Solving the Stormwater Compliance Puzzle

BMPs

Education

Regulations

Science

November 5–7, 2012
Hilton San Diego at Mission Bay
San Diego, California

www.casqa.org
Improving the quality of California waters is our passion.

Carlsbad
Long Beach
Los Angeles
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Vallejo
Walnut Creek
Other Offices Worldwide

Sound science. Innovative solutions.

* Please stop by our booth during the conference to learn more about our work in Mission Bay and other water bodies throughout California.
The California Stormwater Quality Association (CASQA) is the largest professional association dedicated to stormwater quality issues. For 23 years, 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.

The CASQA Conference is now entering its 8th year and draws over 500 stormwater professionals from California and, increasingly, from across the country. The Conference carefully balances presentations and workshops featuring leading stormwater experts and an exposition of cutting-edge products and services with opportunities for attendees to network, socialize, and establish important professional contacts. It is the "must attend" stormwater training event for those responding to municipal, industrial, and construction NPDES stormwater permit requirements.

The 2012 CASQA Conference is being held at the Hilton San Diego at Mission Bay, 1775 E. Mission Bay Drive, San Diego, California, from November 5 – 7, 2012. This promises to be another exceptional CASQA conference.

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**San Diego shoreline (left); River bank in the San Diego area (right)**

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**About CASQA**

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

**Join CASQA**

Regular or affiliate membership in CASQA is open to organizations and individuals in the stormwater field, whether holders of NPDES permits or not. If you are not currently a member, by joining now, you can receive substantial reductions on the upcoming conference and webcast, as well as receiving all the other benefits of membership (newsletters, downloadable products, quarterly meetings, etc.). CASQA membership provides substantial benefits even if you are based outside California. It’s the right time to be a member of the premier professional association dedicated to the advancement of stormwater quality management, science, and regulation. Join now at www.casqa.org
In-Depth Workshops

CASQA will be holding ten half-day workshops (morning from 8:30 to 11:45 a.m. and afternoon from 1:30 to 5:00 p.m. Pacific Time). You can attend the workshops in person or can view the workshops via webcast.

1. LID: DISSECTING THE LID PUZZLE
Will examine policy considerations related to LID, including why we are doing LID, what methods are appropriate, and the use of LID as a tool for TMDL implementation and hydromodification.

2. CONSTRUCTION TOOLS AND TALK: CONSTRUCTION BMP PORTAL AND GROUP EXERCISE
Will focus on an overview of the California Construction General Permit, risk level determination, tasks and BMP tool box for the Qualified SWPPP Developer (QSD) and the Qualified SWPPP Practitioner (QSP). The session highlights the practical application of the CASQA Construction BMP Portal, example calculations (sediment basin and RUSLE2), and lessons for erosion and sediment control site planning through an interactive group exercise.

3. WHAT EVERY STORMWATER PROGRAM MANAGER “SHALL” KNOW: GUIDANCE FROM EXPERIENCED MS4 MANAGERS
Seasoned stormwater program managers will share experiences and suggestions on all aspects of permit implementation including organization, monitoring, plan check and permitting, inspection and enforcement, and public outreach and provide ideas for improving program efficiency.

4. INDUSTRIAL STORMWATER COMPLIANCE: KEY PROGRAM CHANGES AND NEW COMPLIANCE TOOLS
Will provide insight and training on the changes and new compliance assistance tools for the upcoming California Industrial General Permit (IGP) including new staff qualification requirements and monitoring program requirements.

5. LEGAL FRAMEWORK: TMDL DEVELOPMENT AND COMPLIANCE
Will feature separate panel discussions on the legal requirements for developing and adopting TMDLs in California and efforts to find alternative approaches to developing TMDLs that achieve water quality goals without the high cost and time constraints associated with traditional TMDL development.

6. LID: DISSECTING THE LID PUZZLE (Continuation Of Workshop 1)
Will focus on step-by-step methods for site selection and design of several LID measures from the BMP toolbox, including soil-based and vegetated BMPs, stormwater harvest and use concepts, and other emerging BMPs. Hear from experts on state-of-the-art BMP design guidance, BMP performance, and highlights of a recently released local LID manual.

7. CONSTRUCTION TOOLS AND TALK: WEATHER FORECASTS, COMMUNICATIONS, AND QSD/QSP FORUM (Continuation of Workshop 2)
Will dig into effective monitoring, dealing with the inevitable changes at construction sites, effective use of forecasts, and will end with the second annual QSD/QSP forum. The workshop and forum will provide an opportunity to earn professional development hours useful for credential renewal.

8. WHAT EVERY STORMWATER PROGRAM MANAGER “SHALL” KNOW: GUIDANCE FROM EXPERIENCED MS4 MANAGERS (Continuation of Workshop 3)
Will focus on how to optimize program effectiveness followed by a panel discussion with stormwater program managers and Regional Board staff who have experience working together productively and successfully.

9. INDUSTRIAL STORMWATER COMPLIANCE: KEY PROGRAM CHANGES AND NEW COMPLIANCE TOOLS (Continuation of Workshop 4)
Will provide an interactive session to work through the development of compliance documents and the proposed corrective action process outlined in the IGP, including pollutant source identification, selection of appropriate source and treatment controls, and background contribution.

10. UNRAVELING THE BACTERIA PUZZLE: CURRENT REGULATIONS AND NEW TECHNOLOGIES
Will cover the current status of bacteria regulations (particularly TMDLs) in California, provide an update on new scientific approaches, and include case studies illustrating the management strategies that several regulated agencies have taken to address them.
Keynote Address and Technical Program

A keynote address, a Trainer of Record Forum and over 90 concurrent session presentations will provide two packed days of stormwater information. Many of the leading stormwater practitioners from California and across the nation will be participating and making presentations.

