



S A W P A

SANTA ANA WATERSHED PROJECT AUTHORITY
11615 Sterling Avenue, Riverside, California 92503 • (951) 354-4220

COMMISSION WORKSHOP/MEETING TUESDAY, OCTOBER 1, 2013 – 9:30 A.M.

AGENDA

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE (Phil Anthony, Chair)
2. ROLL CALL
3. PUBLIC COMMENTS

Members of the public may address the Commission on any item that is within the jurisdiction of the Commission; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) Section 54954.2 of the Government Code.

4. WORKSHOP DISCUSSION AGENDA

A. THE COMMUNITY INDICATORS REPORT – 2012.....5

Presenters: Pete Aguilar, Mayor of Redlands/ The Community Foundation
Jose Marquez, The Community Foundation

Recommendation: Receive and file.

B. BDCP COLLABORATIVE PUBLIC OUTREACH

- Regional BDCP Outreach Efforts

Presenters: Roxanne Roundtree, EMWD
Michelle McKinney Underwood, WMWD

- The Big Picture: BDCP Public Outreach Strategy

Presenter: Tom Philip, MWD

NOTE: EMWD and WMWD are jointly coordinating BDCP Public Outreach in Western Riverside County, and are in close communication with SCWC and MWD. These efforts are a small component of a much larger State level education effort.

Recommendation: Receive and file.

5. NEW BUSINESS

A. INLAND EMPIRE BRINE LINE PRETREATMENT PROGRAM SUPPORT (CM#8805).....9

Presenter: Rich Haller

Recommendation: Authorize the General Manager to issue Change Order No. 1 to Task Order No. EOA240-01 with Eisenberg, Olivieri & Associates (EOA) for a total not-to-exceed amount of \$30,000 for support of Pretreatment Program activities and the Remedial Plan response.

6. OLD BUSINESS

A. PRETREATMENT PROGRAM STATUS UPDATE

- Remedial Plan
- Staffing

Presenter: Rich Haller

Recommendation: Receive and file the Update.

B. OWOW UPDATE.....27

Presenter: Mark Norton

Recommendation: Receive and file.

7. CONSENT CALENDAR

All matters listed in the Consent Calendar are considered routine and non-controversial and will be acted upon by the Committee by one motion in the form listed below. There will be no separate discussion on the items prior to the time the Committee votes, unless Committee members, staff, or the public requests that specific items be discussed and/or removed from the Consent Calendar for separate action.

A. APPROVAL OF THE MINUTES FROM THE MEETING HELD ON 9-17-13.....29

Recommendation: Approve as mailed.

B. TREASURER’S REPORT – AUGUST 2013.....33

Recommendation: Receive and file.

8. INFORMATIONAL REPORTS

Recommendation: Receive and file the following oral/written reports/updates.

A. GENERAL MANAGER’S REPORT

- OCWD Letter re CalPERS Retirement Program
- Ian Achimore

B. CHAIR’S COMMENTS/REPORT

C. COMMISSIONERS’ COMMENTS

9. CLOSED SESSION

A. PURSUANT TO GOVERNMENT CODE SECTION 54956.9 (a) CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION

- Castle and Cooke, Case No. RIC 495874
- OCSD Arbitration

10. ADJOURNMENT

Any person with a disability who requires accommodation in order to participate in this meeting should contact Commission Secretary Patti Bonawitz at 951.354.4230, at least 48 hours prior to the meeting to request a disability-related modification or accommodation.

PLEASE NOTE:

Materials related to an item on this agenda submitted to the Commission after distribution of the agenda packet are available for public inspection in the Authority's office located at 11615 Sterling Avenue, Riverside, during normal business hours. Also, such documents are available on the Authority's Website at www.sawpa.org, subject to staff's ability to post documents before the meeting.

Declaration of Posting

I, Patti Bonawitz, Clerk of the Board of the Santa Ana Watershed Project Authority certify that a copy of this agenda has been posted in the Agency's office at 11615 Sterling Avenue, Riverside, California by 5:30 p.m. on Wednesday, September 25, 2013.



Patti Bonawitz

2013 - SAWPA Commission Upcoming Meetings/Events

October

10-15-13 Commission Meeting

November

11-5-13 Commission Workshop

11-19-13 Commission Meeting

December

12-3/6-13 ACWA Fall Conference – Los Angeles

12-17-13 Commission Meeting

Page intentionally blank



BOARD OF DIRECTORS

James Cuevas
Chair of the Board

Philip Savage, IV
Vice Chair of the Board

Pat Spafford, CPA
Chief Financial Officer

Kirk Harns
Secretary of the Board

Glenda Bayless

Sergio Bohon

Rabbi Hillel Cohn

Henry Coil
Past Board Chair

Andrea Dutton

Robert Fey

Paul Granillo

Stanley Grube

Dr. Albert Karmig

Vernon Kozlen

D. Matthew Pim

Patrick O'Reilly

Benita B. Roberts

Rose Salgado

Beverly Stephenson

Grover Trask
Immediate Past Board Chair

Sean Varner

Dr. Jonathan Lorenzo Yorba
President and CEO

September 22, 2013

Celeste Cantu
Santa Ana Watershed Project Authority
11615 Sterling Avenue
Riverside, CA 92503

Dear Celeste,

On behalf of The Community Foundation, its Board of Directors, and the Community Task Force members, I want to thank SAWPA for your financial support in the development of the *Riverside and San Bernardino County Community Indicators Reports (CIR's)*. Your financial support has provided us the opportunity to highlight some of our most precious resources in the region, namely our water and our watershed.

As you know, The Community Indicators Report provides the county and region with critical research and analysis, tracking the key indicators of economic, health, social, and environmental well-being of San Bernardino, Orange, and Riverside Counties. This report has provided key county stakeholders and decision-makers with honest and accurate internal data and assessments on critical regional issues and opportunities for our future prosperity and quality of life. In San Bernardino County we know the report is being used to aid in the County Visioning process. While in Riverside County we have been told it has become a tool for county planning, in addition to serving as a resource in the development of grants for area nonprofits.

The Community Foundation is proud to partner with Counties to produce this report for our community and we couldn't have done it without your support. The Report will provide comparative data points across regions and topics studying the latest quantitative metrics for this critical population.

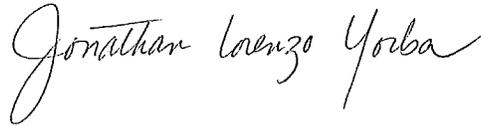
We are currently in the process of developing the 2014 CIR and are respectfully requesting SAWPA to provide financial support at the same level as in previous years, \$10,000 (\$5,000 for each County). We are also aware of the request Orange County has made for a similar level of sponsorship and wanted to reiterate the importance of the three-county effort to develop a longitudinal perspective across county lines. The funds will be dedicated toward developing data points relevant to environmental resources and will highlight how these programs are relevant to broader policy subjects such as Housing, Health, and Jobs. The Report seeks to show the importance of having a broader conversation about the current quality of life in the region.



Confirmed in Compliance
with National Standards for
U.S. Community Foundations

We want to thank you in advance for your consideration of our request to develop this important report for our community and look forward to your participation.

Sincerely,

A handwritten signature in cursive script that reads "Jonathan Lorenzo Yorba". The signature is written in black ink and is positioned above the printed name and title.

Jonathan Lorenzo Yorba
President/CEO

Orange County
COMMUNITY INDICATORS PROJECT

17320 Redhill Ave., Suite 200
Irvine, CA 92614
(714) 834-7257
ocindicators@ocgov.com
www.oc.ca.gov

September 23, 2013

Celeste Cantu
Santa Ana Watershed Project Authority
11615 Sterling Avenue
Riverside, CA 92503

Dear Ms. Cantu:

The Orange County Community Indicators report is the Orange County counterpart to a suite of local indicators reports measuring quality of life in Southern California. This suite includes the San Bernardino County and Riverside County Indicators reports, which the Santa Ana Watershed Project Authority has supported over the years. SAWPA's support of these assessments in San Bernardino and Riverside counties is critical to the ability of The Community Foundation to be a leader for community investment and change.

Like the San Bernardino and Riverside reports, the Orange County Community Indicators Report is an objective tool for policymakers and the public at large to evaluate the many factors that contribute to quality of life, and helps provide a pathway forward to a stronger and continually thriving community. Together, the three-county effort promotes a broader conversation about issues that are regional in nature and cross county boundaries, such as the management of watersheds, air quality and natural resources.

