

**BACWA EXECUTIVE BOARD MEETING**  
**Thursday, November 17 2011, 9:00 a.m. – 12:00 p.m.**

**HANDOUTS**

Handout Packet is available on the BACWA website ([www.BACWA.org](http://www.BACWA.org)).

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*The following materials will be distributed at the meeting and are available on the BACWA website.*

BACWA Memorandum on Internal Control and Communications for the Year Ended June 30, 2011

<http://bacwa.org/Portals/0/ExecutiveBoard/Library/bcwa%20moic.pdf>

BACWA Basic Financial Statements for the Years Ended June 30, 2011 and 2010

<http://bacwa.org/Portals/0/ExecutiveBoard/Library/bcwa%20bfs.pdf>



## Executive Board Meeting Agenda

Thursday, November 17, 2011, 9:00 a.m. – 12:00 p.m.  
EBMUD Operations Center, 2020 Wake Ave., Oakland, CA

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### **ROLL CALL AND INTRODUCTIONS** (9:00 a.m. – 9:05 a.m.)

### **PUBLIC COMMENT** (9:05 a.m. – 9:10 a.m.)

### **PRESENTATION** (9:10 a.m. – 9:30 a.m.)

1. Engineering Research Center for Re-Inventing that Nation's Urban Water Infrastructure, Dr. Dave Sedlak, U.C. Berkeley.

### **REPORTS** (9:30 a.m. – 10:15 a.m.)

2. Committee Reports
3. Proposition 50 Grant Disbursements Status Report
4. Executive Director Report
5. Executive Board Reports
6. Chair & Executive Director Authorized Actions
  - a. Chair Authorization for agreement with SFEI/ASC for Nutrient Strategy Development and Coordination Support; WQAS/Tech; \$9,990; File 12,595.
  - b. ED As Needed Task Authorization for Kennedy/Jenks for Special Projects, BACWA/Infoshare Support; \$4,000; 12,430.
  - c. ED Authorization for agreement with Thermostat Recycling Corporation, BAPPG; \$1,500; File 12,582.
  - d. Chair Authorization for agreement with Univision for FOG Spanish Ads, BAPPG; \$9,999; File 12,576.

### **CONSENT CALENDAR** (10:15 a.m. – 10:25 a.m.)

7. September 23, 2011 & October 11, 2011 BACWA Executive Board Meetings minutes.
8. August & September 2011 Treasurer's Reports
9. Year-End Financial Reports

### **OTHER BUSINESS** (10:25 a.m. – 12:00 p.m.)

10. Support for the North Bay Watershed Association 2012 Conference, *Climate Change: Are We Ready?*
11. Whole Effluent Toxicity
  - a. Workgroup Scope & Representatives
  - b. WET Policy Assistance, Dr. Daniel Gallagher, Virginia Tech.
  - c. TIE/TRE Review Assistance
12. Electronic Reporting System Proposal
13. Suisun Bay Ammonia Issues

- a. CCCSD Permit Comments
  - b. Suisun Bay Ammonia Research Support
- 14. Pardee Follow-up: Program Support

**NEXT REGULAR MEETING**

The next meeting of the Board is tentatively scheduled for December 14, 2011.

**ADJOURNMENT (12:00 p.m.)**

## ReNUWIt: NSF Engineering Research Center

The vision of the Engineering Research Center (ERC) on Re-inventing the Nation's Urban Water Infrastructure (ReNUWIt) is to harness new knowledge to facilitate the smooth transition of water systems to a new state in which they consume less energy and resources while continuing to meet the needs of urban users and aquatic ecosystems. Our four overarching goals are to: (1) advance urban water reinvention; (2) develop valued technologies and concepts to support urban water reinvention; (3) obtain recognition as a global leader in the field of urban water reinvention; and, (4) prepare students to lead efforts to reinvent urban water infrastructure.

ReNUWIt's research program aims to advance urban water reinvention by addressing barriers to technology development and adoption. Through fundamental research we will develop and improve modular technologies that can replace the existing water supply portfolio in a manner that improves the overall performance of the system. We will follow modular technologies from development and testing in the laboratory to validation and optimization in test-beds and finally, integration into regional water systems. Our efforts are divided into three thrust areas: (1) Systems Integration and Institutions, through which we will develop tools needed to make sound decisions about future investments in urban water infrastructure; (2) Engineered Water Systems, through which we will develop new, modular technologies, overcome barriers preventing the wider application of existing but underutilized technologies and collect data on technical performance; and, (3) Natural Water Systems, through which we will develop modular technologies for managing natural systems to treat and store water while simultaneously improving urban aesthetics.

ReNUWIt joins four leading universities in the West (Stanford, Berkeley, Colorado School of Mines and New Mexico State University), three renowned international universities (UNSW, EAWAG and NTU) and a diverse group of industrial partners. Fundamental and test-bed research will address critical research questions pertaining to physical, chemical and biological processes that affect the removal of contaminants, recovery of energy and resources and restoration of ecosystems by different types of modular treatment systems. Research conducted at the systems level will address important questions related to integration of economic, social and environmental metrics into decision-making processes related to water infrastructure.

ReNUWIt will contribute to the solution of a host of problems that threaten public health, ecosystems and economic vitality. In particular, our research and outreach efforts will catalyze the adoption of new approaches for urban water infrastructure systems. Our educational activities will build a pipeline of diverse, well-prepared leaders who help bring about change in the Nation's water infrastructure in a manner that is guided by cutting-edge knowledge.

**Role of the Industrial Advisory Board.** The highest priority, overarching goal of ReNUWIt is to facilitate a transition to more robust and sustainable urban water infrastructure. The second overarching goal is to create modular water technologies and valued ideas that are adopted by the water industry. The industrial/practitioner (I/P) members and innovation partners are crucial to both of these goals. Without their guidance and active participation, ReNUWIt is unlikely to realize its goals. Their efforts are also critical to our long-term goal of assuring the continuation of the ERC beyond the period of NSF funding. Our innovation ecosystem strategic plan defines the ways in which we engage with our I/P members, innovation partners, government and other key stakeholders who are critical to the reinvention of urban water infrastructure.

We held an initial meeting on September 22, 2011 with potential I/P members (see <http://www.urbanwatererc.org/industry>) that expressed interest in partnering with ReNUWIt by joining

the IAB. Formal solicitations have been made, and follow-up discussions are continuing. The list of potential members includes small and medium-sized companies, multinational corporations, engineering consultants and utilities.

The I/P members will play a key role in the innovation ecosystem by:

- Providing guidance on strategic planning and research
- Serving on the IAB and analyzing ERC activities
- Providing insight into real-world challenges associated with new technologies
- Contributing in kind and cash resources to research

The complexity inherent in urban water infrastructure means that efforts to reinvent urban water infrastructure require more than the invention of new technology. The overall success of our enterprise requires that we embrace a systems approach to identify key barriers to the adoption of existing but underutilized technologies and new technologies developed by ReNUWIt researchers. The I/P members will play a critical role in identifying the barriers and uncertainties and advising us on the research needed to assure widespread adoption of new technologies. Most of all, IAB members will assure that we are focusing our efforts on the most important problems. In other words, the innovation ecosystem created by interactions between the I/P members and ReNUWIt researchers assures that the energy, creativity and enthusiasm of students, post-docs and faculty is directed to areas that are most likely to bring about urban water reinvention.

Formal meetings between the I/P members and ReNUWIt researchers will be critical to the innovation ecosystem. To foster these interactions, the IAB will be convened twice each year.

At the spring meeting, the IAB will review our research thrusts and analyze the strengths, weaknesses, opportunities and threats (SWOT) of ReNUWIt's strategic plan. To facilitate the SWOT analysis, thrust leaders and education team leaders will present an overview of the annual accomplishments in research and education, respectively. The SWOT analysis will focus on assuring that the research and outreach activities are consistent with the overarching goals in the strategic plan and address the barriers to widespread technology adoption.

The fall meeting will be used to build closer collaborations and solicit detailed advice from IAB members. These meetings will include presentations by faculty, post-docs and students on their ongoing research and informal workshops to evaluate the need for extending ReNUWIt's research activities into new topics. The workshops will pair research teams with IAB members who have experience relevant to the key barriers to the specific approach being addressed in the project. The researchers and IAB members will work together to better understand the progress being made to overcome the barrier. The teams also will make recommendations on new approaches for overcoming barriers.

These two meetings will be supplemented by communications between I/P members and the Executive Committee and research project leaders throughout the year. The innovation ecosystem will be further enhanced by student internships with I/P members and short visits from I/P members to campuses where relevant research is being conducted.

To facilitate communication between the IAB members and ReNUWIt researchers, IAB members will be organized according to their primary areas of expertise as follows:

- Products: Manufacturers of equipment will play an important role in advancing our efforts to bring new modular technologies into urban water infrastructure because they understand the technical challenges associated with manufacturing and operating equipment. I/P members from the products sector will work closely with researchers who are designing modules that rely upon equipment to provide insight into the barriers and opportunities associated with different

configurations. [Key Partners: Aqua-Aerobic Systems, Veolia, BioVantage, NLine Energy, United Science, NWRI]

- Processes: Engineering consultants play an important role in change because they advise utilities and government officials about investments in urban water infrastructure. Traditionally, consultants have shied away from recommending innovative approaches to urban water infrastructure when there was too much uncertainty about their ultimate cost, reliability and public acceptance. To reduce these uncertainties and advance the adoption of innovative approaches, we will tap into the expertise of engineering consultants to gain a better understanding of the needs of process engineers and decision makers in the design and selection of treatment technologies.  
[Key Partners: Carollo Engineers, CH2M-Hill, Geosyntec, HatchMottMacDonald, Kennedy-Jenks, Malcolm-Pirnie-ARCADIS, Trussel Technologies, WERF]
- Provision: Water service providers have the potential to facilitate change in urban water infrastructure by providing innovative approaches to water supply, treatment and delivery that are difficult for utilities to provide. Currently, most water service providers in the United States are limited in their ability to provide services beyond those offered by existing utilities because institutional barriers inhibit their efforts to provide new types of services. To facilitate the growth of innovative approaches by water service providers, we will collaborate with the I/P members to develop and document business models for new sectors of the water industry in a manner that would be acceptable to investors.  
[Key Partners: Aurora Water, El Paso Water, OCWD, Southern Nevada, Sonoma County, Tampa Bay, Bechtel, IBM, Veolia, Singapore PUB]
- Policies: Water utilities must make difficult decisions about how to invest in a portfolio of water supply, distribution and treatment options that balance competing needs related to factors such as cost, reliability and public health protection. The decision-making process for allocation of resources at water utilities often occurs without a clear understanding of the complex interdependency among conventional and alternative water resources. To help translate the systems-level research conducted in the regional urban testbeds, we will develop a decision-making toolkit for utilities considering alternative water supplies. As part of these efforts, our I/P members will provide feedback on the process as well as on-the-ground opportunities to test the toolkit.  
[Key Partners: Aurora Water, El Paso Water, OCWD, Palo Alto RWQCP, SCVWD, Sonoma County, Tampa Bay, Trussell Technologies, NWRI]

Unlike I/P members, who provide guidance and opportunities to assess products of ERC research, Innovation Partners play a more active role in translation of ERC research. Innovation partners help translate research into practice. They also help to foster entrepreneurship by developing successful business models. During the first year of the project, ReNUWIT's ILO, working in collaboration with the Research Director, Thrust Leaders and Theme Leaders, will identify strategies for collaborating with the two small companies identified as innovation partners in the proposal (i.e., The Artemis Project and Aqua Aerobics). The ILO will also identify and evaluate other small companies who would join us as innovation partners as well as the possibility of engaging industrial partners from the IAB as research collaborators.

At the time that this Year 1 strategic plan was written (October 2011), ReNUWIT was in the final stage of negotiations with a candidate who had been selected for the ILO position. It is anticipated that the ILO will take the lead on the activities described above, working with other members of the Leadership Team to nurture and coordinate the innovation ecosystem. In the interim, responsibilities for these activities have been shared between the Director, Deputy Director and Research Director.

# Re-inventing Urban Water Infrastructure: ReNUWIt

Stanford U., UC Berkeley, Colo. Sch. Mines, New Mexico State



## *Urban Water Systems Integration & Institutions*



CO Front Range



SF Bay Area

**Decision Support Tools;  
Financially & Socially  
Sustainable Solutions**

## *Engineered Systems*



**Energy-positive  
Water Reclamation**

**Tailored Water Solutions**

## *Managed Natural Systems*



**Water Quality &  
Ecosystem Benefits**

**Urban-sourced  
Water Supplies**



Permits Committee –  
Report to BACWA Board

Reporting Date: 11/11/11  
Executive Board Meeting Date: 11/17/2011  
Committee Chair: Jim Ervin

**Committee Request for Board Action: None.**

**Upcoming Permits/Permit Amendments –**

Jan – CCCSD, Vallejo (VSFCD), EBDA, Dublin San Ramon, Livermore, Pacifica

Feb - North San Mateo Sanitation District (Daly City), Rodeo Sanitary District

**Permit issues.** The CCCSD permit reissuance has been postponed until January. Water Board staff is responding to public comments concerning the proposed limits for ammonia. It is not anticipated that BACWA will be asked to comment on any of the permits up for reissuance in the next few months.

**Report to Permits Committee on Pardee Technical Session.** Three issues that were significant to permittees were discussed at Pardee.

1. **BACWA Toxicity Workgroup:** Water Board staff supported the idea of BACWA forming a workgroup to evaluate the proposed State-wide toxicity policy and working out an implementation strategy that would consider testing options and flexibility, dilution factors, and standardization of TRE/TIE investigation procedures. Representatives from BACWA agencies will form this workgroup and begin to work out solutions.
2. **Nutrient Strategy:** Water Board staff recognized that the POTW community is a major stakeholder in the Numeric Nutrient Endpoint project. Accordingly, an RMP nutrient coordinator was assigned, and a BACWA position in the nutrient steering committee was acknowledged. Permits Committee members were also informed that Regional Board may request nutrient data from Bay Area agencies sometime in the future.
3. **Petitions in Abeyance:** A number of petitions to Region 2 NPDES permit continue to be held in abeyance for issues that are no longer relevant, e.g.: permit dioxin limits that have been superseded by the dioxin Basin Plan Amendment in 2010, and copper limits for CCCSD from previous permits. In early 2012, BACWA will consider whether to dismiss these petitions because they no longer raise relevant issues. Petitions will only be dismissed if the agency petitioner also agrees. BACWA has compiled a list of old Region 2 petitions and will send copies to the affected permittees before dismissing any petitions. The goal is to have these petitions finally dismissed by Water Board in 2012.

**WET (Toxicity) Policy:** State Board staff has delayed the publication of a revised draft toxicity policy at least a month for peer review. Staff had previously planned on issuing this revision in November 2011. The peer review process could take more than one month. Final adoption of a state-wide toxicity policy could still occur in March or April 2012.

- BACWA members met with State Board staff and Board Member Tam Doduc on 7 October to discuss incorporation of the IC25 method into the policy. Also, CASA met with Board staff on 16 October to discuss possible enforcement policy alternatives.
- Governor Brown has announced intention to fill some open State and Regional Board positions. This will add new positions to the current three members of the State Board.

**Permit bypass language & alternate points of discharge.** Water Board staff member, Bill Johnson, joined the November Permits Committee meeting to discuss permitting alternatives when bypass or alternate discharge points must be used.