CASQA is pleased to announce Chad Pregracke, Founder & President of Living Lands & Waters as this year’s keynote speaker. As the founder of America’s only “industrial-strength” river cleanup organization, Chad has a compelling and funny story to tell about growing up on the Mississippi River and how his love for and experiences on the river led to his unique vision to clean it up. Chad will leave you with a clear understanding of how one person’s actions can truly make a difference towards the sustainability of our world.

Concurrent sessions will follow eleven conference thematic tracks (see pages 8–14 for detailed agendas):

1. **CLEAN WATER ACT:** This track will celebrate local, regional and national accomplishments to mark the 40th anniversary of the Act and the 25th anniversary of the Water Quality Act amendments that initiated stormwater regulation and also address ongoing challenges posed by these important laws.

2. **CONSTRUCTION PERMIT:** This track will focus on lessons learned during the second year under the reissued California Construction General Permit and recent advancements in construction permits nationwide including numeric effluent limits and numeric action levels, post-construction requirements, risk assessment, sampling and monitoring, biosassessments, active treatment systems, and field compliance strategies.

3. **INDUSTRIAL PERMIT:** This track will focus on the forthcoming California General Industrial Permit reissuance and related issues including innovative stormwater compliance strategies/case studies, BMP effectiveness evaluations, integrated MS4 and industrial discharge approaches, field compliance strategies, numeric effluent limits and numeric action levels, site monitoring, and practical solutions for industries.

4. **MODIFYING PUBLIC BEHAVIOR:** This track will focus on the challenges and solutions to changing public and business behavior including public education, training, inspections, and enforcement.

5. **PROGRAM ASSESSMENT:** This track will focus on strategies to determine the effectiveness of stormwater programs including assessments of monitoring data, BMP effectiveness, effluent limits, numeric action levels, changes in polluting behaviors, and reductions in pollutant loading and also experiences from regulatory and third party audits.

6. **REGULATIONS, PERMITS AND POLICIES:** This track will focus on the latest developments in stormwater regulations, policies and permits including effluent limitations, receiving water limitations, the definitions of maximum extent practicable and water of the United States, toxicity and trash policies, ASBSs, TMDLs, basin planning issues, and 303(d) listings.

7. **SCIENTIFIC ADVANCES:** This track will focus on monitoring and the latest research into stormwater management including data collection and evaluation, pollutant source tracking, emerging pollutants, new technologies, new monitoring and assessment tools, stormwater impacts and economic assessments.

8. **STORMWATER TREATMENT:** This track will focus on the most recent information on BMP design and guidance including development of standard plans, case studies, treatment efficiency, facility retrofitting, regional treatment, and multi-purpose facilities.

9. **SUSTAINABLE DEVELOPMENT:** This track will focus on tools for implementing low impact development (LID) and hydromodification requirements and related issues including integrated regional or watershed planning, green streets, smart growth, and stormwater harvesting and reuse.

10. **TMDLS IN MS4 PERMITS:** This track will focus on the impact of TMDL allocations as requirements in MS4 permits including TMDL permitting approaches, allocations as effluent limits or BMP programs, case studies on implementation, and non-point sources impacting the MS4.

11. **TRUE SOURCE CONTROL:** This track will focus on ways to protect streams, lakes and the ocean by reducing, substituting or eliminating harmful products and chemicals and through systematic approaches including producer responsibility zero waste, green chemistry, pesticide registration, runoff elimination, water conservation, and multi-jurisdictional coordination.
The City of San Diego wishes to welcome all the 2012 CASQA attendees to this year’s conference.

As Host City Sponsor, Think Blue looks forward to engaging with the other municipalities and organizations in solving the storm water compliance puzzle, and preventing pollution in California’s waterways.
CASQA would like to thank the following sponsors and advertisers for supporting the CASQA 2012 Conference.

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- Rick Engineering
October 18, 2012 marks the 40th anniversary of the Clean Water Act and February 4, 2012 is the 25th anniversary of the Water Quality Act that initiated stormwater quality regulation. CASQA is pleased to mark both milestone anniversaries at the Conference and has devoted a presentation track to address the accomplishments and challenges posed by these important laws. September 27, 2012 was also the 50th anniversary of the publication of Rachel Carson’s “Silent Spring” that brought to light the pesticide use issues we continue to work on to this day.

Clean water is vital for our health, communities, environment and economy. We have made great progress over the last 40 years but much remains to be done. Many of the low-hanging issues have been resolved and the ones that remain are technically complex, difficult from a regulatory perspective, and increasingly costly.

Where we are heading in the next 25 to 40 years will be an important topic at the Conference.

Any issues with logging the credits should be sent to AICPCM@planning.org.

- California Water Environment Association (CWEA) CWEA contact hours are available for attendance at the CASQA Conference, including the workshops. A CWEA contact hour verification form must be filled out by those requesting CWEA contact hours at the registration table and CASQA will issue a Certificate of Completion.