In Orange County, we are currently in the process of developing the 2014 Community Indicators report. On behalf of the partnership of organizations leading that effort, we are requesting SAWPA's financial support at a similar level as you have provided for Riverside County and San Bernardino County reports (\$5,000).

Thank you in advance for your consideration of this request to develop this important report for our community and the region as whole. We look forward to your participation. If you have any questions, do not hesitate to contact me.

Sincerely,



Michael Ruane
Project Director



Page intentionally blank

COMMISSION MEMORANDUM NO. 8805

DATE: October 1, 2013
TO: SAWPA Commission
SUBJECT: Inland Empire Brine Line Pretreatment Program Support
PREPARED BY: Rich Haller, Executive Manager of Engineering and Operations

RECOMMENDATION

It is recommended that the Commission authorize the General Manager to issue Change Order No. 1 to Task Order No. EOA240-01 with Eisenberg, Olivieri & Associates (EOA) for a total not-to-exceed amount of \$30,000 for support of Pretreatment Program activities and the Remedial Plan response.

DISCUSSION

EOA has been providing technical services supporting the Pretreatment Program and Remedial Plan response. Four separate tasks have been undertaken with a detailed scope and budget established for each task. The tasks are as follows:

- Task 1: Evaluate contractual issues (side streams, stormwater, reclaimable wastewater, pH), including an inventory of current conditions, SAWPA’s compliance, and procedures going forward. Document findings/recommendations in four memoranda. 88 hours, \$19,000
- Task 2: Out of service area issue – provide findings/recommendations, document in memorandum. Ordinance No. 7 - review, prepare text for inclusion of agreed upon items with OCSD from Task 1. 30 hours, \$5,450
- Task 3: Provide recommendations for a permit fact sheet and permit templates addressing Liquid Waste Haulers and direct and indirect dischargers. Review draft permit templates (LWH, Direct, Indirect) so template will work for smaller, large, and special dischargers. Recommend permit review and quality control procedures. 70 hours, \$16,030
- Task 4: Collection Stations and draft Ordinance No. 7. Evaluate the collection station permit requirements for consistency with 40 CFR 403. Identify gaps and requirements that exceed 40 CFR 403. Begin assistance with Ordinance No. 7 questions. \$4,520

Total of Tasks 1-4: \$45,000
Actual Expenses through 9/10/13: \$40,398

The four tasks have supported resolution of contract issues with OCSD, and development of initial drafts of the program documents (Ordinance, Multijurisdictional Pretreatment Agreement (MJPA), Policy Manual, Enforcement Response Plan (ERP), Procedures). Work has consisted of responding to specific technical questions identified by SAWPA staff. To date, \$40,398 has been expended of the total \$45,000.

SAWPA will receive public comments on the Ordinance by October 4. SAWPA also will receive comments from OCSD on the MJPA, Policy Manual, and ERP. It is proposed to utilize EOA to assist in responding to the technical issues identified by the comments. Procedurally, SAWPA staff will

work with EOA to define in detail the work to be performed and the expected level of effort. This task will be performed through the end of November when it is anticipated that the MJPA's will be approved by all of the agencies.

A second phase of work will address comments on the procedures with a required completion date of December 13, 2013.

The Program documents are lengthy and have a significant amount of technical content. Further, the timeline is very short for addressing comments and obtaining document approval. To meet the timeline, SAWPA must have the resources in place prior to the end of the comment periods to ensure that resources are available to the extent needed.

Background on EOA: Support is provided by two individuals, Kirstin Kerr and Ray Goebel. Each has extensive experience in industrial pretreatment programs. A copy of EOA's Statement of Qualifications is attached.

RESOURCE IMPACTS

Pretreatment Program costs are funded from the Brine Line Enterprise, Fund No. 240.

RH:pb

Attachments:

1. Change Order No. 1 to Task Order No. EOA240-01
2. EOA Statement of Qualifications
3. Description of Tasks 1-4

CM#8805 Brine Line Pretreatment Support 10-1-13

Page intentionally blank



Eisenberg, Olivieri & Associates
Environmental and Public Health Engineering

July 19, 2013

Rosanna M. Lacarra
Manager of Permitting and Pretreatment
SAWPA
11615 Sterling Avenue
Riverside, CA 92503-4979

Dear Rosanna:

EOA is pleased to provide the attached information regarding our qualifications and experience in the area of Industrial Pretreatment Programs. As indicated by in the project descriptions, EOA has been involved in all aspects of Pretreatment Program development and implementation. Recent projects for the Cities of San Jose, Benicia, and Vacaville have focused on the development of new or updated Pretreatment Program elements and documentation (IU permit templates, SOPs, training materials, inspection forms, Enforcement Response Plans, Sewer Use Ordinances, etc). In some cases, the work has been in response to regulatory actions (e.g. a PCI report, Pretreatment Streamlining Rule) while in others, the agency simply recognized the need to fill gaps in Program documentation, or to update procedures in order to provide more consistency and traceability for its permitting and enforcement activities. We have conducted program audits, and are very familiar with the issues and deficiencies identified by regulatory agencies during the PCA and PCI process.

EOA's Pretreatment-related projects are performed primarily by Kristin Kerr and myself, with assistance from other EOA staff when needed. Kristin and I have worked together on Pretreatment projects for nearly twenty years. We provide clients with an in depth understanding of regulatory requirements, of typical Pretreatment Program strengths and weaknesses, and of the practical day-to-day needs and challenges of operating a Pretreatment Program.

We look forward to the opportunity of working with you and SAWPA.

Sincerely,

A handwritten signature in black ink that reads "Ray Goebel". The signature is written in a cursive, flowing style.

Ray Goebel, P.E.
Manager of Operations

EOA, Inc. Company Overview

EOA, Inc. is a privately owned multi-disciplinary consulting firm providing a broad range of water quality related client services. As a leader in the San Francisco Bay Area in NPDES permitting for municipal wastewater and stormwater agencies, EOA combines regulatory expertise and public policy savvy with implementation of sound science, engineering, and program management. EOA is known for applying collaborative problem solving skills to help its clients maintain compliance with regulatory requirements and find practical solutions to protect, restore and enhance the water quality environment.

EOA is a registered small business with its main office in Oakland and a smaller office in Sunnyvale. EOA has an exceptional technical staff of about 20 professionals, most of whom have advanced technical degrees and over 10 (and often over 20) years experience working at EOA in environmental compliance, planning, science, policy, and/or engineering. EOA's specialty is assisting public agencies with all phases of water quality related regulatory compliance programs, including conceptual planning, permitting, scoping and budgeting, program operations, data management, and reporting. EOA has broad experience in assisting municipal agencies and agency associations with obtaining and complying with NPDES wastewater and stormwater permits, and in operating programs related to those permits (e.g. POTW Industrial Pretreatment and Pollution Prevention programs). EOA has a long history of successfully working with municipal and regulatory agency staff in the Bay Area and throughout California, and extensive experience providing technical and regulatory services to numerous California cities, counties, and water and wastewater districts. . EOA routinely tracks water quality related regulatory developments, grant and its staff is frequently invited to serve on expert panels, workgroups, and committees that develop or influence policy.

EOA, Inc. Pretreatment Program Experience (Partial List)

City of Benicia WWTP

For the past 10 years, EOA has provided technical support to the City of Benicia Waste Water Treatment Plant (WWTP) for NPDES permit and Pretreatment Program. EOA assisted the City with its 2001, 2008, and 2012-2013 NPDES permit reissuance processes and provides ongoing support for permit compliance, Pretreatment, collection system, and recycled water project planning. EOA support to the WWTP's Pretreatment Program has included local limits reviews (2005, 2008), revisions to the Sewer Ordinance, Enforcement Response Plan, IU Permit templates, IU inspection forms and other program documents, development of procedures for inspection and compliance assessment, responses to Pretreatment Compliance Audit (PCA) and Pretreatment Compliance Inspection (PCI) reports, and other general assistance to program staff. Most recently EOA developed the Pretreatment Program section of the City's Water Quality Manual to document the program activities, procedures and tools.

