

CONNECTING THE DROPS FROM SUMMIT TO SEA



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California Stormwater Quality Association

Message from the CASQA Chair

DANIEL APT
CASQA CHAIR



photo courtesy of Daniel Apt

THANK YOU for helping make this year another successful one for stormwater management and for the California Stormwater Quality Association

(CASQA). Our year began in January with our “Annual Federal and State Regulatory Program Update” meeting in San Diego. In May, we held our second general meeting in Sacramento with the theme “Stormwater: Big Plans.” In September, we held our third ever webcast-only general meeting on the topic of “Water Quality Credit Programs: Alternative Approaches to Infrastructure Implementation.” Finally, we convened in Riverside in October for our largest and most successful CASQA conference ever!

We collaborated successfully at both the state and national level, working with State Water Board staff on several projects for the Strategy to Optimize Resource Management

of Storm Water (STORMS), and facilitating the establishment of the California Stormwater Authority and other initiatives. I am very happy to report that CASQA is financially sound and stable, our membership is growing, and I am proud of our significant accomplishments in 2018 as described in this annual report.

CASQA’S PRIORITIZATION PROCESS TO IMPLEMENT OUR VISION

In 2018, CASQA developed a process to identify annual priorities and to align the allocation of resources with those priorities. This effort was a significant undertaking and will yield substantial long-term benefits.

One notable benefit of this process is ensuring that CASQA’s actions are focused on implementing our Vision (available on

CASQA’s website at www.casqa.org/about/vision). This process therefore elevates the Vision from a list of good ideas into a focused, actionable, achievable plan. In developing our priorities for the coming year, CASQA actively engaged many aspects of our organization and received input from the membership (via a survey open to all members), the Executive Program Committee (EPC), the Executive Director and Assistant Executive Director, and the Board of Directors. This input was invaluable and will be a critical component of developing our priorities each year. See [The Year Ahead](#) section of this annual report for CASQA’s 2019 Priorities.

STORMWATER FUNDING (VISION ACTION 2.7)

Assisting local agencies with stormwater funding is one of the highest priorities for CASQA. In 2018, CASQA participated in the SB 231 Implementation Working Group to develop a strategy for the sustainable implementation of the legislation. CASQA, with input from State Water Board staff, also initiated the development of a California-specific stormwater funding resources website that will include the CASQA stormwater funding white papers, a table of alternative funding sources organized by multiple benefits, and guidance on performing a sustainability analysis to identify multiple benefits for stormwater projects such as Low Impact Development (LID), green infrastructure, and regional projects. Additionally, several members of CASQA participated in the STORMS Subcommittee for Project 4B – Stormwater Funding Barriers.

NATIONAL COORDINATION

CASQA works at many levels to support our membership. The following identifies key activities of CASQA at the national level in 2018:

- **National Green Infrastructure Certification Program:** As a member of the Water Environment Federation (WEF) Governing Body / Certification Council, CASQA participated in the design and development of the National Green Infrastructure Certification Program and then worked with WEF to bring the program to California—one of the first states to host and conduct the week-long training.
- **U.S. Environmental Protection Agency (EPA) Municipal Separate Storm Sewer System (MS4) Permit Evolution Workshops:** EPA Region 9 convened two workshops to identify lessons learned from nearly 30 years of permitting municipal stormwater and to explore changes in response. The first workshop was held in December 2017 and focused on the standard program elements (i.e., minimum control measures, or MCMs) and water quality-based control requirements. The second workshop was held in March 2018 and assessed stormwater program monitoring, evaluation, tracking, and reporting provisions. CASQA assisted in the planning, and was a participant in, both workshops.

- **National Municipal Stormwater Alliance (NMSA):** CASQA is a founding member of NMSA, a national level organization working towards the advancement of stormwater management. NMSA provides an opportunity for CASQA to collaborate with similar organizations from other states and provides another venue to work directly with EPA on stormwater issues. In 2018, CASQA supported NMSA's organizational efforts (e.g., encouraging other states to form statewide stormwater quality organizations and join NMSA) as well as national initiatives that assist the CASQA membership (e.g., discussions with the EPA on the Waters of the US Rule).

STATEWIDE COORDINATION

CASQA continues to work proactively and productively with the State Water Board. The following four initiatives highlight key efforts in 2018:

- **STORMS:** STORMS is a strategy-based initiative developed and managed by the State Water Board that is closely related to CASQA's Vision and its strategic actions. The mission of STORMS is "to lead the evolution of stormwater management in California by advancing the perspective that stormwater is a valuable resource, supporting policies for collaborative watershed-level stormwater management and pollution prevention, removing obstacles to funding, developing resources, and integrating regulatory and non-regulatory interests." The STORMS program is

WE COLLABORATED SUCCESSFULLY AT BOTH THE STATE AND NATIONAL LEVEL, WORKING WITH STATE WATER BOARD STAFF ON SEVERAL STORMS PROJECTS AND FACILITATING THE ESTABLISHMENT OF THE CALIFORNIA STORMWATER AUTHORITY.

advised by an Implementation Committee, of which CASQA is a key member. Implementation Committee members act as liaisons between STORMS staff and other stormwater professionals, champion the need for key projects, and provide critical review, advice, and other resources during project implementation. Additionally, many CASQA members participated in several of the STORMS project advisory groups and committees. CASQA also worked with State Water Board STORMS staff and Department of Water Resources staff on the promotion and better integration of stormwater as a resource in Integrated Regional Water Management Plans (IRWMPs), consistent with CASQA's Vision (Vision Action 1.1).

- **Joint Powers Authority (JPA):** Prompted by needs and opportunities for collaboration coming out of the STORMS program, CASQA succeeded in the efforts to facilitate the establishment of a JPA, the California Stormwater Authority, between the State Water

Board and two initial signatory agencies, Fresno Metropolitan Flood Control District and Alameda County Flood Control and Water Conservation District. The JPA will provide a vehicle for state and local agencies to not only work together on key projects, but to facilitate funding for the implementation of projects. Specifically, the JPA will allow for collective funding and collaboration on stormwater efforts, support and provide research services, and develop tools to assist public and private entities in complying with municipal, industrial, and construction stormwater permits. The signatory agencies have formed the JPA Board of Directors and CASQA has been contracted by the JPA to provide administrative services.

- **Trash Amendments:** In 2018, CASQA hosted a series of training workshops throughout California on Trash Full Capture Equivalency and On-Land Visual Trash Assessment (OVTA). These training workshops supported the needs of municipalities and non-traditional MS4s

in meeting the requirements of the Trash Amendments. Throughout the year, CASQA also continued to work closely with the State Water Board staff as they developed a list of multi-benefit treatment control Best Management Practices (BMPs) that are considered full capture systems, as long as they meet certain design criteria. There are a few key technical issues remaining and CASQA will continue to provide comments and solutions in 2019.

- **Urban Pesticide Reduction:** The State Water Board is developing the Urban Pesticide Amendments to the Ocean Plan and Inland Surface Waters, Enclosed Bays, and Estuaries Plan. The Amendments project is one of the initial priorities of the State Water Board's STORMS strategic initiative (Project 6a – *Establish Statewide Framework for Urban Pesticide Reduction*). The Amendments are expected to help institutionalize the Department of Pesticide Regulation's (DPR's) more effective, proactive regulation of pesticides. In 2018, an advisory committee, on which CASQA has been heavily involved, provided information and materials for development of the following amendment components (1) an inter-agency coordination framework, (2) a statewide monitoring framework, and (3) suggested permit language for MS4 permittees. State Water Board staff anticipates public release of the proposed amendments in 2019.

REGULATORY INITIATIVES

Below are a few of the significant regulatory initiatives in which CASQA has participated with the State Water Board (unless otherwise noted). For a more complete list of regulatory initiatives in which CASQA participated in 2018, see [Appendix B](#).

- Bacteria Provisions and Variance Policy
- Biostimulatory and Biological Integrity Amendments
- Industrial General Permit (IGP) Amendments
- Permit Fees
- Pesticides Registrations / Re-evaluations (EPA, California DPR)
- Sediment Quality Objectives Amendments
- STORMS Stormwater Strategy and Projects
- Toxicity Provisions
- Trash Amendments
- Waters of the U.S. Rule (EPA)

CASQA WORK PRODUCT APPROVALS

This past year the Board approved a number of work products, guidance documents, position papers, and a petition:

- **CASQA Position Paper: *Consideration of Wet Weather in Regulatory Actions:*** The purpose of this document is to support implementation of CASQA Vision Action 2.3 (Augment and Implement Basin Plan Amendment Process; see [Appendix A](#)), to develop a strategy to consciously consider

wet weather separately during objective development, and to provide a structure for modifying existing water quality objectives in the future. The position paper is available on CASQA's website: www.casqa.org/resources/position-papers.

