

California **Stormwater Quality** Association

2008 Annual Report



CALIFORNIA STORMWATER
QUALITY ASSOCIATION™

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ON THE COVER: *Clouds break over the Sacramento River Delta after a storm.*
Photo © Lightart, Dreamstime.com

Innovation



ABOVE, TOP TO BOTTOM: *Site of California Coastal Cleanup on the Calaveras River near the University of the Pacific, Stockton; CASQA coordinated Feedback Forum - Construction General Permit training, November 2008; Laguna Creek flooding its banks during heavy storm, Sacramento County; CASQA offers expanded access to its website.*

Photos, top to bottom: by Stephanie Reyna; courtesy of the Office of Water Programs; by Carmel Brown; montage by Beverly Catli Design

Message from the Chair

I am pleased to present the 2008 Annual Report of the California Stormwater Quality Association (CASQA). This Report represents an assessment by the Board of Directors, Executive Director, and Committee and Subcommittee Chairs of the activities, accomplishments and financial health of the organization. It also shows ways in which CASQA has worked to advance the practice, regulation, and science of stormwater management and provided support for the interests of a growing cadre of stormwater management professionals.

2008 has been a challenging year on many fronts but CASQA continues to grow and is a strong and vital organization as evidenced by:

- High levels of membership and renewal
- Record northern California attendance for CASQA's annual conference in Oakland
- Strong participation in existing committees and the formation of a new Training Subcommittee
- High attendance at quarterly meetings and the introduction of new meeting webcast capability to increase statewide participation
- Improvement of ongoing communications such as the Update and *Water Quality NewsFlash*
- Introduction of a training program on CASQA's *Municipal Stormwater Program Effectiveness Assessment Guidance*
- Initiation of a new "true source control" approach for stormwater management
- Participation in the development of a guidance manual for Low Impact Development (LID)

CASQA has been heavily involved in providing guidance and commentary on key legal and regulatory actions that have the potential to affect stormwater programs throughout California for many years ahead including:

- Municipal Action Levels and Effective Impervious Area requirements in the draft Ventura municipal stormwater permit
- Numeric Action Levels, Numeric Effluent Limits, Advanced Treatment Systems, and other requirements in the draft statewide general construction stormwater permit
- Requirements for small municipalities and others in the proposed statewide general Phase II stormwater permit
- Prohibitions and special conditions on discharges of stormwater to Areas of Special Biological Significance
- The Writ of Mandate issued pursuant to *Arcadia et al vs. the State Water Resources Control Board* suspending stormwater regulation under the Los Angeles Regional Water Board Basin Plan
- Regulation and registration of pesticides that impact stormwater

2009 promises to be even more challenging as many of the regulatory actions above move forward to public hearings and subsequent implementation against the backdrop of difficult economic times. I ask for your continued support as a member of CASQA in 2009 so that the organization can continue to provide these important services, including guidance and training on new permit requirements, in a timely and cost effective manner.

Chris Crompton – Chair of CASQA Board of Directors



Stormwater management canal

The California Stormwater Quality Association assists the State of California, the United States Environmental Protection Agency (USEPA), municipalities, special districts and businesses in developing and implementing effective stormwater quality management programs in California. CASQA is a leader in helping California comply with the municipal, industrial, and construction National Pollutant Discharge Elimination System (NPDES) stormwater mandates of the federal Clean Water Act.

ORGANIZATIONAL STRUCTURE

Executive Leadership

The CASQA Directors (eleven elected volunteers) provide the vision and direction for CASQA, and exercise the association's corporate powers. Since 2002, the Board of Directors has guided the establishment of CASQA as a widely recognized and well respected nonprofit, educational, scientific, and professional association. In 2004, CASQA retained Geoff Brosseau to serve as Executive Director. As Executive Director, Mr. Brosseau manages the day-to-day activities of CASQA, serves as the primary liaison with members, government agencies, and other organizations, and helps to achieve the vision for the future and growth of CASQA.

The Board of Directors creates committees that accomplish the goals of CASQA. The primary committee is the Executive Program Committee (EPC), which directs the technical work of the association through subcommittees. Other standing Board committees are: Membership, Bylaws Review, Awards, and Finance.