City of San Jose

Under a multi-year (2007 -2013) agreement, EOA provided regulatory and technical support to the City of San Jose's Environmental Services Department for its watershed programs. EOA was the prime consultant and project manager of a project team that provided expertise for a wide variety of issues related to the City's NPDES permit and Pretreatment Program, WWTP health and safety, receiving water studies, WWTP air quality requirements, and related financial issues. Under the agreement, the City issued thirteen Service Orders, five of which related to Pretreatment. The following Pretreatment-related work was conducted by EOA under the agreement:

- Pretreatment Program Audit - Conducted to assess City's response to specific elements in an EPA Finding of Violation and Administrative Order
- Pretreatment Program Audit – General Program audit conducted in advance of an upcoming Pretreatment Compliance Audit by EPA and the Regional Water Board.)
- Industrial User Slug Plan Evaluations
- Pretreatment Program - Guidance and Training on Hazardous Material Identification and Inspection Referrals
- Pretreatment Program - Assistance for Industrial User Sector Loading study and Local Limits Evaluation

City of Vacaville- Pretreatment Program Development

EOA developed the original municipal wastewater treatment plant industrial pretreatment program for the City of Vacaville to respond to a Cease and Desist Order issued by the Regional Water Board. The project included a pre-audit of the pretreatment program to prepare for EPA and Regional Water Boards audits. Pre-audit objectives were to determine compliance with federal laws and regulations, document program effectiveness, identify program deficiencies, and assist with necessary program modifications.

EOA defined procedures for improving Pretreatment Program management and implementation. Elements of the pretreatment program which EOA addressed included: defining permit procedures, identifying industrial pretreatment limits, preparing inspection and monitoring procedures and reporting forms, defining appropriate enforcement actions, enhancing program budget requirements and rate structure, preparing a computer database management system, and identifying modifications to be made to the local ordinance. EOA also conducted training for pretreatment staff to conduct industrial inspections. The program procedures were described and documented in an easy-to-use, informative manual prepared for the pretreatment staff.

City of Vacaville - Pretreatment Program Support

EOA updated the City of Vacaville's Pretreatment Manual's Permit Enforcement Section to conform with EPA guidelines for an Enforcement Response Plan (ERP). EOA's objective was to produce a clear and usable ERP for both training purposes and for enforcement actions. The plan included administrative compliance procedures for collecting fines, and recommended fines for specified violations. EOA also advised the City as to whether its revised sewer use ordinance (SUO) contained adequate support for the ERP and compliance procedures.

EOA provides ongoing assistance to the Vacaville Program on an “as needed” basis. In recent years these services included review and training for Program implementation, updating of the Pretreatment Program Manual, assistance for SUO revisions and local limits review.

City of Sunnyvale - Pretreatment Program and Pollution Prevention Compliance Assistance

Since 1986, EOA has provided ongoing assistance to the City of Sunnyvale's Water Pollution Control Plant on pretreatment program and pollution prevention issues. EOA prepared the initial source identification study for metals, and updated these estimates annually based on flow and concentration data from the plant influent, collection system, and IU monitoring. EOA provides ongoing “as-needed” assistance to the Pretreatment Program in areas such as review of Pretreatment and Pollution Prevention Annual Reports, SUO revisions, and data management.

East Bay Municipal Utility District –Resource Recovery Program Review

The East Bay Municipal Utility District (EBMUD) operates an extensive trucked waste acceptance program at its main wastewater treatment plant, referred to as the Resource Recovery (R2) program. The R2 program utilizes excess capacity at the treatment plant to treat a wide variety of trucked waste, including septage, FOG, food and winery processing, and other selected wastes. In response to questions raised by the Regional Water Board regarding the program and its potential impact on the treatment plant effluent quality, EBMUD asked EOA to examine the program as an element of EOA’s review of EBMUD’s local limits. EOA’s review addressed the following questions: 1) Does the program contain all of the necessary elements of a well run and properly documented trucked waste program? and 2) are loadings from the program adequately accounted

for in the overall headworks loading/local limits analysis? EOA's review determined that all of the necessary elements were in place and operating, and made recommendations for improvement. It also determined that the headworks loading analysis, in combination with other mass loading controls that had been developed for the R2 program were protective of plant effluent and biosolids quality and of plant processes.

Local Limits Reviews

EOA has conducted local limits reviews for numerous POTWs, including the Cities of Sunnyvale, Benicia, Vacaville, Thousand Oaks, the East Bay Municipal Utility District, and the Novato Sanitary District. For several of these agencies, EOA has conducted multiple reviews. EOA also participated as a sub-consultant in reviews for the City of Hayward and the Union Sanitary District. EOA assisted the Oro Loma Sanitary District in a targeted local limits review for copper, which provided the technical basis for OLSD's successful effort to raise that local limit.

Source Identification Studies

In response to Regional Water Board requirements related to source identification and pollutant prevention, EOA conducted source identifications studies for the City of Sunnyvale, the City of San Jose, and the Las Gallinas Valley Sanitary District. For each client, EOA has provided subsequent assistance related to those agencies' Pollution Prevention Programs.

Client References

City of Benicia:

Brad Harms
Water Quality Technician
City of Benicia Wastewater Treatment Plant
707-746-4337
bharms@ci.benicia.ca.us

City of San Jose:

Heidi Geiger, P.E.,
City of San José Environmental Services Department
Watershed Protection Division
200 East Santa Clara Street – 7th Floor
San José, CA 95113-1905
Tel: 408-793-5379
heidi.geiger@sanjoseca.gov

City of Sunnyvale:

Sarah Scheidt
Senior Environmental Compliance Inspector
Environmental Services Department
Regulatory Programs Division
408-730-7267
SScheidt@sunnyvale.ca.gov

City of Vacaville:

Tom Reyes
Water Quality Supervisor
City of Vacaville
650 Merchant St.
Vacaville, CA 95688-6908
707-469-6410
TReyes@cityofvacaville.com

EDUCATION: M.S., Environmental Engineering
University of California, Berkeley, 1993

B.S., Civil Engineering, summa cum laude
Tufts University, Massachusetts, 1992

Junior Year Abroad Program, College of Engineering
University of Sussex, England, Fall 1991

PROFESSIONAL CERTIFICATES: Professional Engineer, State of California
Qualified SWPPP Developer, State of California

EXPERIENCE:

Managing Engineer EOA, Inc. (August 2004 – Present)
Senior Engineer EOA, Inc. (November 1999 – August 2004)

Task management and technical responsibility for a range of projects related to NPDES permit compliance, industrial pretreatment, wastewater treatment plant and laboratory operations, biosolids management and reporting, toxicity investigations, and environmental data management. Recent projects have included NPDES permit applications and development of draft permits, performing Reasonable Potential Analysis for discharge permits, developing or updating pretreatment program procedures and documentation, and implementation of data management systems for NPDES permit compliance and pretreatment, coordination with laboratories for permit-related chemical and toxicity testing, and consulting on wastewater treatment plant operations. Previously worked with Sandia National Laboratories/CA to provide services related to pretreatment, sampling and reporting, stormwater pollution control and reporting, and pollution prevention.

Also participates in the San Francisco Bay Area Pollution Prevention Group.

Associate Engineer: EOA, Inc. (June 1993 – November 1999)

Worked with the Cities of San Jose and Sunnyvale to review industrial wastewater waste minimization audits, identify commercial sources of metals in wastewater, and calculate mass loadings from residential, commercial, industrial, water supply and corrosion sources. Assisted the City of Sunnyvale Water Pollution Control Plant in developing improvements to operations and laboratory data management practices, and evaluating improvements to the Plant's dual media filters. Worked with several POTW pretreatment programs for projects including development of Local Limits, annual pollution prevention reports and enforcement response program. Assisted with NPDES Permit Renewal process and EPA Biosolids Annual Report for several POTWs. Worked with Sandia National Laboratories/CA to update their existing Storm Water Pollution Prevention Plan and to develop a Wastewater Waste Minimization Program, which includes conducting a site wide mass audit. Worked with county storm water management programs to summarize structural storm water control measures, identify non-storm water discharge permit exemptions, and develop performance standards.

Other projects and reports include developing storm water pollution prevention plans, groundwater monitoring reports, categorical process compliance reports, groundwater discharge compliance reports, wastewater discharge permit renewal application, storm water annual reports, assisting with a microbial risk assessment literature review, and conducting fugitive dust emissions analysis for hazardous materials risk assessment document.