- **Guidance Document: *Trash Amendments Track 2 Implementation Plan Checklists:*** To manage and align expectations for the content of the implementation plans required under the Trash Amendments, CASQA developed guidance in the form of Track 2 Implementation Plan Checklists (consistent with the Trash Amendments and 13383 Orders).
- **Guidance Document: *Understanding Use of HUC 10 Watersheds Impairments for Assessing Monitoring Requirements:*** This document provides guidance to permittees under the Statewide General Permit for Storm Water Discharges Associated with Industrial Activities, Order 2014-0057-DWQ in determining how to assess their monitoring requirements for a facility located in an impaired watershed as identified by the 303(d) list (watershed size based on HUC 10).
- **Pesticides Subcommittee FY 17-18 Annual Report (Pesticides Subcommittee):** This annual report provides CASQA members focused information on efforts to prevent pesticide pollution in urban waterways.

- **Guidance Document for Effectiveness Assessment – Source Contribution Tools and Methodologies Information Database (Version 1.0); Summary of the CASQA Source Contribution Tools and Methodologies Survey Memorandum; CASQA Information Database:** CASQA conducted a comprehensive review of existing approaches and tools for use in evaluating source contributions (outcome level 4) from key source categories and target audiences. This work effort was coordinated amongst three CASQA subcommittees (Effectiveness Assessment, BMPs, and Watershed Management and Impaired Waters) and produced these three products, posted to CASQA's website under the Effectiveness Assessment portal: www.casqa.org/effectiveness_assessment.
- **Good Housekeeping Videos: *Annual Hotspot Comprehensive Inspection; Concrete Work and Saw-Cutting; Minor Spill and Leak Cleanup; Storm Drain Maintenance; Surface Cleaning and Pressure Washing:*** Training staff on good housekeeping best management practices is a required component of all municipal stormwater permits. The CASQA Phase II Subcommittee has produced videos to help with the challenge of providing this training. The series of five videos is available free to CASQA members. Non-members can purchase an annual subscription: www.casqa.org/resources.

THIS PAST YEAR THE BOARD APPROVED A NUMBER OF WORK PRODUCTS, GUIDANCE DOCUMENTS, POSITION PAPERS, AND A PETITION.

- **Product-Chemical Combination Petition (Tires-Zinc) to the Department of Toxic Substances Control (DTSC):** A 2015 CASQA report identified major and minor sources of zinc in runoff and determined that tire abrasion results in a significant loading of zinc in urban stormwater runoff. On May 31, 2018, with the support of the State Water Board, CASQA submitted to DTSC a Product-Chemical Combination Petition (Tires-Zinc), which has now been published on DTSC's CalSAFER website. The petition includes examples of elevated zinc concentrations in urban runoff and identifies the 30 waterways currently 303(d)-listed as impaired by zinc. Zinc is the governing or primary pollutant of concern in some watershed programs. The petition also presents edge-of-pavement runoff monitoring by the California Department of Transportation (Caltrans) showing elevated zinc concentrations before the runoff comes into contact with other sources such as galvanized drains, fencing, or traffic barriers.

14TH ANNUAL CONFERENCE

The CASQA 2018 conference was held October 15–17 in Riverside. Once again, the CASQA Annual Conference proved its reputation as the premier forum for information, data and technical exchange, and networking on stormwater. We continued to break attendance records, with this conference attracting more than 1,200 participants over the 3-day conference.

This year's conference theme, "*Connecting the Drops from Summit to Sea*," reflected its location in the upper portion of the Santa Ana River Watershed, an area of diverse habitat and extreme topography. At this year's conference we "connected the drops" by providing an extensive program of training workshops, technical presentations, and posters addressing a range of challenges



and opportunities facing urban stormwater practitioners, including sustainability, source control, conservation, stormwater capture, communication, pollutant management, and permitting.

The conference also highlighted the recent integrating approaches developed by STORMS and the CASQA Vision to establish stormwater as a vital resource through focused efforts and resources.

"I WANT TO THANK ALL OUR CASQA MEMBERS, VOLUNTEERS, SUBCOMMITTEES, EXECUTIVE PROGRAM COMMITTEE, AND BOARD OF DIRECTORS FOR YOUR DEDICATION, HARD WORK, AND COMMITMENT THIS PAST YEAR TOWARDS BETTER STORMWATER MANAGEMENT AND STEWARDSHIP."

– DANIEL APT

CASQA OUTSTANDING SERVICE AWARDS

CASQA is first and foremost a volunteer-driven organization. The following individuals were recipients of CASQA's Outstanding Service Award, recognizing their contributions to CASQA in 2018:

- **Cathleen Garnand (5th Award)**
Leadership of the Membership Committee and development of the Good Housekeeping video series, which included working and coordinating with the Training Subcommittee and Phase II Subcommittee
- **Cory Jones (1st Award)**
Michael Yang (1st Award)
Updates to the BMP Handbooks
- **Rachael Keish (2nd Award)**
Leadership of the Non-Traditional Phase II workgroup, leading to establishment of a new CASQA Subcommittee and coordination and outreach efforts to schools
- **Matt Lentz (7th Award)**
Presentation to National Academies Multi-Sector General Permit Panel on CASQA's behalf
- **Kim Porter (2nd Award)**
Outstanding leadership within the Phase II community and mentoring a new Subcommittee Co-Chair

- **Dave Tamayo (6th Award)**
Development of comment letters and the Annual Report for the Pesticides Subcommittee
- **Richard Watson (3rd Award)**
Development of a petition to the DTSC regarding impact of zinc in tires

It's been my pleasure to be your Chair for the past year. I want to thank all our CASQA members, volunteers, subcommittees, Executive Program Committee, and Board of Directors for your dedication, hard work, and commitment this past year towards better stormwater management and stewardship.

I look forward to serving as the Chair of the CASQA Board of Directors in 2019, and to another year of progress towards achieving our objectives and Vision for managing stormwater in the 21st century!

– Daniel Apt
CASQA Chair

About Us: The CASQA Organization

THE CALIFORNIA STORMWATER QUALITY ASSOCIATION IS DEDICATED TO DEVELOPING AND IMPLEMENTING EFFECTIVE STORMWATER QUALITY MANAGEMENT PROGRAMS.

CASQA membership is comprised of stormwater practitioners, National Pollutant Discharge Elimination System (NPDES) permit holders and parties engaged in the improvement of stormwater quality and employed by private corporations, municipalities, and the state and federal governments.

ORGANIZATIONAL STRUCTURE:

BOARD OF DIRECTORS

The CASQA Directors (11 elected volunteers) provide the vision and direction for CASQA, manage its activities and affairs, and exercise the Association's corporate powers.

The Board of Directors is responsible for: (1) adopting an annual budget, (2) adopting the annual dues schedule, and (3) adopting policies and positions concerning regulations, legislation and litigation. Since 2002, the Board of Directors has guided CASQA to become a widely-recognized and well-respected nonprofit, educational, scientific, and professional association.

OFFICERS

Officers of the corporation are: Chair, Vice-Chair, Treasurer, Secretary, and Executive Program Coordinator. Officers are elected by the Board of Directors and serve two-year terms.

EXECUTIVE DIRECTOR AND ASSISTANT EXECUTIVE DIRECTOR

The CASQA Executive Director and Assistant Executive Director manage the day-to-day activities of CASQA, serve as the primary liaison with members, government agencies, and other organizations, and help to set and achieve the vision for the future and growth of CASQA.

COMMITTEES OF THE BOARD OF DIRECTORS

The Board of Directors creates committees that accomplish the goals of CASQA, each consisting of two or more directors, and other persons that the directors may appoint. Standing board committees are: Audit, Awards, Bylaws, EPC, Finance, Events, Membership, and Vision.

Audit oversees the annual audit of CASQA's finances and policies and procedures, and preparation of tax returns.

Awards identifies and recognizes exemplary leadership, outstanding projects, activities, and contributions to the field of stormwater quality management.

Bylaws annually reviews the bylaws and makes recommendations for revisions as necessary to ensure smooth and efficient operation of CASQA.

About Us: The CASQA Organization (continued)

Events ensures a coordinated approach is used to plan, design, and conduct all CASQA events, including the annual conferences, quarterly General Membership meetings / webcasts, and trainings. Plans the quarterly meetings / webcasts.

Executive Program comprises no more than 27 members and directs the technical work of the association through subcommittees.

Finance manages CASQA's fiscal resources, including proposing the annual operating budget and overseeing all financial transactions.

Membership retains existing members, outreaches to potential new members, and improves membership value.

Vision maintains the CASQA Vision, oversees development and achievement of annual objectives that support the Vision, and manages the relationship of the Vision to other organizations' strategies for stormwater (e.g., Water Boards' STORMS).

OTHER LEADERSHIP:

SUBCOMMITTEES OF THE EXECUTIVE PROGRAM COMMITTEE

Fifteen subcommittees focus on different areas of stormwater management under the auspices of the EPC, chaired by the Vice Chair of CASQA. Composed of an all-volunteer membership, the subcommittees develop products, direct CASQA consultants and provide information to improve surface water resources in California.