- NPDES Permit Attachment D, provision 1.G., reiterates 40 CFR 122.41(m) which allows Water Board to approve an anticipated bypass 1) which is unavoidable to prevent loss of life, personal injury, or severe property damage, and 2) for which there are no feasible alternatives, and 3) for which the discharger provided notice to Water Board. It would be expected that bypasses or alternate discharges approved under this provision would be rare and not normally anticipated as part of the NPDES reissuance process.
- Many dischargers prefer to have alternate points of discharge or anticipated bypasses approved in regular NPDES permit language. Bill pointed out that this can be very difficult if the bypass or alternate discharge point essentially requires applying for a permit to discharge to a new location. A permit to discharge to a new location usually requires gathering background info on the new receiving water for RPA analysis, possibly a mixing zone study in accordance with SIP criteria, an anti-degradation study, and local CEQWA approval. Bottom line, it can be advantageous to gain permanent approval for anticipated infrequent or emergency

bypass/alternative points of discharge, but the permitting steps can also be very onerous.

**eSMR Transition:** The fourth and last group of Region 2 dischargers must begin SMR reporting using the eSMR/CIQWS system beginning in January. Thus far  $\frac{3}{4}$  of Region 2 dischargers have transitioned to the new reporting format. Dischargers have employed 4 different software solutions: 3 or 4 small dischargers are using the Hach LIMS system, Daily City and Petaluma use the "Waterbits" software by Darlene Reddaway, some dischargers are using Johnson Lam's modified ERS program, the remaining dischargers developed in-house reporting methods. Action items:

1. Amy will check desirability of having Lab Committee members join the December Permits Committee meeting for a discussion of eSMR transition status which will include a short presentation by Darlene Reddaway to discuss the Waterbits software.
2. Preservation of the old ERS database and software system for compiling POTW discharge data will also be discussed.
3. Water Board staff, Lila and Bill Johnson, will consider what annual reports will be required of agencies that have not yet fully implemented eSMR/CIQWS reporting.

**Next BACWA Permits Committee Meeting:** Tuesday, December 13th, 2011, at EBMUD Plant Library.

Grant Disbursement Summary to Date (Nov. 9, 2011)												
Bay Area Integrated Regional Water Management (IRWM) Prop 50 Grant												
Agr. No.	Implementing Agency	Project Title	DWR Proj. No.	Max. State Grant Funds by Project	Grant Funds Invoiced to date	Paid by DWR to date	DWR Retention	Admin <sup>2</sup> Funds Rec'd by BACWA	Funds paid out to date	Payable as of this date	Total Paid and Payable	
1	Contra Costa Water District	Regional Intertie (VFDs)	1	500,000.00	499,999.59	499,999.63	0.04		495,803.20	1,228.83	497,032.02	
		BACWA Admin	16	15,625.00	8,508.22	7,657.39	(850.82)	15,625.00				
2	East Bay Municipal Utility District	Reg. Conservation Outreach	2	250,000.00	250,000.00	250,000.00	0.00		2,396,885.69	3,686.49	2,400,572.18	
		California WaterStar Initiative -	3	525,000.00	0.00	0.00	0.00					
		New Business Guidebook Pilot	4	75,000.00	0.00	0.00	0.00					
		Richmond Adv Recycling	8	2,127,600.00	2,127,600.00	2,127,600.00	0.00					
		BACWA Admin	16	46,875.00	25,524.65	22,972.18	(2,552.46)	46,875.00				
3	City of Redwood City	Redwood City Recycled WP	5	972,800.00	972,800.00	972,800.00	0.00		978,759.11	1,698.28	980,457.39	
		BACWA Admin	16	15,625.00	8,508.22	7,657.39	(850.82)	15,625.00				
4	City of Palo Alto	Mt.View-Moffett Recycl WP	6	972,800.00	972,800.00	972,800.00	0.00		965,858.13	3,974.26	969,832.39	
		BACWA Admin	16	15,625.00	8,508.22	7,657.39	(850.82)	15,625.00				
5	Santa Clara Valley Water District (& San Jose)	Reg. Conservation Outreach	2	125,000.00	125,000.00	125,000.00	0.00		98,910.69	3,686.49	102,597.18	
		South Bay Adv Recycl WTP	7	2,934,600.00	0.00	0.00	0.00					
		BACWA Admin <sup>3</sup>	16	31,875.00	10,524.65	9,472.18	(1,052.46)	31,875.00				
SJ	City of San Jose	BACWA Admin for SCVWD <sup>3</sup>	16	15,000.00	15,000.00	13,500.00	(1,500.00)	15,000.00	13,500.00	0.00	13,500.00	
6	North Coast County WD (& SFPUC)	Pacifica Recycled Water Proj	9	744,400.00	744,400.00	669,960.00	(74,440.00)		673,117.39	0.00	673,117.39	
		BACWA Admin <sup>3</sup>	16	10,625.00	3,508.22	3,157.39	(350.82)	10,625.00				
SF	S.F. Public Utilities Comm	Reg. Conservation Outreach	2	297,550.00	297,550.00	297,550.00	0.00		252,045.00	44,069.79	296,114.79	
		BACWA Adm for Reg. Consvr	16	31,250.00	17,016.43	15,314.79	(1,701.64)	31,250.00				
		BACWA Admin for NCCWD <sup>3</sup>	16	5,000.00	5,000.00	4,500.00	(500.00)	5,000.00				
SOL	Solano Co. Water Agency	Reg. Conservation Outreach	2	50,000.00	50,000.00	50,000.00	0.00	50,000.00		0.00	50,000.00	
7	North Marin Water District	North Marin Recycled Water	10	244,550.00	244,550.00	244,550.00	0.00		241,750.47	1,018.97	242,769.44	
		BACWA Admin	16	9,375.00	5,104.93	4,594.44	(510.49)	9,375.00				
8	Zone 7 Water Agency	Reg. Conservation Outreach	2	60,000.00	60,000.00	60,000.00	0.00		806,428.56	1,228.83	807,657.39	
		Mocho GW Demin Project	11	740,000.00	740,000.00	740,000.00	0.00					
		BACWA Admin	16	15,625.00	8,508.22	7,657.39	(850.82)	15,625.00				
9	Marin Municipal Water District	Reg. Conservation Outreach	2	200,000.00	200,000.00	200,000.00	0.00		478,187.05	737.30	478,924.35	
		Direct Installation HET Prog	12	366,800.00	311,894.35	280,704.92	(31,189.44)					
		BACWA Admin	16	9,375.00	5,104.93	4,594.44	(510.49)	9,375.00				
10	Montara Water & Sanitary District	Groundwater Exploration Project	13	37,100.00	37,100.00	37,100.00	0.00		38,631.48	0.00	38,631.48	
		BACWA Admin	16	3,125.00	1,701.64	1,531.48	(170.16)	3,125.00				
11	Alameda County Water District	Reg. Conservation Outreach	2	60,000.00	60,000.00	60,000.00	0.00		655,803.56	1,228.83	657,032.39	
		Alameda Creek Phase 2 Fish	14	600,000.00	600,000.00	600,000.00	0.00					
		BACWA Admin	16	15,625.00	8,508.22	7,657.39	(850.82)	15,625.00				
12	Sonoma Valley County Sanit. Dist.	Sonoma-Napa Marsh RWP	15	366,800.00	269,322.36	242,390.12	(26,932.24)		246,247.26	737.30	246,984.56	
		BACWA Admin	16	9,375.00	5,104.93	4,594.44	(510.49)	9,375.00				
Grand Total					12,500,000.00	8,699,147.74	8,552,972.97	(146,174.77)	250,000.00	8,391,927.61	63,295.36	8,455,222.97

Notes: 1. BACWA Administration Costs invoiced, paid and retained to date:

136,131.44

122,518.30

(13,613.14)

3. Reimburse SFPUC and San Jose for Admin Costs until reimbursement = \$80k then pay SCVWD & NCCWD

2. Admin funding = \$152,250 in upfront funding plus grant check deductions.

11/9/2011

## Director's Report to the Board

**October 10 – November 11, 2011**

Prepared for the November 17, 2011 Executive Board meeting

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### **A. ORGANIZATIONAL DEVELOPMENTS**

- **Financial.** The Executive Director (ED) and Assistant Executive Director (AED) prepared first quarter projections, revised internal accounting procedures and met with the accounting staff to continue improving processes and communications.
- **Communications.** The ED prepared and sent the October and November electronic newsletter and distributed the Annual Report to members. The agenda for the January 26, 2011 members' meeting was finalized, with assistance from the Executive Board, and invitations extended to speakers. The ED is working with consultants to prepare a regulatory briefing to distribute at the Annual Meeting.
- **Other.** The ED and AED prepared and distributed solicitations for the Arleen Navarret Award, to be awarded at the Annual Meeting. The ED also worked with the Chair and the Vice-Chair to develop a proposal for BACWA program assistance consistent with the recommendations from Pardee.

### **B. REGULATORY AFFAIRS**

- **Mercury/PCBs Watershed Permit.** The issue of risk reduction was discussed at the November Summit Partners' meeting. The ED will coordinate with the Central Valley Clean Water Association to work towards developing a statewide position on this issue. A regional funder's meeting will be held on November 22 to discuss the status of the current project, and this issue is on the Aquatic Science Center's December 1 agenda.
- **Selenium.** No new developments; draft criteria expected from EPA in late 2011 or early 2012.
- **Nutrients.** The ED worked with the Regional Water Board and the BACWA Board to finalize an interim scope of work with SFEI/ASC. David Senn, the SFEI lead, will attend the November Executive Board meeting to introduce himself and will be making a presentation regarding possible future actions at the December 9 joint meeting between the BACWA Board and Regional Water Board staff. The ED also reviewed a draft of the third and final topic paper to be prepared by HDR; a draft for broader review is expected next week.
- **Whole Effluent Toxicity.** The ED and representatives from the Central Contra Costa Sanitary District (CCCSD) met with Kevin Buchan of the Western States Petroleum Association to share information and concerns about the draft policy. The ED also coordinated with Permits Committee Chair Jim Ervin on a draft scope of work for a regional implementation workgroup, which is included in the materials for the November 17 BACWA Board meeting.
- **e-SMR Transition.** The ED, EOA and SFEI worked together to develop a suite of proposals related to the historic ERS database. These proposals are included in the materials for the November 17 BACWA Board meeting. The ED also coordinated with the Permits and Lab committee chairs to include the transition as a topic at the December Permits Committee meeting.
- **Sanitary Sewer Overflow Waste Discharge Requirements.** No new developments.

- **Permits.** The ED recommends that the BACWA Board develop comments on the draft CCCSD permit, which will be considered for adoption at the January 2012 Regional Water Board meeting. Background information and a proposal are included in the materials for the November 17 BACWA Board meeting.
- **Water Recycling.** The ED assisted the Recycled Water Committee Chair in preparing a brief synopsis of the results of the committee's survey on recycled water production in the region (attached). This information was provided to the Regional Water Board to assist with a presentation to be given to the Water Board members on November 28. BACWA will also give a brief presentation following staff's.
- **Climate Change.** The ED and Alicia Chakrabarti of EBMUD coordinated a second meeting of the BACWA climate change workgroup. The workgroup developed an outline for a proposed topic paper that would assist member agencies in understanding the assumptions being made with respect to climate change in the region and that would provide information to the public about the potential impacts to wastewater infrastructure in the region. The group anticipates putting forth a request for BACWA funding in December or early 2012.

#### C. COLLABORATIONS

- **IRWMP/Prop 84/Prop 50.** A chart of accounts for Prop 84 was created, and transfers and invoices for administrative costs were generated during this period. Legal counsel began reviewing the draft Proposition 84 agreement with the Department of Water Resources (DWR) and working on draft agreements with the Local Project Sponsors (LPS). The chart of accounts for Proposition 84 was finalized to enable tracking of funds. The BACWA Board should expect an update on the status of the DWR and LPS agreements in December or January.
- **Regional Behavior Change Campaign.** Another meeting of the Regional Behavior Change Campaign workgroup was held in November. Several BACWA agencies sent representatives to provide input on governance and structure. The BASMAA Board is expected to approve a financial contribution towards this effort in December, at which time BACWA will provide the funding that it committed to this effort.
- **Other.** The ED represented BACWA at the SFEP ICC meeting, the RMP Master Planning meeting, and the November Summit Partners' meeting.

#### MEETINGS

- November 28: Regional Water Board meeting, including Recycled Water presentation
- November 28: IRWMP Coordinating Committee Meeting
- November 29: RMP Steering Committee Meeting
- December 1: Aquatic Science Center Meeting
- December 7: BAPPG Meeting
- December 8: Collection Systems Committee Meeting
- December 13: Permits Committee Meeting
- December 14: Laboratory Committee Meeting
- December 15: Executive Board Meeting & Holiday Luncheon (tentative)
- January 26: BACWA Annual Members' Meeting

#### ATTACHMENTS

1. Water Recycling Survey Results



## RECYCLED WATER SURVEY RESULTS, NOVEMBER, 2011

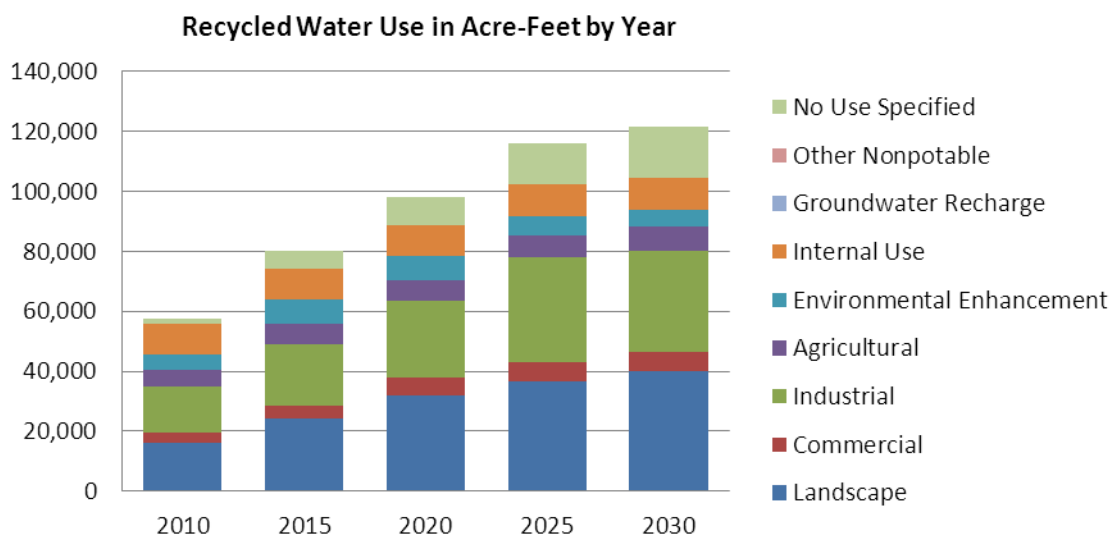
Between July and October of 2011, the Recycled Water Committee (RWC) of the Bay Area Clean Water Agencies (BACWA) surveyed San Francisco Bay area agencies about their current and projected production and use of recycled water. The purpose of the survey was to obtain a more accurate estimate of current production, to better understand trends in water recycled use, and to understand how those trends are anticipated to change with time. The RWC hopes to undertake this survey again in three to five years to determine how these results change with time.

In total, the RWC contacted thirty-eight agencies, and thirty-two responses were received. Based on a review of the agencies that did not respond, the RWC believes that the numbers below capture almost all of the water recycling occurring in the Bay Area.

