



2015 CASQA ELEVENTH ANNUAL CONFERENCE

OCTOBER 19 – 21, 2015

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CONFERENCE PROGRAM



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ELEVENTH ANNUAL CASQA CONFERENCE

The California Stormwater Quality Association (CASQA) returns to the popular destination of Monterey, California for its 11th Conference. The theme this year is “*Stormwater—Are We Making a Difference?*,” which questions the link between stormwater programs and environmental outcomes and reflects the spatial and temporal complexity of stormwater improvement in urban areas and the need for innovative approaches.

The Conference continues to grow with almost 800 stormwater professionals expected to attend. After the success of the inaugural poster session, the Conference will again feature poster displays.

CASQA is the largest professional association dedicated to stormwater quality issues. For over a quarter century, CASQA has assisted municipalities, special districts, businesses, the state of California, and the United States Environmental Protection Agency in developing and implementing effective stormwater quality management programs in response to municipal, industrial, and construction NPDES stormwater permit requirements.



Fisherman's Wharf at Monterey Bay

JOIN CASQA CASQA is a non-profit professional member association dedicated to the advancement of stormwater quality management through collaboration, education, implementation guidance, regulatory review, and scientific assessment.

Regular or affiliate membership in CASQA is open to organizations and individuals in the stormwater field, whether holders of NPDES permits or not. Become a CASQA member and receive a significant discount on your registration for the 2016 CASQA Conference. CASQA members also receive reduced pricing for Quarterly Meetings and the BMP Online Handbook Subscriptions, and have exclusive access to the News & Library section on the CASQA website. CASQA membership provides substantial benefits even if you are based outside California.

STORMWATER—ARE WE MAKING A DIFFERENCE?

IN-DEPTH TRAINING WORKSHOPS MONDAY, OCTOBER 19, 2015

Training workshops include ten half-day training workshops and one full-day field tour training workshop. Attendee registration includes two half-day training workshops or one full-day field tour. Webcast registration includes the half-day training workshops (excluding the Creating Neighborhoods Training Workshop, portions of the Illicit Discharges Training Workshop, and Stormwater Field Tour). Viewers may “channel surf” between the half-day training workshops.

FULL-DAY TRAINING WORKSHOP

Field Tour

Monterey Bay Area Stormwater Treatment

HALF-DAY TRAINING WORKSHOPS

MORNING WORKSHOPS

Creating Neighborhoods

Creating Neighborhoods with Green Infrastructure (limited to 40 participants in each workshop; morning and afternoon)

Central Coast Post-Construction

Central Coast Post-Construction Requirements (PCRs) for Phase II Municipalities

Watershed Planning

Watershed Planning: Lessons Learned in the Los Angeles and San Diego Regions

Legal Update

Update on Recent Legal Developments That Impact Stormwater Regulation in California

Operations and Site Compliance

Keeping Your Operations in Compliance

AFTERNOON WORKSHOPS

Creating Neighborhoods

Creating Neighborhoods with Green Infrastructure (limited to 40 participants in each workshop; morning and afternoon)

Program Financing

Innovations in Program Financing

Education

Public Outreach: Meeting Permit Requirements and Reducing Costs Using Online Marketing

Illicit Discharges

Illicit Discharges: Investigation, Abatement, and Enforcement

Stormwater as a Resource

Stormwater as a Water Supply Resource



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Thank you for joining us in Monterey for an exceptional training event and an evening at the world-famous Monterey Bay Aquarium.



Narco Channel, Laguna Niguel, before and after restoration



Courtesy of the County of Orange

TECHNICAL PROGRAM TUESDAY AND WEDNESDAY, OCTOBER 20–21, 2015

The Technical Program comprises twelve conference thematic tracks including two forums and two panel discussions in concurrent sessions on Tuesday, October 20 and Wednesday, October 21, 2015. The tracks are outlined below:

Behavior Change – This track will focus on showcasing projects and tactics that have shown numeric results including case studies on targeting TMDL pollutants, new tools and tactics to strengthen outreach, and outreach in a world of numeric objectives.

Construction Stormwater Management – This track will focus on assessing progress after five years of the California Construction General Permit including highlighting case studies of unique and difficult projects, reviewing compliance strategies, and addressing the growing role of technology among other issues.

Effectiveness Assessment – This track will focus on strategies to assess the effectiveness of stormwater programs including the development and implementation of program effectiveness assessment plans, management questions and metrics that have been utilized, data collection needs and gaps, assessment methods, assessment results, and program modifications based on the assessments.

GIS Data Management – This track will focus on unique GIS tools, data collection and evaluation, pollutant source tracking, emerging pollutants, new technologies, new monitoring and assessment tools, stormwater impacts, and economic assessments.

Industrial Stormwater Management –

This track will focus on stormwater management and permitting for industrial activities, including permit applicability assessments, cases studies/lessons learned, pollutant source assessments, compliance strategies, and advanced BMPs to comply with California's more stringent Industrial General Permit that went into effect July 1, 2015.

Meeting ASBS Requirements – This track will focus on the implementation of the Ocean Plan requirements as applied to the State's 34 Areas of Special Biological Significance, including case studies.

Municipal Permits: Navigating and Overcoming Obstacles – This track will highlight how communities are making their way through the regulatory obstacle course, overcoming hurdles, and making a difference in stormwater quality. The focus will be on programs that veer away from "the way it's always been done," motivate the public, and traverse internal bureaucracies and jurisdictional boundaries.

Regional Treatment and Watershed Management – This track will focus on highlighting key trends in regional efforts, particularly those providing multiple water resources benefits. Examples of stormwater programs and projects that have been successfully integrated with other regional and watershed-scale efforts will be presented and creative new advances in watershed management, modeling, alternative compliance, and integrated water resource management will be spotlighted.

Stormwater Treatment – This track will focus on unique stormwater treatment operations and processes, including case studies and analysis of designs for Low Impact Development (LID), biofiltration/bioretenion, green infrastructure, green streets, hydromodification, and stormwater harvesting and reuse applications.

Sustainability – This track will cover development of innovative stormwater technologies to grow our water supplies and linkages to broader sustainability initiatives at the regional, municipal and project levels.

The Science and Policy of TMDLs – This track focuses on the development, planning and implementation of TMDLs and also covers new approaches, on-going research and monitoring, as well as success stories showing how we are making a difference.

Trash Management – This track will highlight recent efforts to reduce the impact of trash on water bodies. Topics will include: an approach to developing a data-driven, cost-effective strategy for managing trash within an MS4; lessons learned from seven years of implementation of a trash TMDL; and the assessment of effectiveness of "Track 2" stormwater controls.

Upper Newport Bay in 1996 and 2010, before and after nutrient reduction programs



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- Michael Baker International
- Monterey Regional Stormwater Management Program
- PACE Advanced Water Engineering
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- Storm Water Systems
- StormChamber
- StormTrap
- Terra Novo
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Regular Exhibitors

- AquaShield, Inc.
- California Filtration Specialists, LLC
- Clearwater Solutions, Inc.
- dat Mobile Solutions
- ERTEC Environmental Systems
- Gullywasher Stormwater Filters
- Hydro International

- LaMotte
- Mar Mac Construction Products
- Pat Chem Laboratories
- Prinsco
- SCI Consulting Group
- Sequoia Scientific, Inc.
- Source Molecular Corporation
- Storm Water Inspection & Maintenance Services, Inc. (SWIMS)
- StormwaterRx LLC
- WaterTectonics
- Weck Laboratories, Inc.