CASQA Executive Program Committee meeting (Left to right: Amanda Carr, Karen Ashby, and Daniel Apt)

The basic charter of each subcommittee is outlined in the summary that follows.

Best Management Practices provides contemporary information on BMPs and LID based on scientific advances and practical tools through the CASQA web portals.

Conference serves to increase awareness and knowledge of stormwater quality management issues through developing the CASQA Annual Conference and associated workshops.

Construction identifies emerging issues, and tracks trends and regulatory requirements for construction stormwater permittees and assists members with identifying possible solutions to evolving regulatory requirements.

Effectiveness Assessment provides input and guidance on stormwater program effectiveness assessments, including a standardized conceptual approach to evaluating municipal program elements.

Industrial ensures the issues and concerns of industrial stormwater permittees are represented in policies and regulations, including permitting and numeric effluent limits.

Legislation tracks stormwater related legislation in the United States Congress and in both the California Senate and Assembly, prepares quarterly legislative summaries for CASQA members, and 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, as well as seeking collaborators, partners, and grant funding for needed research.

Non-Traditional Phase II Seeks to educate and engage non-traditional MS4 programs in stormwater management issues; provides a forum for information exchange.

Pesticides addresses pesticide uses that impact stormwater discharges, provides input to EPA and DPR to improve regulations, compiles relevant information, assists members with compliance strategies, and coordinates its activities with other agencies statewide.

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

Policy and Permitting develops comments and testimony on state, EPA, and precedent-setting regional policies and permitting initiatives to promote the development of a statewide stormwater policy.

Public Information/Public Participation provides a forum for stormwater public outreach professionals to share ideas and assists in coordinating outreach efforts in California.

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

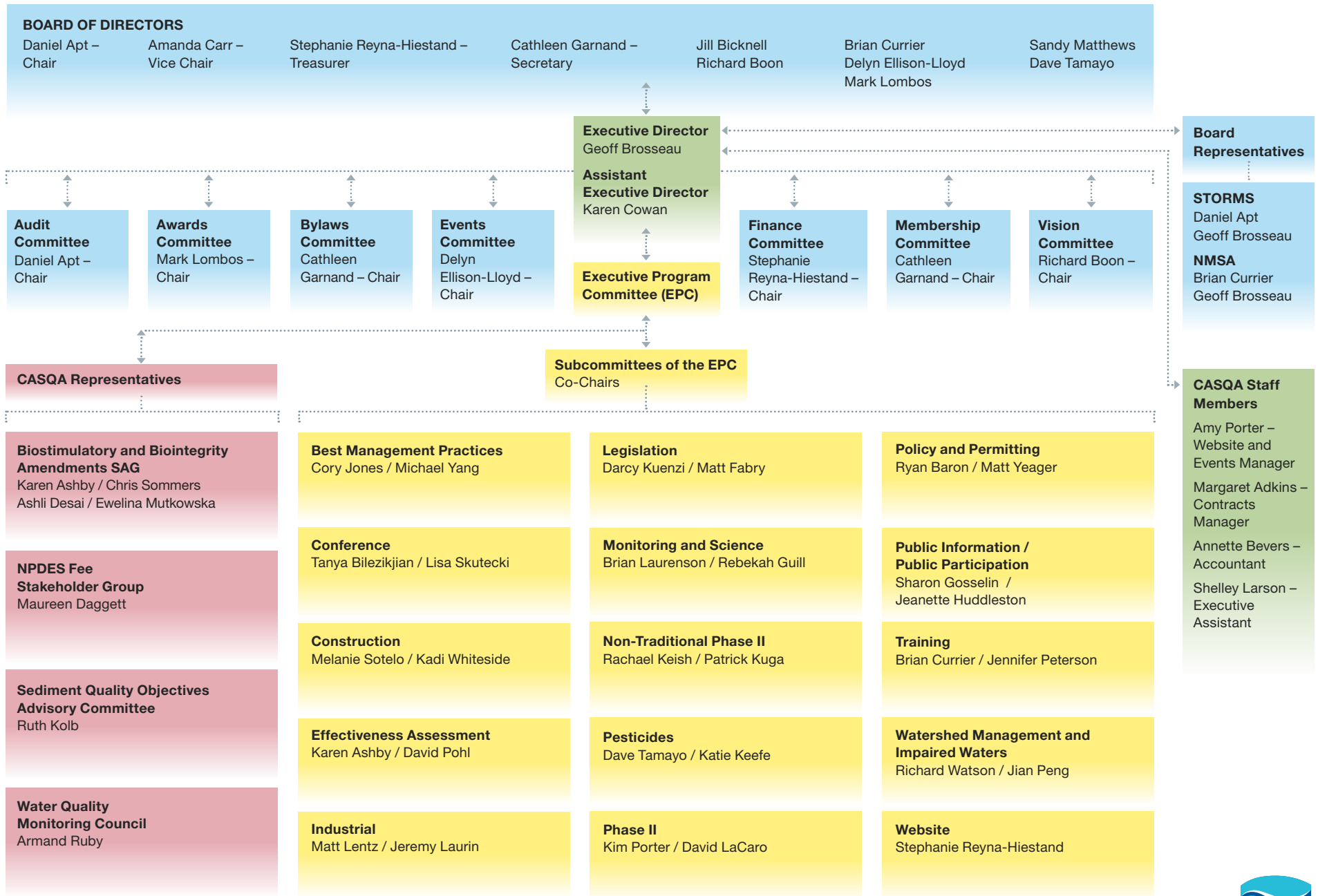
Watershed Management and Impaired Waters promotes the development and application of appropriate water quality standards through tracking and commenting on 303(d) listings and policy and implementation of Total Maximum Daily Loads (TMDLs), facilitates source control, and provides guidance on hydromodification management.

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

CASQA REPRESENTATIVES

CASQA encourages individuals to serve on committees and other groups to represent the interests of stormwater quality management and CASQA members.

2018 CASQA Organizational Structure



Subcommittee Accomplishments

FOLLOWING ARE BRIEF REPORTS FROM SUBCOMMITTEES OF THE EPC FOR 2018

In 2018, CASQA's 15 subcommittees worked diligently to support our membership and the mission of CASQA. As CASQA's subcommittees are all-volunteer efforts, we encourage the CASQA membership to get engaged, learn from your colleagues, and add your voice and perspective to the conversations.

The following highlights a few of the subcommittee accomplishments in 2018.

CONFERENCE SUBCOMMITTEE

Tanya Bilezikjian / Lisa Skutecki, Co-Chairs

- Attracted record-breaking attendance at the annual conference, with more than 1,200 participants over the 3 days

- Featured 10 workshops, a full-day field tour, 58 exhibitors, 32 poster presentations, 89 presentations, and 11 panels in the 15-track technical program
- Produced a Chinese language webcast of the International LID Workshop
- Highlighted recent integrating approaches developed by the State Water Board's STORMS program and the CASQA Vision to establish stormwater as a vital resource through focused efforts and resources
- Conference presentations are available as PDFs linked to the Training Workshop and Technical Program presentation titles in the [2018 Conference Agenda](#)

EFFECTIVENESS ASSESSMENT SUBCOMMITTEE

Karen Ashby and David Pohl, Co-Chairs

- Developed a Source Contribution Tools and Methodologies Online Database (posted on CASQA website)
- Completed a functional update of the Effectiveness Assessment portion of the CASQA website
- Provided overview of the Source Contribution Tools Database and Other Effectiveness Assessment Tools available to CASQA members (CASQA conference)

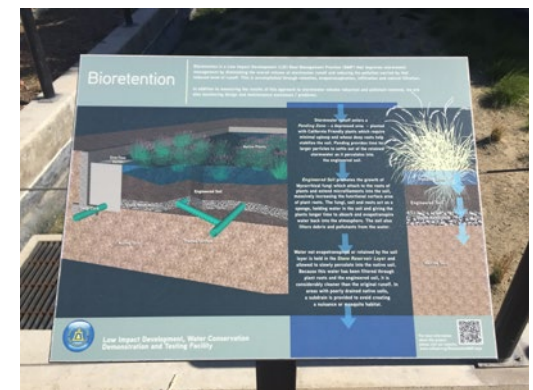


- Provided overview of CASQA Effectiveness Assessment guidance and tools to Southern California Coastal Water Research Project (SCCWRP) Commission's Technical Advisory Group (CTAG)

NON-TRADITIONAL PHASE II SUBCOMMITTEE

Rachael Keish and Patrick Kuga, Co-Chairs

- Established itself as a full subcommittee of the EPC (creating CASQA's 15th subcommittee)
- Conducted informal outreach sessions to K-12 schools and community colleges with the State Water Board
- Assisted Non-Traditional permittees with compliance with the Trash Amendments



Natural drainage basin made of rock (left), and bioretention sign in Riverside County (right), as seen on the Day 1 field trip at the annual conference



Karen Ashby accepting the 2018 CASQA Leadership Award (left) and a session (right) at the annual conference



PHASE II SUBCOMMITTEE

David LaCaro and Kim Porter, Co-Chairs

- Provided a funding portfolio presentation to subcommittee members focused on stormwater funding (i.e., pay for performance contracts) and a strategy portfolio.
- Worked with the Training Subcommittee to develop five training videos for municipal good housekeeping: (1) *Annual Hotspot Comprehensive Inspection*, (2) *Concrete Work and Saw-Cutting* (3) *Minor Spill and Leak Cleanup* (4) *Storm Drain Maintenance*, and (5) *Surface Cleaning and Pressure Washing*.