- State Bar of California Minimum Continuing Legal Education (MCLE) credits are being requested from the State Bar of California.
Environmental engineering and consulting.
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<thead>
<tr>
<th>WORKSHOP</th>
<th>LOCATION</th>
<th>TOPICS</th>
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<tbody>
<tr>
<td>1</td>
<td>MARSEILLES/PORTOFINO</td>
<td>DISSECTING THE LID PUZZLE</td>
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<tr>
<td>2</td>
<td>TERRAZZA BALLROOM</td>
<td>CONSTRUCTION TOOLS AND TALK</td>
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<tr>
<td>3</td>
<td>SORRENTO BALLROOM</td>
<td>WHAT EVERY STORMWATER PROGRAM MANAGER “SHALL” KNOW</td>
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<tr>
<td>4</td>
<td>SAN MARINO BALLROOM</td>
<td>INDUSTRIAL STORMWATER COMPLIANCE</td>
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<td>5</td>
<td>MARBELLA/LAS PALMAS</td>
<td>TMDL DEVELOPMENT AND COMPLIANCE</td>
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</tbody>
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**7:30a - 5:30p**

**REGISTRATION DESK** (FOYER)

**12:00 - 6:00p**

**EXHIBITS** (PAVILION)

<table>
<thead>
<tr>
<th>WORKSHOP</th>
<th>BREAK (FOYER)</th>
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<tr>
<td>1</td>
<td>10:00 - 10:15</td>
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<td>2</td>
<td>10:15 - 11:45</td>
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<td>3</td>
<td>11:45 - 1:30</td>
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**10:00 - 10:15**

**BREAK (FOYER)**

10:15 - 11:45

**EXHIBITOR FOCUS (PAVILION) AND LUNCH (SOUTH POOLSIDE TERRACE)**

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**Moderator** - Dennis Bowling:
Rick Engineering
Panel - Lisa Austin: Geosyntec Consultants; Eric Berntsen: State Water Board; Jon Konnan: EOA; David Pohl: Weston Solutions

11:45 - 1:30

**La Jolla cove (left); One-on-one discussion at the CASQA conference (right)**

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**La Jolla cove (left); One-on-one discussion at the CASQA conference (right)**
MONDAY, November 5, 2012 (cont.)

**WORKSHOP 6**
**MARESSELS/PORTOFINO**

**DISSECTING THE LID PUZZLE**
BMP Toolbox (cont.)

- Welcome/Opening Remarks and Overview
  - Anna Lantin : RBF Consulting
- CASQA BMP Handbook/Webportal and Resources
  - Anna Lantin : RBF Consulting
- Bioretention - Design, Site Selection, Calculations, Contract
  - Ryan Winston : North Carolina State University
- Riverside County Flood Control
  - LID Design Manual and LID/BMP Test Facility – Design Methods, Lessons Learned
  - Bob Cullen : Riverside County Flood Control

**1:30 - 3:00**

Break and Exhibitor Focus (Pavilion)

**EXHIBITOR FOCUS (Pavilion)**

**3:00 - 3:30**

Stormwater Harvest and Use and Project Supply and Demand
- Daniel Apt : RBF Consulting
- Pavement BMPs: Performance
  - Porous Pavement (storage) and Open Graded Friction Course
  - Michael Barnett : University of Texas
- Closing Remarks
  - Anna Lantin : RBF Consulting

**3:30 - 5:00**

**WORKSHOP 7**
**TERRAZZA BALLROOM**

**CONSTRUCTION TOOLS AND TALK**
Change Management, Weather Forecasts, Communications and QSD/QSP Forum (cont.)

- Welcome/Opening Remarks and Overview
  - Jeff Endicott : AEI-CASC Consulting
- Matching the Pieces: The Ideal and Reality of Construction
  - Marvin Scheck : Brain Industries
- Weather Watch: Forecast Resources Available from the National Weather Service
  - Alex Tardy : National Weather Service

**WORKSHOP 8**
**SORRENTO BALLROOM**

**WHAT EVERY STORMWATER PROGRAM MANAGER “SHALL” KNOW**
Guidance From Experienced MS4 Managers (cont.)

- Welcome/Opening Remarks and Overview
  - Daniel Apt : RBF Consulting
  - Sharon Gosselin : Alameda County
- Program Effectiveness: Planning, Tracking, Reporting, Assessing and Modifying — How to Optimize Your Stormwater Program Effectiveness
  - Karen Ashby : Larry Walker Associates
- Overview of Exceedance Response Action Process
  - Ed Childers : Golder Associates

**WORKSHOP 9**
**SAN MARINO BALLROOM**

**INDUSTRIAL STORMWATER COMPLIANCE**
Key Program Changes (cont.)

- Welcome/Opening Remarks and Overview
  - Sandy Mathews : Larry Walker Associates
- Development and Implementation of a Compliant Monitoring Program
  - Sandy Mathews : Larry Walker Associates
- Overview of Exceedance Response Action Process
  - Ed Childers : Golder Associates

**WORKSHOP 10**
**MARBELLA/LAS PALMAS**

**UNRAVELING THE BACTERIA PUZZLE**
Current Regulations and New Technologies

- Welcome/Opening Remarks and Overview
  - Nancy Gardner : Weston Solutions
- The Ever-Changing Status of Bacteria TMDLs in California: California Bacteria TMDLs: Alternative Models and Measurements
  - Dan Schoewe : CCDF Smith
- Case Study: TMDL Implementation — How Much is Enough?
  - Neal Shapiro & Rick Vale : City of Santa Monica

**3:00 - 3:30**

Stormwater Harvest and Use and Project Supply and Demand
- Daniel Apt : RBF Consulting
- Pavement BMPs: Performance
  - Porous Pavement (storage) and Open Graded Friction Course
  - Michael Barnett : University of Texas
- Closing Remarks
  - Anna Lantin : RBF Consulting