SIMPLE TIPS TO HELP OUR OCEAN

- Keep trash, dog waste, cigarette butts off the streets and out of storm drains
- Recycle at your home, business and school
- Cut up six-pack rings to keep wildlife safe



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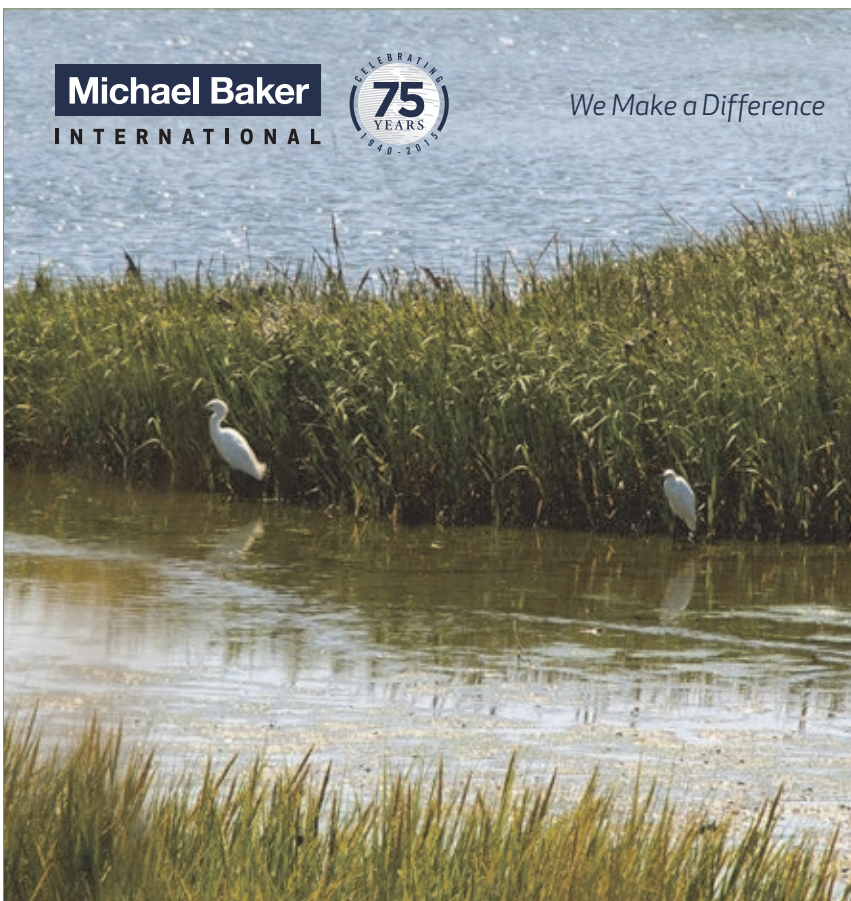
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 Construction Stormwater Compliance
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 Monitoring and Special Studies



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CASQA TRAINING WORKSHOPS AGENDA

SUNDAY & MONDAY, OCTOBER 18–19, 2015

SUNDAY					
4:00p–7:00p	REGISTRATION DESK (Regency Foyer)				
5:00p–6:00p	NEW MEMBER–NEW ATTENDEE EVENT (Regency Terrace)				
MONDAY					
7:30a–5:30p	REGISTRATION DESK (Regency Foyer)				
10:00a–5:00p	POSTER SESSION (Mark Thomas Foyer)				
11:45a–6:00p	EXHIBIT HALL OPEN (Regency Grand Ballroom)				
OFF-SITE FIELD TOUR 8:00a–4:00p	FIELD TOUR Monterey Bay Area Stormwater Treatment Melanie Sotelo: CASC Engineering and Consulting This field tour offers participants the opportunity to see several Low Impact Development (LID) treatment facilities throughout the beautiful Monterey Bay area and hear about successes and lessons learned through the design, construct, and maintenance of facilities. (Takes place offsite – Meet in hotel lobby for bus)				
TRAINING WORKSHOPS (Morning)	CREATING NEIGHBORHOODS Creating Neighborhoods with Green Infrastructure - Limited to 40 participants - Not included in the webcast Room: Oak Tree	CENTRAL COAST POST-CONSTRUCTION Central Coast Post-Construction Requirements for Phase II Municipalities Room: Spyglass	OPERATIONS AND SITE COMPLIANCE Keeping Your Operations in Compliance Room: Big Sur	WATERSHED PLANNING Lessons Learned in the Los Angeles and San Diego Regions Room: Cypress	LEGAL UPDATE Room: Windjammer
MODERATOR	Tom Low, Civic By Design	Dominic Roques, Central Coast Regional Water Quality Control Board	Lori Pettegrew, Farallon Consulting	Richard Watson, Richard Watson & Associates	Andre Monette, Best Best & Krieger LLP
8:30a–10:00a	Interactive Hands-on Design Training on Placemaking with Tom Low's Light Imprint Mixopoly Introductory Overviews on Neighborhood Design, Artscapes, and Waterscapes Work in Small Teams Using Mixopoly Templates to Create New Urban Neighborhoods Apply Light Imprint Green Infrastructure Overlay Methodologies and Tools Integrate Artscapes and Waterscapes Calibrate Light Imprint Strategies <i>Tom Low, Civic By Design; Bruce Phillips, PACE</i>	Introduction/Overview/ Background <i>Dominic Roques, Central Coast Regional Water Quality Control Board</i> Practical Design Approach <i>Darla Inglis, Central Coast Low Impact Development Initiative; Brett Hadley & Bianca Koenig, Wallace Group Engineering and Design; Jennifer Walker, Watearth; Cathleen Garnand, County of Santa Barbara; Dan Cloak, Dan Cloak Environmental Consulting; David LaCaro, City of Paso Robles; Ellen Pritchett, City of Santa Maria; Agnes Topp, City of Santa Cruz; Dominic Roques, Central Coast Regional Water Quality Control Board</i>	Welcome/Opening Remarks <i>Lori Pettegrew, Farallon Consulting</i> Regulatory Overview <i>Adrienne Miller, Geosyntec Consultants</i> Common Compliance Issues – Municipal Sites <i>Jim Barse, City of Alameda</i> Common Compliance Issues – Commercial and Industrial Sites <i>Aileen Mendoza, Alameda County</i>	Introduction <i>Richard Watson, Richard Watson & Associates</i> Watershed Planning Lessons Learned by the City of San Diego <i>Clem Brown, City of San Diego</i> Watershed Planning Lessons Learned by the County of San Diego <i>Jo Ann Weber, County of San Diego</i> Watershed Planning Lessons Learned by the County of Los Angeles <i>Paul Alva, County of Los Angeles</i>	Amendment to Phase II Permit Appendix G <i>Shawn Hagerty, Best Best & Krieger LLP</i> American Farm Bureau v EPA <i>Amanda Waters, National Association of Clean Water Agencies</i> Water Quality Trading <i>Ryan Baron, Orange County Counsel</i>
10:00a–10:15a	BREAK AND POSTER PRESENTATION AUTHORS AVAILABLE (Mark Thomas Foyer)				
10:15a–11:45a	<i>Continuation</i>	<i>Continuation of Above: Practical Design Approach</i> <i>Verifying Success Cathleen Garnand, County of Santa Barbara; Neal Shapiro, City of Santa Monica; David LaCaro, City of Paso Robles; Ellen Pritchett, City of Santa Maria; Alyson Tom, County of Santa Cruz; Thomas Harty, County of Monterey</i>	Solving Compliance Scenarios – Hands-on Exercises <i>Jim Barse, City of Alameda; Aileen Mendoza, Alameda County; Adrienne Miller, Geosyntec Consultants</i>	Watershed Planning Lessons Learned by the City of Los Angeles <i>Huub Cox, City of Los Angeles</i> Reasonable Assurance Analysis Lessons Learned in Both Regions <i>Steve Carter and John Riverson, Paradigm Environmental</i> Moving Towards a Performance-Driven Approach to Watershed Planning <i>Chad Praul, Environmental Incentives</i> Wrap-Up <i>Richard Watson, Richard Watson & Associates</i>	State Water Resources Control Board Order on LA County MS4 Permit <i>Norm Dupont, Richards Watson Gershon LLP</i> Future of the Compliance Option <i>Laurie Walsh, San Diego Regional Water Quality Control Board</i> Waters of the United States and Impacts for MS4s <i>Thane Young, Van Scoyoc & Associates</i>
11:45a–1:30p	EXHIBITOR FOCUS (Regency Grand Ballroom) AND LUNCH (Monterey Ballroom and Garden Terrace Courtyard – included with registration)				