PESTICIDES SUBCOMMITTEE

Katie Keefe and Dave Tamayo, Co-Chairs

- Provided scientific staff support for the development of the Urban Pesticide Amendments (UPAs) by the State Water Board.
- Provided scientific support for the first steps in establishing the Urban Pesticides Coordinated Monitoring program (that is envisioned to effectively replace MS4-specific pesticides and toxicity monitoring requirements), including assisting the State Water Board in obtaining a \$100,000 grant to support development of its initial monitoring program.

- Communicated with DPR regarding fipronil in urban waters, leading to DPR formally approving label changes that it negotiated with registrants. The label changes are anticipated to reduce fipronil concentrations in California urban runoff by more than 90 percent.
- Published *Pesticides Subcommittee Annual Report and Effectiveness Assessment* (available to CASQA members).
- Reviewed scientific literature in order to update and prioritize the Pesticide Watch List, which was shared with pesticides regulators and with government agency and university scientists to stimulate generation of surface water monitoring and aquatic toxicity data for the highest priority pesticides.
- Provided regular regulatory and science updates and monthly regulatory action plans.
- Prepared written comment letter to EPA on the malathion EPA registration review risk assessment/Endangered Species Act evaluation providing California-specific information on urban malathion use and its relationship to California's more than 20 urban watershed 303(d) listings.



CASQA training video

Subcommittee Accomplishments (continued)



POLICY AND PERMITTING SUBCOMMITTEE

Ryan Baron and Matt Yeager, Co-Chairs

- Tracked key regulatory issues at the federal, state, and regional board level
- Briefed subcommittee members on key regulatory and permitting issues
- Discussed and developed 11 comment letters and 4 testimonies for a wide range of issues. See [Appendix B](#) for the detailed list.

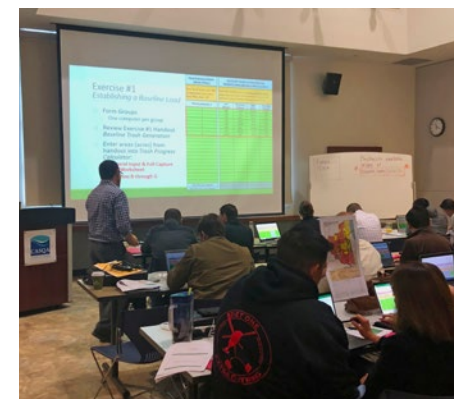
- In 2019, the subcommittee will work across subcommittees to support the development of comment letters on statewide issues, as well as supporting the Phase II Subcommittee, as needed, with the reissuance of the General Phase II MS4 Permit. The subcommittee will also track pending Phase I permit renewals by the Los Angeles, San Diego, San Francisco, and Santa Ana regional water boards.



WATERSHED MANAGEMENT AND IMPAIRED WATERS SUBCOMMITTEE

Jian Peng and Richard Watson, Co-Chairs

- Developed a petition to the Department of Toxic Substances Control to add motor vehicle tires to Priority Product List (for Zinc)
- Monitored Implementation of SB 346 (the bill that requires reduction in the copper content of brake pads)
- Assisted with Opposition to AB 3014 (a bill that proposed an exemption from the 5% copper standard enacted through SB 346)



Position papers /comment letters /testimony (left); Improving source control (middle); Full capture trash equivalency and on-land visual trash assessment training (above)

The Year Ahead: Initiatives for 2019

CASQA'S COLLABORATIVE INITIATIVES FOR 2019

The following describes some of the initiatives that CASQA, in collaboration with others, has planned for 2019 to help our members and implement our 2019 Priorities.

IMPLEMENTATION OF CASQA'S 2019 PRIORITIES

As detailed in the Message from the Chair, CASQA developed and completed a comprehensive prioritization process in 2018 to identify priorities of the CASQA Vision actions for 2019. The development of the process to identify CASQA annual priorities is a significant step toward achieving the CASQA

Vision, and will help guide CASQA's efforts and resources for the future, to ensure our Vision is realized. CASQA's Vision is the driver for projects and initiatives undertaken by CASQA and the prioritization process now takes the Actions in the Vision and establishes a focused, actionable and achievable annual plan to implement the Vision. In implementing the prioritization process, valuable input was received from the CASQA membership, Executive Program Committee, the Executive Director and Assistant Executive Director, and the Board of Directors. Using this valuable input and following the newly established

prioritization process, the CASQA Board of Directors discussed, deliberated on, and ultimately approved the 2019 CASQA Priorities. The Priorities are grouped into several categories, to further focus CASQA's efforts on the most pressing issues (*see sidebar, below*).

CASQA's Board of Directors, Executive Director, Assistant Executive Director, Committees, and subcommittees will engage in specific projects and initiatives to implement the actions and objectives identified in the following 2019 CASQA Priorities:

CASQA's 2019 Priorities

Priority / Level	Description	Lead
Vision Action 2.2	Articulate Stormwater Program Priorities	EPC / ED
Vision Action 2.7	Create Funding Opportunities	ED / BoD
Vision Action 1.3	Provide Effective and Efficient Solutions through True Pollutant Source Control	EPC
Vision Action 2.5	Establish Guidance/Tools to Support Sustainable Stormwater Programs	EPC / ED
Vision Action 3.1	Create Opportunities for Multiple Agency and Collaborative Efforts to Demonstrate the Value of Stormwater to the Public	EPC
Org Goal 1	Develop Comment Letters and Testimony (Regulatory Support and Legal Counsel Contracts)	EPC
Org Goal 2	Provide Leadership for Statewide Permit Renewals / Amendments	EPC
Vision Action 1.1	Develop Guidance for Integrated Management of Water Resources that Promotes Stormwater as a Resource	ED / BoD
Vision Action 1.4	Work with DPR to Control Toxicity in Receiving Waters from Pesticide Application	EPC
Vision Action 2.3	Augment and Implement Basin Plan Amendment Process	ED
Vision Action 2.4	Develop Policies and Permitting Framework to Support Sustainable Stormwater Management	ED

- Color coding reflects the priority level for each priority:
Red = Mission Critical **Orange** = Important **Canary** = Medium
Gray = Medium (but minimal expectation of resource allocation; more opportunistic approach)
- ED = Executive Director / Association Management Contract
 BoD = Board of Directors (overall CASQA Budget) EPC = Executive Program Committee Budget
- **Vision Action 2.3 and Vision Action 2.4** are included for 2019, but minimal work (compared to the other priorities) is anticipated.



PRIORITY LEVEL: MISSION CRITICAL

Articulate Stormwater Program Priorities (Vision Action 2.2)

The goal of Vision Action 2.2 is to ensure the most critical water quality issues associated with stormwater are identified and corresponding strategies are developed to address the issues. The following are the elements that CASQA will be pursuing in 2019 to achieve this goal:

- Identify the highest priority issues for the stormwater program.
- Collectively develop strategies for high-priority stormwater program issues. Such strategies may include developing consistent permit requirements, modifying Basin Plans, and providing guidance to support technical and regulatory issues.

- Develop and deliver comments and testimony on technical, regulatory, and legal aspects of priority issues.

Stormwater Funding (Vision Action 2.7)

Assisting local agencies with stormwater funding continues to be one of the highest priorities for CASQA.

In 2019 CASQA will assist its members with their funding needs through the following activities:

- Completion of a California-specific stormwater funding website that will include the CASQA stormwater funding white papers, sustainable stormwater program funding, a table of alternative funding sources organized by multiple benefits, and guidance on performing a sustainability analysis to identify multiple benefits for stormwater projects such as LID, green infrastructure, and regional projects.
- Participation in the SB 231 Implementation Working Group and the planning and development of the strategy for sustainable implementation of the legislation.
- Serving as the administering entity for the California Stormwater Authority, a Joint Powers Authority formed to facilitate combining and leveraging funds from multiple agencies to conduct statewide programs and projects.
- Continued participation in the STORMS Funding Subcommittee.