Subcommittees of the EPC

Fourteen subcommittees focus on different areas of stormwater management, under the auspices of the EPC. The basic charter of each subcommittee is outlined in the following summary. For more information, please visit www.casqa.org.

BEST MANAGEMENT PRACTICES (BMPs) provides contemporary information on BMPs primarily through the BMP Handbooks (see far right column) related to BMPs.

CONFERENCE serves to increase awareness and knowledge of stormwater quality management issues through developing the annual CASQA conference and associated workshops.

CONSTRUCTION identifies emerging issues and tracks trends and regulatory requirements for construction stormwater dischargers; assists members with identifying possible solutions to evolving regulatory requirements.

EFFECTIVENESS ASSESSMENT provides input and guidance on stormwater program effectiveness assessments; developing a standardized conceptual approach to evaluating municipal program elements.

INDUSTRIAL ensures the issues and concerns of regulated industrial stormwater discharger members are represented in policies / regulations, including permitting and numeric effluent limits.

LEGISLATION tracks stormwater-related legislation in the California Senate and Assembly, and United States Congress; prepares quarterly legislative summaries for CASQA members; prepares fact sheets on key legislation that can be used by members to educate their organizations about potential impact of proposed legislation.

MONITORING AND SCIENCE improves scientific and technical basis of stormwater management programs by developing research and monitoring priorities, and seeking collaborators, partners, and grant funding for needed research.

PESTICIDES addresses pesticide uses that impact stormwater discharges; provides input to USEPA and the California Department of Pesticide Regulation (DPR) to improve regulations; compiles relevant information; assists members with compliance strategies; coordinates its activities with other agencies statewide.

PHASE II seeks to educate and engage Phase II programs in stormwater management issues; provides a forum for information exchange.

POLICY AND PERMITTING develops comments and testimony on State, USEPA, and precedent-setting regional policies and permitting initiatives; promotes the development of a statewide stormwater policy.

PUBLIC INFORMATION / PUBLIC PARTICIPATION provides a forum for stormwater public outreach professionals to share ideas; assists in coordinating outreach efforts in California.

TRAINING oversees the development and implementation of long-term sustainable training program to meet the needs of California stormwater practitioners.

WATERSHED MANAGEMENT AND IMPAIRED WATERS promotes the development and application of appropriate water quality standards through tracking and commenting on 303d listings and policy and implementation of Total Maximum Daily Loads (TMDLs); facilitates source control; provides guidance on hydromodification.

WEBSITE maintains CASQA website as a stormwater management resource for members and the general public.