Hydrologic Technician: U.S. Geological Survey, Trenton, N.J. (January 1990-December 1990)

Provided technical support by editing reports, digitizing maps, and updating databases. Also conducted research on surface water supplies in conjunction with the Department of Environmental Protection (DEP).

RAYMOND P. GOEBEL, M.S., P.E.

EDUCATION: M.S. Mechanical Engineering, UC Berkeley, 1974
B.S. Mechanical Engineering, UC Berkeley, 1973

PROFESSIONAL CERTIFICATES: Registered Mechanical Engineer, California

EXPERIENCE: EOA, Inc. (August 1988 - Present)

**Manager of Operations
Manager III
Senior Engineer**

Responsible for engineering and/or project management in the areas of water and wastewater engineering, water recycling, biosolids management, NPDES permitting, Industrial Pretreatment, data management and hazardous materials management. As project manager for the development of a large-scale municipal water recycling program, coordinated the planning, design and construction of treatment, pumping and distribution facilities, and development of an administrative program for customer site evaluations, retrofits, permitting, cross-connection testing and monitoring. Wastewater engineering experience includes pre-design design studies for treatment plant unit process upgrades, project engineering and construction support for capital projects, SCADA development and implementation, laboratory and plant data management, plant operations support, development of plant O& M Manuals and Sewer System Management Plans. Pretreatment projects include program effectiveness and staffing evaluations, source control studies, local limits analyses, development of Enforcement Response Plans, and data management. NPDES permit experience includes all aspects of permit reissuance, permit special studies (plant performance and reliability, disinfection byproduct reduction, blending, receiving water, metal translators, and other), and routine compliance reporting (monthly and annual compliance reports for NPDES, biosolids, recycled water, etc). Hazardous materials management projects include RCRA facility closures, UST closures, groundwater monitoring/treatment systems, and preparation of SPCC plans.

**Vice President and
Managing Engineer:** Microbial Products, Inc. (August 1983 - July 1988)

Responsible for engineering design and construction of intermediate and large scale experimental bioengineering facilities. This included both conceptual and engineering design, cost estimation, bid solicitations, construction management, O&M manual preparation, and ongoing technical support. Designed gas mixing and microcomputer data acquisition system for laboratory growth reactors.

Project Engineer: Enbio, Inc. (April 1980 - July 1983)

Responsible for design, construction, and operation of pilot-scale photosynthetic bioengineering research facility. Experience included design of reactors, pumping and piping systems, instrumentation, and operation and maintenance of the facility. As consultant to the California Energy Commission, assisted with implementation of biomass energy program, including design and performance review for anaerobic digestion facilities, and implementation of several pilot-scale demonstration projects at agricultural sites.

Assistant Development Engineer: UC Berkeley, Sanitary Engineering Research Lab (June 1977 - October 1979)

Responsible for operation and improvement of a pilot-scale wastewater pond treatment facility used for teaching and research. Under sub-contract to Lawrence Berkeley Laboratory, prepared cost estimates and feasibility study for large-scale biomass energy production facility. Operated and maintained anaerobic digesters and associated piping, pumps, and instrumentation.



S A W P A

SANTA ANA WATERSHED PROJECT AUTHORITY

Task Order No. 1 Description

- A. Review materials related to Remedial Plan issue of “Side Streams” as described in the 1996 Agreement. Prepare technical memorandum with a discussion of the issue and recommendations/conclusions. Investigate side stream definition proposed by OCSD, find alternative definition or explanation to implement, justify not applying new definition retroactively. Submit for comments by SAWPA. Finalize upon receipt of comments. Attend phone conference meetings as needed.
- Draft Deliverable date: Aug. 9, 2013
 - Estimated hours: 16
- B. Review materials related to Remedial Plan issue (R03, 07, 08) of “Stormwater” as described in the 1996 Agreement (C.28). Prepare technical memorandum with a discussion of the issue and recommendations/conclusions. Submit for comments by SAWPA. Finalize upon receipt of comments. Investigate significance of the issue, identify conditions under which stormwater to the Brine Line may be a “good policy” for the watershed (e.g. allows for reclamation of potentially undesirable runoff to receiving waters that meets local limits), investigate exemptions offered by OCSD (<150 sf). Attend phone conference meetings as needed. Submit for comments by SAWPA. Finalize upon receipt of comments.
- Draft Deliverable date: Aug. 16, 2013
 - Estimated hours: 24
- C. Review materials related to Remedial Plan issue (R03, 07, 08) of “Reclaimable wastewater ” as described in the 1996 Agreement (C.7). Prepare technical memorandum with a discussion of the issue and recommendations/conclusions. Submit for comments by SAWPA. Finalize upon receipt of comments. Investigate significance of the issue, identify conditions under which reclaimable wastewater to the Brine Line may be a “good policy” for the watershed. Attend phone conference meetings as needed. Submit for comments by SAWPA. Finalize upon receipt of comments.
- Draft Deliverable date: Aug. 16, 2013
 - Estimated hours: 24

- D. Review materials related to Remedial Plan issue (R07,08) of “pH”. Prepare technical memorandum with a discussion of the issue and recommendations/conclusions. Submit for comments by SAWPA. Finalize upon receipt of comments. Investigate significance of the issue; identify conditions solution to be presented to OCSD. Attend phone conference meetings as needed. Submit for comments by SAWPA. Finalize upon receipt of comments.
- a. Draft Deliverable date: Aug. 16, 2013
 - b. Estimated hours: 24

Task	Estimated Hours	Estimated Fee
1.A	16	\$3,460
1.B	24	\$5,180
1.C	24	\$5,180
1.D	24	\$5,180
Sub-Total	88	\$19,000



S A W P A

SANTA ANA WATERSHED PROJECT AUTHORITY

Task Order No. 2 Description

A. Review materials related to Remedial Plan issue (R03, 07, 08) identified with Finding Number A.S.10 in the Audit Response with Deliverable Expectations spreadsheet for “Out-of-area” as described in the 1996 Agreement, Section 24. Prepare technical memorandum with a discussion of the issue and recommendations/conclusions. Submit for comments by SAWPA. Finalize upon receipt of comments.

Investigate significance of the issue, identify conditions under which wastewater originating “out-of-area” being discharged to the Brine Line may be a “good policy” for the watershed. Include a discussion on how to define “originating” as it relates to this issue. Review and provide conclusions as it relates to a facility that collects wastewater to a POTW that may include wastewater not originating within SAWPA’s service area, but the POTW is located within the service area and produces a Brine Line (SARI) discharge to be permitted. Is this considered “originating” out-of-area”? How to best manage the grandfathered discharges and do they provide any additional supporting evidence of discharges that should be permitted.

What type of “approval” should be sought by SAWPA (probably OCSD’s ordinance would provide some ideas as to how they authorize these in their service area).

Attend phone conference calls as needed.

Submit for comments by SAWPA. Finalize upon receipt of comments.

- a. Draft Deliverable date: Aug. 27, 2013
- b. Estimated hours: 24

Task	Estimated Hours	Estimated Fee
2.A	24	\$5,450
Sub-Total	24	\$5,450



S A W P A

SANTA ANA WATERSHED PROJECT AUTHORITY

Task Order No. 3 Description

A. Permit and Permit Fact Sheet form and template development.

- a. SAWPA seeks Permit template recommendations for LWH, direct connects and indirect connects (generators) include options for IUs (local permittees), SIUs and CIUs. Identify options that facilitate generating permits (Word macros, others). Outline recommendations considering future use of an EnfoTech Pretreatment Data Management System. The template should allow for incorporation of special conditions and additional categorical requirements and limits. Currently there are too many changes in the sections (deletions and additions) with a ripple effect requiring a complete review of the document to identify section references (or cross-references) for which the numbers have changed (e.g. Part IV.C change to IV.B due to a deletion and you have to check all the references to that section that has now been renumbered). Verify required sections, requirements or conditions per 40 CFR 403as well as suggested deletions to streamline. Verify permit conditions against Remedial Plan requirements and proposed Ordinance changes for consistency.
 - i. Draft Deliverable date: August 29, 2013
- b. Review content and organization of Permit Fact Sheet for completeness and Remedial Plan requirements. May need to address “issues” of stormwater, reclaimable wastewater, etc. Compare to EPA recommended content. Recommend streamlining with revisions to the permit templates.
 - i. Draft Deliverable date: September 24, 2013
- c. Recommend Permit review/quality control procedures. May include a form for SAWPA to verify permit completeness and accuracy (SAWPA’s version rejected by OCSD. OCSD has provided their version and it is onerous and goes beyond MOU requirements; need alternative). Assume Member/Contract Agencies prepare permits/fact sheets and SAWPA performs QC. Assume SAWPA also prepares and issues permits that may require peer review for QC (may be a consultant or a Member Agency). Also, provide QC procedure recommendations for permits and fact sheets (internal qc? Consultant qc?). Recommend

permit review workflow and tracking including review for concurrence by OCSD (see 1991 MOU and proposed SAWPA form).
Submit recommendations and templates/forms to SAWPA for comments. Finalize upon receipt of comments.