**3:30 - 5:00**

Real World Math: Challenges for pH and Turbidity Sample Reporting on an Ever-Changing Construction Site
- Courtney Wilton & Kim Williams : GeoSyntec Consultants
- The GSD/GSP Renewal Process and GSP Implementation
  - Feedback from State Inspectors
  - Brian Curran : Office of Water Programs at California State University, Sacramento
- GSD & GSP Forum
  - Gerald Montgomery : Montgomery & Assoc., Inc.
- Closing Remarks
  - Jeff Endicott : AEI-CASC Consulting

**5:00 - 6:00**

**EXHIBITOR FOCUS (Pavilion)**

**6:30 - 9:30**

**MONDAY EVENING NETWORKING EVENT**
(The Wave House – Extra Fee Applies) – SHUTTLES START AT 6:05
### CASQA Technical Program Agenda

**TUESDAY, November 6, 2012**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Track A</th>
<th>Track B</th>
<th>Track C*</th>
<th>Track D</th>
<th>Track E</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30a - 5:30p</td>
<td>Registration Desk (Pavilion)</td>
<td>TERRAZZA BALLROOM</td>
<td>SORRENTO BALLROOM</td>
<td>SAN MARINO BALLROOM</td>
<td>MARBELLA/LAS PALMAS</td>
<td>MARSEILLES/PORTOFINO</td>
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<tr>
<td>8:00a - 7:30p</td>
<td>Exhibits (Pavilion)</td>
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<tr>
<td>8:00a - 8:10a</td>
<td>Welcome and Opening Remarks – Richard Boon, Chair, CASQA</td>
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<td>8:10a - 8:40a</td>
<td>Keynote Address – Chad Prgercrke, Founder &amp; President, Living Lands &amp; Waters</td>
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<td>8:40a - 9:40a</td>
<td>PLENARY SESSION 8:30 - 9:40</td>
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<td>9:40a - 10:00a</td>
<td>Break and Exhibitor Focus (Pavilion)</td>
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<tr>
<td>10:00a - 10:30a</td>
<td>Session 1</td>
<td>CLEAN WATER ACT</td>
<td>CONSTRUCTION PERMIT</td>
<td>INDUSTRIAL PERMIT</td>
<td>MODIFYING PUBLIC BEHAVIOR</td>
<td>STORMWATER TREATMENT</td>
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<tr>
<td>MODERATOR</td>
<td>Rebecca Winer-Skonovd, Larry Walker Associates</td>
<td>Sara Huber, Weston Solutions</td>
<td>Bill Flores, HDR</td>
<td>Claudia Steiding, County of Riverside</td>
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<tr>
<td>10:00a - 10:30a</td>
<td>Has the Clean Water Act Been Successful? A 40-Year Retrospective Analysis of the Southern California Coastal Ocean Karen Setty, Southern California Coastal Water Research Project Authority</td>
<td>Field Compliance Under the New Construction General Permit Tracy Beach &amp; Artemio Herrera, Bureu Venitas</td>
<td>Industrial General Permit Reissuance 2012 Update Greg Gearheart, State Water Board</td>
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<tr>
<td>10:00a - 10:30a</td>
<td>John Wayne Airport: As the Duke Would Say, “Tomorrow Hope We Have Learned Something from Yesterday” Maria Pope, John Wayne Airport; Jason Pereira, CWE</td>
<td>Mind Your Own Business! An Adaptive Management Approach to Assisting Businesses with Compliance Jennifer Nichols Kearns, Cherlyn Cac, City of San Diego</td>
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<tr>
<td>10:35a - 11:05a</td>
<td>Reflecting on 25 Years of 402(P) and the California Experience Malcolm Walker &amp; Brian Laurensen, Larry Walker Associates</td>
<td>A “Master” SWPPP for Construction General Permit Compliance Rasanna Lacerca, LaBofc Environmental</td>
<td>Oil and Gas Production and Storm Water Regulation: A Combination That Won’t Mix S. Wayne Rosenbaum, State Rivers LLP; Sean Porter, SCS Engineers</td>
<td>Building Brands that Connect with Difficult Audiences Stephen Grover, S. Grover Associates</td>
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<td>11:00a - 11:40a</td>
<td>Enforcement of Stormwater BMP Maintenance – The Forgotten Element in Improving Water Quality Craig Beatty &amp; Greg Kent, Stormwater Equipment Manufacturers Association</td>
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<td>11:40a - 12:00p</td>
<td>Exhibitor Focus (Pavilion)</td>
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<td>12:00p - 1:30p</td>
<td>LUNCH (CAPRI, RIVIERA, MONTE CARLO AND ST. TROPEZ BALLROOMS)</td>
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<td>1:30p - 2:00p</td>
<td>Special Presentation to State Senator Christine Kehoe / CASQA Awards Program</td>
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</tbody>
</table>