PRIORITY LEVEL: IMPORTANT

Provide Effective and Efficient Solutions through True Pollutant Source Control (Vision Action 1.3)

True Source Control is the starting place and offers another opportunity to achieve sustainable stormwater management. Eliminating or significantly reducing the existence of potential pollutants negates the need to prevent contact between potential pollutants and stormwater or to remove potential pollutants from stormwater. Doing so will reduce resources spent on assessment, regulation, planning, and implementation of new stormwater management activities to address new impairments, which will free up resources to focus on existing impairments and enhancing stormwater programs. CASQA will continue to focus on true source control activities to achieve sustainable stormwater management through:

- Continuing to support and monitor implementation of SB 346, legislation that requires the reduction of the copper content in brake pads.
- Supporting the petition submitted to the DTSC to add motor vehicle tires to the Priority Products List (for zinc).

Establish Guidance / Tools to Support Sustainable Stormwater Programs (Vision Action 2.5)

Continuously updated technical guidance is necessary to support the long-term success of stormwater programs. The goal of Vision Action 2.5 is to ensure technical and regulatory guidance is provided to support sustainable stormwater programs. The following are the elements that CASQA will be pursuing in 2019 to achieve this goal:

- Update the CASQA BMP Handbooks.
- Develop guidance for regulatory priorities.
- Develop and host events to assist stormwater professionals to remain current on the latest issues and developments.
- Create and host information places where stormwater professionals can access the most current, relevant, and high-quality information available, and interact with like professionals.
- Create and provide training for stormwater professionals.

ESSENTIAL TO MOVING SUSTAINABLE STORMWATER MANAGEMENT FORWARD IN CALIFORNIA IS DEMONSTRATING THE VALUE OF STORMWATER TO THE PUBLIC.

Create Opportunities for Multiple Agency and Collaborative Efforts to Demonstrate the Value of Stormwater to the Public (Vision Action 3.1)

Essential to moving sustainable stormwater management forward in California is demonstrating the value of stormwater to the public. With a public understanding of the value of stormwater, the public is more likely to support stormwater projects and funding for stormwater projects. The public is also more likely to support infrastructure projects that are multi-objective and multi-benefit as compared to single-purpose projects. The potential number of funding sources is also greater for multi-objective projects. The goal of Vision Action 3.1 is to establish and define a basic set of multi-benefit projects and programs that a stakeholder agency can initiate. The following are the elements that CASQA will be pursuing in 2019 to achieve this goal:

- Identify stakeholder agencies to participate in this action.
- Identify funding sources that each agency uses for capital improvements, programs, maintenance, and land acquisition and the limitations on the use of those funds.

- Identify at least one multi-benefit project type or program that includes two or more types of agencies that can be implemented by municipalities or other stakeholders.
- Publish a report on the findings of this action with completed project scenarios.
- Collaborate on STORMS Project 2a: Increase Stakeholder Collaboration to Promote Stormwater as a Resource.

Develop Comment Letters and Testimony

An essential element of CASQA's priorities in 2019 is to continue the development of comment letters and providing testimony regarding important issues to CASQA and the CASQA membership. With the assistance of the CASQA subcommittees, such as the Policy and Permitting Subcommittee, CASQA will continually evaluate regulatory issues, identify those that substantively impact our membership, and develop comment letters and testimony that proactively and productively effect change.

Provide Leadership for Statewide Permit Reissuances / Amendments

Also essential to CASQA is providing leadership for statewide permit reissuances and amendments. Statewide permits affect numerous permittees, including municipalities, construction, and industrial permittees. In 2019 the State Water Board will be preparing to reissue the Construction General Permit (2019) and the Phase II Small MS4 Permit (2020). With assistance from the Construction Subcommittee and the Phase II Subcommittee, CASQA will engage and work with the State Water Board regarding these reissuances. Additionally, with the assistance of the Industrial Subcommittee CASQA will continue to engage the State Water Board regarding implementation of the Industrial General Permit.

PRIORITY LEVEL: MEDIUM

Develop Guidance for Integrated Management of Water Resources that Promotes Stormwater as a Resource (Vision Action 1.1)

Stormwater is a valuable resource that should be managed in an integrated manner with other water resources. Capture and use of stormwater can augment water supplies either through direct capture and storage for direct use, or recharge of groundwater aquifers. Evaluation of options for water resources in California, including stormwater, needs to be completed from a sustainability approach including economic, social, and environmental analysis and valuation.

This type of evaluation and integrated comparison of different water resources will help identify which water resources in different regions of California are the most sustainable. The goal of Action 1.1 is to develop guidance for Integrated Regional Water Management Plans and similar efforts that integrate all of California's water resources to achieve optimum use while protecting the beneficial uses of receiving waters. To help achieve this goal and an integrated water resources management approach, CASQA will focus on the following objectives in 2019:

- Based on the survey and the STORMS Project 1a/1b Report, develop recommendations for incentivizing stormwater use and removing constraints.
- Continue to work with the State Water Board and Department of Water Resources (DWR) to incorporate consideration of stormwater as a resource into development of new regulations and guidance where appropriate, including guidance for IRWMPs.
- Continue to work with the State Water Board and DWR to establish a statewide goal for capturing stormwater and using it as a resource as well as a methodology for tracking stormwater captured.
- Evaluate how stormwater agencies can better collaborate with water districts and sanitation districts to implement integrated stormwater capture projects, including continuing ongoing dialog with water districts and sanitation districts.

Work with DPR to Control Toxicity in Receiving Waters from Pesticide Application (Vision Action 1.4)

Pesticides represent a special and specific challenge to municipal stormwater programs. Licensed for use by the state and EPA and present in concentrations too low for practical removal from stormwater, pesticides are nonetheless commonly found in sufficient quantities to cause toxicity in receiving waters. In response, CASQA, as well as the State Water Board, has actively advocated, with some significant success, for more effective, proactive regulation of pesticides by the California Department of Pesticide Regulation, and the EPA Office of Pesticide Programs (OPP). The goal of Action 1.4 is to develop a regulatory system implemented by EPA OPP and California DPR to identify whether use of a pesticide poses a threat to water quality, and then restrict or disallow those uses proactively so that water quality impacts are avoided. The following are the elements that CASQA will be pursuing in 2019 to achieve this goal:

- Continue to leverage successes at the state level as a key stakeholder in the development of statewide Water Quality Control Plan Amendments for urban pesticides reduction.

- Respond to the immediate need to participate in EPA pyrethroids, fipronil, and imidacloprid reviews (the only such opportunity for the next 15 years) and to support and encourage DPR steps toward expanded pyrethroids and new fipronil mitigation measures.
- Seek EPA risk mitigation for malathion and carbaryl in urban runoff and the continuation of traditional water quality risk assessments in tandem with Endangered Species Act (ESA) evaluations.

VISION OUTREACH AND EDUCATION

As CASQA embarks on implementing our Vision, the Executive Director and Assistant Executive Director will focus on conducting outreach and education in 2019. Meetings will be held across the state, with the purpose of educating key partners and identifying ways to collaborate to achieve CASQA's Vision.

COLLABORATION IS A CORE COMPONENT OF CASQA'S APPROACH AS AN ORGANIZATION AND A KEY SERVICE TO THE CASQA MEMBERSHIP.

COLLABORATION EFFORTS AT THE STATE AND NATIONAL LEVELS

The ubiquitous sources of stormwater pollution and the origination of stormwater in a natural, open system means that stormwater pollution is inherently very difficult for one type of agency to control. Therefore, stormwater agencies are regularly seeking to collaborate with other agencies that have the ability to control potential pollutants at or near their sources (e.g., DPR, DTSC) or to intercept and remove potential pollutants before they are discharged (e.g., publicly owned treatment works, or POTWs). Accordingly, CASQA has focused on facilitating collaborative efforts and has a long and successful history of doing so. Collaboration is a core component of CASQA's approach as an organization and a key service to the CASQA membership.

STATE WATER BOARD'S STORMWATER STRATEGY

CASQA has been quite active in the STORMS Implementation Committee. CASQA looks forward to continued collaboration with the rest of the committee as well as continued participation on subcommittees and project advisory groups for the first phase projects, which include:

- Promoting stormwater capture and use and identifying/eliminating barriers.
- Developing guidance for alternative compliance approaches for municipal stormwater permit receiving water limitations.
- Developing watershed-based compliance and management guidelines and tools.

- Eliminating barriers to funding stormwater programs.
- Establishing a statewide framework for urban pesticide reduction.
- Identifying opportunities for source control and pollution prevention.
- Evaluating the STORMS Phase II and Phase III projects, and assisting with their scoping and implementation.

STATE WATER BOARD INITIATIVES

The State Water Board will likely be making substantial progress and moving forward in 2019 on a number of statewide plan/policy initiatives, including (in alphabetical order):

- Biostimulatory Substances Objective and Program to Implement Biological Integrity (for Perennial Streams & Rivers).
- Construction General Permit reissuance, plus incorporation of TMDL implementation requirements.
- Ocean Plan Triennial Review.
- Phase II Small MS4 Permit reissuance and designation of additional non-traditional MS4s.
- Toxicity Amendments to the Inland Surface Waters, Enclosed Bays, and Estuaries Plan.
- Trash Amendments – implementation requirements and guidance.
- Urban Pesticide Amendments.