CASQA TRAINING WORKSHOPS AGENDA

MONDAY, OCTOBER 19, 2015

TRAINING WORKSHOPS (Afternoon)	CREATING NEIGHBORHOODS Creating Neighborhoods with Green Infrastructure - Limited to 40 participants - Not included in the webcast - Repeat of morning training workshop Room: Oak Tree	ILLCIT DISCHARGES Illicit Discharges: Investigation, Abatement, and Enforcement Room: Big Sur	EDUCATION Public Outreach: Meeting Permit Requirements and Reducing Costs Using Online Marketing Room: Spyglass	PROGRAM FINANCING Innovations in Program Financing Room: Cypress	STORMWATER AS A RESOURCE Stormwater as a Water Supply Resource Room: Monterey Ballroom
MODERATOR	Tom Low, Civic By Design	Chris Crompton, County of Orange	Stephen Groner, S. Groner Associates, Inc.	Richard Watson, Richard Watson & Associates	Andre Monette, Best Best & Krieger LLP
1:30p–3:00p	Interactive Hands-on Design Training on Placemaking with Tom Low's Light Imprint Mixopoly Introductory Overviews on Neighborhood Design, Artscapes, and Waterscapes Work in Small Teams Using Mixopoly Templates to Create New Urban Neighborhoods Apply Light Imprint Green Infrastructure Overlay Methodologies and Tools Integrate Artscapes and Waterscapes Calibrate Light Imprint Strategies Tom Low, Civic By Design; Bruce Phillips, PACE	Overview: Regulatory Requirements and Tools Available to Investigators <i>Chris Crompton, County of Orange</i> Stormwater Enforcement: District Attorney Authority and Case Referral <i>Emily Hickok and Dije Ndreu, Monterey County District Attorney's Office</i>	Meeting Permit Requirements with Online Media <i>Stephen Groner, S. Groner Associates, Inc.</i> Making Social Media Work for Your Program <i>Rachel Dowd, S. Groner Associates, Inc.</i> Insights and Analytics: Using Online Data to Evaluate and Report <i>Stephen Groner, S. Groner Associates, Inc.</i>	Introduction <i>Richard Watson, Richard Watson & Associates</i> Overview of Options for Program Financing <i>Andrea Roess, David Taussig & Associates</i> Paying for Sustainable Streets – Next Steps for Integrating Green Infrastructure and Transportation <i>Matt Fabry, San Mateo Countywide Water Pollution Prevention Program</i> Update on Implementation of the Los Angeles Stormwater Funding Options Report <i>Richard Watson, Richard Watson & Associates</i>	Water Rights to Stormwater <i>Jeremy Jungreis, Rutan & Tucker LLP</i> Quantifying Groundwater Rights: What It Means to Get Back What You Put In <i>Jill Weinberger, Dudek</i> Drought Regulations and Sustainable Groundwater Management Act <i>Wendy Wang, Best Best & Krieger LLP</i>
3:00p–3:30p	BREAK AND EXHIBITOR FOCUS (Regency Grand Ballroom)				
3:30p–5:00p	<i>Continuation</i>	Investigation, Abatement Actions, and Enforcement of a Water Pollution Case in Orange County, CA <i>James Fortuna, County of Orange; Steve Mayville, Santa Ana Regional Water Quality Control Board (retired); Gary Tavetian, California Department of Justice, Office of the Attorney General</i>	How to Go Mobile: Reaching a Larger Audience <i>Stephen Groner, S. Groner Associates, Inc.</i> 5 Common Pitfalls to Avoid in Online Outreach <i>Stephen Groner, S. Groner Associates, Inc.</i>	The Story of a Successful 2015 Stormwater Fee Election <i>Jennifer Kaiser, Vallejo Sanitation & Flood Control District</i> Cooperative Implementation Agreement Opportunities <i>Constantine Kontaxis, California Department of Transportation</i> Potential for Public-Private Partnerships <i>Kirsten James, Ceres Foundation (Invited)</i> Wrap-Up <i>Richard Watson, Richard Watson & Associates</i>	Case Study: City of Santa Monica, Santa Monica Urban Runoff Recycling Facility <i>Neal Shapiro, City of Santa Monica</i> Water Bond <i>Cindy Tuck, Association of California Water Agencies</i> Monetization to Provide Funding <i>Brian Cullen, PERC Water</i>
5:00p–6:00p	EXHIBITOR FOCUS (Regency Grand Ballroom)				
6:00p–10:00p	NETWORKING EVENT (Off-Site: Monterey Bay Aquarium—complimentary shuttle buses provided) Included with the 3-Day Full Conference Pass. Tickets for others attending must have been purchased by October 11, 2015.				

CONTINUING EDUCATION CREDITS

Professional development credits can be earned from the following organizations for in-person attendance and webcast viewing (in some cases approval is pending, as noted below).

- American Institute of Certified Planners (AICP) – *(applied for)*
- Certified Inspector Sediment and Erosion Control (CISEC)
- Certified Erosion, Sediment and Stormwater Inspector (CESSWI)
- Certified Municipal Separate Storm Sewer System Specialist (CMS4S)
- Certified Professional in Erosion and Sediment Control (CPESC)
- Certified Professional in Storm Water Quality (CPSWQ)
- California Water Environment Association (CWEA) – *(applied for)*
- Minimum Continuing Legal Education (MCLE) – *(applied for)*
- Professional Engineers (PE)

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- BMP Effectiveness Assessment Monitoring
- Stormwater Pollution Prevention Plans (SWPPPs)
- Construction SWPPP & SWPPP Templates
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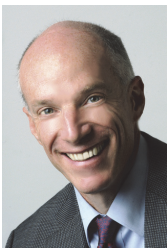
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CASQA TECHNICAL PROGRAM AGENDA

TUESDAY, OCTOBER 20, 2015

TUESDAY					
7:30a–8:00a	ROOM MONITOR TRAINING (Oak Tree)				
7:30a–5:30p	REGISTRATION DESK (Regency Foyer)				
8:00a–5:00p	POSTER SESSION (Mark Thomas Foyer)				
8:00a–7:30p	EXHIBIT HALL OPEN (Regency Grand Ballroom)				
8:30a–9:40a	PLENARY SESSION (Monterey Ballroom) • WELCOME AND OPENING REMARKS: <i>Gerhardt Hubner, Chair, CASQA</i> ; KEYNOTE ADDRESS: <i>David Sedlak, Department of Civil & Environmental Engineering, UC Berkeley</i>				
9:40a–10:00a	BREAK AND EXHIBITOR FOCUS (Regency Grand Ballroom)				
SESSION 1	REGIONAL TREATMENT AND WATERSHED MANAGEMENT Regional Stormwater Management Track A, Room: Spyglass	INDUSTRIAL STORMWATER MANAGEMENT Industrial General Permit Panel Discussion Track B, Room: Big Sur	BEHAVIOR CHANGE Measuring Impact: Case Studies on Targeting TMDL Pollutants Track C, Room: Oak Tree	EFFECTIVENESS ASSESSMENT Monitoring Programs Under the NPDES Permits Track D, Room: Cypress	GIS DATA MANAGEMENT Advancing Stormwater Management and Research Track E, Room: Windjammer
MODERATOR	Elisa Garvey, Carollo Engineers	Matt Lentz, GSI Environmental	Thomas B. Lawrence, Water Quality Matters!	Oliver Galang, Tetra Tech	Nancy Gardiner, Haley Aldrich
10:00a–10:30a	Ten Years After – A Realistic Progress Check on the San Diego Creek Natural Treatment System (NTS) <i>Ian Swift, Irvine Ranch Water District</i>	Panel Discussion (90 minutes) <i>Richard Muhl, Central Valley Regional Water Quality Control Board; Katharine Wagner, Attorney; Laurel Warddrip, State Water Resources Control Board; Jeremy Laurin, PG&E</i>	They Get the Flyer, But Do They "Get" the Flyer? Improving Commercial Outreach Through Customized Communication, Simplified Messages, and Audience Feedback <i>Jennifer Tabanico, Action Research</i>	A Simplified and Focused Approach to Meeting Regulatory Requirements and Guiding an Effective Stormwater Program <i>Nicole Beck, 2NDNATURE</i>	Upper Ballona Creek Toxicity from Synthetic Pyrethroids: A Predictive Model Based on Land Use <i>Kazue Chinen, UCLA</i>
10:35a–11:05a	Go Big: The Case for Regional Treatment in Santa Clara County <i>Mike Campbell, HMM Incorporated</i>		Non Structural Best Management Practice Pollutant Load Reduction Estimation Method <i>Stephanie Shamblin Gray, HDR</i>	First Flush: Water Quality Data Collected by Citizen Scientists at Storm Drain Outfalls 2000–2014 <i>Pam Krone-Davis, Monterey Bay National Marine Sanctuary</i>	"If I Can't Picture It, I Can't Understand It" – Data Acquisition and Visualization in Orange County <i>Grant Sharp, County of Orange</i>
11:10a–11:40a	Taking Stormwater Real Time Controls to the Watershed Scale: Evaluating the Business Case and Developing an Implementation Roadmap for an Oregon MS4 <i>Aaron Poresky, Geosyntec Consultants</i>		FUNdraising Car Washes Done Right! <i>Maris Sidenstecker, Save The Whales; Jeff Condit, Monterey Regional Stormwater Management Program</i>	The Ultimate Bean Counter: A Tool for Tracking, Reporting and Planning of Watershed Programs for BMP-Based Permit Compliance <i>Dustin Bambic, Paradigm Environmental</i>	Streamline Data Collection of Your Stormwater Assets <i>Marcy Kamerath, NCE</i>
11:40a–12:00p	EXHIBITOR FOCUS (Regency Grand Ballroom)				
12:00p–1:30p	LUNCH (Monterey Ballroom and Garden Terrace Courtyard – included with registration) • CASQA AWARDS PROGRAM (Monterey Ballroom only)				