### Results

**Table 1. Bay Area Recycled Water Production by Year and Use in Acre-Feet per Year (AFY)**

	2010	2015	2020	2025	2030
Landscape	16,048	24,262	31,751	36,572	40,003
Commercial	3,716	4,273	6,058	6,464	6,562
Industrial	15,264	20,624	25,712	34,897	33,666
Agricultural	5,536	6,889	6,889	7,489	7,989
Environmental Enhancement	4,896	7,844	7,844	6,244	5,744
Internal Use	10,448	10,399	10,567	10,567	10,567
Groundwater Recharge	0	0	0	0	0
Other Nonpotable	0	31	96	127	157
No Use Specified	1,782	5,883	8,974	13,487	16,985
<b>YEARLY TOTAL</b>	<b>57,690</b>	<b>80,205</b>	<b>97,891</b>	<b>115,847</b>	<b>121,673</b>



## Conclusions

- In 2010 the Bay Area recycled almost 10% of the effluent generated.<sup>1</sup>
- The State Water Resources Control Board estimated that 29,100 AFY were produced in the San Francisco Bay region in the year 2000. The 2010 production was almost twice the amount produced in 2000.
- Recycled water production is expected to more than double over the next twenty years.
- The current and future predominate uses of recycled water are for landscape irrigation and industrial facilities (which includes boiler water washdown and cooling water use by oil refineries).
- The amount applied for internal uses – which includes water used for processes, sewer flushing, and washdown at wastewater treatment plants – is consistent over time and was likely maximized early in the development of recycled water.
- The relative allocation across uses is projected to stay the same over the next twenty years.

## Use Definitions

*Landscape Irrigation:* All irrigation of landscape, including golf courses and playing/recreation fields.

*Commercial:* Dual plumbing, fountains and water features, and toilet flushing.

*Industrial:* All cooling water uses, all other energy uses and production support, car washes and other wash- down and manufacturing.

*Agricultural:* All irrigation of agricultural crops including grass or fodder, regardless of whether grass or fodder is used for grazing.

*Environmental Enhancements:* Wetlands, including fresh or brackish and seasonal, and other projects to support waterfowl and other wildlife.

*Indirect Potable Reuse with Groundwater Recharge:* Replenishment of a groundwater basin or an aquifer that has been designated as a source of water supply for a public water system, as defined in Section 116275 of the Health and Safety Code.

*Internal Uses:* Process water, sewer flushing or wash down at a municipal wastewater treatment plant, or on municipal streets.

*Other Nonpotable:* All other types of uses that did not specifically fit the use definitions listed above as determined by the water recycling utility (for example residential toilet flushing in condominiums).

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<sup>1</sup> Assumes that the Bay Area produces 617 million gallons per day of effluent (SFEI, 2007 Pulse of the Estuary). Actual production is likely much lower due to conservation measures implemented in recent years.



## BACWA CHAIR AUTHORIZATION REQUEST

FILE NO.: 12,595

DATE: October 27, 2011

**TITLE:** SFEI/ASC for Nutrient Strategy Support, FY 2011-2012, \$9,999.

### RECOMMENDED ACTION

Chair authorization for an agreement with the San Francisco Estuary Institute /Aquatic Science Center (SFEI/ASC) for nutrient strategy support, FY 2011 -2012, \$9,999, to be completed by June 30, 2012.

### SUMMARY

This agreement will provide funding to SFEI/ASC to continue development of a San Francisco Bay regional strategy for nutrient science and management. SFEI/ASC, led by senior scientist David Senn, will use these funds to revise and build upon the current (September 8, 2011) draft strategy to, *inter alia*, improve coordination and communication with various partners, collaborators and stakeholders; identify frameworks for strategy implementation; a generate more detailed scopes of work to support the strategy.

The results of this work will be presented to the BACWA and San Francisco Bay Regional Water Quality Control Boards on December 9, 2011, along with a proposal for future work.

### FISCAL IMPACT

This specific project was not included in the budget or workplan for CBC/WQAS, but funds are available from this fiscal year's revenues. To date, approximately, \$337,000 has been spent or obligated on other projects, leaving \$114,000 available.

### ALTERNATIVES

No other alternatives were considered as the BACWA contracting policies authorize a sole source selection process for contracts under \$50,000.

#### *Attachments:*

1. Scope of Work

## **San Francisco Estuary Institute Nutrient Assistance Scope of Work**

Over the last year, the potential for adverse effects of nutrient loads to San Francisco Bay has become a topic of increasing concern. In recent months, work has commenced to develop a nutrient strategy for the Bay. A main goal of the strategy is to lay out a well-reasoned and cost-effective program to generate the scientific understanding needed to fully support major management decisions related to nutrients.

In its current form, the strategy has four main work elements: i) defining the problem; ii) monitoring program development and implementation; iii) developing a nutrient assessment framework; iv) developing a modeling strategy that can be used to assess potential impacts of various management actions. The strategy also includes reference to the need to evaluate policy tradeoffs of implementing nutrient controls (e.g., increased greenhouse gas emissions associated with higher N removal efficiencies), but no such work elements have to date been included in the strategy workplan. A related goal of BACWA and the Region 2 Water Board is to develop a longer-term collaborative nutrient management strategy that establishes a clear path forward to address regulatory issues. The strategy is specifically intended to integrate across its various activities, acknowledging their shared overarching goals. There is also a clear need for communicating the progress of implementation to a broad community of interested entities.

At the request of Region 2 Water Board, and with funding from BACWA, the Aquatic Science Center (ASC) and the San Francisco Estuary Institute (SFEI) will continue to assist in developing the nutrient strategy for San Francisco Bay, and begin work on priority tasks. The purpose of this project is to

- 1) Generate a more detailed scope of work to support the nutrient strategy, through discussions with stakeholders and regional and national experts;
- 2) Coordinate and communicate with various partners, collaborators and stakeholders;
- 3) Develop a work element that focuses on evaluating trade-offs and synergies associated with various policies or management strategies; and
- 4) Identify potential structures to govern strategy implementation.

The BACWA Board signaled its intent to support funding for ASC/SFEI to accomplish these goals over the next six months; however the Board will need to approve the specific scope of work attached to the funding. Over the next six weeks, ASC/SFEI will work with the Region 2 Water Board and BACWA to

- Update the September 8, 2011 version of the nutrient strategy to incorporate feedback received at the September 15, 2011 work group meeting;
- Where feasible, outline scopes of work, cost estimates and possible funding mechanisms for key components of the nutrient strategy workplan to be implemented in 2012;
- Generate a preliminary list of other programs in the Bay and Delta that should be partners, collaborators, or cooperating institutions, and suggest approaches for how to best engage these parties in the on-going implementation of the nutrient strategy; and
- Establish initial mechanisms for tracking and communicating information about San Francisco Bay nutrient –related scientific developments and research documents to interested parties (i.e., website proposal, list-serv).

The first set of deliverables of the project will be a progress update in December 2011 that includes

- 1) Presentation and discussion at a joint meeting with the Region 2 Board staff and BACWA on December 9, 2011, including recommendation of next steps for 2012 projects and funding needs;
- 2) Establishment of a Bay nutrient draft website and/or listserv to serve as tools for communicating to the public about nutrient science and strategy-related developments.
- 3) Proposed scope of work and deliverables for the remainder of the project through April 2012.



## EXECUTIVE DIRECTOR TASK AUTHORIZATION

**FILE NO.:** 12,430

**DATE:** October 27, 2011

**TITLE:** Kennedy/Jenks Task Authorization for As-Needed Assistance, FY 2011-2012, \$4,000.

### RECOMMENDED ACTION

Authorize a task under an existing contract with Kennedy/Jenks for InfoShare special project support, FY 2011-2012, not to exceed \$4,000.

### SUMMARY

This task authorization will enable Kennedy/Jenks to provide support to the InfoShare groups for two projects. The first project will allow the consultant to compile organizational charts from member agencies to be used as reference materials for agencies interested in building or re-organizing their staff positions. The second project will consist of developing, gathering and compiling general operations metrics based on information furnished by the agencies. The metrics will be shared among the operations managers. The second project will be managed by Paul Zolfarelli from Oro Loma Sanitary District.

### FISCAL IMPACT

These specific projects were not specifically included in the budget or workplan for BACWA/InfoShare Support, the \$4,000 was allocated to projects yet to be defined at the time of contract approval and are therefore consistent with the assumptions made in the planning documents.

### ALTERNATIVES

No other alternatives were considered as the BACWA contracting policies authorize a sole source selection process for contracts under \$50,000.



## EXECUTIVE DIRECTOR AUTHORIZATION REQUEST

FILE NO.: 12,582

DATE: October 31, 2011

**TITLE: Executive Director Authorization for Agreement with Thermostat Recycling Corporation for BAPPG**

### RECOMMENDED ACTION

BACWA Executive Director authorization for an agreement with Thermostat Recycling Corporation (TRC), in an amount not to exceed \$1,500, to assist with the BAPPG thermostat recycling program during the period of October 31, 2011 – June 30, 2012.

### SUMMARY

This BAPPG project will encourage mercury thermostat recycling through outreach to HVAC wholesalers and distributors, encouraging them to sign up for a recycling program managed by the Thermostat Recycling Corporation (TRC). BAPPG will offer to cover the one-time fee of \$25.00 for vendor participation in this program up to a total of \$1,500 on a first come, first served basis. TRC will track the number of HVAC participants and send a single invoice once the \$1,500 limit has been reached or the project term has been completed, whichever comes first.

This project is in the BAPPG fiscal year 2011-2012 workplan and budget approved by the BACWA Executive Board and will be funded by the *Outreach to Demolition Contractors & HVAC Wholesalers* budget line item.

Amanda Roa of Delta Diablo Sanitation District and Meg Gale of San Francisco Public Utilities Commission will be managing this project on behalf of BAPPG.

### FISCAL IMPACT

This project is included in the approved Fiscal Year 2011-2012 BAPPG budget and workplan, and sufficient funds are available for this work.

### ALTERNATIVES

This action does not require consideration of alternatives.

#### *Attachments:*

1. TRC BAPPG 2011-12, 12,582 Scope of Work

October 31, 2011

Scope of Work—BAPPG Mercury Thermostat Project 2011

The BAPPG Mercury Thermostat Project will encourage mercury thermostat recycling through outreach to HVAC wholesalers and distributors, encouraging them to sign up for a recycling program managed by the Thermostat Recycling Corporation (TRC). BAPPG will offer to cover the one-time fee of \$25.00 for vendor participation in this program up to a total of \$1,500 on a first come, first served basis. TRC will track the number of HVAC participants and send a single invoice once the \$1,500 limit has been reached or the project term has been completed, whichever comes first.

Amanda Roa of Delta Diablo Sanitation District and Meg Gale of San Francisco Public Utilities Commission will be managing this project on behalf of BAPPG.

This project will be managed (by TRC) by Mark Tibbitts.



## CHAIR AUTHORIZATION REQUEST

FILE NO.: 12,576

DATE: October 14, 2011

**TITLE: Chair Authorization for Agreement with Univision for BAPPG FOG Outreach, Hispanic Radio Public Service Announcements**

### RECOMMENDED ACTION

BACWA Chair authorization for an agreement with Univision, in an amount not to exceed \$9,999, to air radio ads, online streaming ads, and public service announcements about proper FOG disposal during the period of October 31, 2011 – June 30, 2012.

### SUMMARY

This BAPPG project will air 80 paid radio ads and 90 free public service announcements (PSAs) in Spanish informing Bay Area residents about proper FOG disposal, through January 1, 2012. The stations may be able to air additional PSAs as the broadcast schedule permits.

This project is in the BAPPG fiscal year 2011-2012 workplan and budget approved by the BACWA Executive Board.

This project will be managed by Sharon Newton and Sandra Freitas of the City of San José.

### FISCAL IMPACT

This project is included in the approved Fiscal Year 2011-2012 BAPPG budget and workplan, and sufficient funds are available for this work.

### ALTERNATIVES

This action does not require consideration of alternatives.

#### *Attachments:*

1. Univision BAPPG FOG 2011-12, 12,576 Scope of Work

### Project Scope for FY 2011/12

<b>Title</b>	<b>HISPANIC RADIO OUTREACH (emphasis on Fats, Oils, &amp; Grease)</b>
<b>Purpose</b>	Presentation of behavior and awareness messages about FOG disposal to Bay Area Hispanic audiences.
<b>Background</b>	<ul style="list-style-type: none"> <li>• Bay Area Hispanic audiences constitute 22% of the Bay Area population.</li> <li>• Outreach to Hispanic audiences requires specialized language and cultural skills.</li> <li>• Products developed and services implemented through BAPPG's Hispanic Radio Outreach project provides these specialized services at significant savings for BAPPG members.</li> </ul>
<b>Scope</b>	<ul style="list-style-type: none"> <li>• 104 paid spots (80 radio and 24 online) with a guarantee of 90 free PSAs throughout the broadcast schedule of Thanksgiving week and the 2 weeks around the end-of-year holidays.</li> <li>• Possible – additional free PSAs worked into the broadcast schedule.</li> <li>• Possible – distribute P2 educational materials at radio station sponsored events. BAPPG would provide materials and premium items when the radio station has events.</li> </ul>
<b>Products</b>	1.) Final report produced by Univision.
<b>Budget</b>	\$9,999
<b>Project Champion</b>	Sharon Newton, City of San José Sandra Freitas, City of San José



## Executive Board Meeting Minutes

Thursday, September 22, 2011, 9:00 a.m. – 12:00 p.m.  
EBMUD, 2020 Wake Avenue, Oakland, CA

### ROLL CALL AND INTRODUCTIONS

Executive Board Representatives: Ben Horenstein, Chair (East Bay Municipal Utility District); Laura Pagano, acting Vice-Chair (San Francisco Public Utilities Commission); Jim Kelly (Central Contra Costa Sanitary District); Mike Connor (East Bay Dischargers Authority); Kirsten Struve (City of San Jose).

Other Attendees: Margaret Orr (Central Contra Costa Sanitary District); Jim Ervin (City of San Jose); Amanda Roa (Delta Diablo Sanitary District); Monica Oakley (RMC Environmental); Denise Conners (Larry Walker Associates); Holly Kennedy (HDR Engineering); Amy Chastain (BACWA); Alexandra Gunnell (BACWA).

### PUBLIC COMMENT

There were no public comments.

### REPORTS

**Committee Reports, agenda item 1**, were included in the meeting handout packet and attendees were invited to elaborate on their reports or field questions.

The Bay Area Pollution Prevention Group (BAPPG) report included in the handout packet was discussed. The BACWA Executive Board (Board) recommended that BAPPG investigate the possibility of coordinating with the water districts on outreach to discourage use of copper sulfate as an algicide.

The Collection Systems committee report was included in the handout packet. It was noted that Jim Fischer of the State Water Resources Control Board (SWRCB) and Claudia Villacorta of the San Francisco Regional Water Quality Control Board (RWQCB) will attend the November committee meeting to share their thoughts about Sewer System Management Plan (SSMP) audits and sanitary sewer overflow (SSO) issues.

It was noted in Recycled Water Committee report that the Prop 84 Implementation Grant has officially been awarded, and includes 10 recycled water projects; BACWA will proceed with the administration and management of those funds. The Recycled Water Committee has been working with RWQCB staff to prepare a presentation on the status of recycled water trends and activities for the 11/9/2011 RWQCB Board meeting. Either a Recycled Water Committee chair or representative will give a presentation or the ED will assist in preparing the presentation.

For **agenda item 2**, the **Proposition 50 Grant Disbursements Status Report** was included in the meeting handout packet.