As these initiatives develop, CASQA will continue to track their development, participate as official stormwater representatives on advisory groups, and otherwise engage with the State Water Board. CASQA will keep our members informed via the bi-weekly *CASQA NewsFlash*. We invite your participation through the appropriate CASQA subcommittee or CASQA representative.

ENVIRONMENTAL PROTECTION AGENCY

CASQA will continue to engage with EPA Region 9 and headquarters staff in 2019. This engagement will include overarching collaboration as well as the following:

- EPA Region 9 MS4 Permit Workshops follow up: EPA Region 9 held two workshops to examine permit design and discuss lessons learned from more than 25 years of permit implementation. CASQA participated in both workshops and will continue to collaborate with EPA on any associated follow up efforts and actions.
- National Collaboration: CASQA will collaborate with EPA headquarters staff directly and as a member of National Municipal Stormwater Alliance.

NATIONAL MUNICIPAL STORMWATER ALLIANCE

As detailed in the Message from the Chair, CASQA is a founding member of NMSA, a national level organization working towards the advancement of stormwater management. NMSA provides an opportunity for

CASQA to collaborate with similar organizations from other states and provides another venue to work directly with EPA on stormwater issues. In 2019, CASQA will continue to support NMSA's organizational efforts (e.g., encouraging other states to form state-wide stormwater quality organizations and join NMSA) as well as national initiatives that assist the CASQA membership.

CASQA'S ORGANIZATIONAL EFFORTS

CASQA continues to be successful, based upon the strong support, engagement, and volunteer efforts of the CASQA membership. There are several key CASQA efforts that will be a focus for 2019.

Development of CASQA Organizational Goals

In developing the prioritization process in 2018, CASQA identified the need to establish organizational goals (similar in concept, but as a separate document from the Vision). While the Vision is an external look at advancing the management of stormwater, these goals will be an internal evaluation of CASQA and what we want to achieve as an organization. The organizational goals will be evaluated as part of the annual prioritization process and will be included in CASQA's 2020 priorities.

CASQA's Annual Conference

The 2019 CASQA Annual Conference will be held at the Monterey Conference Center on October 7–9, 2019. As demonstrated by the 14th Annual Conference in Riverside in 2018,

the CASQA Annual Conference is the best place for stormwater practitioners to keep up with the latest technical topics, exchange ideas, and network with others in the stormwater quality field. Planning for the 2019 conference has already begun; check the CASQA bi-weekly e-newsletters for abstract and award nomination submittal deadlines, registration deadlines, and other ways you can get involved. All are welcome to participate in the Conference Subcommittee; the monthly call times are posted on the CASQA website in the CASQA calendar.

Member Involvement

For 2019, CASQA's Board of Directors will be considering how the organization can better serve its members. One example is examining how CASQA engages its members throughout the year. CASQA traditionally holds three quarterly general meetings in different parts of the state, in addition to the annual conference, which includes presentations on various topics of interest. In the past couple of years, CASQA has held a webcast in place of one of the in-person general meetings. In 2019, CASQA's Events Committee (formed in 2017) will evaluate if this approach continues to be effective and will look to identify other opportunities to educate and engage the CASQA membership.



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One of the best ways for members to become involved in CASQA is by participating in one of our 15 subcommittees (see page 9 of this annual report). The subcommittees oversee some of the most important technical, regulatory, and policy work of the organization, and are also a great forum in which to learn how other members are addressing permit compliance and program implementation challenges.

If you have additional ideas or suggestions on how CASQA can better serve its members, please contact Daniel Apt, Chair of the Board, or Geoff Brosseau, Executive Director. We look forward to continued engagement, education, and collaboration in 2019, and to advancing stormwater quality management and achieving the CASQA Vision.

Appendix A: CASQA's Vision at-a-Glance

“BIG THINKING PRECEDES GREAT ACHIEVEMENT.”

—WILFERD PETERSON

The following table provides CASQA's Vision at-a-glance.

The full CASQA Vision document, as well the complete text for each Objective, are available at www.casqa.org/about/vision



Principle 1 – Sustainable stormwater management uses runoff as a resource, protects water quality and beneficial uses, and efficiently minimizes pollution.

Action 1.1 – Develop guidance for integrated management of water resources that promotes stormwater as a resource.

Goal – Develop guidance for Integrated Regional Water Management Plans (IRWMPs) and similar efforts that integrates all of California's water resources to achieve optimum use while protecting the beneficial uses of receiving waters.

(IRWMPs) **Objective 1** – Meet with State Water Board and Department of Water Resources (DWR) staff to discuss the goal of Action 1.1 and develop a problem statement as well as general steps for corrective action. Determine the most appropriate approach to guide the development of the stormwater portion of IRWMPs.

(IRWMPs) **Objective 2** – Work with the State Water Board and DWR to develop a guide (model) for the integrated use of all water sources in California that will serve as a required reference document during the development of IRWMPs. The guide should address the following items: [SEE VISION DOCUMENT]

(IRWMPs) **Objective 3** – Work with the State Water Board and DWR to finalize the guide (model) by adopting it as a required reference document. Develop an implementation plan, including scope of work, schedule, resources, and roles (including lead and support), and responsibilities.

(SGMA) **Objective 1** – Meet with State Water Board and DWR staff to discuss the goal of Action 1.1 and how stormwater agencies can play a significant role in the development of various Groundwater Sustainability Plans (GSPs)—statewide and locally—and incorporate stormwater capture and recharge projects into those GSPs. Furthermore, identify actions to coordinate with those DWR and State Water Board divisions responsible for the Sustainable Groundwater Management Act (SGMA) implementation.

Action 1.2 – Identify constraints and opportunities for maximizing stormwater as a resource.

Goal – Identify existing constraints and opportunities to incentivize use of stormwater as a natural resource.

Objective 1 – Survey agencies and review recently adopted Municipal Separate Storm Sewer System (MS4) permits to identify key conflicts and constraints for identifying and implementing projects that use stormwater. Use the Strategy to Optimize Resource Management of Storm Water (STORMS) Project 1a/1b Report as a starting point to develop the survey. Meet with the State Water Board and DWR to discuss the findings.

Objective 2 – Based on the results of the survey, meetings with DWR and State Water Board in Objective 1, and the STORMS Project 1a/1b Report, develop recommendations for ways in which future regulations and guidance can more effectively support use of stormwater as a resource. Provide the State Water Board with ways to incentivize the use of stormwater as a resource and remove constraints that currently exist to support the State Water Board's STORMS program.

Objective 3 – Work with State Water Board and DWR to incorporate consideration of stormwater as a resource in future regulations and establish a statewide goal.

Action 1.3 – Provide effective and efficient solutions through true pollutant source control.

Goal – Develop a list of pollutants in stormwater that should most appropriately be controlled at the source (true source control). Determine the commercial use of each pollutant, and outline a recommended source control approach.

Objective 1 – Assemble a scope of work for a technical report to identify pollutants in stormwater that impact local receiving waters. This effort will largely be a compendium of MS4 annual reports around the state. Assemble a technical advisory team to oversee the development of the technical report.

Objective 2 – Prepare a technical report per significant pollutant that describes the causes of receiving water impairment in urban areas, defines each pollutant and assesses the degree of pollutant control available to municipalities. As an example, each pollutant may be assessed according to the following categories:

- Source characterization – sources, pathways (e.g., stormwater, air deposition), fate; relative amounts of pollutant / uncertainty per pathway
- Whether removal is available through cost effective treatment controls
- Whether true source control is feasible or cost effective
- Whether a Green Chemistry approach is appropriate, and for what industry

The reports should identify partners for collaboration to implement the control for each of the categories defined above. The reports should also include a prioritized implementation plan.

Objective 3 – Provide State Water Board with recommended actions to support true pollutant source control consistent with STORMS Project 6b. Work with the State Water Board, Department of Toxic Substances Control (DTSC), and other agencies to support development of partnerships and collaboration and other actions identified in the technical reports to support true pollutant source control. Work with the Environmental Protection Agency (EPA) to implement true source control work through education and regulation.

Action 1.4 – Work with DPR to control toxicity in receiving waters from pesticide application.

Goal – Develop a regulatory system implemented by EPA Office of Pesticide Programs (OPP) and California DPR to identify whether urban uses of a pesticide pose a threat to water quality, and then restrict or disallow those uses proactively so that water quality impacts are avoided.

Objective 1 – Respond to the immediate need to participate in EPA pyrethroids, fipronil, and imidacloprid reviews (the only such opportunity for the next 15 years) and to support and encourage DPR steps toward expanded pyrethroids and new fipronil mitigation measures.

Objective 2 – Seek EPA risk mitigation for malathion and carbaryl in urban runoff and the continuation of traditional water quality risk assessments in tandem with Endangered Species Act (ESA) evaluations.