*Track C on Tuesday, November 6, 2012 is available by Webcast (extra fee applies)*
<table>
<thead>
<tr>
<th>SESSION 2</th>
<th>TRACK A</th>
<th>TRACK B</th>
<th>TRACK C+</th>
<th>TRACK D</th>
<th>TRACK E</th>
</tr>
</thead>
<tbody>
<tr>
<td>REGULATIONS, PERMITS &amp; POLICIES</td>
<td>The Endangered Species Act and Stormwater: Another Route to Numeric Efficient Limits?</td>
<td>Effectiveness of Trash Control Measures</td>
<td>Oyster Bay Tidal March</td>
<td>How to Create a Website</td>
<td>Sustainable Stormwater Management at an Auto Dismantling Site</td>
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<td></td>
<td>Eric Strecker</td>
<td>Yakko Allen, CONTECH Engineering Solutions, LLC</td>
<td>Laura Overmyer, Ots Institute</td>
<td>Erica Hooper</td>
<td>Martin Spongberg, AMEC</td>
</tr>
<tr>
<td>2:05 - 2:35</td>
<td>San Diego Hydromodification</td>
<td>The New Driver for Stormwater Programs in Southern California</td>
<td>A Case Study of a Scrap Facility</td>
<td>Elk Grove Rain Garden Plaza</td>
<td>Runoff Treatment for a Waterfront Log Sort Yard</td>
</tr>
<tr>
<td>Monitoring Requirements and Site Selection</td>
<td>Karen Ashby</td>
<td>Comply with a Consent Agreement</td>
<td>Brent Smith</td>
<td>Martin W. Dunning</td>
<td>Kennedy/Unke Consulting; Anita Fichthorn, Port of Tacoma</td>
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<tr>
<td>Brian Haines, ESA PWA; Christine Sloan, County of San Diego</td>
<td>Larry Walker Associates, Inc.; Richard Boon</td>
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<tr>
<td>Comparison and Evaluation</td>
<td>Kim Williams, Kathleen Harrison</td>
<td>Case Study</td>
<td>Ryan Bailey</td>
<td>John Dettle &amp; Tracy Drake, City of Torrance; Zach Kent, Modular Wetland Systems, Inc.</td>
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<td>Bram Senu</td>
<td>Erica Smalstig</td>
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<td>County of Orange</td>
<td>Geosyntec Consultants</td>
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<td>ALTERNATE</td>
<td>2012 Contra Costa Community Clean Water Initiative – Lessons Learned: Creating a Countywide Dedicated Revenue Source for NPDES Permit Compliance</td>
<td>Southern California Regional Stormwater Monitoring Program</td>
<td>Landfill Compliance Strategies for the Proposed CA Industrial General Permit</td>
<td>San Diego Hydromodification</td>
<td>Stormwater Enforcement</td>
</tr>
<tr>
<td>2:40 - 3:10</td>
<td>John Bliss &amp; Jesse Salmon, S2 Consulting Group; Karen Ashby</td>
<td>Comparison and Evaluation</td>
<td>Kim Williams, Kathleen Harrison</td>
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<td>Case Study</td>
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<td>DELAYED SESSION</td>
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<td>STEPS</td>
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<td>TRACK C+</td>
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<td>3:10 - 3:45</td>
<td>BREAK AND EXHIBITOR FOCUS (PAVILION)</td>
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<td>3:45 - 4:15</td>
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<td>MODERATOR</td>
<td>Lisa Austin</td>
<td>Richard Boon</td>
<td>Gerhard Hubner</td>
<td>Jill Bicknell</td>
<td>Nicole West</td>
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<td>THE TERRAZZA BALLROOM</td>
<td>County of Orange</td>
<td>Ventura County Watershed Protection District</td>
<td>Ventura County Watershed Protection District</td>
<td>Santa Clara Valley Urban Runoff Pollution Prevention Program</td>
<td>LSA Associates</td>
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<tr>
<td>Melissa Thorner, Downey Brand LLP</td>
<td>John Guenzer &amp; Brianna Martin: D-Max Engineering; Barby Tipton, County of Orange</td>
<td>Kelli D. Moran</td>
<td>TDC Environmental</td>
<td>Environmental Consulting: Tom Dailie, Contra Costa Clean Water Program</td>
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<td>Lauren Langer, Jenkins &amp; Heigan LLP</td>
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<td>Robert Stein</td>
<td>Jon Van Rhyn</td>
<td>Kristina Schneider &amp; Brenda Stevens, AKC; Ruth Kolb</td>
<td>Daniel Apt &amp; Jeremy Hohrau, RBP Consulting</td>
<td>James Rabong &amp; Jim Hock</td>
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<td>Chris Simmons, EDA, Inc.</td>
<td>Bram Senu</td>
<td>Santa Clara Valley Urban Runoff Pollution Prevention Program</td>
<td>Michael Rhoades</td>
<td>Ryan Janoch &amp; Mike Kimberlain</td>
<td>Stormwater Equipment Manufacturers Association</td>
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<td>An Alternative Approach to the TMDL Process – Big Canyon Selenium Reduction Project</td>
<td>A Progressive Approach to Achieving Industrial/Commercial Compliance in the City of San Diego</td>
<td>Local Governments’ Cost of Marine Debris</td>
<td>Innovative LID/Green Streets Parking Lot Retrofit at the Ventura County Government Center</td>
<td>Peat-Based Sorption Media: A New Approach for Removing Heavy Metals from Stormwater</td>
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<tr>
<td>Robert Stein</td>
<td>Annika Kubickova, D-Max Engineering, Inc.; Andre Sukanek, City of San Diego</td>
<td>U.S. Environmental Protection Agency Region 9</td>
<td>Yagul Lall &amp; Gerhardt Hubner, Ventura County Watershed Protection District</td>
<td>Paul Eger</td>
<td>Golden Associates</td>
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## CASQA Technical Program Agenda