For **agenda item 3**, the **Executive Director's Report** in the handout packet included nutrient topic papers and notes from the 8/31/2011 BACWA Climate Change Adaptation Work Group meeting. The Board inquired about how the project management transition for CWCCG was progressing and suggested that agencies solicit feedback from their staff. CCCSD will contact HDR regarding suggested revisions to the nutrient topic papers.

BACWA Executive Board members were invited to share any items of interest under **agenda item 4, Executive Board Reports**, including information about meetings that were attended by BACWA representatives this month.

The following **Chair & Executive Director Authorized Actions** occurred in September 2011 (**Agenda item 5**).

- a. Chair authorization for an agreement with Patricia McGovern Engineers (PME) for as-needed technical services, not to exceed \$9,500, File 12,555;
- b. Chair task authorization to utilize as needed contract with EOA, Inc. for assistance with e-SMR/CIWQS reporting, not to exceed \$9,800, File 12,449;
- c. Executive Director authorization for an agreement with O'Rourke to assist BAPPG with P2 Week outreach, not to exceed \$1,500, File 12,556;
- d. Executive Director authorization for an agreement with LWA for BAPPG Copper Algaecide project assistance, not to exceed \$4,999, File 12,557;
- e. Chair authorization for Pacific EcoRisk to provide Whole Effluent Toxicity Support, \$4,000, File 12,560.

It was mentioned that the as needed agreement with PME may be used for development of regulatory issue matrix.

## **CONSENT CALENDAR**

*Consent calendar **agenda items 6 through 10** were approved in a motion made by Jim Kelly and seconded by Laura Pagano. The motion carried unanimously.*

6. Minutes from August 25, 2011 Executive Board Meeting.
7. July 2011 Treasurer's Report.
8. Contribution from BAPPG for IPM partnership FY2011-12, \$10,000, File 12,552
9. CASA Contribution for CWCCG FY2011-12, \$43,750, File 12,558
10. CASA Contribution for Pesticides Support, \$15,000, File 12,559

It was noted that the dates of the Pardee meeting should be corrected in the Minutes from the August 25, 2011 Executive Board meeting. The Board suggested revisions to how financial reports are presented, and specifically suggested highlighting important information contained within the monthly report.

## **OTHER BUSINESS**

For **agenda item 11, Pardee Attendance and Schedule** discussed. The ED and Board Chair will continue to refine the agenda.

For **agenda item 12** the ED requested feedback from attendees on possible **Annual Meeting Topics**. The BACWA Annual Member Meeting is scheduled for January 26, 2012. Suggested topics and

sources of presentations included:

- Nutrients  
Presentations at the State of the Estuary Conference and the ones developed for BACWA by HDR were suggested as well as James Cloern and Tara Schraga as possible guest speakers.
- Climate Change  
Alicia Chakrabarti or a representative from SFPUC was mentioned as potential speakers, and the Board suggested reaching out the university scientists, USGS and San Francisco Bay Area Conservation and Development Commission (BCDC).
- Toxicity  
It was noted that this topic could be addressed by Bruce Wolfe or Alexis Strauss

The ED will solicit suggestions from the BACWA community in the next newsletter and will add the topic of increasing participation from associate members to the Pardee agenda.

**NPDES Permit Plant Inspections** were discussed under **agenda item 13**. The Board suggested that presentation about dealing with FBI investigations by Kent Alm may be useful for member agencies, and could be part of a workshop hosted by the Permits committee. The Board expressed interest in gathering more information about member agencies' recent experiences with inspections and how their agencies prepare for inspections. The Permits Committee and ED will solicit input from BACWA members for the content and format of a possible fact sheet or workshop on this topic. The Permits Committee will recommend next steps to the BACWA Board at a future meeting.

Under **agenda item 14, Whole Effluent Toxicity (WET) Policy Updates and Next Steps**, the Board requested that Central Contra Costa Sanitary District (CCCSD) submit proposed revisions to the Tri-TAC/CASA workgroup trying to develop alternatives to the policy. BACWA will also draft a comment letter that supports CASA efforts and addresses use of the IC25 method and acute toxicity issues.

For **agenda item 15**, the Board discussed their upcoming SF Bay Regional Water Quality Control Board (RWQCB) Meeting and reviewed meeting materials that the ED had prepared and distributed to the RWQCB. The draft nutrient topic papers, included in the handout packet will be distributed at the meeting.

**The Informational Item: SFPUC/NOAA Quantitative Precipitation Information Proof-of-Concept Study, agenda Item 16**, was discussed. Any questions or concerns should be directed to the ED.

The next meeting of the Board will be October 11 through the 13 (Pardee). The next regularly scheduled meeting will be November 17 at the EBMUD Treatment Plant Ops Center.

The meeting adjourned at 12:00 p.m.



## Executive Board Meeting Minutes

Tuesday, October 11, 2011, 10:30 a.m. – 12:00 p.m.  
EBMUD's Pardee Facility

### ROLL CALL AND INTRODUCTIONS

Executive Board Representatives: Ben Horenstein, Chair (East Bay Municipal Utility District); Tommy Moala, Vice-Chair (San Francisco Public Utilities Commission); Jim Kelly (Central Contra Costa Sanitary District); Mike Connor (East Bay Dischargers Authority); Kirsten Struve (City of San Jose).

Other Attendees: Dave Williams (East Bay Municipal Utility District); Laura Pagano (San Francisco Public Utilities Commission); Rod Miller (San Francisco Public Utilities Commission); Margaret Orr (Central Contra Costa Sanitary District); Jim Ervin (City of San Jose); Amy Chastain (BACWA); Alexandra Gunnell (BACWA).

### PUBLIC COMMENT

There were no public comments.

### REPORTS

For the **Proposition 50 Grant Disbursement Status Report, agenda item 1**, there were no changes from the report of September 2011.

For the **Executive Director Report, agenda item 2**, the Executive Director (ED) notified the BACWA Executive Board (Board) that BACWA's legal counsel is reviewing the Prop84 grant agreement and comments from the local project sponsors.

BACWA Executive Board members were invited to share any items of interest under **agenda item 3, Executive Board Reports**.

- It was suggested that BACWA send a letter to RWQCB staff confirming changes to priority pollutant reporting requirements, continue discussions with RWQCB staff, and decide whether to submit a comment letter on the CCCSD permit.
- Mike Connor will forward to the Board the new language in the EBDA permit regarding FOG.
- The RMP annual workplan meeting is scheduled for October 21, 2011. Requests for additional funding from BACWA or increases in RMP rates are likely in the near future. It was suggested that Kirsten Struve and Karin North could be nominated as co-Chairs.

The following **Chair & Executive Director Authorized Actions** occurred in September 2011 (**Agenda item 4**).

- a. Chair authorization for contact with Zentraal for IRWMP website support, \$7,000.

### OTHER BUSINESS

For **agenda item 5**, the **August 2011 Treasurers Report** will be included on the agenda for approval at the BACWA Executive Board meeting in November 2011.

For **agenda item 6**, the ED led a discussion about **Future Toxicity Next Steps**. Discussions will continue with the RWQCB staff.

**Sanitary Sewer Overflow (SSO) Reporting in NPDES permits** was discussed under **agenda item 7**. The ED and Permits Committee will consider drafting a comment letter regarding permitting language about SSOs reaching surface waters and resulting violations.

The ED will add permitting concerns to the Pardee agenda for discussion with RWQCB staff.

The next regularly scheduled meeting will be November 17, 2011 at the EBMUD Treatment Plant Ops Center.

The meeting adjourned at 12:00 p.m.

Summary of the BACWA Treasurer's Report for June 2011 – September 2011, 1<sup>st</sup> Quarter of  
Fiscal Year 2011-12

Prepared for the BACWA Executive Board Meeting on November 17, 2011

This treasurer's report covers financial activity for the BACWA and Special Program accounts for the first quarter (Q1) of fiscal year 2011-12 (June 1, 2011 – September 30, 2011). Noteworthy items from the report are highlighted in this summary.

For BACWA, 68% of budgeted revenues were received by the end of the first quarter. Most of the outstanding revenue should be received before the end of the second quarter, December 2011, and consists of:

- Annual member dues that had not been received by the end of September (two Principals, three Affiliates)
- \$10,000 annual administrative service fee from special programs to BACWA not transferred as of September 30, 2011

The Air Committee, Bay Area Pollution Prevention Group, and Water Operator Training Program appear on track to receive their budgeted revenues from participating members.

Expenditures for BACWA are on track to meet budget projections with \$280,000 remaining unobligated as of the end of the first quarter. Payment of the 2010-11 CH2M Hill invoice in July 2011 (accrual) in the amount of \$29,000 is producing a projected overage for AIR, though revenues and actual fiscal year obligations are expected to remain within budget. BAPPG and WQAS are also meeting budget expectations at the end of Q1.




# Bay Area Clean Water Agencies

A Joint Powers Public Agency

Leading the Way to Protect our Bay

November 4, 2011

MEMO TO: Bay Area Clean Water Agencies Executive Board  
MEMO FROM: Wanda B. Hendrix,  Treasury Manager, East Bay Municipal Utility District  
SUBJECT: Three Month Treasurer's Report

As required by section eight of the Joint Powers Agreement establishing the Bay Area Clean Water Agencies (BACWA) and California Government Code Sections 6500 et seq., attached is the BACWA Treasurer's Report for the period covering **July 1, 2011 through September 30, 2011** (three months of Fiscal Year 2011-2012). This report covers expenditures, cash receipts, and cash transfers for the following BACWA funds:

- Bay Area Clean Water Agencies (BACWA),
- BACWA Training Fund (Trng Fnd),
- Air Issues and Regulation Group (AIR),
- Bay Area Pollution Prevention Group (BAPPG),
- BACWA Legal Reserve Fund (Legal Rsrv),
- Water Quality Attainment Strategy (WQA CBC),
- BACWA Operating Reserve Fund (BACWAOpRes),
- Regional Water Recycling (RWR),
- BACWA Reserve (Reserve),
- Water/Wastewater Operator Training (WOT),
- WQA Emergency Reserve Fund (WQA Emerg),
- WQA Tech Action Fund (TechAction),
- CBC Operating Reserve Fund (CBC OpRsrv), and
- Prop50 Bay Area Integrated Regional Water Mgmt (PRP50)

## Fund Balances as of month end 9/30/11

DESCRIPTION	BEGINNING FUND BALANCE 7/1/11	TOTAL RECEIPTS	TOTAL DISBURSEMENTS	ENDING FUND BALANCE 9/30/11	OUTSTANDING ENCUMBRANCES	UNOBLIGATED FUND BALANCE 9/30/11
BACWA	495,026	424,538	54,348	865,217	286,942	578,275
TRNG FND	251,705	333	-	252,038	-	252,038
AIR	26,619	71,766	28,728	69,657	79,557	(9,900)
BAPPG	19,770	26,652	10,000	36,422	17,499	18,923
LEGAL RSRV	302,046	399	-	302,445	-	302,445
WQA CBC	141,949	323,703	89,215	376,437	186,454	189,983
BACWAOPRES	151,978	202	-	152,180	-	152,180
RWR	16,629	22	-	16,651	-	16,651
RESERVE	120,000	-	-	120,000	-	120,000
WOT	93,370	64,353	-	157,723	-	157,723
PRP84	-	-	-	-	30,000	(30,000)
WQA EMERG	402,728	532	-	403,260	-	403,260
TECHACTION	251,705	333	-	252,038	-	252,038
CBC OPRSRV	163,105	216	-	163,321	-	163,321
PRP50	550,190	4,344	347,717	206,817	60,110	146,706
	2,986,820	917,392	530,008	3,374,204	660,563	2,713,641

## BACWA Revenue Report for September 2011

DEPARTMENT	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
			DIRECT	INVOICED	JVS	DIRECT	INVOICED	JVS	ACTUAL	
Bay Area Clean Water Agencies	BDO Member Contributions	450,000	-	90,000	(1,500)	-	271,500	(1,500)	270,000	180,000
Bay Area Clean Water Agencies	BDO Fund Transfers	10,000	-	-	-	-	-	-	-	10,000
Bay Area Clean Water Agencies	BDO Interest Income	5,000	-	-	-	-	-	788	788	4,212
Bay Area Clean Water Agencies	BDO Assoc.&Affiliate Contr	159,000	-	51,000	1,500	-	152,250	1,500	153,750	5,250
<b>BACWA TOTAL</b>		<b>624,000</b>	-	<b>141,000</b>	-	-	<b>423,750</b>	<b>788</b>	<b>424,538</b>	<b>199,462</b>
 BACWA Training Fund	BDO Interest Income	-	-	-	-	-	-	333	333	(333)
<b>TRNG FND TOTAL</b>		-	-	-	-	-	-	<b>333</b>	<b>333</b>	<b>(333)</b>
 AIR-Air Issues&Regulation Grp	BDO Member Contributions	84,828	-	24,000	-	-	71,754	-	71,754	13,074
AIR-Air Issues&Regulation Grp	BDO Interest Income	-	-	-	-	-	-	12	12	(12)
<b>AIR TOTAL</b>		<b>84,828</b>	-	<b>24,000</b>	-	-	<b>71,754</b>	<b>12</b>	<b>71,766</b>	<b>13,062</b>
 BAPPG-BayAreaPollutnPreventGrp	BDO Member Contributions	80,505	-	8,807	-	-	26,609	-	26,609	53,896
BAPPG-BayAreaPollutnPreventGrp	BDO Interest Income	3,079	-	-	-	-	-	43	43	3,036
<b>BAPPG TOTAL</b>		<b>83,584</b>	-	<b>8,807</b>	-	-	<b>26,609</b>	<b>43</b>	<b>26,652</b>	<b>56,932</b>
 BACWA Legal Reserve Fnd	BDO Interest Income	-	-	-	-	-	-	399	399	(399)
<b>LEGAL RSRV TOTAL</b>		-	-	-	-	-	-	<b>399</b>	<b>399</b>	<b>(399)</b>
 WQA-WtrQualityAttainmntStratgy	BDO Member Contributions	450,000	-	100,653	-	-	323,530	-	323,530	126,470
WQA-WtrQualityAttainmntStratgy	BDO Interest Income	1,600	-	-	-	-	-	173	173	1,427
<b>WQA CBC TOTAL</b>		<b>451,600</b>	-	<b>100,653</b>	-	-	<b>323,530</b>	<b>173</b>	<b>323,703</b>	<b>127,897</b>
 BACWA OperatingRsrv Fnd	BDO Interest Income	-	-	-	-	-	-	202	202	(202)
<b>BACWAOPRES TOTAL</b>		-	-	-	-	-	-	<b>202</b>	<b>202</b>	<b>(202)</b>