Objective 3 – Continue to leverage successes at the state level as a key stakeholder in the development of statewide Water Quality Control Plan Amendments for urban pesticides reduction.

“A VISION IS NOT JUST A PICTURE OF WHAT COULD BE; IT IS AN APPEAL
TO OUR BETTER SELVES, A CALL TO BECOME SOMETHING MORE.”

– ROSABETH MOSS KANTER



Principle 2 – Policies, regulations, guidance, training, and funding need to support sustainable stormwater management.

Action 2.1 – Clarify regulations.

Goal – Propose rulemaking or legislation that clarifies stormwater as non-point source, and clearly outlines expectations of stormwater as different from wastewater and other point sources.

Objective 1 – Confer with national stormwater organizations (e.g., National Municipal Stormwater Alliance [NMSA], Water Environment Federation [WEF], National Association of Flood and Stormwater Management Agencies [NAFSMA], National Association of Clean Water Agencies [NACWA], Natural Resources Defense Council [NRDC]) to explore ideas about rulemaking or legislation that would redefine stormwater as a non-point source of pollutants, or change how stormwater is permitted as a point source. Develop a consensus strategy with interested stakeholders to accomplish this objective.

Objective 2 – Reach out to state and national governmental organizations (e.g., League of California Cities [LCC], California State Association of Counties [CSAC], County Associations of Government) to educate local and state elected officials on the issue. Coordinate with EPA and environmental non-governmental organizations (NGOs).

Objective 3 – Develop and implement a strategy that would redefine stormwater as a non-point source of pollutants.

Action 2.2 – Articulate stormwater program priorities.

Goal – Ensure the most critical water quality issues associated with stormwater are identified and corresponding strategies developed to address the issues.

Objective 1 – Identify the highest priority issues for the stormwater program as a part of the Triennial Review process or other mechanism (e.g., State Stormwater Policy – see Action 2.4, Objective 4).

Objective 2 – Engage stakeholders in a collaborative effort to prioritize the water quality issues associated with stormwater discharges relevant to the region or State. The effort may be led by any of the stakeholders (e.g., Regional Water Boards, permittees, NGOs).

Objective 3 – Identify priorities of the region or state by considering impacts on beneficial uses, maximum benefit of the water body, water use opportunities, and other considerations that affect prioritization. Prioritize pollutants based on considerations.

Objective 4 – Collectively develop strategies for high priority stormwater program issues. Such strategies may include developing consistent permit requirements, modifying Basin Plans, and providing guidance to support technical and regulatory issues.

Objective 5 – Develop and deliver comments and testimony on technical, regulatory, and legal aspects of priority issues.

Action 2.3 – Augment and implement basin plan amendment process.

Goal – Modify water quality standards to reflect sustainable beneficial uses and the nature and impact of stormwater.

Objective 1 – Initiate the Basin Plan amendment process or equivalent state or regional planning effort based on recommendations and priorities established under Actions 1.3 and 2.2 respectively.

Objective 2 – Assess water quality standards per the California Water Code Section 13241. Working with the State Water Board, develop an assessment method reflective of wet weather conditions that would address the following factors to support a Basin Plan amendment: [SEE VISION DOCUMENT]

Objective 3 – Develop an implementation program consistent with §13242 to support revised water quality standards including a schedule and monitoring program. Working with the State Water Board, develop a framework for defining the implementation program required to support the revised water quality standards.

Objective 4 – Amend Basin Plans consistent with the assessment and framework developed above for wet weather conditions. During the triennial review provide input and data to support the reconsideration of water quality standards including assessment of current beneficial uses and application of water quality objectives during wet weather conditions.

Action 2.4 – Develop policies and permitting framework to support sustainable stormwater management.

Goal – Develop a regulatory framework for stormwater that will provide statewide consistency in permitting and Total Maximum Daily Load (TMDL) implementation and support the implementation of sustainable stormwater programs. Provide definitions and requirements as needed to clarify expectations for MS4 programs. Ensure that the framework is implemented statewide.

Objective 1 – Identify constraints and inconsistencies. Use the first of two EPA-sponsored Municipal Stormwater Permit Evolution workshops (December 2017) to confer with interested parties to identify the constraints and inconsistencies as well as benefits and challenges of existing policy and permitting efforts. Prioritize the challenges for subsequent attention in Objective 2 below. It is likely that two of the most important challenges will be defining Maximum Extent Practicable (MEP) standards and creating sustainable pathways for achieving TMDL waste load allocations (WLAs) and complying with receiving water limitations (RWLs).

Objective 2 – Define MEP and RWL compliance and TMDL implementation. Stipulate the mandatory requirements for stormwater program implementation to define MEP using the work already completed by CASQA, State Water Board executive management, Regional Water Boards Executive Officers, and EPA Region 9 stormwater staff, (Statewide Stormwater Permit Design Review, 2011-2012). Likewise, develop an adaptive management approach for TMDL development and implementation and compliance with receiving water limitations. Define any additional priorities identified in Objective 1, and develop a scope(s) and schedule(s) to address in subsequent objectives.

Objective 3 – Define baseline monitoring requirements. Use the second of two EPA-sponsored Municipal Stormwater Permit Evolution workshops (March 2018) and follow-up to convene stakeholders to clarify purpose of the monitoring effort, to clarify standard monitoring methods and procedures, and establish mandatory reporting requirements and format.

Objective 4 – Develop a statewide policy for stormwater. The policy should support an approach that incorporates adaptive management, provides a logical and progressive pathway to water quality protection and promotes green infrastructure. As such, the approach should progress from a narrative definition of technology-based effluent limits (TBELs) to numeric based technology based effluent limits to narrative water quality-based effluent limits (WQBELs) and ultimately, if required, numeric WQBELs.

Objective 5 – Incorporate adaptive management as a pathway for compliance with water quality standards and TMDLs into all MS4 permits. This approach would also include the need to provide options for reviewing and modifying TMDLs based on new information, technology, monitoring results, etc.

Action 2.5 – Establish guidance / tools to support sustainable stormwater programs.

Goal – Ensure technical and regulatory guidance is provided to support sustainable stormwater programs.

Objective 1 – Update CASQA BMP Handbooks. As new information becomes available and technical advances take place, the CASQA BMP Handbooks will need to be updated. Such updates should coincide with the updates of the relevant permits and permitting approaches.

Objective 2 – Develop guidance for regulatory priorities. Pending the results of Action 2.2, it may be necessary to provide guidance to develop site specific objectives, develop technology based effluent limits, characterize natural sources, support a high flow suspension, or develop wet weather standards.

Objective 3 – Update CASQA Program Effectiveness Assessment Manual. MS4s are continually trying to improve their stormwater programs both in effectiveness in addressing water quality issues and in efficiency in minimizing program costs. The CASQA program effectiveness assessment provides the basis for such improvements but should be revised to reflect the watershed approach currently being provided for in permits (see Action 2.6 on the following page) that allow agencies to focus their resources on water quality priorities.

Objective 4 – Develop case studies of adaptive management. Adaptive management is as much art as science and the process and form it takes can vary from situation to situation. Case studies improve our understanding of adaptive management by showcasing the ways the process may be used and the results it can generate.

Objective 5 – Develop and host events (e.g., quarterly meetings, annual conferences) on a regular basis to assist stormwater professionals to remain current on the latest issues and developments. Identify and engage high quality and relevant sources of information.

Objective 6 – Create and host information places (e.g., websites, forums) where stormwater professionals can access current, relevant, and high-quality information and interact with like professionals.

Objective 7 – Create and provide training for stormwater professionals. Create curricula from current, relevant, and high-quality information sources. Identify and engage high quality and experienced trainers.

Action 2.6 – Establish watershed-based or equivalent program.

Goal – Develop process for implementing watershed-based approaches for the MS4 program.

Objective 1 – Assess efforts in Los Angeles, Bay Area, and San Diego to identify the benefits, the challenges, and any recommended changes.

Objective 2 – Work with the State Water Board to incorporate watershed based planning into all MS4 permits. The permits should highlight the need to prioritize watershed based water quality issues and encourage implementation of stormwater programs at the watershed level. Review and incorporate the EPA's Integrated Planning Framework into permits.

Objective 3 – Create opportunities for regional solutions. Initial stormwater permits discouraged regional solutions to water quality issues but more recently this approach has been updated and regional approaches are allowed. The State Water Board should be encouraged to find ways to incentivize regional solutions as part of the State's STORMS program. Incorporate recommendations from EPA-sponsored Municipal Stormwater Permit Evolution workshops (December 2017).

Objective 4 – Create a pollutant trading / credit program framework. Water quality trading is an innovative approach to achieve water quality goals more efficiently and is especially suited for projects and programs that are watershed based and subject to a TMDL. A pilot project should be identified and implemented

Action 2.7 – Create funding opportunities.

Goal – Assist with the development and dissemination of the strategy to use one or more funding options for municipalities to support their stormwater programs to completely or partially eliminate reliance on general funds.