KEYNOTE SPEAKER

Civil and environmental engineer David L. Sedlak, Ph.D. is a professor and Co-Director of the Berkeley Water Center, and Deputy Director of the National Science Foundation's Engineering Research Center on Re-Inventing the Nation's Urban Water Infrastructure (ReNUWIt). His pioneering research has advanced the way water resources and urban water infrastructure are managed, including implementing water reuse and reducing the discharge of emerging contaminants. ● Recently, his research has focused on natural system processes, such as using engineered treatment wetlands to remove chemicals from wastewater-impacted waters. His research may change the

way wetland treatment systems are enhanced and operated to eliminate micropollutants and improve water quality. As Deputy Director of ReNUWIt, a research center focused on advancing the way urban water is managed, he also has had the opportunity to lay the groundwork for improving water infrastructure, such as expanding water distribution systems, increasing planned water reuse, and reducing the amount of emerging contaminants released into the environment. ● Because of his considerable knowledge and expertise, Dr. Sedlak has been invited to serve on numerous boards and committees throughout the water industry. For instance, he serves on an NWRI Expert Panel to advise the California Department of Public Health on scientific, technical, and public health issues regarding the development of uniform criteria and regulations for advanced treatment water reuse in California.

CASQA TECHNICAL PROGRAM AGENDA TUESDAY, OCTOBER 20, 2015

1:30p–3:10p	CASQA AWARD WINNERS: BLUE RIBBON PRESENTATIONS (Monterey Ballroom)  BMP Category – County Government Center Parking Lot Green Street Urban Retrofit: <i>David Kirby, Ventura County</i> Stormwater Basin Enhancement Project: <i>John C. Dettle, City of Torrance</i>  News, Information, Outreach, and Media Category – “Overwatering is Out” Public Education Campaign: <i>Richard Boon and Chris Crompton, County of Orange; Stephen Groner, S.Groner Associates, Inc.</i>				
SESSION 2	REGIONAL TREATMENT AND WATERSHED MANAGEMENT Economics of Regional Stormwater Track A, Room: Spyglass	INDUSTRIAL STORMWATER MANAGEMENT Source Identification and BMP Implementation Track B, Room: Big Sur	BEHAVIOR CHANGE New Tools and Tactics to Strengthen Your Outreach Track C, Room: Oak Tree	EFFECTIVENESS ASSESSMENT Effectiveness Assessment of BMPs Track D, Room: Cypress	GIS DATA MANAGEMENT Information Technology and Data Visualization Track E, Room: Windjammer
MODERATOR	Jason Drew, NCE	Steve Herrera, Herrera Engineering Consultants	Jim Scanlin, Alameda County Public Works Agency	Ewelina Mutkowska, County of Ventura	Jon Konnan, EOA, Inc.
1:30p–2:00p	Monetizing Urban Runoff from the Perspective of MS4 Agencies and Stormwater Management Decision Making <i>Brian Laurenson, Larry Walker Associates</i>	Your Best Defense is a Good Offense: Industrial BMP Assessment Starts Now <i>Cynthia Liles, Clements Environmental Corp.</i>	Solving the Sediment Dilemma: Successful Construction Site Outreach to a Difficult Audience <i>Thomas B. Lawrence, Water Quality Matters!</i>	Making the Most of BMP Performance and National Stormwater Quality Databases as Tools to Address Stormwater Challenges <i>Eric Strecker, Geosyntec Consultants</i>	Turning Data Into Information for Stormwater Decision Makers: A Web-Based Program Management Dashboard <i>Steven Steinberg, Southern California Coastal Water Research Project</i>
2:05p–2:35p	The Community-Based Public-Private Partnership Approach: A Revolution In Funding And Financing Green Infrastructure <i>Pam Schools, Corvias Solutions</i>	Lessons Learned: BMP Strategies For Achieving a NONA Exemption from the IGP <i>Marty Spongberg, AMEC Foster Wheeler</i>	Love and Emotion: Your Secret Weapon to Fostering Outreach Engagement (60 minutes) <i>Rachel Dowd, S. Groner Associates, Inc.</i>	BMP Rapid Assessment Methodology (BMP RAM): An Online Tool to Assess BMP Effectiveness <i>Maggie Mathias, 2NDNATURE</i>	I Can See Clearly Now: An Automated Tool to Analyze and Report Data from TMDL Compliance Monitoring Programs <i>Dustin Bambic, Paradigm Environmental</i>
2:40p–3:10p	Methodologies for Valuing Stormwater Retained for MS4 Permit Compliance <i>Mark Grey, Construction Industry Coalition on Water Quality</i>	Finding the Needle in the Haystack! Lessons Learned from Implementing the Industrial Permit and Recommendations for Source Identification Improvement <i>David Renfrew, Alta Environmental</i>		Low Impact Development Monitoring and Assessment, Lessons Learned and a Path Forward <i>Daniel Apt, Michael Baker International</i>	A Countywide Compliance Project for E.9 and E.11: Findings from the Field, and Bringing it All Together in GIS <i>Howard Bunce, Marin County Stormwater Pollution Prevention Program</i>
3:10p–3:45p	BREAK AND EXHIBITOR FOCUS (Regency Grand Ballroom)				
SESSION 3	REGIONAL TREATMENT AND WATERSHED MANAGEMENT Watershed Modeling Track A, Room: Spyglass	INDUSTRIAL STORMWATER MANAGEMENT The ERA Process and Advanced BMPs Track B, Room: Big Sur	BEHAVIOR CHANGE Implementation Strategies Track C, Room: Oak Tree	EFFECTIVENESS ASSESSMENT Effectiveness Assessment Innovations Track D, Room: Cypress	THE SCIENCE AND POLICY OF TMDLS Bacteria Track E, Room: Windjammer
MODERATOR	Richard Boon, County of Orange	Jonathan Meronek, SCS Engineers	Lisa Skutecki, Brown and Caldwell	Steve Steinberg, Southern California Coastal Water Research Project	Lisa Haney, Orange County Sanitation District
3:45p–4:15p	Feeling Reasonably Assured? Potentially Spending of Billions Based on Models <i>Ken Susilo, Geosyntec Consultants</i>	Navigating the Background Off-Ramp on the Industrial General Permit Highway <i>Brandon Steets, Geosyntec Consultants</i>	A Multi-Tiered Strategy to Address Trash in the City of San Diego Streams <i>Andre Sonksen, City of San Diego</i>	Improving Causal Assessment in California Step 1: Selecting Comparators for Your Site <i>David Gillett, Southern California Coastal Water Research Project</i>	Microbial Source Tracking in CA Watersheds: The CA Source ID Manual, a Case Study in Santa Barbara, and Current Research <i>Jared Ervin, Geosyntec Consultants</i>
4:20p–4:50p	A Watershed-Scale Planning Tool for Optimal Selection and Placement of Green Infrastructure In Urban Watersheds <i>Jing Wu, San Francisco Estuary Institute</i>	Reviving Water Impairments, the ERA Process, and Challenges to Implementing Advanced BMPs <i>Matt Zucca, Erler & Kalinowski, Inc.</i>	Challenge of Zero Trash Goal in the Ventura River Estuary <i>Dashiell Dunkell, Ventura Hillside Conservancy</i>	Quantifying True Source Control from Brake Copper Law – Urban Runoff Copper Reduction Timeline <i>Kelly Moran, TDC Environmental, LLC</i>	The Surfer Health Study: Does Wet Weather Bacteria Indicate Illness? <i>Kenneth Schiff, Southern California Coastal Water Research Project</i>
4:55p–5:25p	To Green or Not to Green: Modeling Incentive-Based Programs for Green Infrastructure Investment on Private Properties <i>Seth Brown, George Mason University</i>	Active Stormwater Treatment Solutions for a Waterfront Break-Bulk Terminal <i>Ben Fuentes, Kennedy/Jenks Consultants</i>	Tracking California's Trash – A New Project to Help Municipalities with Regional and Statewide Trash Reduction Requirements <i>Chris Sommers, EOA, Inc.</i>	Improving Stormwater Management through Integration of Environmental Data, Asset Maintenance, and Workflows <i>Grant Sharp, County of Orange</i>	Steps Towards Bacteria TMDL Compliance: The Proposed Inner Cabrillo Beach Natural Source Exclusion <i>Andrea Crumacker, Weston Solutions, Inc.</i>
5:30p–7:30p	EXHIBITOR RECEPTION (Regency Grand Ballroom)				