## BACWA Revenue Report for September 2011

DEPARTMENT	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
			DIRECT	INVOICED	JVS	DIRECT	INVOICED	JVS	ACTUAL	
Regional Water Recycling	BDO Interest Income	-	-	-	-	-	-	22	22	(22)
<b>RWR TOTAL</b>		-	-	-	-	-	-	22	22	(22)
WOT - Wtr/Wwtr Operat Training	BDO Member Contributions	150,000	-	29,000	-	-	64,246	-	64,246	85,754
WOT - Wtr/Wwtr Operat Training	BDO Interest Income	-	-	-	-	-	-	107	107	(107)
<b>WOT TOTAL</b>		<b>150,000</b>	-	<b>29,000</b>	-	-	<b>64,246</b>	<b>107</b>	<b>64,353</b>	<b>85,647</b>
WQA Emergency Resrve Fnd	BDO Interest Income	-	-	-	-	-	-	532	532	(532)
<b>WQA EMERG TOTAL</b>		-	-	-	-	-	-	<b>532</b>	<b>532</b>	<b>(532)</b>
WQA Tech Action Fund	BDO Interest Income	-	-	-	-	-	-	333	333	(333)
<b>TECHACTION TOTAL</b>		-	-	-	-	-	-	<b>333</b>	<b>333</b>	<b>(333)</b>
CBC Operating Resrve Fnd	BDO Interest Income	-	-	-	-	-	-	216	216	(216)
<b>CBC OPRSRV TOTAL</b>		-	-	-	-	-	-	<b>216</b>	<b>216</b>	<b>(216)</b>
Prop50BayAreaIntegRegnlWtrMgmt	BDO Interest Income	-	-	-	-	-	-	634	634	(634)
Prop50BayAreaIntegRegnlWtrMgmt	Contra Costa Regional Intertie	-	-	-	-	-	-	-	-	-
Prop50BayAreaIntegRegnlWtrMgmt	EBMUD Richmond RWP	-	-	-	-	-	-	-	-	-
Prop50BayAreaIntegRegnlWtrMgmt	Montara Groundwater Project	-	-	-	-	-	3,710	-	3,710	(3,710)
Prop50BayAreaIntegRegnlWtrMgmt	Alameda Creek Phase 2 Fish	-	-	-	-	-	-	-	-	-
<b>PRP50 TOTAL</b>		-	-	-	-	-	<b>3,710</b>	<b>634</b>	<b>4,344</b>	<b>(4,344)</b>

## BACWA Expense Report for September 2011

DEPARTMENT	EXPENSE TYPE	AMENDED BUDGET	CURRENT PERIOD				YEAR TO DATE				OBLIGATED	UNOBLIGATED
			ENC	PV	DA	JV	ENC	PV	DA	JV		
Bay Area Clean Water Agencies	BC-Collections System	25,000	-	-	-	-	25,000	-	-	-	25,000	-
Bay Area Clean Water Agencies	BC-Permit Committee	25,000	-	-	-	-	25,000	-	-	-	25,000	-
Bay Area Clean Water Agencies	BC-Water Recycling Committee	19,000	(2,016)	2,016	-	-	1,105	3,665	-	-	4,770	14,231
Bay Area Clean Water Agencies	BC-Biosolids Committee	5,000	-	-	-	-	-	-	-	-	-	5,000
Bay Area Clean Water Agencies	BC-InfoShare Groups	25,000	-	-	-	-	-	-	-	-	-	25,000
Bay Area Clean Water Agencies	BC-Laboratory Committee	7,000	-	-	-	-	-	-	-	-	-	7,000
Bay Area Clean Water Agencies	BC-Miscellaneous Committee Sup	61,000	(5,250)	-	-	-	39,750	-	-	-	39,750	21,250
Bay Area Clean Water Agencies	TS-Media Relations Support	-	-	-	-	-	-	-	-	-	-	-
Bay Area Clean Water Agencies	TS-Consultant Support	-	-	-	-	-	-	-	-	-	-	-
Bay Area Clean Water Agencies	LS-Regulatory Support	6,000	4,000	-	-	-	4,000	-	-	-	4,000	2,000
Bay Area Clean Water Agencies	LS-Executive Board Support	2,000	2,000	-	-	-	2,000	-	-	-	2,000	-
Bay Area Clean Water Agencies	CAS-CWAA	10,000	-	-	-	-	-	-	-	-	-	10,000
Bay Area Clean Water Agencies	CAS-CPSC	5,000	-	-	-	-	-	-	5,000	-	5,000	-
Bay Area Clean Water Agencies	CAS-PSI	500	-	-	-	-	-	-	-	-	-	500
Bay Area Clean Water Agencies	CAR-BACWA Annual Report	15,000	(3,570)	3,570	-	-	3,810	8,190	-	-	12,000	3,000
Bay Area Clean Water Agencies	CAR-BACWA Website Development/	35,000	1,262	238	-	-	8,917	583	500	-	10,000	25,000
Bay Area Clean Water Agencies	AS-BACWA Admin Expense	15,000	-	-	635	-	-	-	981	-	981	14,019
Bay Area Clean Water Agencies	CAR-Other Communications	5,000	-	-	-	-	-	-	-	-	-	5,000
Bay Area Clean Water Agencies	SP-BAPPG Contribution	50,000	-	-	-	-	-	-	-	-	-	50,000
Bay Area Clean Water Agencies	GBS-Contingency	46,000	-	-	-	-	-	-	-	-	-	46,000
Bay Area Clean Water Agencies	GBS- Meeting Support	17,000	-	-	-	-	912	88	920	-	1,920	15,080
Bay Area Clean Water Agencies	AS-Executive Director	135,500	(11,645)	11,645	-	-	116,462	22,478	-	-	138,940	(3,440)
Bay Area Clean Water Agencies	AS-Assistant Executive Directo	70,000	(3,780)	3,780	-	-	59,987	8,213	-	-	68,200	1,800
Bay Area Clean Water Agencies	AS-EBMUD Administrative Servic	40,000	-	-	-	-	-	-	-	-	-	40,000
Bay Area Clean Water Agencies	AS-Insurance	5,000	-	-	3,729	-	-	-	3,729	-	3,729	1,271
<b>BACWA TOTAL</b>		<b>624,000</b>	<b>(18,999)</b>	<b>21,249</b>	<b>4,364</b>	<b>-</b>	<b>286,942</b>	<b>43,218</b>	<b>11,130</b>	<b>-</b>	<b>341,290</b>	<b>282,710</b>
AIR-Air Issues&Regulation Grp	BDO Administrative Expense	4,040	-	-	-	-	-	-	-	-	-	4,040
AIR-Air Issues&Regulation Grp	BDO Contract Expenses	80,790	-	-	-	-	79,557	28,728	-	-	108,285	(27,495)
<b>AIR TOTAL</b>		<b>84,830</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>79,557</b>	<b>28,728</b>	<b>-</b>	<b>-</b>	<b>108,285</b>	<b>(23,455)</b>
BAPPG-BayAreaPollutnPreventGrp	BAPPG-CE-Fog	20,800	-	-	-	-	-	-	-	-	-	20,800
BAPPG-BayAreaPollutnPreventGrp	BAPPG-CE-Mercury	8,500	-	-	-	-	7,040	-	-	-	7,040	1,460
BAPPG-BayAreaPollutnPreventGrp	BAPPG-CE-Pesticides	10,000	-	-	10,000	-	-	-	10,000	-	10,000	-
BAPPG-BayAreaPollutnPreventGrp	BAPPG-CE-Copper	9,000	4,999	-	-	-	8,959	-	-	-	8,959	41
BAPPG-BayAreaPollutnPreventGrp	BAPPG-CE-Pharmaceutical	7,499	-	-	-	-	-	-	-	-	-	7,499
BAPPG-BayAreaPollutnPreventGrp	BAPPG-CE-General P2	1,500	1,500	-	-	-	1,500	-	-	-	1,500	-
BAPPG-BayAreaPollutnPreventGrp	BAPPG-CE-Emerging Issues	8,000	-	-	-	-	-	-	-	-	-	8,000
BAPPG-BayAreaPollutnPreventGrp	BAPPG-CE-Other	11,000	-	-	-	-	-	-	-	-	-	11,000
BAPPG-BayAreaPollutnPreventGrp	BDO Administrative Expense	3,815	-	-	-	-	-	-	-	-	-	3,815
<b>BAPPG TOTAL</b>		<b>80,114</b>	<b>6,499</b>	<b>0</b>	<b>10,000</b>	<b>0</b>	<b>17,499</b>	<b>0</b>	<b>10,000</b>	<b>0</b>	<b>27,499</b>	<b>52,615</b>

## BACWA Expense Report for September 2011

DEPARTMENT	EXPENSE TYPE	AMENDED BUDGET	CURRENT PERIOD				YEAR TO DATE				OBLIGATED	UNOBLIGATED
			ENC	PV	DA	JV	ENC	PV	DA	JV		
WQA-WtrQualityAttainmntStratgy	WQA-CE-Technical Support	214,600	45,341	18,308	-	-	124,454	49,215	-	-	173,670	40,930
WQA-WtrQualityAttainmntStratgy	WQA-CE-Collaborations & Sponso	77,000	-	-	-	-	-	-	40,000	-	40,000	37,000
WQA-WtrQualityAttainmntStratgy	WQA-CE-Commun. & Reporting	70,000	-	-	-	-	37,000	-	-	-	37,000	33,000
WQA-WtrQualityAttainmntStratgy	WQA-CE-Other	90,000	25,000	-	-	-	25,000	-	-	-	25,000	65,000
<b>WQA CBC TOTAL</b>		<b>451,600</b>	<b>70,341</b>	<b>18,308</b>	-	-	<b>186,454</b>	<b>49,215</b>	<b>40,000</b>	-	<b>275,670</b>	<b>175,930</b>
WOT - Wtr/Wwtr Operat Training	BDO Administrative Expense	2,500	-	-	-	-	-	-	-	-	-	2,500
WOT - Wtr/Wwtr Operat Training	BDO Contract Expenses	140,000	-	-	-	-	-	-	-	-	-	140,000
<b>WOT TOTAL</b>		<b>142,500</b>	-	-	-	-	-	-	-	-	-	<b>142,500</b>
Prop84BayAreaIntegRegnlWtrMgmt	BDO Administrative Expense	-	30,000	-	-	-	30,000	-	-	-	30,000	(30,000)
<b>PRP84 TOTAL</b>		-	<b>30,000</b>	-	-	-	<b>30,000</b>	-	-	-	<b>30,000</b>	<b>(30,000)</b>
Prop50BayAreaIntegRegnlWtrMgmt	BDO Administrative Expense	-	(45)	45	-	-	1,798	202	-	-	2,000	(2,000)
Prop50BayAreaIntegRegnlWtrMgmt	BDO Contract Expenses	-	-	-	-	-	58,312	-	-	-	58,312	(58,312)
Prop50BayAreaIntegRegnlWtrMgmt	Contra Costa Regional Intertie	-	-	-	-	-	-	-	50,000	-	50,000	(50,000)
Prop50BayAreaIntegRegnlWtrMgmt	Regional Conservation	-	-	-	-	-	-	-	18,500	-	18,500	(18,500)
Prop50BayAreaIntegRegnlWtrMgmt	EBMUD Richmond RWP	-	-	-	-	-	-	-	212,760	-	212,760	(212,760)
Prop50BayAreaIntegRegnlWtrMgmt	South Bay Advanced Regional RW	-	-	-	-	-	-	-	5,786	-	5,786	(5,786)
Prop50BayAreaIntegRegnlWtrMgmt	Alameda Creek Phase 2 Fish	-	-	-	-	-	-	-	60,469	-	60,469	(60,469)
<b>PRP50 TOTAL</b>		-	<b>(45)</b>	<b>45</b>	-	-	<b>60,110</b>	<b>202</b>	<b>347,515</b>	-	<b>407,828</b>	<b>(407,828)</b>



# Bay Area Clean Water Agencies

A Joint Powers Public Agency

Leading the Way to Protect our Bay

October 18, 2011

MEMO TO: Bay Area Clean Water Agencies Executive Board  
MEMO FROM: Wanda B. Hendrix, *WBH* Treasury Manager, East Bay Municipal Utility District  
SUBJECT: Two Month Treasurer's Report

As required by section eight of the Joint Powers Agreement establishing the Bay Area Clean Water Agencies (BACWA) and California Government Code Sections 6500 et seq., attached is the BACWA Treasurer's Report for the period covering **July 1, 2011 through August 31, 2011** (two months of Fiscal Year 2011-2012). This report covers expenditures, cash receipts, and cash transfers for the following BACWA funds:

- Bay Area Clean Water Agencies (BACWA),
- BACWA Training Fund (Trng Fnd),
- Air Issues and Regulation Group (AIR),
- Bay Area Pollution Prevention Group (BAPPG),
- BACWA Legal Reserve Fund (Legal Rsrv),
- Water Quality Attainment Strategy (WQA CBC),
- BACWA Operating Reserve Fund (BACWAOpRes),
- Regional Water Recycling (RWR),
- BACWA Reserve (Reserve),
- Water/Wastewater Operator Training (WOT),
- WQA Emergency Reserve Fund (WQA Emerg),
- WQA Tech Action Fund (TechAction),
- CBC Operating Reserve Fund (CBC OpRsrv), and
- Prop50 Bay Area Integrated Regional Water Mgmt (PRP50)

## Fund Balances as of month end 8/31/11

DESCRIPTION	BEGINNING FUND BALANCE 7/1/11	TOTAL RECEIPTS	TOTAL DISBURSEMENTS	ENDING FUND BALANCE 8/31/11	OUTSTANDING ENCUMBRANCES	UNOBLIGATED FUND BALANCE 8/31/11
BACWA	495,026	283,538	28,735	749,829	305,941	443,888
TRNG FND	251,705	333	-	252,038	-	252,038
AIR	26,619	47,766	28,728	45,657	79,557	(33,900)
BAPPG	19,770	17,845	-	37,615	11,000	26,615
LEGAL RSRV	302,046	399	-	302,445	-	302,445
WQA CBC	141,949	223,050	70,907	294,092	116,113	177,979
BACWAOPRES	151,978	202	-	152,180	-	152,180
RWR	16,629	22	-	16,651	-	16,651
RESERVE	120,000	-	-	120,000	-	120,000
WOT	93,370	35,353	-	128,723	-	128,723
WQA EMERG	402,728	532	-	403,260	-	403,260
TECHACTION	251,705	333	-	252,038	-	252,038
CBC OPRSRV	163,105	216	-	163,321	-	163,321
PRP50	550,190	4,344	347,672	206,862	60,155	146,706
	2,986,820	613,932	476,043	3,124,709	572,766	2,551,943

## BACWA Revenue Report for August 2011

DEPARTMENT	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
			DIRECT	INVOICED	JVS	DIRECT	INVOICED	JVS	ACTUAL	
Regional Water Recycling	BDO Interest Income	-	-	-	22	-	-	22	22	(22)
<b>RWR TOTAL</b>		-	-	-	<b>22</b>	-	-	<b>22</b>	<b>22</b>	<b>(22)</b>
WOT - Wtr/Wwtr Operat Training	BDO Member Contributions	150,000	-	35,246	-	-	35,246	-	35,246	114,754
WOT - Wtr/Wwtr Operat Training	BDO Interest Income	-	-	-	108	-	-	107	107	(107)
<b>WOT TOTAL</b>		<b>150,000</b>	-	<b>35,246</b>	<b>108</b>	-	<b>35,246</b>	<b>107</b>	<b>35,353</b>	<b>114,647</b>
WQA Emergency Resrve Fnd	BDO Interest Income	-	-	-	539	-	-	532	532	(532)
<b>WQA EMERG TOTAL</b>		-	-	-	<b>539</b>	-	-	<b>532</b>	<b>532</b>	<b>(532)</b>
WQA Tech Action Fund	BDO Interest Income	-	-	-	337	-	-	333	333	(333)
<b>TECHACTION TOTAL</b>		-	-	-	<b>337</b>	-	-	<b>333</b>	<b>333</b>	<b>(333)</b>
CBC Operating Resrve Fnd	BDO Interest Income	-	-	-	218	-	-	216	216	(216)
<b>CBC OPRSRV TOTAL</b>		-	-	-	<b>218</b>	-	-	<b>216</b>	<b>216</b>	<b>(216)</b>
Prop50BayAreaIntegRegnlWtrMgmt	BDO Interest Income	-	-	-	642	-	-	634	634	(634)
Prop50BayAreaIntegRegnlWtrMgmt	Contra Costa Regional Intertie	-	-	-	-	-	-	-	-	-
Prop50BayAreaIntegRegnlWtrMgmt	EBMUD Richmond RWP	-	-	-	-	-	-	-	-	-
Prop50BayAreaIntegRegnlWtrMgmt	Montara Groundwater Project	-	-	3,710	-	-	3,710	-	3,710	(3,710)
Prop50BayAreaIntegRegnlWtrMgmt	Alameda Creek Phase 2 Fish	-	-	-	-	-	-	-	-	-
<b>PRP50 TOTAL</b>		-	-	<b>3,710</b>	<b>642</b>	-	<b>3,710</b>	<b>634</b>	<b>4,344</b>	<b>(4,344)</b>

