California Wetlands portals.

## Work Products

(1) Develop a working web portal that will provide interactive access to a variety of static and interactive maps and files relating to California stream ecosystems and water quality, including **STATUS** and trend data on a variety of scales (statewide to local).

---

this information to the contract manager and the BOG. Each task will include data management and programming elements.

## Work Products

Web Portal

## Plans for 2010

Begin planning and initial work.

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## Project Title

# Safe to Eat Portal

### PROJECT CODE

**81xx**

### START DATE

**Uncertain**

### ANTICIPATED COMPLETION

**March 1, 2011**

### TOTAL FUNDING

**\$48,000**

### FUNDING FOR SFEI LABOR

**\$48,000**

### STATUS

**In Negotiations**

### DIRECT CLIENT

**SWRCB**

### PRIMARY CLIENT

**Same as above**

### LEAD SCIENTIST

**Jay Davis**

### PROJECT MANAGER

**Jennifer Hunt**

### COLLABORATORS

**None**

## Project Description

The work will be performed under the guidance of the Council and the Bioaccumulation Oversight Group (a workgroup of the Council), and under the supervision of the State Water Board contract manager. Specific features and datasets to be added to the Safe to Eat Portal will be selected under the direction of the Council, the BOG, and the State Board. Coordination of BOG meetings and preparation of materials to develop an expanded BOG and to facilitate discussions needed to develop the Safe to Eat Portal. Coordination with the Council (attending meetings, reporting on progress, preparing and reviewing documents). The tasks will be prioritized by the Council, BOG, and State Board and the highest priority tasks will be performed. SFEI will track hours spent on each task and report

## ATTACHMENT 3

### Emerging Topics of Interest

#### 1. Addressing Ecosystem Health in the California Green Chemistry Initiative

Discussions with those familiar with the status of regulation development suggest that while OEHHA and Cal EPA/DTSC have expertise in human health issues, they are struggling with how to incorporate the protection of aquatic life into the regulatory framework. Challenges identified:

- The regulation outline that is being circulated needs much improvement to ensure that alternatives assessments evaluate potential water pollution and potential harm to aquatic ecosystems.
- The regulation outline that is being circulated includes a section that would be devastating to water quality protection because it would only allow the regulatory authority to address a short group of human "CMRs" - \*human\* carcinogens and mutagens, \*human\* reproductive toxicants, and the very short list of substances on the EPA "PBT" list. Most water pollution problems are not associated with these chemicals. Contaminants of emerging concern (e.g. nonylphenol, perfluorinated compounds, flame retardants) are not being addressed.

#### Opportunities to Inform the Regulatory Development Process

- Communicate support for the Initiative and the importance of protecting ecosystem health as part of the Initiative. If structured correctly, the Green Chemistry regulations could be an important tool to clean up California's surface waters.
- Facilitate communication between OEHHA/DTSC and the State advisory panels on CECs in Recycled Water and Discharges to Ambient Marine and Coastal Waters. These advisory panels consist of national experts and have been convened to develop frameworks for CEC prioritization and determination of risk.
- Provide science support to OEHHA/DTSC staff that draft regulations to insure ecosystem health protection.
- Fill data gaps related to chemical monitoring or other missing hazard information (e.g. fate, toxicity).
- Develop databases or database tools that would facilitate communication and development of the information/data generated.

Joint efforts with SCCWRP would likely have a larger impact.

#### 2. Public Input Sessions to California Wetland and Riparian Area Protection Policy

Based on the technical memoranda developed by the Aquatic Science Center with review by both Technical Advisory and Policy Development Teams, the State Water Board has scheduled focused stakeholder meetings with environmental advocacy, business and industry, regulated state and local agencies, agriculture, timber, and range interests, as well as tribes, federal, and

public health and safety agencies. These meetings are scheduled for June 21 and June 30, 2010 and are preceding the public hearing process.