BEST MANAGEMENT PRACTICES HANDBOOKS

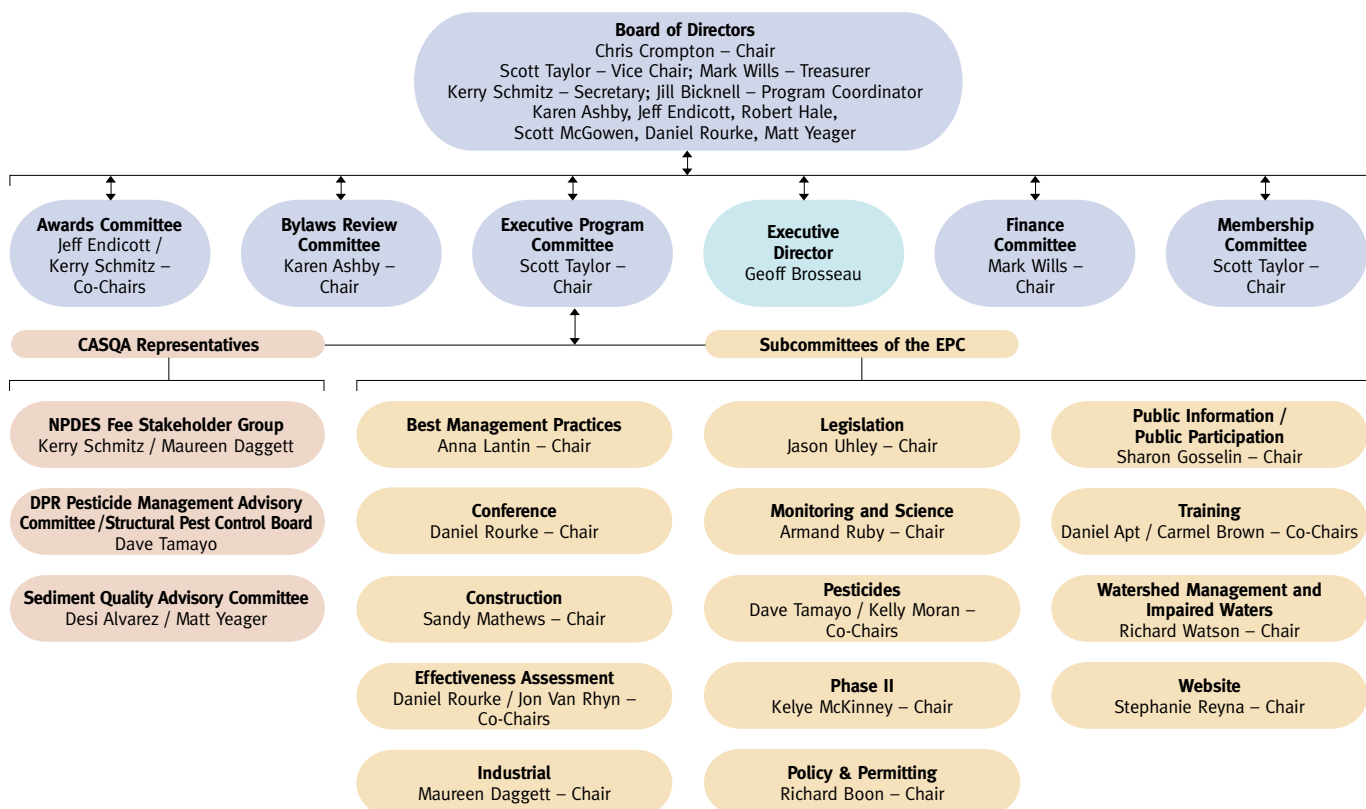
The Stormwater Best Management Practice Handbooks have provided excellent guidance to the stormwater community since their publication by the Stormwater Quality Task Force (SWQTF) in 1993. The SWQTF became the California Stormwater Quality Association in 2002 and in 2003 CASQA published an updated and expanded set of four BMP Handbooks addressing the issues of New Development and Redevelopment, Construction, Industrial and Commercial, and Municipal. These Handbooks reflect the current practices, standards, and significant amount of knowledge gained since the early 1990s about the effectiveness of BMPs. The Construction Handbook is currently undergoing revisions to reflect the new Construction General Permit.



The BMP Handbooks provide contemporary information to four key sectors to help improve stormwater quality (from left to right): New Development and Redevelopment, Construction, Industrial and Commercial, and Municipal.

CASQA 2008 ORGANIZATION

Below is a representation of CASQA's organizational structure.