- i. Draft Deliverable date: September 11, 2013

Task	Estimated Hours	Estimated Fee
3.A	70	\$16,030
Sub-Total	70	\$16,030



S A W P A

SANTA ANA WATERSHED PROJECT AUTHORITY

Task Order No. 4 Description

A. Miscellaneous Technical Support

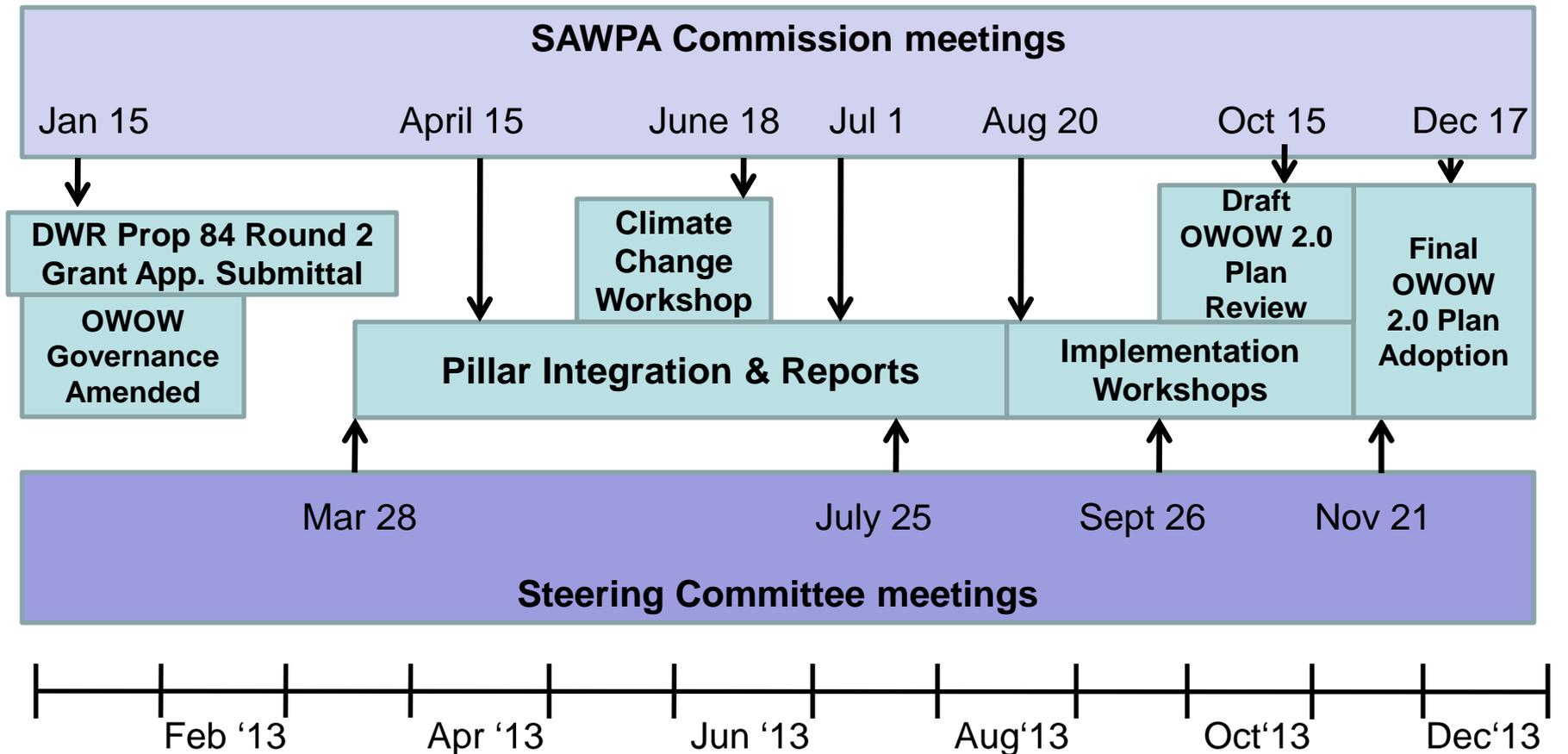
SAWPA may request technical support for the Pretreatment Program for a variety of minor sub-tasks to be included in this Task Order. SAWPA is in the process of preparing a variety of Program implementation materials with Member and Contract Agencies and responses to OCSD that may require technical support including, but not be limited to the following:

1. Recommendations for permitting and compliance monitoring of Collection Stations (per recent email communication).
2. Review and comments, or preparation and support in response to public comments of proposed SAWPA Ordinance No. 7.

Task	Estimated Hours	Estimated Fee
4.A. Miscellaneous Technical Support	Varies based on EOA staff assigned	\$4,600