### Wednesday, November 7, 2012

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<tr>
<th>Time</th>
<th>Event Content</th>
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<tbody>
<tr>
<td>7:00a - 8:30a</td>
<td><strong>Trainer of Record Forum</strong> (Capri Ballroom)<strong>REGISTRATION DESK</strong> (FOYER)</td>
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<td>7:30a - 12:00p</td>
<td><strong>Track A</strong> TERRAZZA BALLROOM  <strong>Track B</strong> SORRENTO BALLROOM</td>
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<tr>
<td>8:00a - 1:30p</td>
<td><strong>Session 4</strong> REGULATIONS, PERMITS &amp; POLICIES  TMDLS IN MS4 PERMITS</td>
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<tr>
<td>10:15 - 10:40</td>
<td><strong>Break and Exhibitor Focus</strong> (PAVILION)</td>
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### Trainer of Record Forum

CASQA will host its first Trainer of Record (ToR) Forum from 7:00 to 8:30 a.m. on Wednesday November 7, 2012 in the Capri Ballroom. All qualified ToRs and those ToR candidates whose statement of qualifications has been approved as part of the recent request for qualifications process are encouraged to attend. The Forum is intended to provide an opportunity to network, discuss lessons learned and updates to the Construction General Permit (CGP) training, evaluate options for ToR refresher training, and to pose questions and concerns about providing the CGP training.
**SESSION 5**

**REGULATIONS, PERMITS & POLICIES**

**TRACK A**
**TERRAZZA BALLROOM**

**MODERATOR**

**10:40 - 11:10**
The Next Generation Permit – The New Phase II NPDES Permit
Christine Sotelo : State Water Board

**CONSTRUCTION PERMIT**
Lisa Haney : Orange County Sanitation District
Is SMARTS Making Us Smarter? Observations Regarding Construction Sites Gleaned from the Public Access Portal to SMARTS
Jeff Endicott & Rebekah Guill : AEI-CASC Engineering, Inc.

**STORMWATER TREATMENT**
Kevin McGillicuddy : Roscoe Moss
Development and Construction of an LID BMP Testing and Demonstration Facility at the Riverside County Flood Control and Water Conservation District Headquarters, Riverside, California
Arlene Chun : Riverside County Flood Control and Water Conservation District

**TRUE SOURCE CONTROL**
Ruth Kolb : City of San Diego
True Source Control: GreenPro Helps Consumers and Agencies Reduce Pesticides in Runoff by Obtaining Bona Fide Integrated Pest Management Services
Bob Rosenberg & Andrew Architect : National Pest Management Association

**SCIENTIFIC ADVANCES**

**TRACK B**
**SORRENTO BALLROOM**

**11:15 - 11:45**
Regional Municipal Separate Storm Sewer System (MS4) Permit for the San Diego Region
Wayne Chiu : San Diego Regional Board

**PERMITTING A $10 Billion Renewable Energy Construction Project – Challenges, Solutions, and Lessons Learned**
Paul Tensma & Paul Ahn : Southern California Edison

**EVALUATION OF LARGE SCALE INFLTRATION AND RETENTION/REUSE ON RECEIVING WATERS WITHIN SAN DIEGO COUNTY**
Richard Lucera : RBF Consulting

**ELIMINATING PESTICIDE TOXICITY THROUGH TRUE SOURCE CONTROL: RECENT SUCCESSES IN AFFECTING PESTICIDE REGULATIONS HOLD PROMISE FOR REGULATORY RELIEF**
Dave Tamayo : County of Sacramento

**ALTERNATE**

**FINDINGS OF A REVIEW OF SCIENCE SUPPORTING DISSOLVED OXYGEN OBJECTIVES IN CALIFORNIA ESTUARIES**
Martha Sutula : Southern California Coastal Water Research Project

**CONSTRUCTION SITE COMPLIANCE – FROM THE INSIDE OUT**
Melanie E. Sotelo & Michael W. O’Yearn : AEI-CASC Consulting, Inc.

**COANDA BMP FOR REMOVAL OF SEDIMENT, NUTRIENTS, AND METALS FROM URBAN RUNOFF**
Steve Esmond : Coanda, Inc.; Robbin Webber : City of Rowlett