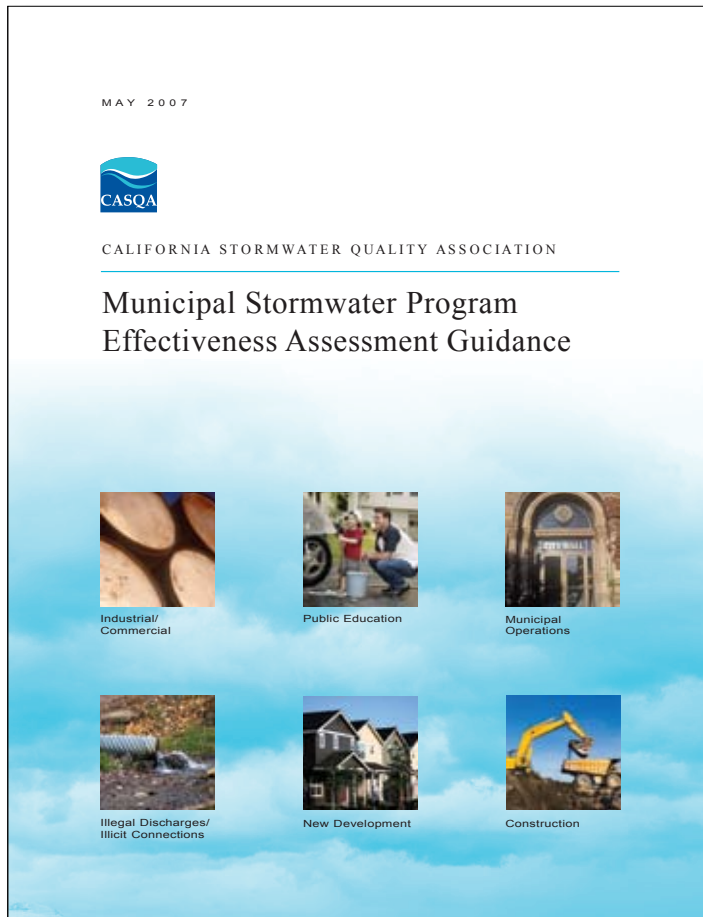
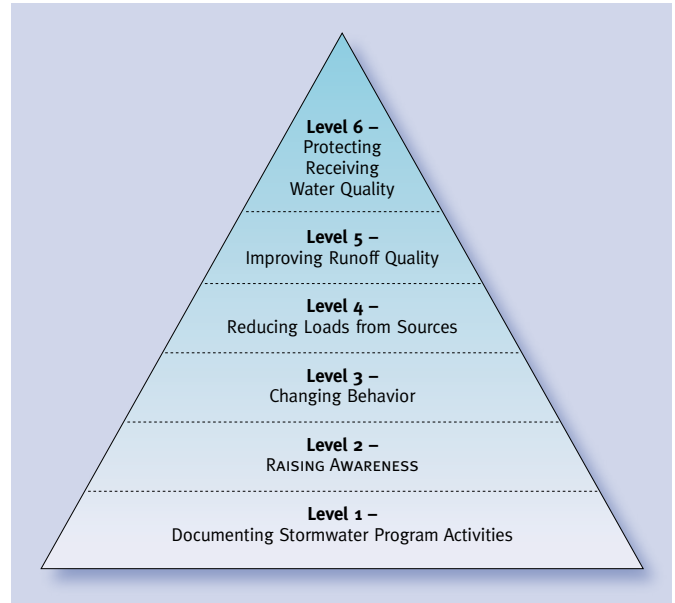


CASQA MUNICIPAL STORMWATER PROGRAM EFFECTIVENESS ASSESSMENT GUIDANCE

Municipalities regulated under NPDES permits for stormwater discharges continue to be challenged when trying to determine the effectiveness of their stormwater management programs. Last year, CASQA responded to this critical need by publishing the *Municipal Stormwater Program Effectiveness Assessment Guidance* manual (2007), pictured below. The guidance manual provides program managers with:

- an **OVERVIEW** of basic program effectiveness assessment concepts,
- a **STRATEGY** for assessing the effectiveness of stormwater program elements and control measures,
- detailed information on effectiveness assessment **METHODS** and their applicability,
- **FACT SHEETS** describing effectiveness assessment for specific stormwater program elements, and
- general guidelines on **OVERALL PROGRAM ASSESSMENT** and **WATER QUALITY ASSESSMENTS**.

ASSESSMENT OUTCOME LEVELS



The CASQA guidance manual has been well received by both the regulated community and regulators. In 2008, CASQA developed and conducted workshops throughout California on the guidance manual – training over 200 Phase I and Phase II municipal stormwater program managers and staff, as well as regulators, on the details of effectiveness assessment through instruction and interactive exercises and quizzes. Additionally, USEPA hosted a national webcast featuring the CASQA Program Effectiveness Assessment manual in which over 2,000 stormwater quality professionals participated. The CASQA manual has also been incorporated into other guidance documents, including USEPA's *MS4 Program Evaluation Guidance* manual and *Evaluating the Effectiveness of Municipal Stormwater Programs* document. Increasingly, reissued municipal stormwater permits include more significant and specific requirements regarding effectiveness assessment, and reference the CASQA guidance manual. Legislation passed in 2007 requires the State of California to develop and publish stormwater program effectiveness assessment guidance in 2009. It appears the CASQA Program Effectiveness Assessment manual will be a significant reference for that statewide guidance.