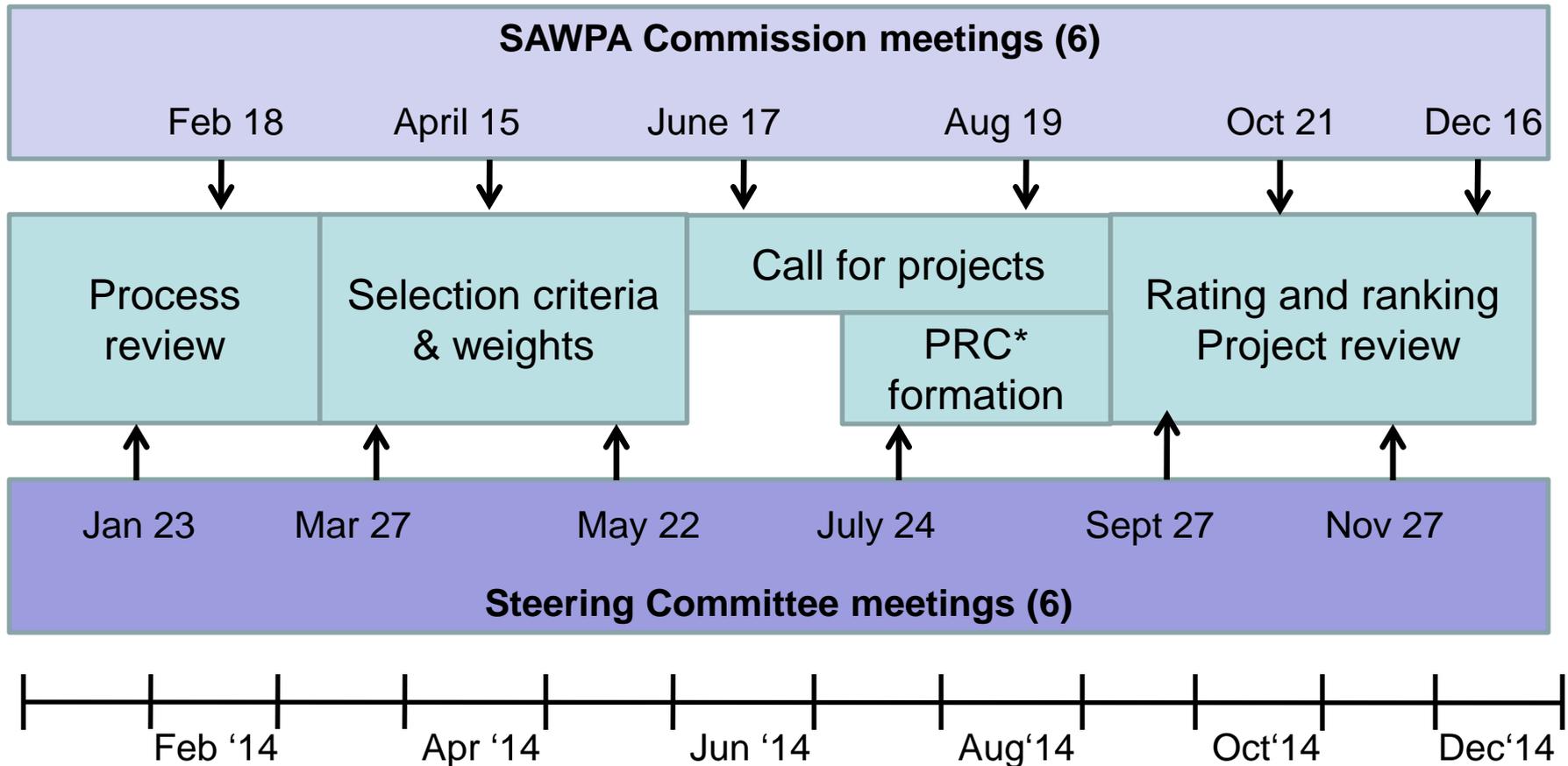
OWOW 2.0 Plan Process

OWOW 2.0 Plan Adoption Deadline – Dec 2013



OWOW Round 3 Funding - \$70 million

DWR Application Due Date – Winter 2014/2015



*PRC: Project Review Committee

COMMISSION MEMBERS PRESENT

Phil Anthony, Chair
Don Galleano
Ron Sullivan
Mark Bulot
Terry Catlin

REPRESENTING

Orange County Water District
Western Municipal Water District
Eastern Municipal Water District
San Bernardino Valley Municipal Water District
Inland Empire Utilities Agency

OTHERS PRESENT

Harry Sidhu
Ed Killgore
Ravi P. Ravishanker
Derek Kawaii
Tom Gaworski
Don Lee
Celeste Cantú
Rich Haller
Larry McKenney
Mark Norton
Karen Williams
David Ruhl
Carlos Quintero
Jerry Oldenburg
Patti Bonawitz

Orange County Water District
San Bernardino Valley MWD
Eastern Municipal Water District
Western Municipal Water District
Orange County Sanitation District
Tetra Tech
SAWPA
SAWPA
SAWPA
SAWPA
SAWPA
SAWPA
SAWPA
SAWPA
SAWPA

The Regular Meeting of the Santa Ana Watershed Project Authority Board of Commissioners was called to order at 9:30 a.m. by Chair Phil Anthony at the Santa Ana Watershed Project Authority Office at 11615 Sterling Avenue, Riverside, CA 92503. Commissioner Catlin led the flag salute. Chair Anthony requested a roll call. A quorum was noted as present with representation from all five member agencies: SBVMWD, EMWD, WMWD, IEUA, and OCWD. Chair Anthony called for public comments; however, no comments were received.

NEW BUSINESS

INLAND EMPIRE BRINE LINE REACH V REHABILITATION AND IMPROVEMENT PROJECT (CM#8797)

David Ruhl stated this design engineering work needs to be done due to the Brine Line Reach V spill on October 18, 2011. He discussed the scope of work, the selection process, proposed schedule, and funding requirements. Of the four proposals received, the top three bids were opened and reviewed. Dudek was the most qualified and had the lowest fee proposal. Chair Anthony asked if there were any concerns about the significant range of fees proposed. David Ruhl replied no, but staff sat down with Dudek staff and examined their proposal thoroughly.

Discussion ensued regarding the repairs on the referenced section of the Reach V Brine Line. David Ruhl said the line was repaired; however, staff still is concerned about the condition of a five-mile stretch of pipeline, as well as another area about eight miles long, where extensive investigations have found poor compaction and over-deflection of the pipeline that led to the pipe failure and brine spill on October 18, 2011.

Upon motion by Commissioner Bulot, seconded by Commissioner Sullivan, the motion unanimously carried:

13-09-06

MOVED, approval and authorized the General Manager to execute Task Order No. DUDK326-01 with Dudek for engineering design services for the Inland Empire Brine Line Reach V Rehabilitation and Improvement Project, for an amount not-to-exceed \$381,218.

PROTECTION OF BRINE LINE WITHIN UNION PACIFIC RAILROAD EASEMENT (CM#8798)

Carlos Quintero stated that Union Pacific Railroad Company's (Union Pacific) decision to relocate its Riverside Industrial Lead track in the City of Colton impacts both the Inland Empire Brine Line and the RIX pipelines. Union Pacific provided little notice to protect our lines, and the protection of those lines is required due to the additional soil placed over the pipelines and train loading not contemplated in the original design. SAWPA and San Bernardino Municipal Water Company decided to partner to address this potential conflict. He discussed the four possible alternatives to protect the lines, noting that Union Pacific believes the best option is the installation of a "steel split casing while pipe flowing alternative."

Discussion ensued regarding the 50/50 split, which only is on the feasibility and design engineering services, not construction. The RIX pipeline is 57 inches, which is much larger than SAWPA's 36-inch brine line. Also discussed was an easement to cross over. Carlos Quintero said about 150 feet of the Brine Line will be impacted, so the projections must be limited to that as well.

Upon motion by Commissioner Catlin, seconded by Commissioner Bulot, the motion unanimously carried:

13-09-07

MOVED, approval and authorized the General Manager to reimburse the San Bernardino Municipal Water Department for an amount not-to-exceed \$100,000, corresponding to 50 percent of the cost for the feasibility analysis and design to protect the Brine Line and RIX Line, as a result of the Union Pacific Industrial Lead Line Relocation Project.

COMMENTS ON GRAND JURY REPORT: RIVERSIDE COUNTY WATER AND SANITATION DISTRICTS, COMPENSATION AND TRANSPARENCY (CM#8804)

Larry McKenney stated that in July 2013, the Grand Jury released their Riverside County Report focusing on transparency and compensation for Directors/General Managers. There were three findings and two recommendations that SAWPA must respond to:

1. Health insurance and retirement benefits of Directors in relationship to rate setting. That recommendation is not applicable to SAWPA because SAWPA does not provide those benefits to its Commissioners.
2. Making agency records and information available through the agency's website. SAWPA meets the standards that are recommended with the exception of the General Manager's contract, which will be uploaded and posted to SAWPA's redesigned website by the end of this month.
3. Agencies should hold their public meetings at night to facilitate ratepayer attendance. As SAWPA's ratepayers are all agencies and businesses, meeting during the work day is more conducive to their attendance, so staff recommends not implementing this recommendation.

Upon motion by Commissioner Galleano, seconded by Commissioner Sullivan, the motion unanimously carried:

13-09-08

MOVED, approval of the response letter to the Riverside County Grand Jury Report of July 3, 2013, Riverside County Water and Sanitation Districts, Compensation and Transparency, and authorize the Chair to execute the letter.

OLD BUSINESS

PRETREATMENT PROGRAM STATUS UPDATE

Rich Haller said staff will discuss long-term staffing with OCSD staff at today's gate meeting. Requirement 6, the Gate 11 Exit Gate meeting, has been deferred to September 30, in order to provide OCSD additional information about SAWPA's member agencies' organizational structure and staffing qualifications.

On August 27, SAWPA submitted a letter to OCSD regarding synchronization and clarification on Requirements 7, 8, and 10, and proposed a new compliance date of December 13, 2013. OCSD responded on September 10 and agreed to the revised dates. The Exit Gate for Requirement 7 (Policies Manual, ERP, and Procedures Manual) and Exit Gate for Requirement 8 (Problem Permits) are now rescheduled for December 13, 2013.

The data management system is progressing quite well and staff continues to work closely with enfoTech. OCSD has approved the projected start date of December 18, 2013 to begin using the application.

The current focus remains on preparing all of the program documents.

Rich Haller reviewed the approval steps and schedule that will lead to the draft Ordinance No. 7 public hearing on October 15, 2013. There will be a workshop with the dischargers on September 18. Commissioner Galleano said that he, and possibly the other Commissioners, would be interested in reviewing the comments received at tomorrow's workshop, and suggested that perhaps a workshop could be conducted with the Commission to review specific changes proposed in the Ordinance and the comments received. Rich Haller said he appreciated comments as it makes for a better document. He stated that the draft ordinance will be reviewed in detail at the next Project Agreement 21 Committee meeting (10-4-13). SAWPA's goal is to have a fully compliant program that runs as efficiently as possible.