CASQA TECHNICAL PROGRAM AGENDA

WEDNESDAY, OCTOBER 21, 2015

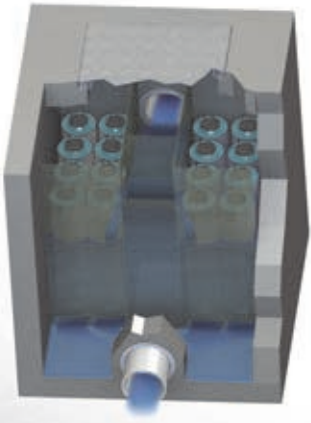
WEDNESDAY					
7:15a–8:15a	TRAINER OF RECORD FORUM (Spyglass), Moderator: Marvin Sachse, Brash Industries Moderator led discussion open to all conference attendees to share successful training techniques, exchange ideas for topics that are consistently difficult to present, and make suggestions for subsequent program improvements for the forthcoming new Construction General Permit.				
7:30a–8:00a	ROOM MONITOR TRAINING (Oak Tree)				
7:30a–8:15a	THE NEXT FRONTIER FOR STORMWATER: FORMING A NATIONAL ORGANIZATION TO MOVE US FORWARD (Big Sur) <i>Scott Taylor, Michael Baker International; Seth Brown, George Mason University</i>				
7:30a–3:00p	REGISTRATION DESK (Regency Foyer)				
8:00a–8:30a	EXHIBITOR FOCUS (Regency Grand Ballroom)				
8:00a–12:00p	EXHIBIT HALL OPEN (Regency Grand Ballroom)				
8:00a–1:20p	POSTER SESSION (Mark Thomas Foyer)				
SESSION 4	MUNICIPAL PERMITS: NAVIGATING REQUIREMENTS AND OVERCOMING OBSTACLES Overcoming Challenges Track A, Room: Spyglass	STORMWATER TREATMENT BMP Development and Studies Track B, Room: Big Sur	SUSTAINABILITY Stormwater Sustainability Initiatives Track C, Room: Oak Tree	CONSTRUCTION STORMWATER MANAGEMENT Construction Stormwater Assessment Track D, Room: Cypress	THE SCIENCE AND POLICY OF TMDLS San Francisco Bay Hg and PCB Efforts Track E, Room: Windjammer
MODERATOR	Tracy Ingebrigtsen, City of Laguna Beach	Anna Lantin, Michael Baker International	Laura Prickett, Horizon Water and Environment, LLC	Dave Mercier, Michael Baker International	Donna Bodine, Geosyntec Consultants
8:30a–9:00a	Overcoming Significant Obstacles: Technology, Funding and Community Support – A Case Study in Malibu Creek Watershed <i>Ewelina Mutkowska, County of Ventura</i>	Field-Scale Column Testing of Engineered Soils and Bioretention Configurations for the Removal of Nutrients and Lesser-Studied Constituents <i>Dipen Patel, Water Programs at Sacramento State</i>	Stormwater and Resiliency: How San Francisco's Stormwater Management Ordinance is Spurring Non-Potable Reuse <i>Kerry Rubin, AECOM</i>	Challenges and Lessons Learned on a 200-Mile 500kV Electrical Transmission Line Construction Project <i>Hazem Gabr, Southern California Edison</i>	TMDL Implementation and Load Reduction Accounting through the San Francisco Bay Area Regional Municipal Stormwater Permit <i>Jon Konnan, EOA, Inc.</i>
9:05a–9:35a	Phase II – Lessons Learned Organizing Locally and Regionally in the North Bay <i>Sandy Mathews, Larry Walker Associates</i>	A Proposal for Statewide Knee-of-the-Curve BMP Sizing Criteria <i>Maureen Kerner, Water Programs at Sacramento State</i>	Sustainability Rating of Stormwater BMPs <i>Lisa Skutecki, Brown and Caldwell</i>	A Construction Managers Approach to Storm Water Compliance <i>Mitchel Whitson, Whitson CM</i>	Stormwater Control Programs to Address PCBs and Mercury (60 minutes) <i>Khalil Abusaba, AMEC Foster Wheeler; Lisa Austin, Geosyntec Consultants; Rebecca Tuden, City of Oakland</i>
9:40a–10:10a	Implementing Green Infrastructure Requirements in the New Bay Area Municipal Regional Permit <i>Jill Bicknell, Santa Clara Valley Urban Runoff Pollution Prevention Program</i>	Minimizing Cost and Maximizing Load Reduction by Targeting the First Flush <i>David Kirby, Ventura County Watershed Protection District</i>	Sustainable Funding for Stormwater Services <i>Mitch Avalon, County Engineers Association of California</i>	An Active Case for Passive Treatment <i>Tanya Bilezikjian, Michael Baker International</i>	
10:10a–10:55a	BREAK, EXHIBITOR FOCUS AND PRIZE DRAWING (Regency Grand Ballroom)				
SESSION 5	MUNICIPAL PERMITS: NAVIGATING REQUIREMENTS AND OVERCOMING OBSTACLES Compliance Success Track A, Room: Spyglass	STORMWATER TREATMENT BMPs and Urban Streams Track B, Room: Big Sur	MEETING ASBS REQUIREMENTS Exploring the Data Track C, Room: Oak Tree	QSD/QSP FORUM Track D, Room: Cypress	REGIONAL TREATMENT AND WATERSHED MANAGEMENT Alternative Compliance Track E, Room: Windjammer
MODERATOR	Claudia Steiding, Riverside County	Cory Jones, SCS Engineers	Brian Currier, Water Programs at Sacramento State	Melanie Sotelo, CASC Engineering and Consulting	Andrea Crumpacker, Weston Solutions, Inc.
10:55a–11:25a	The Stormwater Finance Game – Focused Compliance with Fewer Dollars <i>Chad Praul, Environmental Incentives</i>	Urban Stream Floodplain Restoration and Associated Water Quality Improvements In Yreka, California <i>Tom Hesselden, Tom Hesselden and Associates</i>	ASBS Natural Water Quality: Translating Narrative Objectives Into Numerical Guidelines <i>Kenneth Schiff, Southern California Coastal Water Research Project</i>	QSD/QSP Forum (Panel) <i>Jarrod Gibbon, Riverside County; Dave Mercier, Michael Baker International; Rich Muhl, Central Valley Regional Water Quality Control Board; Kadi Whiteside, Southern California Edison</i>	Offsite Alternative Compliance For Priority Development Projects – What Constitutes "Greater" Water Quality Benefit? <i>Christina Arias, San Diego Regional Water Quality Control Board</i>
11:30a–12:00p	How Integrated Asset Management Can Assist in Meeting Your MS4 NPDES Permit Requirements <i>Terrence Chen, Michael Baker International</i>	Active Hydromodification Control <i>Judd Goodman, Geosyntec Consultants</i>	Special Protections Meet Real Data: Quandaries for Compliance <i>Dane Hardin, Applied Marine Sciences, Inc.</i>		Stream Rehabilitation Equivalency for Alternative Compliance <i>Eric Mosolgo, City of San Diego</i>
12:00p–1:20p	LUNCH (Monterey Ballroom and Garden Terrace Courtyard – included with registration)				