## BACWA Revenue Report for August 2011

DEPARTMENT	REVENUE TYPE	AMENDED BUDGET	CURRENT PERIOD			YEAR TO DATE				UNOBLIGATED
			DIRECT	INVOICED	JVS	DIRECT	INVOICED	JVS	ACTUAL	
Bay Area Clean Water Agencies	BDO Member Contributions	450,000	-	181,500	-	-	181,500	-	181,500	268,500
Bay Area Clean Water Agencies	BDO Fund Transfers	10,000	-	-	-	-	-	-	-	10,000
Bay Area Clean Water Agencies	BDO Interest Income	5,000	-	-	799	-	-	788	788	4,212
Bay Area Clean Water Agencies	BDO Assoc.&Affiliate Contr	159,000	-	101,250	-	-	101,250	-	101,250	57,750
<b>BACWA TOTAL</b>		<b>624,000</b>	-	<b>282,750</b>	<b>799</b>	-	<b>282,750</b>	<b>788</b>	<b>283,538</b>	<b>340,462</b>
 BACWA Training Fund	BDO Interest Income	-	-	-	337	-	-	333	333	(333)
<b>TRNG FND TOTAL</b>		-	-	-	<b>337</b>	-	-	<b>333</b>	<b>333</b>	<b>(333)</b>
 AIR-Air Issues&Regulation Grp	BDO Member Contributions	84,828	-	47,754	-	-	47,754	-	47,754	37,074
AIR-Air Issues&Regulation Grp	BDO Interest Income	-	-	-	12	-	-	12	12	(12)
<b>AIR TOTAL</b>		<b>84,828</b>	-	<b>47,754</b>	<b>12</b>	-	<b>47,754</b>	<b>12</b>	<b>47,766</b>	<b>37,062</b>
 BAPPG-BayAreaPollutnPreventGrp	BDO Member Contributions	80,505	-	17,802	-	-	17,802	-	17,802	62,703
BAPPG-BayAreaPollutnPreventGrp	BDO Interest Income	3,079	-	-	44	-	-	43	43	3,036
<b>BAPPG TOTAL</b>		<b>83,584</b>	-	<b>17,802</b>	<b>44</b>	-	<b>17,802</b>	<b>43</b>	<b>17,845</b>	<b>65,739</b>
 BACWA Legal Reserve Fnd	BDO Interest Income	-	-	-	404	-	-	399	399	(399)
<b>LEGAL RSRV TOTAL</b>		-	-	-	<b>404</b>	-	-	<b>399</b>	<b>399</b>	<b>(399)</b>
 WQA-WtrQualityAttainmntStratgy	BDO Member Contributions	450,000	-	222,877	-	-	222,877	-	222,877	227,123
WQA-WtrQualityAttainmntStratgy	BDO Interest Income	1,600	-	-	176	-	-	173	173	1,427
<b>WQA CBC TOTAL</b>		<b>451,600</b>	-	<b>222,877</b>	<b>176</b>	-	<b>222,877</b>	<b>173</b>	<b>223,050</b>	<b>228,550</b>
 BACWA OperatingRsrve Fnd	BDO Interest Income	-	-	-	205	-	-	202	202	(202)
<b>BACWAOPRES TOTAL</b>		-	-	-	<b>205</b>	-	-	<b>202</b>	<b>202</b>	<b>(202)</b>

## BACWA Expense Report for August 2011

DEPARTMENT	EXPENSE TYPE	AMENDED BUDGET	CURRENT PERIOD				YEAR TO DATE				OBLIGATED	UNOBLIGATED
			ENC	PV	DA	JV	ENC	PV	DA	JV		
Bay Area Clean Water Agencies	BC-Collections System	25,000	-	-	-	-	25,000	-	-	-	25,000	-
Bay Area Clean Water Agencies	BC-Permit Committee	25,000	-	-	-	-	25,000	-	-	-	25,000	-
Bay Area Clean Water Agencies	BC-Water Recycling Committee	19,000	(1,649)	1,649	-	-	3,120	1,649	-	-	4,770	14,231
Bay Area Clean Water Agencies	BC-Biosolids Committee	5,000	-	-	-	-	-	-	-	-	-	5,000
Bay Area Clean Water Agencies	BC-InfoShare Groups	25,000	-	-	-	-	-	-	-	-	-	25,000
Bay Area Clean Water Agencies	BC-Laboratory Committee	7,000	-	-	-	-	-	-	-	-	-	7,000
Bay Area Clean Water Agencies	BC-Miscellaneous Committee Sup	61,000	-	-	-	-	45,000	-	-	-	45,000	16,000
Bay Area Clean Water Agencies	TS-Media Relations Support	-	-	-	-	-	-	-	-	-	-	-
Bay Area Clean Water Agencies	TS-Consultant Support	-	-	-	-	-	-	-	-	-	-	-
Bay Area Clean Water Agencies	LS-Regulatory Support	6,000	-	-	-	-	-	-	-	-	-	6,000
Bay Area Clean Water Agencies	LS-Executive Board Support	2,000	-	-	-	-	-	-	-	-	-	2,000
Bay Area Clean Water Agencies	CAS-CWAA	10,000	-	-	-	-	-	-	-	-	-	10,000
Bay Area Clean Water Agencies	CAS-CPSC	5,000	-	-	-	-	-	-	5,000	-	5,000	-
Bay Area Clean Water Agencies	CAS-PSI	500	-	-	-	-	-	-	-	-	-	500
Bay Area Clean Water Agencies	CAR-BACWA Annual Report	15,000	7,380	4,620	-	-	7,380	4,620	-	-	12,000	3,000
Bay Area Clean Water Agencies	CAR-BACWA Website Development/	35,000	(345)	345	500	-	7,655	345	500	-	8,500	26,500
Bay Area Clean Water Agencies	AS-BACWA Admin Expense	15,000	-	-	-	-	-	-	346	-	346	14,654
Bay Area Clean Water Agencies	CAR-Other Communications	5,000	-	-	-	-	-	-	-	-	-	5,000
Bay Area Clean Water Agencies	SP-BAPPG Contribution	50,000	-	-	-	-	-	-	-	-	-	50,000
Bay Area Clean Water Agencies	GBS-Contingency	46,000	-	-	-	-	-	-	-	-	-	46,000
Bay Area Clean Water Agencies	GBS- Meeting Support	17,000	912	88	-	-	912	88	920	-	1,920	15,080
Bay Area Clean Water Agencies	AS-Executive Director	135,500	-	-	-	-	128,107	10,833	-	-	138,940	(3,440)
Bay Area Clean Water Agencies	AS-Assistant Executive Directo	70,000	(4,433)	4,433	-	-	63,767	4,433	-	-	68,200	1,800
Bay Area Clean Water Agencies	AS-EBMUD Administrative Servic	40,000	-	-	-	-	-	-	-	-	-	40,000
Bay Area Clean Water Agencies	AS-Insurance	5,000	-	-	-	-	-	-	-	-	-	5,000
<b>BACWA TOTAL</b>		<b>624,000</b>	<b>1,865</b>	<b>11,135</b>	<b>500</b>	<b>-</b>	<b>305,941</b>	<b>21,969</b>	<b>6,766</b>	<b>-</b>	<b>334,676</b>	<b>289,324</b>
AIR-Air Issues&Regulation Grp	BDO Administrative Expense	4,040	-	-	-	-	-	-	-	-	-	4,040
AIR-Air Issues&Regulation Grp	BDO Contract Expenses	80,790	-	-	-	-	79,557	28,728	-	-	108,285	(27,495)
<b>AIR TOTAL</b>		<b>84,830</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>79,557</b>	<b>28,728</b>	<b>-</b>	<b>-</b>	<b>108,285</b>	<b>(23,455)</b>
BAPPG-BayAreaPollutnPreventGrp	BAPPG-CE-Fog	20,800	-	-	-	-	-	-	-	-	-	20,800
BAPPG-BayAreaPollutnPreventGrp	BAPPG-CE-Mercury	8,500	-	-	-	-	7,040	-	-	-	7,040	1,460
BAPPG-BayAreaPollutnPreventGrp	BAPPG-CE-Pesticides	10,000	-	-	-	-	-	-	-	-	-	10,000
BAPPG-BayAreaPollutnPreventGrp	BAPPG-CE-Copper	9,000	-	-	-	-	3,960	-	-	-	3,960	5,040
BAPPG-BayAreaPollutnPreventGrp	BAPPG-CE-Pharmaceutical	7,499	-	-	-	-	-	-	-	-	-	7,499
BAPPG-BayAreaPollutnPreventGrp	BAPPG-CE-General P2	1,500	-	-	-	-	-	-	-	-	-	1,500
BAPPG-BayAreaPollutnPreventGrp	BAPPG-CE-Emerging Issues	8,000	-	-	-	-	-	-	-	-	-	8,000
BAPPG-BayAreaPollutnPreventGrp	BAPPG-CE-Other	11,000	-	-	-	-	-	-	-	-	-	11,000
BAPPG-BayAreaPollutnPreventGrp	BDO Administrative Expense	3,815	-	-	-	-	-	-	-	-	-	3,815
<b>BAPPG TOTAL</b>		<b>80,114</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>11,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>11,000</b>	<b>69,114</b>

## BACWA Expense Report for August 2011

DEPARTMENT	EXPENSE TYPE	AMENDED BUDGET	CURRENT PERIOD				YEAR TO DATE				OBLIGATED	UNOBLIGATED
			ENC	PV	DA	JV	ENC	PV	DA	JV		
WQA-WtrQualityAttainmntStratgy	WQA-CE-Technical Support	214,600	(1,305)	1,305	-	-	79,113	30,907	-	-	110,021	104,579
WQA-WtrQualityAttainmntStratgy	WQA-CE-Collaborations & Sponso	77,000	-	-	40,000	-	-	-	40,000	-	40,000	37,000
WQA-WtrQualityAttainmntStratgy	WQA-CE-Commun. & Reporting	70,000	(12,000)	-	-	-	37,000	-	-	-	37,000	33,000
WQA-WtrQualityAttainmntStratgy	WQA-CE-Other	90,000	-	-	-	-	-	-	-	-	-	90,000
<b>WQA CBC TOTAL</b>		<b>451,600</b>	<b>(13,305)</b>	<b>1,305</b>	<b>40,000</b>	<b>-</b>	<b>116,113</b>	<b>30,907</b>	<b>40,000</b>	<b>-</b>	<b>187,021</b>	<b>264,579</b>
WOT - Wtr/Wwtr Operat Training	BDO Administrative Expense	2,500	-	-	-	-	-	-	-	-	-	2,500
WOT - Wtr/Wwtr Operat Training	BDO Contract Expenses	140,000	-	-	-	-	-	-	-	-	-	140,000
<b>WOT TOTAL</b>		<b>142,500</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>142,500</b>
Prop50BayAreaIntegRegnlWtrMgmt	BDO Administrative Expense	-	(157)	157	-	-	1,843	157	-	-	2,000	(2,000)
Prop50BayAreaIntegRegnlWtrMgmt	BDO Contract Expenses	-	-	-	-	-	58,312	-	-	-	58,312	(58,312)
Prop50BayAreaIntegRegnlWtrMgmt	Contra Costa Regional Intertie	-	-	-	-	-	-	-	50,000	-	50,000	(50,000)
Prop50BayAreaIntegRegnlWtrMgmt	Regional Conservation	-	-	-	-	-	-	-	18,500	-	18,500	(18,500)
Prop50BayAreaIntegRegnlWtrMgmt	EBMUD Richmond RWP	-	-	-	-	-	-	-	212,760	-	212,760	(212,760)
Prop50BayAreaIntegRegnlWtrMgmt	South Bay Advanced Regional RW	-	-	-	-	-	-	-	5,786	-	5,786	(5,786)
Prop50BayAreaIntegRegnlWtrMgmt	Alameda Creek Phase 2 Fish	-	-	-	-	-	-	-	60,469	-	60,469	(60,469)
<b>PRP50 TOTAL</b>		<b>-</b>	<b>(157)</b>	<b>157</b>	<b>-</b>	<b>-</b>	<b>60,155</b>	<b>157</b>	<b>347,515</b>	<b>-</b>	<b>407,828</b>	<b>(407,828)</b>



## BACWA EXECUTIVE BOARD ACTION REQUEST

AGENDA NO.: 10

FILE NO.: 12,604

MEETING DATE: November 17, 2011

### TITLE: Support for North Bay Watershed Association Conference

☒ MOTION \_\_\_\_\_ ☐ RESOLUTION \_\_\_\_\_

### RECOMMENDED ACTION

Authorize the support for the North Bay Watershed Association's 2012 Conference: *Climate Change: Are we Ready?* in the amount of \$1,500, in the Fiscal Year 2011-2012.

### SUMMARY

The North Bay Watershed Association (NBWA) is a group of 16 regional and local public agencies located throughout Marin, Sonoma, and Napa counties, and includes a number of BACWA members. The NBWA was created to help regulated local and regional public agencies work cooperatively on water resources issues that impact areas beyond traditional boundaries in order to promote stewardship of the North Bay watershed. Agencies participate in the NBWA in order to discuss issues of common interest, explore ways to work collaboratively on water resources projects of regional concern, and share information about projects, regulations, and technical issues.

The NBWA has an annual conference in April of every year and, with the exception of last year, BACWA has provided approximately \$1,500 to sponsor this conference. This year's conference theme is climate change and will feature speakers addressing impacts to wastewater infrastructure.

### FISCAL IMPACT

For the Fiscal Year 2011 – 2012, BACWA budgeted \$10,000 for unanticipated collaborations and sponsorships. To date, \$1,000 has been committed, leaving \$9,000 for this and future opportunities.

### ALTERNATIVES

This action does not require consideration of alternatives.

Submitted: \_\_\_\_\_

Executive Director Approval: /s/ Amy Chastain



## BACWA EXECUTIVE BOARD ACTION REQUEST

AGENDA NO.: 11

FILE NO.: 12,605

MEETING DATE: November 17, 2011

### TITLE: Whole Effluent Toxicity Expert Assistance & Regional Workgroup

☒ MOTION \_\_\_\_\_ ☐ RESOLUTION \_\_\_\_\_

### RECOMMENDED ACTIONS

1. Consider retaining Dr. Dan Gallagher to provide assistance reviewing and commenting on the State's draft Whole Effluent Toxicity (WET) Policy.
2. Establish the scope of and participation in a WET regional workgroup, and allocate funding for expert assistance in conducting a review of TIE/TREs.

### SUMMARY

In 2010 the State Water Resource Control Board (State Board) issued a draft Whole Effluent Toxicity Policy intended to standardize the regulation of toxicity across the state of California. After substantial comments from the clean water community and others, the State Board indicated its intent to revise the policy and issue a second draft in late 2011 or 2012. A BACWA workgroup has been working closely with CASA to develop comments regarding our concerns about the policy, and to develop alternatives to the permit implementation scheme in the policy. BACWA has also been communicating regularly about this issue with the Regional Water Board and, in an October joint meeting with Regional Water Board staff, committed to (1) identifying issues on which the clean water community and the Regional Water Board are aligned, and (2) developing a regional strategy for WET testing that includes an evaluation of TIE/TRE procedures and studies to determine the feasibility of elimination of acute toxicity limits, or allowance of dilution in calculating those limits.