## ATTACHMENT 4

### Staff Summary

**TO:** ASC Board  
**FROM:** Rainer Hoenicke, Executive Director  
**Date:** May 26, 2010  
**SUBJECT:** FY 2010/11 Program Plan

The ASC fiscal year ends on June 30, 2010. I have prepared a program plan that shows the potential range of projects that various agencies might request ASC to assist with. Also included is a resolution authorizing the Executive Director to negotiate and execute contracts and agreements on behalf of the Aquatic Science Center consistent with the Aquatic Science Center 2009/10 Program Plan. Many of the project categories contained in last year's Program Plan are carried over into the new Plan, because a number of existing projects extend over multiple years, renewals and future phases are anticipated, or development efforts are only now coming to fruition.

**Recommended Action:** Approve Program Plan and Resolution

## Program Plan for the Aquatic Science Center

### Fiscal Year 2010/11

The Aquatic Science Center (Center) was established for the efficient delivery of scientific and information management support to public agencies and non-governmental organizations. The Center anticipates the following subject areas where contractual support or fiduciary services may be requested from a variety of state, federal, and local agencies:

- 1) **The San Francisco Estuary Regional Monitoring Program for Water Quality.** Several members would prefer to contribute to the program via a quasi-state agency more closely linked to the Water Board as their contribution fulfills Water Board NPDES and waste discharge requirements. \$200,000-800,000 per year.
- 2) **TMDL support including: impairment assessments, pollutant conceptual model development, implementation alternatives evaluations, and implementation effectiveness monitoring.** Depending on schedule, the JPA would provide an effective mechanism to conduct necessary technical studies and synthesis. \$100,000-500,000 per year.
- 3) **Collaboration with DFG and other Interagency Ecological Program Partners to study pelagic organism decline and in the Delta and evaluate various habitat restoration options.** The JPA would allow for technical syntheses to occur in a timely fashion. \$300,000-\$500,000.
- 4) **Wetland monitoring as part of adaptive management of restoration implementation steps.** The JPA would assist DFG, the SCC, and other implementers to evaluate alternative restoration pathways based on monitoring information. \$150,000-\$300,000
- 5) **Collaborative efforts with Water Boards, EPA, and other IEP participants to develop and implement a coordinated water quality monitoring programs in the Central Valley.** \$100,000-\$250,000
- 6) **Collaborative effort with State Water Board to provide technical support to Surface Water Ambient Monitoring Program.** \$100,000-250,000.
- 7) **Development of technical and scientific recommendations to the California Water Quality Monitoring Council.** \$50,000-200,000.
- 8) **Development of Delta Regional Monitoring Program and Special Studies.** \$250,000-500,000
- 9) **Scientific Assistance to State Water Board for development of a statewide riparian and wetland system protection policy and implementation guidance.** \$250,000-\$450,000
- 10) **Developing California capacity to assess the performance of wetland protection policies, programs, and projects in a watershed context.** \$300,000-\$450,000

- 11) **Development and implementation of a standardized set of assessment and tracking tools for California wetlands and riparian areas.** \$1.5- 2M
- 12) **Historical Ecology studies in support of evaluating restoration and protection options in the Bay-Delta region and the Central Valley.** \$350,000-\$700,000
- 13) **Data Portal Development and Management for SWAMP Regional Data Centers.** \$1M-\$1.2M
- 14) **Development of San Francisco Estuary/North Coast Regional Data Center.** \$500,000-\$750,000
- 15) **Development of a Clean-up Strategy for San Leandro Bay.** \$250,000-\$500,000
- 16) **Development of Web-Based Tools to Coordinate Monitoring Activities in the Central Valley.** \$50,000-\$250,000
- 17) **San Francisco Bay Exposure Reduction Program for Contaminated Fish.** \$500,000

The Executive Director is authorized to enter into contracts that are consistent with the program plan described above and in accordance with the following desirable attributes:

- The project is consistent with, or supplemental to, activities that are in the SFEI Program Plan.
- The project is of interest to multiple member agencies, including those from both regulated and regulatory agencies. Interest increases when the project is likely to facilitate development of a scientific framework for management issues.
- The project leads to collaboration with technical leaders in the field and establishes scientific precedent.
- The project demonstrates scientific equipment, expertise or capacity currently lacking in the commercial or consulting sector.
- The project is designed to develop scientific tools for evaluating policy and program alternatives and make complex scientific information accessible and understandable to non-technical audiences.
- The project makes scientific understanding of the coastal and estuarine waters and their watersheds more widely available in publicly accessible media (e.g. beyond technical reports and publications).