As the concepts of effectiveness assessment measurement continue to be incorporated into stormwater permits, CASQA will continue to provide and improve upon the *Municipal Stormwater Program Effectiveness Assessment Guidance* manual, based on lessons learned and continued dialogue with regulators and municipal stormwater program managers.

Awards of Excellence

CASQA RECOGNIZES EXCELLENCE IN STORMWATER QUALITY MANAGEMENT

CASQA presented five awards at its Fourth Annual Stormwater Conference awards luncheon held on September 23, 2008 in Oakland. The awards program identifies and recognizes exemplary leadership, outstanding projects, activities, and contributors in the field of stormwater quality management.

“These projects embody CASQA’s goals to advance stormwater quality management, science, and regulation. We recognized these projects and individuals because of their success, innovation, and dedication to the improvement of stormwater quality in California,” said Jeff Endicott, Awards Committee Chair.

Award Categories

This year’s award recipients received recognition for excellence in five categories:

THE CASQA LEADERSHIP AWARD was presented to Sandra Mathews for her outstanding contributions to the stormwater management profession over the past fifteen years. Ms. Mathews, a CASQA member, officer, and Board Chair, has led efforts to develop and successfully implement industrial and construction stormwater programs throughout the state during her years in the stormwater management profession.

THE OUTSTANDING STORMWATER BMP IMPLEMENTATION AWARD was awarded to the Santa Clara Valley Urban Runoff Pollution Prevention Program (SCVURPPP) for its Trash BMP Tool Box Structural and Institutional Controls Project. This project identified effective trash removal alternatives for municipal staff that manage and maintain drainage systems.

THE OUTSTANDING STORMWATER RESEARCH PROJECT AWARD was presented to Sustainable Conservation for the Brake Pad Partnership Project, which is a long-term study of the impacts of copper from brake pads on receiving water quality.

THE OUTSTANDING STATEWIDE STORMWATER NEWS, INFORMATION, OUTREACH, AND MEDIA AWARD was presented to Caltrans for their “Don’t Trash California” campaign, which educates the public about the effects of littering and encourages people to take steps to prevent or reduce littering through radio, television and print ads.

THE OUTSTANDING REGIONAL STORMWATER NEWS, INFORMATION, OUTREACH, AND MEDIA AWARD was presented to the SCVURPPP for their Green Gardener Training and Outreach Program. This program brings quality training to landscape professionals about environmentally-friendly gardening practices.

CASQA awards are available to both public and private projects and individuals from public agencies and private businesses. Award candidates must be nominated by a CASQA member and are evaluated on demonstrated excellence, ingenuity, creativity, professionalism and documented results. Awards may be made at local, regional and statewide levels.

1. *Sustainable Conservation studies the impacts of copper from brake pads on water quality, through the Brake Pad Partnership Project.*
2. *“Don’t Trash California” trash can wraps on beaches in Los Angeles and Orange Counties are part of the multi-level community outreach program by Caltrans.*



3. A page in the Trash BMP Toolbox produced by the SCVURPPP illustrates implementation points for trash BMPs.

4. Sandra Mathews accepts the CASQA Leadership Award from Awards Committee Chair Jeff Endicott.

5. Santa Clara Green Gardener Class, Spring 2008.

Recognition

The Fourth Annual Conference

STORMWATER MANAGEMENT – COLLABORATION + INNOVATION TO ACHIEVE WATER QUALITY GOALS

CASQA's Fourth Annual Conference was held September 22-24 at the Oakland Marriott City Center. The three day conference was the first held in the Bay Area with approximately 50 vendors, and over 500 attendees and sponsors.

Conference attendees were treated to an inspiring and thought-provoking keynote address by the renowned Dr. Peter Gleick of the Pacific Institute. The speech explored the future of managing stormwater runoff in the 21st century as the earth warms and climate patterns change – and the need to manage stormwater as a local community resource.