As a first step, BACWA sent to the Regional Water Board a list of concerns and questions regarding the State policy on which there appeared agreement. A copy of this correspondence is attached. The next step is to establish a workgroup to develop acute implementation alternatives, evaluate current TIE/TRE practices, and recommend improvements to testing procedures. A proposed scope of work with the workgroup is attached.

### FISCAL IMPACT

The fiscal impact of this action will be determined by the Board. Currently, BACWA has \$70,000 in contingency funds for CBC/WQAS. BACWA also has approximately \$95,000 budgeted for projects that have not yet been initiated that could be used for this purpose.

### ALTERNATIVES

This action does not require consideration of alternatives unless the Board authorizes a scope of work with any consultant that is equal to or greater than \$50,000.

#### *Attachments:*

1. October 25, 2011 email correspondence regarding the State Board policy.
2. Draft Proposal for regional WET workgroup.

## Amy Chastain

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**From:** Lila Tang [LTang@waterboards.ca.gov]  
**Sent:** Tuesday, October 25, 2011 2:05 PM  
**To:** Amy Chastain  
**Cc:** MOrr@centralsan.org; lpagano@sflower.org; Naomi Feger; Bill Johnson  
**Subject:** Re: Whole Effluent Toxicity Requests for Clarification

Hi Amy - We are in general agreement on all points though we need to work on the last point about IWC. Naomi was able to check with State Board staff on the items we discussed. What she learned and my comments on your summary points are below. Sorry for the delay in responding.

From: Amy Chastain <[achastain@bacwa.org](mailto:achastain@bacwa.org)>  
To: 'Naomi Feger' <[NFeger@waterboards.ca.gov](mailto:NFeger@waterboards.ca.gov)>, 'Lila Tang' <[LTang@waterboards.ca.gov](mailto:LTang@waterboards.ca.gov)>, 'Bill Johnson' <[WJohnson@waterboards.ca.gov](mailto:WJohnson@waterboards.ca.gov)>  
CC: <[MOrr@centralsan.org](mailto:MOrr@centralsan.org)>, <[lpagano@sflower.org](mailto:lpagano@sflower.org)>  
Date: 10/18/2011 8:58 AM  
Subject: Whole Effluent Toxicity Requests for Clarification

Naomi, Lila & Bill,

Below are some requests for changes and clarifications on which I think we all agreed at last week's meeting. These are rough and based mainly on my notes, but hopefully are sufficient to get us started. Please review and let me know if I missed anything. I'm still wading through the copious notes from our meeting but hope to have a list of action items/next steps ready to share by the end of the week.

Amy

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### 1. Water Quality Objectives

The draft policy states that the objectives apply to all inland surface waters, enclosed bays, and estuaries. Will these objectives replace existing Basin Plan objectives or supplement them? Must all Basin Plans include acute objectives, even if the applicable RWQCB decides not to implement them in permits?

RWB: State Board staff indicate that the objectives do not replace the Regions' narrative objectives, so I believe this means the proposed objectives supplement the BP's objectives.

### 2. Reasonable Potential/Numeric Limits

The policy states that RPA must be conducted for chronic toxicity for all dischargers, but that RPA for acute is optional. However, the policy then states that major POTWs are "classified" as having RP for both chronic and

acute. Classification of majors as having RP for acute is contrary to granting RWQCB discretion to require RPA for acute and suggests that numeric limits for acute are automatically required for all major POTWs.

RWB: State Board staff acknowledge that the policy could be more clear about not presuming RP for acute tox. We're open to working with BACWA to make this part of the policy more flexible on this issue. Margaret had suggested a simple change that would accomplish this.

### 3. Test Species

Freshwater organisms are required for permittees discharging to waters with a salinity of less than 1,000 mg/L. Allow the use of freshwater test methods for estuarine receiving waters with salinities greater than 1,000 mg/L consistent with the California Toxics Rule for specific toxic pollutants.

RWB: We had provided similar comments to State Board staff, and they indicated they would be OK with the suggested change.

### 4. Violations

Clarify that test failures during routine monitoring are not violations. Violations of effluent limits should be based only on multiple test results.

RWB: We had provided a comment to State Board staff. They indicated that they have also met with CASA/TriTAC who put forth suggestions that State Board staff are considering.

### 5. IWC

Revise the Numeric Effluent Limitation provision to clarify toxicity effluent limits will be based on IWC, not the SIP.

RWB: I believe the SIP does provide good working principles that will guide us in determining an IWC (or mixing). Without some established principals, there would be no fairness or consistency in how IWCs are set. As I had suggested to the State Board staff, changes to the toxicity policy that would clarify that not all of the SIP would apply, specifically those parts that go into calculation of effluent limits. I'd be interested in seeing what changes BACWA would suggest.

---

Amy J. Chastain, Executive Director

Bay Area Clean Water Agencies <<http://www.bacwa.org/>>

A joint powers public agency

**DRAFT**  
**WHOLE EFFLUENT TOXICITY WORKGROUP**

*Members:* Permits Committee Representative, Laboratory Committee Representative, Executive Board Representative, Executive Director, Regional Water Board staff designees, expert consultants as needed.

*Tasks:*

1. Review second draft of WET policy and identify changes necessary to maintain implementation flexibility.
2. Evaluate and Improve Testing Procedures:
  - a. Summarize current testing procedures in the region, including use of species, frequency of testing, permit limits, and recent toxicity identification and reduction evaluations.
  - b. To the extent possible, make recommendations for improvements in and standardization of testing and procedures.
3. Develop a regional approach to protect against acute toxicity.
  - a. Evaluate the need for acute toxicity limits to protect receiving waters.
  - b. Evaluate the feasibility of using dilution in the calculation of effluent limits.

*Budget*

To be determined by the BACWA Executive Board.



## BACWA EXECUTIVE BOARD ACTION REQUEST

AGENDA NO.: 12

FILE NO.: 12,607

MEETING DATE: November 17, 2011

### TITLE: Electronic Reporting System Database Management Proposal

☒ MOTION \_\_\_\_\_ ☐ RESOLUTION \_\_\_\_\_

### RECOMMENDED ACTION

Consider whether to fund one or more of the Electronic Reporting System (ERS) preservation and access tasks scoped by the San Francisco Estuary Institute (SFEI).

### SUMMARY

For more than a decade, the Regional Water Board has required POTWs to electronically submit their effluent monitoring data to a regional database, ERS, maintained by staff member Johnson Lam. In early 2011 the Regional and State Water Board required POTWs to also begin reporting to the State's electronic Self-Monitoring Reporting system (e-SMR). The first POTWs began submitting data to e-SMR in April and the last will be submitting data by December. Johnson Lam retired in May and, concurrently, the ERS database ceased to be used for uploading discharger data.

Data contained in the ERS database has not been transferred to e-SMR. Data for agencies that began reporting before May 31 has been entered into either ERS or e-SMR. Data for agencies that began reporting after May 31 were required to submit hard copy results and data for this period does not exist in either database.

Data from ERS has been used for a number of different purposes, including calculating Regional Monitoring Program (RMP) dues, calculating BACWA CBC/WQAS dues, conducting reasonable potential analyses and, preparing loading summaries. Because of the lack of continuity in the database, performing these actions will be more challenging than in the past.

In order to ensure that the historic ERS data is preserved and accessible and to investigate options for ensuring ease of access to regional effluent data, BACWA worked with SFEI to develop the attached potential scope of work. The tasks range from merely preserving historic ERS data to creating an integrated and web-accessible database. They include the following

- Task 1. Create a centralized, queryable database using historic ERS data (est. \$10,000).
- Task 2. Provide web-based access to the database (est. \$35,000).
- Task 3. Add 2011 data to database (est. \$10,000).
- Task 4. Establish mechanism to regularly combine CIWQS discharger data (May 2011 onwards) with historical ERS data (est. \$13,000).
- Task 5. Server maintenance (est. \$3,000).
- Task 6. Project documentation (est. \$3,000).
- Task 7. Project management (est. \$1,600).

### FISCAL IMPACT

The fiscal impact of this action will be determined by the Board. Currently, BACWA has \$70,000 in contingency funds for CBC/WQAS. BACWA also has approximately \$95,000 budgeted for projects that have not yet been initiated that could be used for this purpose.

## **ALTERNATIVES**

This action does not require consideration of alternatives unless the Board authorizes a scope of work with any consultant that is equal to or greater than \$50,000.

### *Attachment:*

1. EOA Contract Status Update

## Status of EOA BACWA NPDES Reporting Assistance Contract Tasks (11/02/11)

### Task 1.a. Participate in monthly eSMR User Group

- Varies from region to region what data (in addition to effluent) is submitted to CIWQS through data entry or as attachments. The CIWQS database cannot handle anything other than water matrix (e.g. biosolids).
- New codes for PCB congener co-elution are still being worked on.
- CIWQS release version 7.2 will contain modified reporting functions to better reflect what permits require.
- The State Board has an EPA grant to transmit DMR data electronically to the EPA. The State Board is adding a new tab to CIWQS eSMR. Users will need to **separately** upload DMR data to this new tab. (i.e. the data, and likely format, of the DMR electronic file will be different from the analytical data currently uploaded to CIWQS. Users will likely need to create a different, separate electronic file to upload DMR data.) Testing will begin in January 2012. POTWs will still need to submit paper DMRs until they are notified the eSMR transfer utility is working.
- An email was sent requesting input on two different options for how DMR data is uploaded and edited. Feedback was requested by November 3<sup>rd</sup>.

#### Option A

The file that is uploaded containing some or all of the DMR data is stored and accessible. It populates the appropriate expectations. Additional files may be uploaded, but any uploads that contain duplicative or conflicting data (such as two average monthly BOD values) will not be allowed to be uploaded. Deleting a file will delete all data that is uploaded in that file. Web interface editing of uploaded data is not allowed.

#### Option B (Recommended by EOA)

The file that is uploaded containing some or all of the DMR data is not stored and made accessible. The file is used to populate the appropriate expectations but then not saved. If duplicative or conflicting data (such as two average monthly BOD values) are uploaded, the one that is uploaded most recently will be retained.

Since there is no file to delete, you cannot delete the file to remove all data what is uploaded in that file. Web interface editing of uploaded data is allowed.

- Next SWB eSMR User Group webcast meeting is November 16<sup>th</sup> at 10 am.
- There will be a CIWQS Reporting discussion topic at the December BACWA Permits Meeting. Many agencies in the Bay Area are reporting their effluent monitoring data to the State's CIWQS database now that the regional database, ERS, is no longer active. The December Permits meeting will feature a discussion of the transition and the tools that agencies have used to manage it. Representatives have been requested to attend and share information about each agency's experiences and to hear from those who have successfully navigated the transition.

**Task 1.b. Coordinate with SFEI for several options related to potential housing, maintenance, and use of the Regional Water Board's ERS**

- Met with SFEI staff and Amy Chastain to review the ERS program, data and background.
- Obtained the "Master" ERS data file from Regional Board and provided a copy to SFEI.
- Reviewed SFEI ERS Data Management Proposal
- Recommend BACWA consider approving funding (<\$10,000) for SFEI Task 1 (create centralized queryable database) by December 2011. Subsequent tasks could potentially be considered for funding through the RMP (not currently in RMP 2012 workplan so would have to come out of contingency funds or be deferred for 2013 consideration).
- The majority of any individual discharger ERS data requests would come during the January/February 2012 reporting period. Annual data summaries are typically required for NPDES, Pollution Prevention and/or Pretreatment Annual Reports. If the task is not approved before this time period the usefulness to individual discharges decreases and the ERS "Master" data file will likely only be used by researchers or Water Board staff in the future for regional studies (e.g. requesting available nutrient data from POTWs discharging to the Bay).

**Task 1.c. Investigate alternative approaches to produce 2011 Annual SMRs**

- Attachment G *Regional Standard Provisions, and Monitoring and Reporting Requirements* V.C.1.h(3) Annual Reporting Requirements states: "Dischargers who have submitted data using the ERS for at least once calendar year are exempt from submitting the portion of the annual report required under Section V.C.1.f(1) and (3)."
  - Section V.C.1.f(1) Annual compliance summary table of treatment plant performance including documentation of any blending events;
  - Section V.C.1.f(3) Both tabular and graphical summaries of the monitoring data for the previous year if parameters are monitored at a frequency of monthly or greater;
- The April monthly SMRs were the last reports to be submitted electronically to the ERS. The transition to electronically submitting SMRs to CIWQS is being phased in with four groups of POTWs. Only the first group of POTWs has a potentially continuous electronic submittal of SMRs. The remaining groups will have varying degrees of the number of months in 2011 where data was not submitted electronically.
- Suggest that BACWA schedule a meeting or conference call with appropriate RWB staff to clarify expectations about what information needs to be included in 2011 Annual Reports by dischargers who have not been submitting to CIWQS for all of 2011. BACWA may then want to assist RWB staff in preparing a 2011 Annual Report guidance memo or letter.

**Task 1.d. Investigate mechanism for accessing and downloading eSMR data on a discharger and regional basis**

- Investigation in process.



## BACWA EXECUTIVE BOARD ACTION REQUEST

AGENDA NO.: 13

FILE NO.: 12,607

MEETING DATE: November 17, 2011

### TITLE: Suisun Bay Ammonia: CCCSD Permit and Research

☒ MOTION \_\_\_\_\_ ☐ RESOLUTION \_\_\_\_\_

### RECOMMENDED ACTION

Consider the following:

1. Expert assistance for development of BACWA comments on the Central Contra Costa Sanitary District permit.
2. Discuss future participation in and support for Suisun Bay research.

### SUMMARY

Impacts related to the discharge of ammonia were cited by the Central Valley Regional Water Board as bases for requiring the Sacramento County Regional Sanitation District (SCRSD) to fully nitrify and denitrify its effluent. These potential impacts were recently raised in a comment letter on the Central Contra Costa Sanitary District tentative order sent by several water agencies to the San Francisco Bay Regional Board. That comment letter urges the Regional Board to consider requiring CCCSD to nitrify its effluent and cites the following potential aquatic life beneficial use impacts as justification: (1) ammonia's toxicity on copepods (Dr. Teh), (2) inhibition of nitrate uptake by diatoms in the presence of ammonia concentrations above 4 micromolar (Dr. Dugdale), and (3) shifts in the algal community by changed N:P ratios to favor the establishment of invasive species (Dr. Glibbert).

BACWA did not submit comments on the CCCSD draft permit, therefore, any written comments submitted by BACWA can only become part of the record if the Regional Water Board exercises its discretion to allow it. Considering the substantial issues raised by the water agencies, BACWA hopes that the Regional Water Board would allow our comments into the record. Even if they do not, these comments will assist BACWA in developing oral testimony at an adoption hearing and in developing a common understanding of the technical arguments raised.

The second issue – inhibition of nitrate uptake by diatoms – has been the focus of a Surface Water Ambient Monitoring Program (SWAMP) funded study lead by Karen Taberski that has provided funding to the Romberg Tiburon Center's Dr. Dick Dugdale. Last year CCCSD, BACWA and the State and Federal Water Contractors Agency (Water Contractors) became involved in the study as well. BACWA provided \$50,000 to fund water chemistry analyses to identify other potential causes of toxicity. CCCSD provided more than \$100,000 to add a monitoring station and also fund chemistry analyses. The Water Contractors have undertaken a number of different studies including the development of a bench TIE to identify ammonia as a cause of toxicity. This group will be meeting in December to discuss research and funding plans for next year.