CASQA TECHNICAL PROGRAM AGENDA WEDNESDAY, OCTOBER 21, 2015

SESSION 6	MUNICIPAL PERMITS: NAVIGATING REQUIREMENTS AND OVERCOMING OBSTACLES Innovative Solutions Track A, Room: Spyglass	STORMWATER TREATMENT Green Infrastructure BMPs Track B, Room: Big Sur	MEETING ASBS REQUIREMENTS BMP Approaches to Compliance Track C, Room: Oak Tree	CONSTRUCTION STORMWATER MANAGEMENT Ask the Regulator Track D, Room: Cypress	THE SCIENCE AND POLICY OF TMDLS Current TMDL Efforts Track E, Room: Windjammer
MODERATOR	Nicole West, LSA Associates, Inc.	Sean Porter, Brown and Caldwell	Kenneth Schiff, Southern California Coastal Water Research Project	Sandy Mathews, Larry Walker Associates	Adrienne Miller, Geosyntec Consultants
1:20p–1:50p	Beyond the Bookshelf: Creative and Proven Methods for Making Your Stormwater Management Plan Work for You! <i>Jason Drew, NCE</i>	Retrofitting Impervious Urban Infrastructure with Permeable Pavers – Lessons Learned and Results <i>Tim Burgess, City of Santa Barbara</i>	Meeting ASBS Requirements – Implementation Case Study – Newport and Irvine Coast (ASBS No. 32 and 33) <i>Robert Stein, City of Newport Beach</i>	Construction General Permit Panel Discussion: Common Misunderstandings (90 minutes) <i>Julia Dyer, Central Coast Regional Water Quality Control Board;</i> <i>Christina Arias, San Diego Regional Water Quality Control Board;</i>	A Creative Alternative to a TMDL to Address Eutrophication in Loma Alta Slough <i>Paul Hartman, Larry Walker Associates</i>
1:55p–2:25p	New Perspectives on Pollutant Sources and Regulatory Responsibility in Urban Watersheds <i>David Smith, U.S. Environmental Protection Agency Region 9</i>	Green Infrastructure Retrofits: Rapid Identification and Conceptual Design <i>Dan Cloak, Dan Cloak Environmental Consulting</i>	Structural BMP Compliance Approach for California State Parks in 5 Areas of Special Biological Significance (ASBS) <i>Brian Currier, Water Programs at Sacramento State</i>	<i>Russell Hansen, State Water Resources Control Board;</i> <i>Jacque Kelley and Richard Muhl, Central Valley Regional Water Quality Control Board;</i> <i>Michelle Rembaum-Fox, San Francisco Regional Water Quality Control Board;</i> <i>Michael Roth, Santa Ana Regional Water Quality Control Board</i>	TMDL Metrics: How Do We Show Progress While Encouraging the Right Actions? <i>Nicole Beck, 2NDNATURE</i>
2:30p–3:00p	Integrating Grazing into IPM for Flood Protection Facilities <i>Cece Sellgren, Contra Costa County Flood Protection and Water Conservation District</i>	Green Infrastructure in the Ultra-Urban Environment Using Urban Forestry and Tree Stormwater Control Measures <i>Peter Schultze-Allen, EOA Inc</i>	An Integrated Approach to Assess Stormwater Impacts to Marine Receiving Water Environments – Case Study Assessment of the La Jolla Shores and Scripps Areas of Special Biological Significance (ASBS) in San Diego, CA <i>Chris Stransky, Amec Foster Wheeler</i>		Neonicotinoid Pesticides: Not Just a Bee Problem <i>Jill Murray, City of Santa Barbara</i>











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CASQA POSTER PRESENTATIONS MONDAY–WEDNESDAY, OCTOBER 19–21, 2015

CASQA is pleased to include a poster session at the Annual Conference again this year. The posters will be displayed in the hallway between the session rooms all days. The poster authors will be available to answer questions at the Monday morning break and during other breaks as available.

CASQA AWARD WINNERS: BLUE RIBBON PRESENTATIONS

BMP Category – Oak Park, Stevens Park, and Westside Neighborhood Center Storm Water Infiltration Project: *Tim Burgess, City of Santa Barbara*

Sustainability Category – Stevens Creek Corridor Park and Restoration Phase 2: *Scott Reeves, SSA Landscape Architects; Edward D. Ballman, Balance Hydrologics, Inc.; Rodney Cahill, Mesiti-Miller Engineering; Stephen R. Sutherland, SSA Landscape Architects; Gail Seeds, City of Cupertino*

Sustainability Category – Upper Las Positas Creek Restoration and Stormwater Management Project: *Cameron Benson, City of Santa Barbara*

*Urban Stream Floodplain Restoration and Associated Water Quality Improvements in Yreka, California
Thomas F. Hesseldenz, Tom Hesseldenz and Associates

*Neonicotinoid Pesticides: Not Just a Bee Problem
Jill Murray, City of Santa Barbara

*Ten Years After—A Realistic Progress Check on the San Diego Creek Natural Treatment System (NTS)
Norris Brandt, Brandt Water Strategies

*Love and Emotion: Your Secret Weapon to Fostering Engagement and Building Community
Rachel Dowd, S. Groner Associates

*Retrofitting Impervious Urban Infrastructure with Permeable Pavers—Lessons Learned and Results
Tim Burgess, City of Santa Barbara

*First Flush: Water Quality Data Collected by Citizen Scientists at Storm Drain Outfalls 2000–2014
Pam Krone-Davis, Monterey Bay National Marine Sanctuary

*Finding the Needle in the Haystack! Lessons Learned from Implementing the Industrial Permit and Recommendations for Source Identification Improvement
David Renfrew, Alta Environmental

†Turning Data Into Information for Stormwater Decision Makers: A Web-Based Program Management Dashboard
Steven Steinberg, SCCWRP

†El Niño or Drought, No Excuses for Capturing Qualifying Storm Events for the Industrial General Permit—Tools of the Trade
Garth Engelhorn, Alta Environmental

Rapid, Mobile Molecular Testing for Microbial Source Tracking and Beach Water Quality Assessments
Paul Pickering, Ubiquitome

Development of Tools for Addressing the Upcoming Bio-Objectives Policy in the San Diego Region
Jerry Diamond, Tetra Tech, Inc.

Evaluation and Adaptation of a Post Construction Filtration BMP for Industrial Application
Lisa Lemont, Hydro International

Beyond Bioswales: Explorations in Urban Stormwater Biofilter Design
Ellen Burke, California Polytechnic State University

OC Public Works Glassell Yard Campus Stormwater Low-Impact Development Project
Robert McLean, County of Orange

Coanda-Effect Screen Hydraulic Evaluation Using Particle Image Velocimetry
Jungseok Ho, Professor, University of Texas PA

Is There an Alternative to the “4% Rule” for Treatment BMP Sizing?
Jennifer Abrams, WRECO

Protecting Local ASBS with Innovative BMP Retrofit Designs
Analette Ochoa, WRECO

Check While You Mow: Preventing Residential Water Runoff Through Simple Focused Messages
Jennifer Tabanico, Action Research

Active Treatment of Industrial Stormwater Utilizing Electrocoagulation and Carbon Filtration at a California Scrap Metal Facility
TJ Mothersbaugh, WaterTectonics

Addressing Water Quality in the City of Encinitas: The Cottonwood Creek LID Retrofit Plan Watershed Characterization Study
Raina Dwivedi, Tetra Tech, Inc.

An Integrated Planning Approach to Infrastructure Upgrades: Combining Green Infrastructure with Pumping Plants to Provide Resiliency and Treat Stormwater in the City of Los Angeles
Chad Helmle, Tetra Tech, Inc.

Developing a Watershed Management Program for Compliance with a Regional MS4 Permit
Ed Suher, CASC Engineering and Consulting

GIS-Based Inventory and Tracking of Existing Residential Development for NPDES Permit Compliance
Sheri Dister, Weston Solutions, Inc.

TMDL Compliance: What Does it Take? How Much Does it Cost? A Case Study of the City of Torrance, CA
Samuel Darkwah, Carollo Engineers

Watershed-Based Approaches to Water Quality
Matt Rich, Amec Foster Wheeler

When Do You Need To Add Gray to the Green: Addressing Water Quality and Flooding in the City of Encinitas
Raina Dwivedi, Tetra Tech, Inc.