Keynote speaker Dr. Peter Gleick

“Clean water is finite, but it’s renewable if we’re careful. The problem is that we don’t use it properly and don’t plan our systems properly. If we did, there would be enough to meet everyone’s needs. We give it inadequate attention, inadequate funding, and—all too often—incompetent governance. It’s a problem of will and commitment.”

– Peter Gleick, from [Outside Magazine Online](#), April 2007

Exhibitors help conference attendees gather information about a wide variety of stormwater quality management products and services.

Come join us in San Diego for the 5th Annual CASQA Conference at the Hilton San Diego Resort & Spa, November 1-4, 2009.

As in past conferences, this year’s conference consisted of three pre-conference workshops and two days of technical sessions.

The pre-conference workshops explored emerging water quality issues, and for the first time, conducted a workshop focusing on Phase II community issues.

- I. Planning Practices and Tools to Address Emerging Water Quality
- II. Phase II Synergy - Bringing Small MS4s Together
- III. Assessing and Managing Trash in Stormwater

The conference featured 70 technical sessions with four concurrent tracks. A wide range of subjects were covered ranging from emerging LID issues and case studies, pesticide and bacteria studies and policy updates, public education, water quality monitoring, and treatment.

Concurrent with the technical sessions, exhibitions by 50 vendors featured a wide variety of stormwater products and services. Conference attendees interacted with the exhibitors and gained a better understanding of the products and services offered to assist stormwater professionals, throughout the conference and at an exhibitors reception.



Photo by Danny Pham, San Francisco Estuary Project

Member Spotlight

CALTRANS AWARD-WINNING STATEWIDE STORMWATER MANAGEMENT PROGRAM

Managing stormwater on public highway systems is challenging due to the linear and distributed nature of the infrastructure, especially in urban environments with limited or no rights-of-way. The extensive public use of the California highways (over 329 billion annual vehicle miles traveled) adds to the challenges of Caltrans stormwater management efforts. The Caltrans Statewide Stormwater Management Program is a cross-functional integrated statewide program designed to protect water quality while fulfilling Caltrans mission to “IMPROVE MOBILITY ACROSS CALIFORNIA.” Caltrans strategies to control stormwater pollutants vary across the state due to the diversity of geographic, climatic, population, and regulatory conditions. This comprehensive program addresses how stormwater quality pollution prevention measures are incorporated into roadway improvement projects through the project delivery process from planning and

“The United States Environmental Protection Agency gave Caltrans a national award for its strategies to control a large number of pollutants that vary across the geography, geology, climate, and population of this large state. Caltrans researched highway runoff and best management practices to prevent runoff, and executed an award-winning statewide public education campaign called, ‘Don’t Trash California,’” said Alexis Strauss, Director of USEPA, Region IX, Water Division in May of 2008, highlighting USEPA’s Award to Caltrans for Stormwater Quality Management.

The Program has received numerous other awards over the last year, including the Outstanding Statewide Stormwater News, Information, Outreach, and Media Project Award at CASQA’s 2008 Annual Conference. Other program awards received in 2008 include the Green California Leadership Award (Transportation) and the California Transportation Foundation Environmental Enhancement Program of the Year.



Photo courtesy of Caltrans

design, through construction. Stormwater quality is also addressed in day-to-day operations and maintenance practices along its 50,000 roadway lane miles and many non-highway facilities.

The first Caltrans Statewide NPDES Permit was approved in July 1999. Throughout the term of the Permit, Caltrans has improved program elements, approved new BMP devices for implementation, conducted a variety of applied studies on highway runoff, implemented a statewide public education campaign, and trained functional staff. Caltrans annually assesses and evaluates the overall effectiveness of its stormwater program. To integrate functional decision making, a Stormwater Management Advisory Team was established and meets regularly for continuous improvement and increased quality control.

Caltrans studies problem pollutants and evaluates the performance of stormwater BMPs. It includes stormwater sampling data from thousands of runoff events collected at over 180 monitoring stations to characterize the runoff. Caltrans has completed over 80 BMP pilot studies – including detention devices, infiltration devices, media filters, vegetated treatment, Multi-Chambered Treatment Trains (MCTT), traction sand traps, and other devices. In addition, Caltrans has completed numerous erosion control studies for the highway environment.