Two weeks prior to entering into any contracts, the Executive Director will notify the Board of Directors in writing of the intent to enter into a contract on behalf of the Aquatic Science Center. If any Board member objects, a special session of the Board will be called for deliberation and approval of project. In addition, the Executive Director will seek advice from an ad-hoc advisory group comprised of the Board Chair and Vice Chair

for any contract over \$50,000 with regard to calling a special session of the Board for deliberation and approval of significant project requests on a case-by-case basis. Each Board Meeting Agenda will contain a standing item for the Executive Director to report on signed contracts and a report on the status of individual contracts and grant agreements.

BOARD OF DIRECTORS

Aquatic Science Center

A RESOLUTION AUTHORIZING AND DESIGNATING A REPRESENTATIVE TO NEGOTIATE CONTRACTS OR AGREEMENTS ON BEHALF OF THE AQUATIC SCIENCE CENTER

WHEREAS, in accordance with Section 9.6(c) of the Bylaws, the Executive Director has such other powers and duties as may be prescribed by the Board or the Bylaws; and

WHEREAS, the Board, pursuant to Section 7.1 of the bylaws, has the authority to authorize and enter into contracts or agreements on behalf of the Aquatic Science Center; and

WHEREAS, the Board designates the Executive Director to sign all contracts, agreements and any amendments thereto.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors of the Aquatic Science Center hereby authorizes \_\_\_\_\_ to negotiate and execute all grants or contract agreements consistent with the Aquatic Science Center's Board-approved Program Plan.

APPROVED AND ADOPTED this 3rd day of June, 2010.

I, the undersigned, hereby certify that the foregoing Resolution No 07-01 was duly adopted by the Board of Directors of the Aquatic Science Center by roll call vote with 100% participation and passed unanimously.

Attest: \_\_\_\_\_

## ATTACHMENT 5

### Staff Summary

**To:** Board of Directors  
**From:** Rainer Hoenicke, Executive Director  
**Date:** 5/24/10  
**Re:** Draft Outline for Strategic Planning Effort

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**Summary:** At its March 2010 meeting, the ASC Board decided to conduct a half-day strategic planning meeting with senior staff on September 2, 2010, instead of a more intensive full-day workshop. The desired outcomes for the September planning workshop have consequently been revised.

#### **Draft Objectives:**

- Develop clear desired outcomes and agree on a strategic planning process for a full-day workshop in 2011 and sketch out a draft agenda
- Conduct a review of short-term opportunities the ASC could take advantage of between September 2010 and the full-day planning retreat.

#### **Suggested Agenda for September Meeting:**

1. Desired Outcomes and Planning Process for a Full-Day Retreat (90 minutes)
  - 1.1 Basic Terminology, e.g., vision, mission, goals, objectives, ends, means, purpose statements, business statements
  - 1.2 Obtain agreement and understanding of strategic planning process
    - Phase 1:** Getting Ready (decide what to accomplish; check readiness; choose participants; summarize org. history and profile; i.d. info needed for strategic plan; develop "plan to plan.")
    - Phase 2:** Articulating Mission and Vision
    - Phase 3:** Assessing the Environment (document previous and current strategies; gather input/perspectives from internal and external stakeholders; gather info about effectiveness of programs and activities; i.d. additional issues or questions)
    - Phase 4:** Agreeing on Priorities (SWOT; set criteria for setting priorities; select core strategies, decide on priorities; summarize scope and scale of programs; write goals and objectives; develop long-range financial projections)
    - Phase 5:** Writing the Strategic Plan (i.d. writer; agree on review and updating process; i.d. links to annual work plans; choose a format; write the plan; adopt and celebrate)  
like to achieve, and what means should we pursue to achieve them?

2. Short-term Opportunities for ASC (90 minutes)
  - 2.1 Brief staff reports on new initiatives and board feedback and follow-up recommendations
  - 2.2 Establishment of a Central Valley ASC Office
  - 2.3 Expanded membership or formation of advisory committees