Monsanto's PCBs in Public Stormwater
John Fiske, Gomez Trial Attorneys

* Poster + oral presentation
† Poster + alternate presentation

CASQA TECHNICAL PROGRAM – ALTERNATE PRESENTATIONS

In the event of a cancellation of a planned presentation, an alternate presentation from the following will be substituted:

BEHAVIOR CHANGE

Measuring Impact: Case Studies on Targeting TMDL Pollutants
Performance-Driven Programs that Change Behavior and Improve Water Quality: The Tahoe Model
Chad Praul, Environmental Incentives

EFFECTIVENESS ASSESSMENT

Effectiveness Assessment Innovations
Soils Beneath Suspended Pavements: An Opportunity for Stormwater Control and Treatment
Jonathan Page, NCSU, BAE

Effectiveness Assessment of BMPs
Evaluating the Equivalency of a High Rate Biofiltration BMP to Traditional Biofiltration
Aaron Poresky, Geosyntec Consultants

Monitoring Programs Under the NPDES Permits
Estimating Stormwater Runoff Volume, Load Reductions and Program Effectiveness: A New Tool for the California Central Coast
Lisa Kanner, 2NDNATURE

INDUSTRIAL STORMWATER MANAGEMENT

Source Identification and BMP Implementation
El Niño or Drought, No Excuses for Capturing Qualifying Storm Events for the Industrial General Permit – Tools of the Trade
Garth Engelhorn, Alta Environmental

MEETING ASBS REQUIREMENTS

Exploring the Data
A More Realistic Assessment of Toxic Effects from Storm Water in the Laboratory: Marine Invertebrate Sensitivity to Pulsed Salinity, Pyrethroid Pesticide, and Copper Exposures
Peter Arth, Nautilus Environmental

MUNICIPAL PERMITS: NAVIGATING REQUIREMENTS AND OVERCOMING OBSTACLES

Compliance Success
Considering Watershed Based Evaluation Tools Under Future MS4 Permits
William Lewis, Larry Walker Associates

Innovative Solutions
Identifying and Reducing Dry Weather Flow: Results from Two Visual Observation Pilot Studies
Scott Norris, County of San Diego Watershed Protection Program

CASQA TECHNICAL PROGRAM – ALTERNATE PRESENTATIONS (CONT.)

REGIONAL TREATMENT AND WATERSHED MANAGEMENT

Economics of Regional Stormwater

Driving Down the Costs of Green Infrastructure Implementation –
The Bay Area Perspective
Matthew Fabry, San Mateo Countywide Water Pollution Prevention Program

Regional Stormwater Management

Integrated Stormwater Management at Stanford University
Adam Porter, Stanford University

Watershed Modeling

Evaluation of a Hybrid Green-Grey Approach to Address Neighborhood Flooding and
Other Watershed Issues: Completion of a Texas Case Study
Aaron Poresky, Geosyntec Consultants

STORMWATER TREATMENT

BMP Development and Studies

Three Stormwater Treatment Approaches for Three Linked Industrial Sites,
Port of Tacoma, WA *Ross Dunning, Kennedy/Jenks Consultants*

BMPs and Urban Streams

Assessing the Effect of Dry Well Aided Stormwater Infiltration on Groundwater Quality
Melanie Carr, cbec, inc. eco engineering

Green Infrastructure BMPs

Martha Gardens Green Alleys Pilot Project
Ellen Yuen, City of San Jose

SUSTAINABILITY

Stormwater Sustainability Initiatives

Modesto Area 2 Project Uses Innovative Technologies to Capture Stormwater and
Recharge Groundwater Under Garrison Park *William Strand, RRM Design Group*



Elkhorn Slough near Moss Landing in Monterey County

Photo by USGS

THE SCIENCE AND POLICY OF TMDLS

Current TMDL Efforts

Quantitatively Tracking and Assessing BMP Implementation
Avery Blackwell, Geosyntec Consultants

San Francisco Bay Hg and PCB Efforts

Harbor Toxics TMDL Watershed Special Studies: Ultra-Low Detection Limit Analysis
of PCBs and DDTs and a Comparison of Bed Load to Mid Column Sediments During
Storm Discharge *Tommy Wells, Amec Foster Wheeler*

TRASH MANAGEMENT

Implementation Strategies

Improving Water Quality In a Trash-Impaired Watershed
James Honniball, Amec Foster Wheeler



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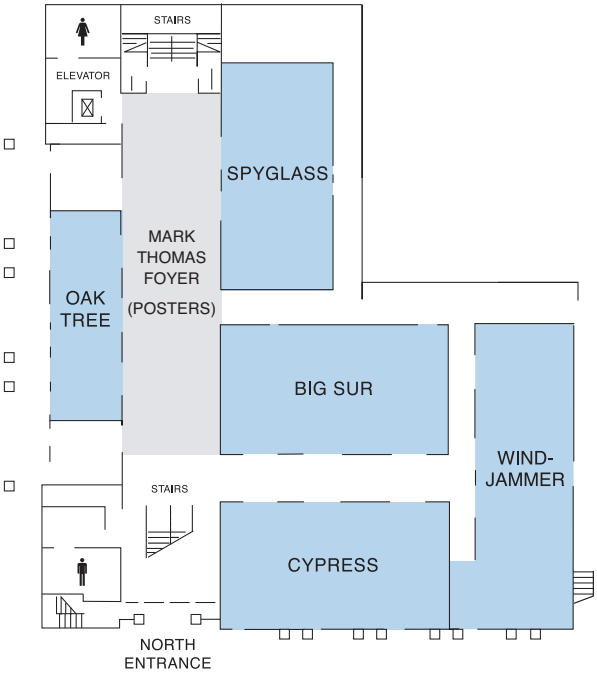
CONFERENCE MAP

HYATT REGENCY MONTEREY

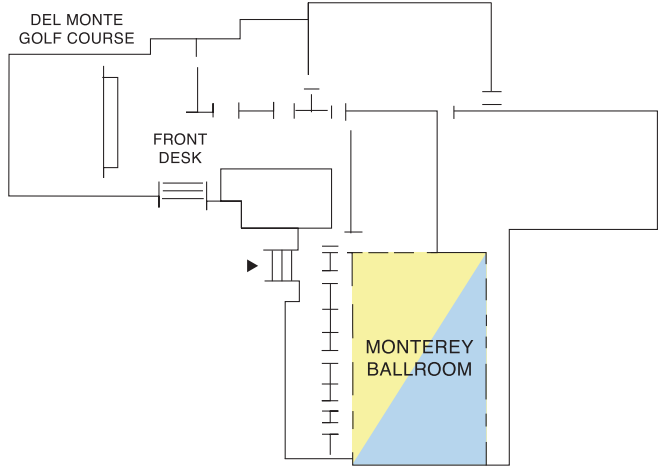
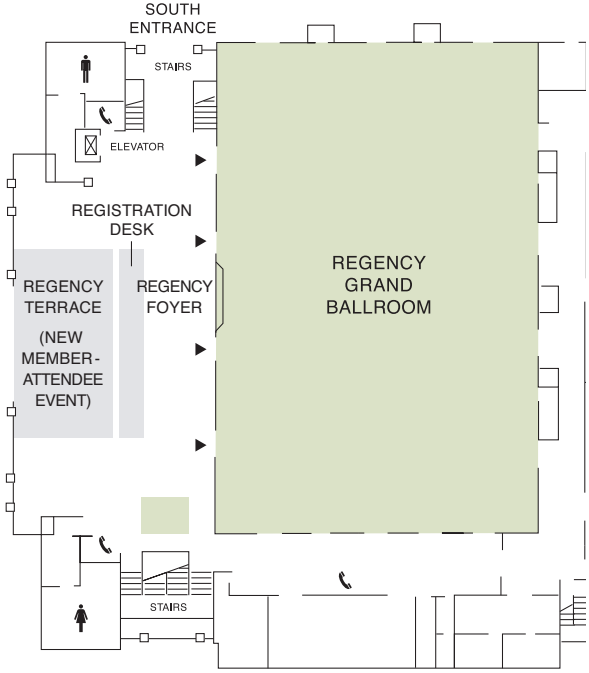
-  Conference Training Workshops and Technical Program
-  Exhibits
-  Plenary Session, Awards Presentation, and Lunches –
The Garden Terrace Courtyard is an alternative space to meet and talk with peers over lunch in a place that is conducive to networking
-  Poster Presentations, New Member–New Attendee Event and Registration Desk

FIRST FLOOR

GARDEN TERRACE COURTYARD
(ALTERNATIVE LUNCH SEATING – NO PROGRAM)



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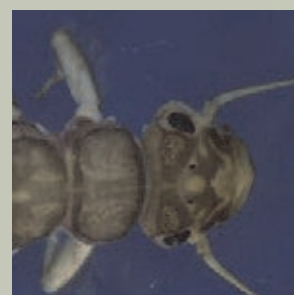
EcoAnalysts, Inc. - Helping our clients make highly informed decisions regarding the condition and stewardship of our natural resources.