**GOLD STORMWATER STEWARD**

**WEDNESDAY, November 7, 2012 (cont.)**
<table>
<thead>
<tr>
<th>Time</th>
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<td>12:00 - 1:15</td>
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<td>1:15 - 1:45</td>
<td>SCIENTIFIC ADVANCES (BACTERIA)</td>
<td>TMDLs in MS4 PERMITS</td>
<td>SUSTAINABLE DEVELOPMENT (HYDROMOD &amp; LID)</td>
<td>SUSTAINABLE DEVELOPMENT</td>
<td>SCIENTIFIC ADVANCES</td>
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<td>1:15</td>
<td>Tracy Ingebrigtsen : City of Laguna Beach</td>
<td>Jason Uhley : Riverside County Flood Control</td>
<td>Nicole West : LSA Associates</td>
<td>Sara Huber : Weston Solutions</td>
<td>Lisa Haney : Orange County Sanitation District</td>
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<td>1:15 - 1:45</td>
<td>Managing and Predicting Costs, Benefits, and Uncertainties in Comprehensive Load Reduction Planning for Compliance with San Diego County Bacteria TMDLs</td>
<td>The Power of Regulatory Approaches to Avoid TMDLs and Reduce TMDL Implementation Requirements: Success Stories in the San Diego and Los Angeles Region</td>
<td>Central Coast Hydromodification Requirements – Reducing BMP Sizes and Costs</td>
<td>Integration of Stormwater Management into Water Supply Planning</td>
<td>Historical Analysis as a Tool to Inform Watershed-based Stormwater Management</td>
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<td>3:30 - 4:05</td>
<td>TMDLs in MS4 Permits: Game Change</td>
<td>Sensitivities of LID-Based Hydromodification BMPs</td>
<td>Stormwater Project Development through Integrated Regional Water Management Planning (IRWMP) in the Greater Los Angeles County Region</td>
<td>Improving Tools to Link Nutrient to Stream Algal Biomass: Validation of the Nutrient Numeric Endpoint (NNE) Framework Benthic Algal Biomass Spreadsheet Tool for Southern California Streams</td>
<td>Hydrology Analyses for Distributed and Regional Stormwater Harvesting Opportunities in Southern California</td>
</tr>
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</table>
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- Modeling/GIS Integration
- Water supply planning
- Watershed planning and management
- Groundwater studies
- Hydraulic and hydrologic design
- Mapping and floodplain management
- Monitoring program design and implementation
|| EXHIBITOR | CONTACT | ADDRESS / PHONE | WEBSITE |
|---|---|---|---|
| 1 | KriStar/Filterra Alliance | Craig Beatty | 360 Sutton Place, Santa Rosa, CA 95407 Phone (800) 579-8819 | www.kristar.com |
| 2 | Cleanwater Solutions, Inc. | Joe Arthur | P.O. Box 2078, Vista, CA 92085 Phone (800) 758-8817 | www.cleanwaterbmp.com |
| 3 | PACE | Michelle Hoalton | 17520 Newhope Street, Suite 200, Fountain Valley, CA 92708 Phone (714) 481-7300 | www.pacewater.com |
| 4 | American Peat Technology | Ryan Menzel | 36203 350th Ave., Aitkin, MN 56431 Phone (218) 927-7888 | www.americanpeattech.com |
| 5 | CBI-Systems, Ltd. | Ty Garmon | 3120 Fannin Street, Beaumont, TX 77701 Phone (409) 835-3095 | www.cbi-systems.com |
| 6 | AC&E, Inc. Absorb, Concentrate, Eliminate | Stephen Quartararo | 6693 Moonriver Street, Eastvale, CA 91752 Phone (714) 337-4323 | www.waterace.net |
| 7 | California Water Boards | Greg Gearheart | 1001 “I” Street, Sacramento, CA 95814 Phone (916) 563-3107 | www.waterboards.ca.gov/stormwater/ |
| 8 | Shift Business Intelligence, Inc. | Greg McCormick | 2102 Oakcrest Drive, Riverside, CA 92506 Phone (951) 315-1081 | www.shiftstormwater.com |
| 9 | AquaShield, Inc. | Julie Danley | 2705 Kanasitsa Drive, Chattanooga, TN 37343 Phone (423) 870-8888 | aquashieldinc.com |
| 10 | Campbell Scientific, Inc. | Ron Goodrich | 815 West 1800, North Logan, UT 84321 Phone (435) 229-9000 | www.campbellsic.com |
| 11 | Imbrium Systems Corporation | Laddie Fromelius | 7564 Standish Place, Suite 112, Rockville, MD 20855 Phone (240) 269-8321 | www.imbriumsystems.com |
| 12 | C.I. Agent StormWater Solutions | James Aderhold | 5142 Bolsa Ave., #105, Huntington Beach, CA 92649 Phone (562) 619-8708 | www.cigent-stormwater.com |
| 13 | Downstream Services, Inc. | Kim Carr | 2855 Progress Place, Escondido, CA 92029 Phone (760) 746-2544 | www.downstreamservices.com |
| 14 | Bio Clean Environmental Services, Inc. / Modular Wetlands | Abigail Kent | 2972 San Luis Rey Road, Oceanside, CA 92058 Phone (760) 433-7640 | www.BioCleanEnvironmental.net |

### EXHIBITOR PAVILION

![Exhibitor Pavilion Map](image-url)
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<td>Oldcastle</td>
<td>John Scott</td>
<td>705 Mosaic Circle, Oceanside, CA 92057</td>
<td><a href="http://www.oldcastleprecast.com">www.oldcastleprecast.com</a></td>
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<td>E.S. Babcock &amp; Sons, Inc.</td>
<td>Dan Wing</td>
<td>6100 Quail Valley Court, Riverside, CA 92507</td>
<td><a href="http://www.babcocklabs.com">www.babcocklabs.com</a></td>
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<tr>
<td>17</td>
<td>Blocksom &amp; Company</td>
<td>Augie Brazys</td>
<td>450 St. John Road Suite 710, Michigan City, IN 46360</td>
<td><a href="http://www.blocksom.com">www.blocksom.com</a></td>
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<td>Tetra Tech</td>
<td>Chad Helmle</td>
<td>9444 Balboa Ave., Suite 215, San Diego, CA 92123</td>
<td><a href="http://www.tetratech.com">www.tetratech.com</a></td>
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<td>City of San Diego</td>
<td>Jennifer Kearns</td>
<td>9370 Chesapeake Dr. #100, San Diego, CA 92123</td>
<td><a href="http://www.thinkblue.org">www.thinkblue.org</a></td>
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<td>22</td>
<td>Earthguard by Terra Novo</td>
<td>Andy Iturriria</td>
<td>2930 Patton Way, Bakersfield, CA 93308</td>
<td><a href="http://www.EarthGuard.com">www.EarthGuard.com</a></td>
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<td>Rain for Rent</td>
<td>Ellaine Hibbs</td>
<td>P.O. Box 2248, Bakersfield, CA 93303</td>
<td><a href="http://www.rainforrent.com">www.rainforrent.com</a></td>
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<td>ETIC Engineering</td>
<td>Daniela Kobsar</td>
<td>2285 Morello Avenue, Pleasant Hill, CA 94523</td>
<td><a href="http://www.eticeng.com">www.eticeng.com</a></td>
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- TMDL implementation planning & third party TMDL development
- Watershed, water quality, hydrology and hydraulics modeling
- Drainage and water quality master planning
- Structural Best Management Practice (BMP) planning, analysis, & design
- Stormwater utility management support, financing studies and support
- Wetlands and stream evaluations
- Illicit cross connection studies
- Condition assessments
- Monitoring and reporting