Caltrans is a long-time member of CASQA. Scott McGowen, Chief Environmental Engineer, and Leader of the Caltrans Stormwater Management Program, serves on the CASQA Board of Directors.

Earthen side-sloped partial sedimentation sand filter BMP, located along Interstate 5, is designed to protect the quality of water entering adjacent rivers and streams from roadway stormwater runoff in northern California.



Financial Summary

The California Stormwater Quality Association was incorporated as a non-profit organization in the State of California on July 26, 2002 to assist entities that are charged with stormwater quality management responsibilities for the development and implementation of stormwater quality goals and programs within the state of California. Operations commenced January 1, 2003.

CASQA is organized and operated exclusively for charitable and educational purposes within the meaning of Section 501(c)(3)

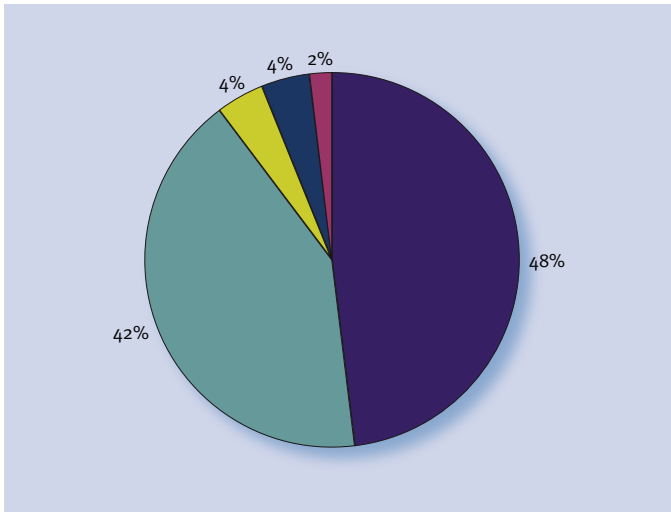
of the Internal Revenue Code. CASQA follows Financial Accounting Standards Board Statement (SEAS) No. 117, Financial Statements of Not-for-Profit Organizations, for presentation of its financial statements.

The financial summary below for the year ended December 31, 2007 is drawn from the REPORT ON AUDIT OF FINANCIAL STATEMENTS for the year ended December 31, 2007 and 2006 (Burr, Pilger & Mayer, LLP).

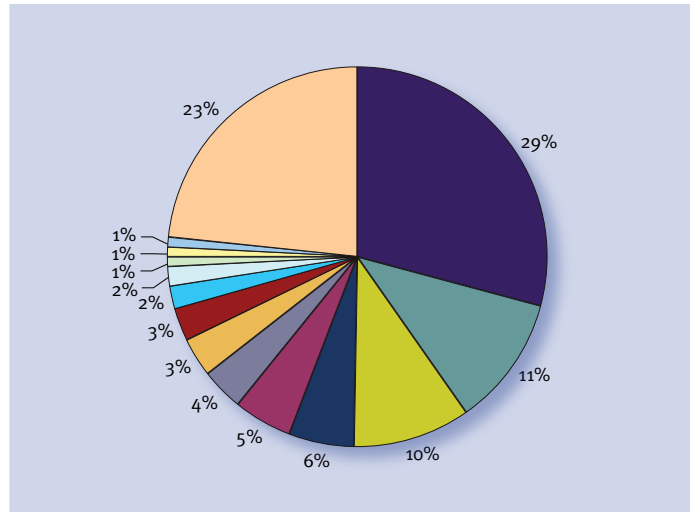
STATEMENT OF ASSETS AND LIABILITIES

Assets	\$	349,837
Liabilities	\$	84,881
Net Assets		\$ 264,956

REVENUES \$600,246



EXPENSES \$593,283



- Membership
- Conference
- General Membership Meetings
- BMP Handbooks
- Investment Interest
- < 1% Contributions
- < 1% Miscellaneous