Biological Objectives in Stormwater Management

For several years the California State Water Resources Control Board has been developing biologically based tools to measure the health of rivers and streams within the state. Development of a statewide stream condition index now allows water quality managers anywhere in California to easily measure the ecological health of rivers and streams within their management jurisdiction. The index uses benthic macroinvertebrate communities as the primary indicator coupled with physical habitat condition.

Benthic invertebrates have long been used as indicators of stream health because they are easy to sample, they are sensitive to a variety of habitat and water quality changes, and they can often detect problems that routine chemical monitoring programs do not. Another index currently in development in southern California uses algae (periphyton) communities, as algae are often more sensitive to phosphorous and nitrogen levels in the water.

Water quality managers would be well served to incorporate benthic invertebrate and algae sampling into their monitoring programs and EcoAnalysts can help you achieve this. Our team of biologists can assist with study design, field sampling, laboratory analysis of the samples, data analysis and interpretive reports. Please visit us at our booth (#39) for more information. We look forward to meeting you!



Taxonomic Services

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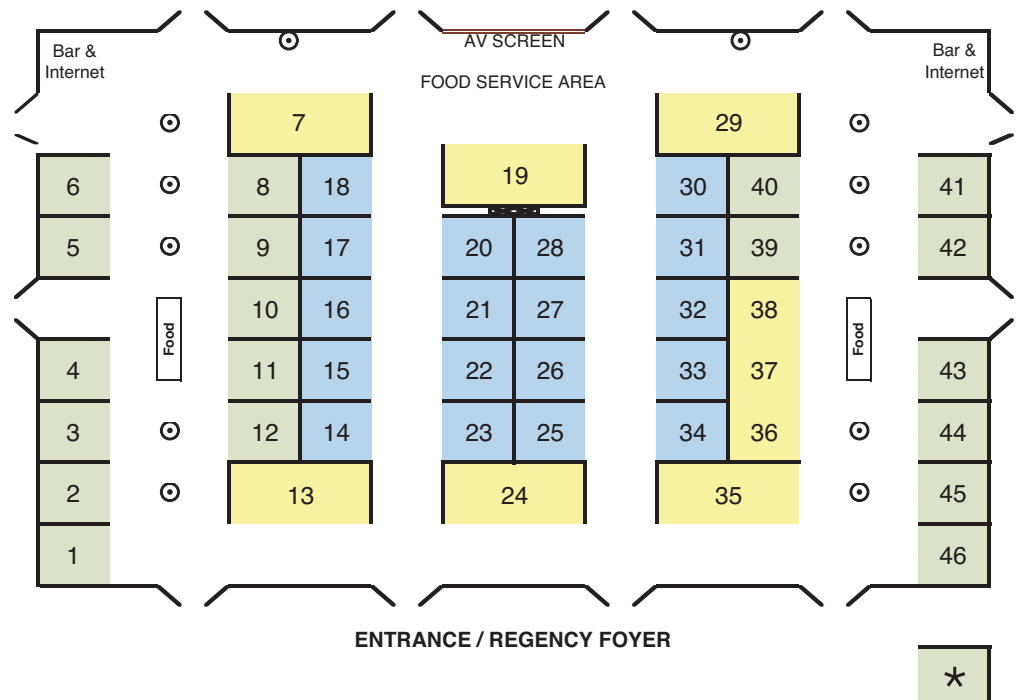
CASQA CONFERENCE EXHIBITORS AND EXHIBIT HALL MAP

BOOTH EXHIBITOR

REGENCY FOYER* Monterey Regional Stormwater Management Program Jeff Condit, Program Manager 5 Harris Court, Bldg. D Monterey, CA 93940 (831) 645-4621 montereysea.org	4 Terra Novo Andy Iturriria 2930 Patton Way Bakersfield, CA 93308 (888) 843-1029 www.earthguard.com	8 Storm Water Systems Terry Balog 800 E. Ocean Blvd., Suite 105 Long Beach, CA 90802 (562) 391-2925 www.stormwatersystems.net
1 PACE Advanced Water Engineering Michelle Hoalton 17520 Newhope Street, Suite 200 Fountain Valley, CA 92708 (714) 481-7300 www.pacewater.com	5 StormChamber Robert Maestro P.O. Box 672 Occoquan, VA 22125 (703) 492-0686 www.stormchambers.com	9 CleanWay Environmental Partners, Inc. Morgan Weidner P.O. Box 30087 Portland, OR 97294 (503) 467-2581 www.cleanwayusa.com
2 Earthsavers Erosion Control, LLC Lynn Friesner P.O. Box 2083 Woodland, CA 95776 (866) 928-8537 www.earth-savers.com	6 REM Marcel Sloane 960 B Detroit Ave. Concord, CA 94518 (925) 676-4736 www.remfilters.com	10 deeproot Shawn Freedberg 101 Montgomery Street, Suite 2850 San Francisco, CA 94101 (415) 580-0286 www.deeproot.com
3 Michael Baker International Scott Taylor 5050 Avenida Encinas, Ste. 260 Carlsbad, CA 92008 (760) 476-9193 www.mbakintl.com	7 Advanced Drainage Systems, Inc. Ryan Wade 4982 Patterson Avenue Perris, CA 92571 (800) 733-8523 www.ads-pipe.com	11 Heavyweight Sediment Control Solutions - WTB, Inc. Kristin Parkinson 1627 Main Ave., Suite 4 Sacramento, CA 95838 (916) 922-9222 www.durawattle.com

EXHIBIT HALL – REGENCY GRAND BALLROOM

- Super Premium Exhibitor
- Premium Exhibitor
- Regular Exhibitor



CASQA CONFERENCE EXHIBITORS (CONT.)

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12	StormTrap Stefanie Geiss 1287 Windham Parkway Romeoville, IL 60449 (877) 867-6872 www.stormtrap.com	19	Downstream Services, Inc. Kim Carr 2855 Progress Place Escondido, CA 92029 (760) 746-2544 www.downstreamservices.com	27	LaMotte Ernie Rector 802 Washington Ave. Chestertown, MD 21620 (800) 344-3100 www.lamotte.com
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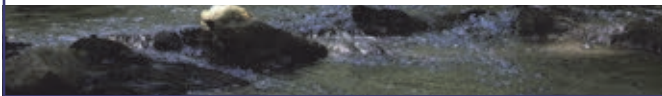
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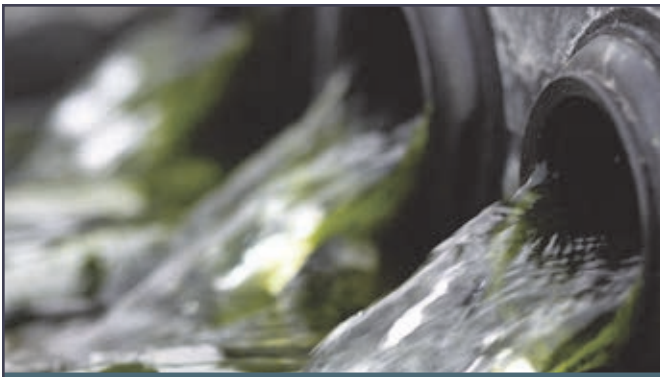
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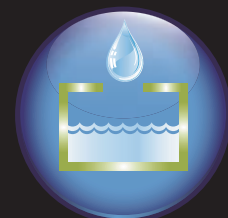
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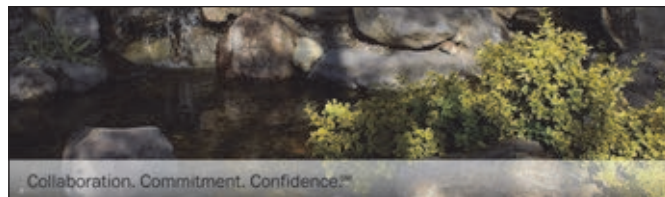


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