(SB 231 Implementation) Objective 1 – Participate in SB 231 Implementation Working Group and the planning and development of the strategy.

Objective 2 – Develop and disseminate information regarding the strategy and its implementation.

(Joint Powers Authority) Objective 1 – Assist formation of a Joint Powers Authority (JPA), including authorization of State Water Board participation, execution of JPA formation documents, constitution of governance (e.g., Board of Directors), development of governance documents (e.g. Bylaws, Policies and Procedures), and establishment of Administering Entity.

Objective 2 – Assist with securing funding and implementation of first JPA project.

(Funding Information Online Portal) Objective 1 – Develop in collaboration with the State Water Board and as an initiative associated with the STORMS Funding Subcommittee a stormwater funding information online portal.

(Sustainable Streets) Objective 1 – Update Proposition 1 Stormwater Grant Guidance. In the 2018 Stormwater Grant Program solicitation, provide guidance on how to demonstrate the eligibility of transportation elements, including pervious paving and active transportation and transit improvements that reduce greenhouse gases (Roadmap Specific Action 1.3).

Objective 2 – Clarify green infrastructure eligibility in the local streets and roads program. As guidelines are developed in accordance with SB 1 (2017) clarify the eligibility of green infrastructure elements in pavement rehabilitation and other applicable projects (Roadmap Specific Action 1.4).

Objective 3 – Prepare guidance for packaging projects. Prepare statewide guidance on how to package Sustainable Streets projects for specific grants (Roadmap Specific Action 2.4).

“VISION ANIMATES, INSPIRES, TRANSFORMS PURPOSE INTO ACTION.”

– WARREN BENNIS

Action 2.8 – Survey needs and identify costs.

Goal – Identify or develop a system for collecting and analyzing information on needs and costs of compliance for stormwater permittees (construction, industrial, and municipal), and implement it in California.

Objective 1 – Research the EPA and WEF surveys and determine the extent to which they address municipal stormwater in California. Identify any gaps.

Objective 2 – Dependent on the results and recommendations from Objective 1, develop and conduct a survey for MS4s in California, and analyze the results.

Objective 3 – Develop and conduct a survey for construction stormwater permittees in California, and analyze the results.

Objective 4 – Develop and conduct a survey for industrial stormwater permittees in California, and analyze the results.

Objective 5 – Determine the management questions and utility of conducting the surveys on some regular basis.

Principle 3 – Public awareness, understanding, and appreciation of the value of stormwater is essential to sustainable stormwater management.



Action 3.1 – Create opportunities for multiple agency and collaborative efforts to demonstrate the value of stormwater to the public.

Goal – Establish and define a basic set of multi-benefit projects and programs that a stakeholder agency can initiate.

Objective 1 – Identify stakeholder agencies to participate in this action. Potential candidate projects and programs to consider: [SEE VISION DOCUMENT]
Identify funding sources that each agency uses for capital improvements, programs, maintenance, and land acquisition and the limitations on the use of those funds.

Objective 2 – Identify at least one multi-benefit project type or program that includes two or more agencies listed in Objective 1 that can be implemented by municipalities or other stakeholders. Create or document demonstration projects that can be implemented by permittees statewide. For each multi-benefit project or program, develop a detailed “road map” or model manual for the project describing: [SEE VISION DOCUMENT] Multi-benefit projects should focus on urban infrastructure and include the following: [SEE VISION DOCUMENT]

Objective 3 – Publish a report on the findings of this action with completed project scenarios.

Objective 4 – Track plans for STORMS Project 2a. Increase Stakeholder Collaboration to Promote Stormwater as a Resource, and depending on the circumstances, scope out a task(s) to coordinate with, support, or help implement STORMS Project 2a.

Action 3.2 – Create statewide message that establishes stormwater as a resource.

Goal – Within the context of the “Protect Every Drop” campaign, develop a message and outreach materials promoting stormwater as a resource for use in public education.

Objective 1 – Convene a steering committee to agree on the concept framework and direct the development of the “stormwater as a resource” message. The steering committee will be comprised of members from the following entities: [SEE VISION DOCUMENT]

Objective 2 – Draft a work plan. The steering committee will draft a work plan to develop the “stormwater as a resource” outreach message, any materials, and method of dissemination to the public. The work plan will include an action to identify the appropriate and unique target audiences, and messages and delivery customized to each target audience. Work will also include a public outreach plan that uses all traditional and social media formats.

Objective 3 – Implement the public outreach plan. Coordinate outreach statewide with all cooperating agencies.

Appendix B: CASQA Products – 2018

11 COMMENT LETTERS, 5 TESTIMONIES,
3 GUIDANCE DOCUMENTS, 1 CASQA
POSITION PAPER, 8 FINAL CASQA WORK
PRODUCTS, 1 PETITION, AND 1 *AMICUS*
BRIEF WERE DEVELOPED AND PROVIDED
BY CASQA IN 2018.

Comment letters and other materials are available to CASQA members on the CASQA website, or may be obtained by contacting us at info@CASQA.org.

EXECUTIVE DIRECTOR

March 20, 2018 – Comment Letter to the State Water Board in support of the California Stormwater Authority

September 13, 2018 – Comments to State Water Board on proposed FY 18-19 Stormwater Permit Fees

October 10, 2018 – Guidance Document: *Trash Amendments Track 2 Implementation Plan Checklists*

VISION COMMITTEE

May 9, 2018 – CASQA Position Paper: *Consideration of Wet Weather in Regulatory Actions*

CONSTRUCTION SUBCOMMITTEE

June 12, 2018 – Comments to State Water Board on the Conceptual Approach for TMDL Implementation planned for the Draft 2018 Construction General Permit

EFFECTIVENESS ASSESSMENT SUBCOMMITTEE

March 14, 2018 – *Guidance Document for Effectiveness Assessment – Source Contribution Tools and Methodologies Information Database (Version 1.0)*

March 14, 2018 – Summary of the CASQA Source Contribution Tools and Methodologies Survey Memorandum

March 14, 2018 – CASQA Information Database

INDUSTRIAL SUBCOMMITTEE

January 9, 2018 – Testimony to the State Water Board on the Proposed Amendment to the Industrial General Permit

February 14, 2018 – Comments to the State Water Board on the Proposed Amendment to the Industrial General Permit

October 10, 2018 – Guidance Document: *Understanding Use of HUC 10 Watersheds Impairments for Assessing Monitoring Requirements*

November 6, 2018 – Testimony to State Water Board on Industrial General Permit Amendments

PESTICIDES SUBCOMMITTEE

July 23, 2018 – Comments to EPA on National Marine Fisheries Service Biological Opinion on Malathion

September 12, 2018 – Pesticides Subcommittee FY 2017-2018 Annual Report

October 9, 2018 – Comments to EPA on Dichlobenil Registration Review

PHASE II SUBCOMMITTEE AND TRAINING SUBCOMMITTEE

November 14, 2018 – Good Housekeeping Video: *Annual Hotspot Comprehensive Inspection*

November 14, 2018 – Good Housekeeping Video: *Concrete Work and Saw-Cutting*

November 14, 2018 – Good Housekeeping Video: *Minor Spill and Leak Cleanup*

November 14, 2018 – Good Housekeeping Video: *Storm Drain Maintenance*

November 14, 2018 – Good Housekeeping Video: *Surface Cleaning and Pressure Washing*

POLICY AND PERMITTING SUBCOMMITTEE

May 1, 2018 – Comments to Central Valley Regional Water Quality Control Board on Amendments to the Water Quality Control Plans for the Sacramento River and San Joaquin River Basins and the Tulare Lake Basin (Basin Plans) to Incorporate a Central Valley-wide Salt and Nitrate Control Program

May 9, 2018 – *Amicus* Brief to Court of Appeal for the Second Appellate in *Natural Resources Defense Council, Inc. et al., v. State Water Resources Control Bd., et al.*

May 21, 2018 – Comments to EPA on the Clean Water Act Coverage of “Discharges of Pollutants” via Direct Hydrologic Connection to Surface Water

June 7, 2018 – Testimony to State Water Board on Sediment Quality Objectives

August 7, 2018 – Testimony to State Water Board on the Bacteria Amendments and Variance Policy

August 13, 2018 – Comments to EPA on Supplemental Notice of Proposed Rulemaking – Definition of “Waters of the United States” – Recodification of Preexisting Rule

October 31, 2018 – Comments on Stormwater Targets for Groundwater Recharge and Direct Use in Urban California

November 28, 2018 – Testimony to State Water Board on Toxicity Provisions

December 21, 2018 – Comments to State Water Board on Toxicity Provisions

WATERSHED MANAGEMENT AND IMPAIRED WATERS SUBCOMMITTEE

May 31, 2018 – Petition Request to DTSC: Zinc from Tires - A Petition for Addition of Motor Vehicle Tires to the Priority Products List

Appendix C: Board of Directors and Executive Program Committee

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