- Conference
- Training
- Policy & Permitting Subcommittee
- General Membership Meetings
- Liaison
- Monitoring & Science Research Priorities
- Pesticides Subcommittee
- Membership
- BMP Handbook Production / Shipping
- Effectiveness Assessment Guidance
- BMP Basin Sizer Program
- Legislation
- Executive Program Committee
- Supporting Services -
 - General & Administrative
 - Professional Fees -
 - Legal, Management, Audit, & Tax
 - Websites
 - Office Supplies & Teleconferencing
 - Bank and Tax Fees
 - Insurance
 - Miscellaneous
 - Postage, Delivery & Printing
- < 1% Construction
- < 1% CASQA Awards
- < 1% BMPs Subcommittee
- < 1% Watershed Management & Impaired Waterbodies
- < 1% Phase II
- < 1% Industrial

BOARD OF DIRECTORS

Chris Crompton

Chair, *County of Orange*

Scott Taylor

Vice-Chair, *RBF Consulting*

Mark Wills

Treasurer, *Riverside County Flood Control and Water Conservation District*

Kerry Schmitz

Secretary, *County of Sacramento*

Jill Bicknell

Executive Program Coordinator,
Santa Clara Valley Urban Runoff Pollution Prevention Program

Karen Ashby

Larry Walker Associates

Jeff Endicott

AEI-CASC Engineering, Inc.

Robert Hale

Alameda Countywide Clean Water Program

Scott McGowen

California Department of Transportation

Daniel Rourke

Fresno Metropolitan Flood Control District

Matt Yeager

San Bernardino County Flood Control District

Geoff Brosseau

Executive Director

EXECUTIVE PROGRAM COMMITTEE

Scott Taylor*†

Vice Chair / EPC Chair, *RBF*

Anna Lantin†

BMPs Chair, *RBF*

Daniel Rourke*

Conference Chair,
Fresno Metro Flood Control District

Sandy Mathewst

Construction Chair, *Larry Walker Associates*

Jon Van Rhyn / Daniel Rourke

Effectiveness Assessment Co-Chairs,
San Diego County / Fresno Metro Flood Control District

Maureen Daggett†

Industrial Chair, *ECMS*

Jason Uhley

Legislation Chair, *Riverside County Flood Control*

Armand Ruby†

Monitoring & Science Chair,
Armand Ruby Consulting

Kelly Morant† / Dave Tamayo

Pesticides Co-Chair / Co-Chair and Representative to DPR Pest Management Advisory Committee and Structural Pest Control Board,
TDC Environmental / County of Sacramento

Kelye McKinney

Phase II Chair, *City of Roseville*

Richard Boon

Policy & Permitting Chair, *County of Orange*

Sharon Gosselin

Public Information/Public Participation Chair,
Alameda Countywide Clean Water Program

Daniel Apt† / Carmel Brown†

Training Co-Chairs, *RBF / CKB Consulting*

Richard Watson†

Watershed Management &
Impaired Waters Chair, *RWA*

Stephanie Reyna

Website Chair, *City of Tracy*

Desi Alvarez / Matt Yeager*

Sediment Quality Advisory Committee
Representatives, *City of Downey / San Bernardino County Flood Control District*

Kerry Schmitz* / Maureen Daggett†

Fee Stakeholder Group Representatives,
County of Sacramento / ECMS

EXECUTIVE PROGRAM COMMITTEE AT-LARGE MEMBERS

Jill Bicknell* / John Fusco

Santa Clara Valley Urban Runoff Pollution Prevention Program

Scott Schales / Frank Wu

Los Angeles County

Kevin McGillicuddy†

Roscoe-Moss

Mark Grey† / Kathryn Hubbard†

Building Industry Association of Southern California

Scott McGowen* / Karl Dreher

California Department of Transportation

Mack Walker†

Larry Walker Associates

Gerhardt Hubner / Arne Anselm

Ventura County Watershed Protection District

Drew Kleis

City of San Diego

Gene Estrada

City of Orange

EXECUTIVE PROGRAM COMMITTEE ADVISORS

Eugene Bromley

USEPA

Bruce Fujimoto

SWRCB

Member affiliations listed in italics

** EPC members also on the CASQA Board of Directors (minimum of 2 required)*

† EPC members who are affiliate members (minimum of 1/3 of filled vacancies required)

Collaboration



CALIFORNIA STORMWATER
QUALITY ASSOCIATION™

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QUALITY ASSOCIATION**

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