### FISCAL IMPACT

Suisun Bay Ammonia  
November 17, 2011

The fiscal impact of this action will be determined by the Board. Currently, BACWA has an additional \$70,000 in contingency funds for CBC/WQAS. BACWA also has approximately \$95,000 budgeted for projects that have not yet been initiated that could be used for these purposes.

## **ALTERNATIVES**

This action does not require consideration of alternatives unless the Board authorizes a scope of work with any consultant that is equal to or greater than \$50,000.

### *Attachments:*

1. Suisun Bay Meeting Notes

# Meeting Notes

Subject:	Suisun Bay SWAMP Meeting		
Client:	BACWA		
Project:	BACWA Nutrient Strategy	Project No:	-170241
Meeting Date:	September 29, 2011, 9 am – 1 pm	Meeting Location:	RWQCB (Region II), Oakland, CA Office
Attendees:	RWQCB (Region II): Karen Taberski (KT); Naomi Feger (NF); Annika Anderson (AA) Tiburon Research Center: Alex Parker (AP); Dick Dugdale (DD) CCCSD: Bhupinder; Margaret Orr (MO) TIEs: Val Conner (VC); Jeff Miller (JM) Analysis: Mike Johnson (MJ) BACWA: Amy Chastain (AC) HDR: Michael Falk (MF)		
Notes by:	Michael Falk, via conference call		

## Summary

1. The meeting focused on this season's sampling results, and in particular, the role of ammonia inhibition on nitrate uptake in Suisun Bay.
2. Results
  - Analysis Concerns – There is uncertainty over whether the samples were filtered. This is critical as particulate matter can interfere with analysis and in turn create misleading results.
  - Metals – Do not appear to be significant. However, there appears to be some QA/QC issues that will need to be resolving prior to next years sample season.
  - Pesticides – Overall, they do not appear to be significant. The only pesticide that received additional discussion was diuron as its levels exceeded normal levels.
  - Surfactants - Do not appear to be significant.
3. Methods
  - The TIEs method development results suggest that SWAMP should question the EPA methodology. The approach was wrought with sample interference throughout which in turn required adjustments in the method analysis.
  - Use of Dugdale's phytoplankton analysis is recommended as the method of choice amongst Romberg Tiburon Center (RTC).
4. Overall, there does not appear to be a clear direction with the group. The scientists involved are interested in resolving the role of ammonia on the inhibition of nitrate uptake on phytoplankton in the Suisun Bay. There was little or no discussion on causation. In contrast, other participants are interested in determining the impact of ammonia loads from dischargers on phytoplankton within Suisun Bay.
5. Next steps: There will be a follow-up meeting scheduled over the next few months to determine plans for next year. The analysis will be further along at that point, which will foster additional discussion.

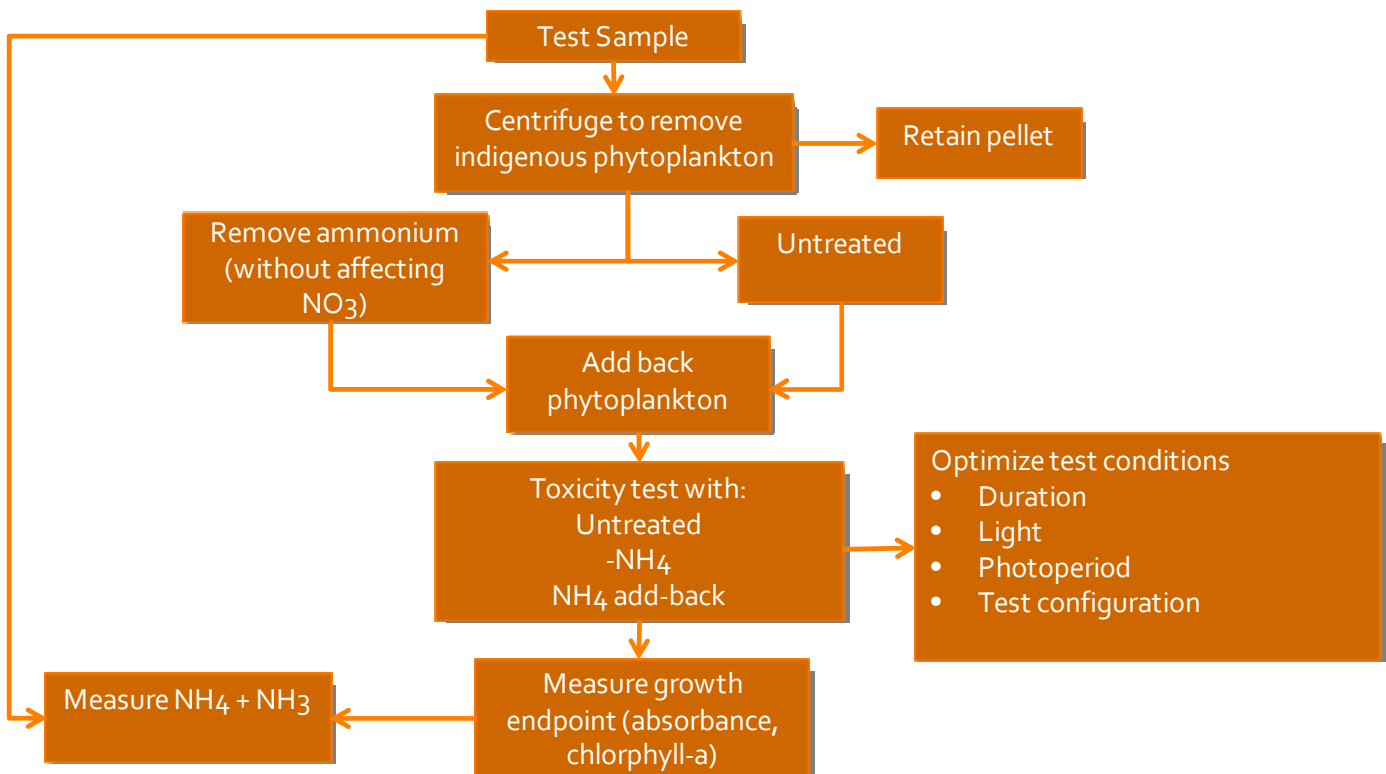
## Action Items

1. HDR: Mike Falk to contact Karen Taberniski about resolving the objective(s) that SWAMP is trying to address.
2. HDR: Mike Falk to attend the next SWAMP meeting in late Fall.
3. BACWA: Decide whether BACWA should continue to send participants to SWAMP meetings.
4. BACWA: Decide whether to continue funding and participating in SWAMP

## Topics Discussed

1. KT Discussed the Ground Rules and Overall Agenda for the Meeting (Appendix A)
2. Current RTC Studies by AP
  - a. AP provided an overview of work performed at RTC. Microcystis events began in 1999 and their abundance has expanded over time. The study focused on the physical/chemical parameters that influence microcystis plumes. Temperature and light have been found to be the primary players.

- i. Study just started that will expand upon the corollary based results to mechanistic based results. Additionally, they want to know what governs release of toxins (i.e., gene expression) released by microcystis.
  1. They had 12 days on the water this season and analyzing today
  2. In 2010 (absent), whereas in 2011, microcystis was present, albeit it had a late start due to high Delta flows
  3. Microcystis plumes were present at 5 out of the 6 sampling sites (all except McCaulumy River).
- ii. Samples taken upstream/downstream of Sac Reg WWTP (low level N upstream)
3. Toxicity Identification Evaluation (TIE) Methodology by VC/JM (see Appendix B for presentation)
  - a. Objectives:
    - i. Confirm ammonium inhibition of phytoplankton growth
    - ii. Determine if other toxicants are present and identify the toxicants
  - b. The traditional process is 3 stages that involve identification of compounds that cause toxicity, method development, and experiments. Details on the process can be found in the agenda packet provided by VC/JM.
  - c. VC/JM broke up the process into 5 phases for the role of ammonium inhibition on phytoplankton growth.
  - d. A graphic was provided that highlights the steps associated with isolating the role of ammonium inhibition.



**Figure 1. Flow Chart for TIEs Methodology on Phytoplankton in Suisun Bay.**

- e. Details on the testing issues for each stage can be found in the Appendix C.
- f. What to Measure in the Future

- i. Salinity
  - 1. Reducing rivers flows increases salinity and also reduces C availability
- ii. Ammonia
  - 1. The slug of ammonia is apparent in the Sac River (about 20 uM), but not in the San Joaquin River (about 5 uM)
  - 2. To test for ammonia inhibition, we need to run the ambient samples through the phytoplankton samples
    - a. This is essential due to remarks made at the June 29<sup>th</sup> RMP meeting that said ammonia is toxic to SF Bay.
  - 3. RTC has been working on the impact of dilution (dry versus wet season)
    - a. If ammonia is pre-dominant form of N, the nitrate washes out. If nitrate is dominant, then toxic forms of blooms are a concern.
  - 4. Are we trying to say causation? The fear is that we claim toxicity from ammonia but the results do not always support this claim.
- iii. Salinity
  - 1. This would tie in the flows
- iv. Sulfate
  - 1. Sulfate might be of interest and it might play as significant a role as ammonia.

#### 4. SWAMP Results

- a. Ammonia analysis - Each labs error bars vary
  - i. For the levels encountered (0.15-0.30 uM), the impact of error bars is on the order of 0.01 uM so it is considered insignificant.
- b. Diuron analysis is based on cancer causing probability levels, not ecosystem toxicity
- c. No surfactants were measured within any of the samples (MBAX measured)
  - i. Were the samples filtered? Not sure.
- d. Pesticides
  - i. USGS measured considerably more pesticides
- e. Metals
  - i. Range of concentrations
  - ii. Dealing with low levels is problematic (in particular dissolved). This was especially problematic for the first 5 cruises.
  - iii. Field control was contaminated. The sample was not preserved with nitric acid. This might want to be improved next year.
    - 1. The bottles were PE pre-cleaned bottles provided by CCCSD.
    - 2. AP spoke with specialists and they feel the data was contaminated with tainted acid. This is unclear though as not all samples are contaminated.
    - 3. The number of field blanks that were contaminated versus the lab blanks is the concern (AP).
      - a. To resolve, we need to determine which potential tainted chemical(s) from the lab. To do this, we need to determine which chemicals were used for each analysis as a starting point.
      - b. Lab blanks were not filtered.

- c. Different lab jugs used on the boat.
    - d. Discussion ensured to isolate the potential contaminant
  - f. Nutrients
    - i. Field control was contaminated like the metal samples.
    - ii. Concerns over QA/QC are apparent, but not as striking as the metals.
  - g. Auto-Sampler Results (Dick Dugdale's)
    - i. Discussion digressed and not much fruitful discussion came about. The next meeting should focus more on the results.
    - ii. Future changes
      - 1. Add a control station in Central Bay
  - h. Future Work
    - i. The decision has been made to perform the study again next year.
- 5. Next Steps
  - a. A follow-up meeting with the group over the next few months would be worthwhile. The analysis will be further along, which will foster additional discussion.
  - b. The group is considering hosting a local conference. Ideally, they would like to include RTC, BACWA, etc.

## Report to BACWA Board from AIR Committee (November 2011)

<b>Document Control</b>	Prepared by Divya Bhargava (Project Engineer) Reviewed by Randy Schmidt (Committee Chair)
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<b>Committee Request for Board Action</b>	None at this time.
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<b>Committee Agenda Items</b>	None at this time.
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### Recent Committee Actions:

<b>Recent Committee Actions</b>	<ul style="list-style-type: none"> <li>Last Committee Meeting was held on July 20, 2011 at SFPUC's Oceanside Wastewater Treatment Plant Site</li> </ul>
<b>AIR Website</b>	<a href="http://bacwa.org/Committees/AirIssuesRegulations.aspx">http://bacwa.org/Committees/AirIssuesRegulations.aspx</a>

### News and Updates:

<b>CARB: Adoption of Cap and Trade</b>	<ul style="list-style-type: none"> <li><u>October 20, 2011</u>: CARB adopted the final cap-and-trade regulation (C&amp;T), putting into place another key element of the state's pioneering climate plan <ul style="list-style-type: none"> <li>Regulation which has been in development for the past 3 years has been finalized</li> <li>Program will now join a suite of other major measures including standards for ultra-clean cars, low-carbon fuels and renewable electricity</li> <li>Program also complements and supports California's existing efforts to reduce smog-forming and toxic air pollutants and improve energy efficiency in homes and businesses</li> </ul> </li> <li>The first compliance year when covered sources will have to turn in allowances is 2013.</li> <li>By 2020 the state will reach the equivalent of the 1990-level of greenhouse emissions, as required under AB 32, California's climate change legislation.</li> <li>To ensure a gradual transition, CARB will provide the majority of allowances to all industrial sources during the initial period (2013-2014), using a calculation that rewards the most efficient companies</li> <li>Those that need additional allowances to cover their emissions can purchase them at regular quarterly auctions CARB will conduct, or buy them on the market.</li> <li>The first auctions of allowances (for 2013 allowances) are slated for August and November 2012.</li> <li>The regulation includes rigorous oversight and enforcement provisions, and is designed so that California may link up with programs in other states or provinces within the Western Climate Initiative, including British Columbia, Ontario and Quebec.</li> </ul> <p><u>Impact to POTWs</u></p> <ul style="list-style-type: none"> <li>POTWs are not currently listed as a capped sector. In addition, no BACWA members exceed the 25,000 Metric Ton CCO<sub>2</sub>e threshold that would place them under the cap as a large combustion source.</li> <li>CWCCG is researching the options under the new program that would allow POTWs who utilize digester gas generate carbon credits for sell to facilities obligated to comply with C&amp;T.</li> </ul>
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## Report to BACWA Board from AIR Committee (November 2011)

For more information	<a href="http://arb.ca.gov/cc/capandtrade/capandtrade.htm">http://arb.ca.gov/cc/capandtrade/capandtrade.htm</a>
<b>Sustainable Communities Planning Grant and Incentive Program 2011</b>	<ul style="list-style-type: none"> <li>• Strategic Growth Council and Department of Conservation (DOC) has released the round two Sustainable Communities Planning Grant RFPs funded through the Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Act of 2006 (Proposition 84). <ul style="list-style-type: none"> <li>- DOC has allocated approximately \$18 million of Proposition 84 funds for round two.</li> <li>- The grants awarded from this solicitation will cover up to a three-year project period.</li> <li>- Grant requests for amounts from \$100,000 to \$1,000,000 will be considered.</li> </ul> </li> <li>• The funds awarded will support development, adoption, and implementation of Sustainable Community planning elements throughout the State, including, but not limited to, Climate Action Plans and General Plan amendments.</li> <li>• DOC is utilizing the State Water Resources Control Board (State Water Board) Financial Assistance Application Submittal Tool (FAAST) system to facilitate the application and review process, and to conserve paper. <ul style="list-style-type: none"> <li>- The application process through the FAAST system can be accessed through the link: <a href="https://faast.waterboards.ca.gov">https://faast.waterboards.ca.gov</a></li> <li>- Application deadline: <u>February 15, 2012</u></li> </ul> </li> </ul>
For more information	<a href="http://www.sgc.ca.gov/meetings/20111102/pgip-guidelines-2011.pdf">http://www.sgc.ca.gov/meetings/20111102/pgip-guidelines-2011.pdf</a> .

Next AIR  
Committee  
Meeting:

Wednesday, January 18, 2012  
Venue: TBD