CONSENT CALENDAR

Upon motion by Commissioner Mark Bulot, seconded by Commissioner Galleano, the motion unanimously carried:

13-09-09

MOVED, approval of the Consent Calendar.

- A. The Commission approved the Minutes from the meeting held on 9-3-13.
- B. The Commission received and filed the Treasurer's Report – July 2013.

INFORMATIONAL REPORTS

The following oral/written reports/updates were received and filed.

A. Caltrans I-215 Bi-County HOV Gap Closure Project Construction Ramp Crossing Over Brine Line (CM#8799)

B. OWOW Update

Mark Norton reported that staff efforts continue in drafting the OWOW 2.0 Plan, which is scheduled to be released on September 30, 2013. Staff currently is focusing on writing the Executive Summary. The majority of the Plan has been drafted incorporating the Pillars' chapters. There will be a one-month public review/comment period, with Plan adoption by the OWOW Steering Committee targeted for November 21, and final adoption by the SAWPA Commission by end of the year.

A Pillar Workshop will be conducted on September 26 at 9 a.m., focusing on management strategies and regional projects. Those management strategies developed that morning will be brought forward to the Steering Committee at their meeting that afternoon (September 26 at 3 p.m.).

The "Call for Projects" for Round 3 funding is anticipated to be made in early 2014. Projects are targeted to be packaged and submitted to DWR by late 2014.

Celeste Cantú added that many of the member agencies' staffs contributed by writing chapters of the draft Plan, and she thanked the member agencies for their participation.

Chair Anthony asked if Round 3 was the last round of funding under Proposition 84. Mark Norton replied that it is; however, other categories may be available (i.e., stormwater funding), although they have a different schedule, but also have three rounds of funding in that grant program. The grant program focus is on protection of lakes, streams and rivers, and lower impact development [LID].

C. Legislative Report

Celeste Cantú stated that the legislature's work is ending this year, and bills are being prepared to go to the Governor. This has not been a big year for water; however, it is anticipated that next year will be. Discussion briefly ensued regarding the 2014 Water Bond. This topic will be discussed at the October 1 Commission Workshop.

D. Fourth Quarter FYE 2013 Expense Reports

- Staff
- General Manager

E. Inter-Fund Borrowing – July 2013 (CM#8802)

F. Performance Indicators/Financial Reporting - July 2013 (CM#8803)

G. General Manager's Report

Celeste Cantú reported that she recently met the new U.S. Army Corps of Engineers Colonel, Kim Colloton.

H. Chair's Comments/Report

None

I. Commissioners' Comments

Commissioner Sullivan said he recently attended an ACWA Conference in Steamboat Springs, Colorado, where he participated in a Forest Management session. They discussed that their true costs in managing devastating forest fires is probably about 1/20th of their actual costs, which also includes significant other fire-management related costs (i.e., debris, flooding, etc.). Forest Management has tried to get some reimbursement, but it seems to no avail. He was quite surprised that it was shared that some water districts openly stated that because they would have to wait for two-three years to obtain a permit, they just went right in, without a permit, and thinned the forests before they were stopped. The work needed to be done in order to maintain and keep the forests healthy in their region. Discussion ensued. Celeste Cantú noted that SAWPA's Burn Report prepared in 2003 explains this very scenario. This resulted in SAWPA partnering with our region's U.S. Forestry to create the Forest First Program, as it is known today.

CLOSED SESSION

None.

Commissioner Bulot asked about the status of OCWD's letter regarding CalPERS employer-employee paid contributions. Celeste Cantú replied that the matter will be on the next Commission Meeting agenda. Chair Anthony thanked Mark Bulot for inquiring.

There being no further business for review, Chair Anthony adjourned the meeting at 10:10 a.m.

APPROVED:

October 1, 2013

Phil Anthony, Chair

*Santa Ana Watershed
Project Authority*



Finance Department

Santa Ana Watershed Project Authority
TREASURER'S REPORT

August 2013

During the month of August 2013, the Agency's actively managed temporary idle cash earned a return of 1.267%, representing interest earnings of \$4,886. Additionally, the Agency's position in overnight funds L.A.I.F. and CalTRUST generated \$8,446 and \$1,126 in interest, resulting in \$14,458 of interest income from all sources. Please note that this data represents monthly earnings only, and does not indicate actual interest received. There was zero (0) investment positions purchased, zero (0) positions sold, zero (0) positions matured, and zero (0) positions were called.

This Treasurer's Report is in compliance with SAWPA's Statement of Investment Policy. Based upon the liquidity of the Agency's investments, this report demonstrates the ability to meet customary expenditures during the next six months.

September 11, 2013

Prepared and
Submitted by:


Karen L. Williams, Chief Financial Officer

Santa Ana Watershed Project Authority

INVESTMENT PORTFOLIO - MARKED TO MARKET - UNREALIZED GAINS & LOSSES

August 31, 2013

SAWPA primarily maintains a "Buy and Hold" investment philosophy, with all investments held by the Citizens Business Bank via a third-party safekeeping contract.

Investment Type	Security Type	CUSIP	Dealer	Purchase Date	Maturity Date	Call Date (if appl)	Par Value	Yield To Maturity	Investment Cost	Market Value Current Month	Unrealized Gain / (Loss)	Coupon Rate	Interest Earned
Agency	FHLB	3133XWX95	WMS	03-29-11	03-13-15	No Call	\$500,000	1.880%	516,505.00	518,285.00	1,780.00	2.750%	\$ 798.36
Agency	FNMA	3135GOHN6	WMS	04-25-12	02-27-15	02-27-14	\$500,000	0.55%	500,000.00	500,930.00	930.00	0.550%	\$ 233.54
Agency	FNMA	3136G1CS6	MS	03-08-13	02-14-18	02-14-14	\$1,000,000	1.224%	1,000,000.00	987,560.00	(12,440.00)	1.750%	\$ 1,039.73
Agency	FNMA	3136G1GP8	MS	03-27-13	03-27-18	03-27-15	\$1,000,000	1.000%	1,000,000.00	967,970.00	(32,030.00)	1.000%	\$ 849.32
Agency	USTN	912828NP1	WMS	01-26-11	07-31-15	No Call	\$500,000	1.786%	499,218.75	512,970.00	13,751.25	1.750%	\$ 758.51
CD	Discover	254671KV1	WMS	03-06-13	03-06-17	No Call	\$250,000	0.950%	250,000.00	249,123.82	(876.18)	0.950%	\$ 201.71
CD	GSB	38147JAU6	WMS	03-06-13	03-07-16	No Call	\$250,000	0.950%	250,000.00	250,462.92	462.92	0.750%	\$ 201.71
CD	AEC	02587DMM7	WMS	03-07-13	03-07-16	No Call	\$250,000	0.750%	250,000.00	250,000.00	-	0.750%	\$ 159.25
CD	BMW Bank	05568P2V8	TVI	03-08-13	03-08-17	No Call	\$248,000	0.850%	248,000.00	246,242.43	(1,757.57)	0.850%	\$ 179.04
CD	Key Bank	49306SRH1	WMS	03-13-13	03-13-15	No Call	\$250,000	0.450%	250,000.00	249,763.36	(236.64)	0.450%	\$ 95.55
CD	Ally Bank	02005QV75	WMS	04-17-13	04-18-16	No Call	\$250,000	0.650%	250,000.00	249,624.68	(375.32)	0.650%	\$ 138.01
CD	CIT Bank	17284A6P8	TVI	03-13-13	03-13-18	No Call	\$248,000	1.100%	250,000.00	244,015.02	(5,984.98)	1.100%	\$ 231.69
Total Actively Invested Funds							\$5,246,000		\$ 5,263,723.75	\$ 5,226,947.23	\$ (36,776.52)	1.267%	\$ 4,886.41
Total Local Agency Investment Fund									\$36,693,606.27			0.271%	8,445.56
Total CalTRUST Investment Fund									\$2,103,799.70			0.630%	1,125.68
Total Invested Cash							\$5,246,000		\$ 44,061,129.72			0.407%	\$ 14,457.65