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Pasadena | 626.584.1700  
Long Beach | 562.264.1100  
Riverside | 951.320.7300

**GOLD STORMWATER STEWARD**
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<td>25</td>
<td>CONTECH Engineered Solutions, Inc.</td>
<td>Vaikko Allen</td>
<td>3777 Long Beach Blvd., Long Beach, CA 90807 Phone (562) 733-0733</td>
<td><a href="http://www.conteches.com">www.conteches.com</a></td>
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<tr>
<td>26</td>
<td>Angelus Block Co., Inc.</td>
<td>David Quinn</td>
<td>3435 S. Riverside Ave., Rialto, CA 92316 Phone (951) 328-9115</td>
<td><a href="http://www.angeluspavingstones.com">www.angeluspavingstones.com</a></td>
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<td>27</td>
<td>AEI-CASC Consulting</td>
<td>Amy Williams</td>
<td>1470 Cooley Drive, Colton, CA 92324 Phone (909) 783-0101</td>
<td><a href="http://www.aei-casc.com">www.aei-casc.com</a></td>
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<td>28</td>
<td>Hanna Instruments</td>
<td>Josh Ryan</td>
<td>270 George Washington Hwy., Smithfield, RI 2917 Phone (800) 426-6287</td>
<td><a href="http://www.hannainst.com">www.hannainst.com</a></td>
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<td>29</td>
<td>Weck Laboratories, Inc.</td>
<td>Leo Raab</td>
<td>14859 E. Clark Avenue, City of Industry, CA 91745 Phone (626) 369-2139</td>
<td><a href="http://www.wecklabs.com">www.wecklabs.com</a></td>
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<td>30</td>
<td>United Storm Water, Inc.</td>
<td>Lydia Perry</td>
<td>14000 E. Valley Blvd., City of Industry, CA 9746 Phone (626) 802-7078</td>
<td><a href="http://www.unitedstormwater.com">www.unitedstormwater.com</a></td>
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<td>31</td>
<td>ERTEC Environmental Systems</td>
<td>Vince Morris</td>
<td>1150 Ballena Blvd., Suite 250, Alameda, CA 94501 Phone (510) 521-0724</td>
<td><a href="http://www.ertecsystems.com">www.ertecsystems.com</a></td>
</tr>
<tr>
<td>32</td>
<td>SCI Consulting Group</td>
<td>John Bliss</td>
<td>4745 Mangels Boulevard, Fairfield, CA 94534 Phone (707) 430-4300</td>
<td><a href="http://www.sci-cg.com">www.sci-cg.com</a></td>
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<tr>
<td>33</td>
<td>Weston Solutions, Inc.</td>
<td>Michael Drennan</td>
<td>5817 Dryden Place, Suite 101, Carlsbad, CA 92008 Phone (760) 795-6900</td>
<td><a href="http://www.westonsolutions.com">www.westonsolutions.com</a></td>
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<td>Golder Associates Inc.</td>
<td>Tim Bauters</td>
<td>425 Lakeside Drive, Sunnyvale, CA 94085 Phone (408) 220-9223</td>
<td><a href="http://www.golder.com">www.golder.com</a></td>
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<tr>
<td>35</td>
<td>Rinker Materials</td>
<td>Jim Johnston</td>
<td>23200 Temescal Canyon Road, Corona, CA 92883 Phone (909) 322-7604</td>
<td><a href="http://www.rinkerstormceptor.com">www.rinkerstormceptor.com</a></td>
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<td>Jensen Precast</td>
<td>Marcia Neese</td>
<td>4630 Worth St., Los Angeles, CA 90063 Phone (323) 263-4111</td>
<td><a href="http://www.jensenprecast.com">www.jensenprecast.com</a></td>
</tr>
<tr>
<td>37</td>
<td>Roscoe Moss Company</td>
<td>Kevin McGillicuddy</td>
<td>505 N. 51st Ave., Phoenix, AZ 85043 Phone (510) 796-2048</td>
<td><a href="http://www.roscemoss.com">www.roscemoss.com</a></td>
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<tr>
<td>38</td>
<td>Advanced Drainage Systems</td>
<td>Jeff Pierce</td>
<td>505 N. 51st Ave., Phoenix, AZ 85043 Phone (951) 796-2048</td>
<td><a href="http://www.ads-pipe.com">www.ads-pipe.com</a></td>
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<tr>
<td>39</td>
<td>Invisible Structures</td>
<td>Dustin Glist</td>
<td>1600 Jackson St., Suite 310, Golden, CO 80401 Phone (800) 233-1510</td>
<td><a href="http://www.invisiblestructures.com">www.invisiblestructures.com</a></td>
</tr>
<tr>
<td>40</td>
<td>Coanda, Inc.</td>
<td>Steve Esmond</td>
<td>3943 Irvine Blvd., #327, Irvine, CA 92602 Phone (714) 389-2113</td>
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<td><a href="http://www.remfilters.com">www.remfilters.com</a></td>
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<td>42B</td>
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<td>Patrick Freeman</td>
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24
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