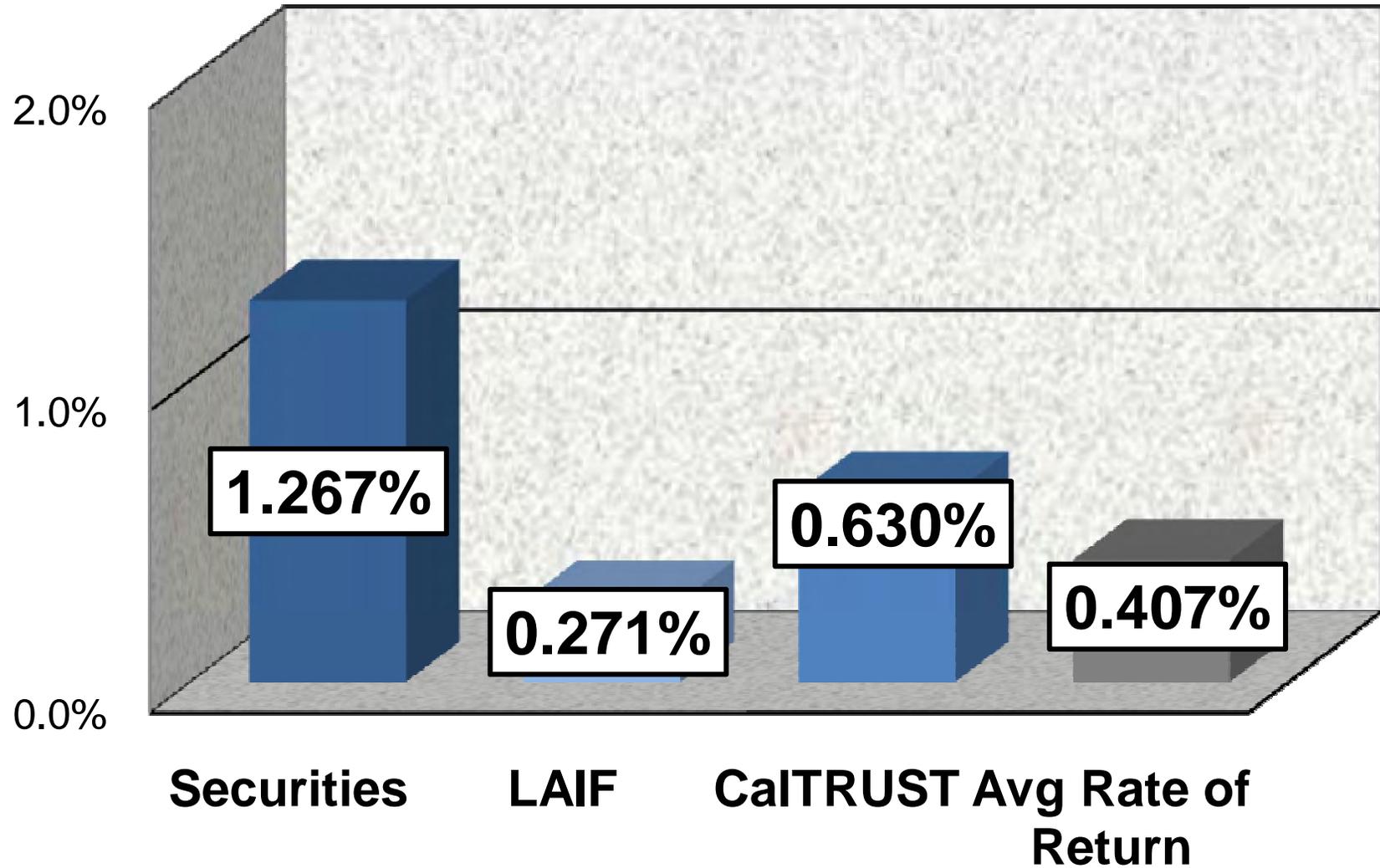
Key to Security Type:

- FHLB = Federal Home Loan Bank
- FHLMC = Federal Home Loan Mortgage Corporation
- FNMA = Federal National Mortgage Association
- CORP = Corporate Note
- CD = Certificate of Deposit
- GDB = Goldman Sachs Bank
- AEC = American Express Centurion

Key to Dealers:

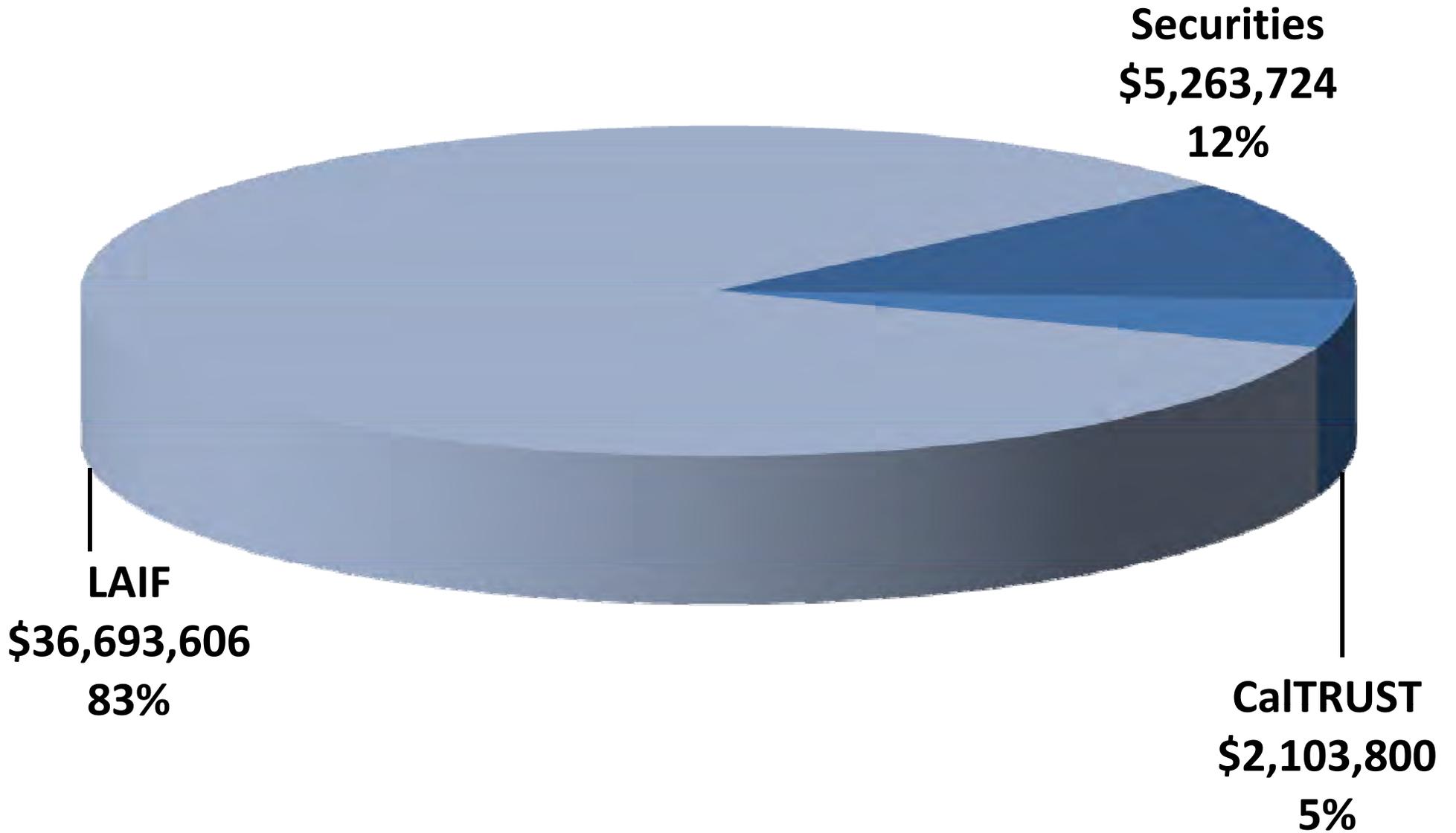
- FCS = FinaCorp Securities
- MBS = Multi-Bank Securities
- MS = Mutual Securities
- RCB = RBC Dain Rauscher
- SA = Securities America
- TVI = Time Value Investments
- WMS = Wedbush Morgan Securities

Interest Rate Analysis



Investments

\$44,061,130



Interest

\$14,458

LAIF
\$8,446
58%

Securities
\$4,886
34%

CalTRUST
\$1,126
8%

