MONTEREY SEA
Stormwater Education Alliance
Carmel-by-the-Sea • County of Monterey • Del Rey Oaks
Monterey • Pacific Grove • Sand City • Seaside

NOTICE AND AGENDA

MANAGEMENT COMMITTEE for the MONTEREY REGIONAL STORMWATER MANAGEMENT PROGRAM

DATE: September 30, 2026
TIME: 9:30 a.m.
LOCATION: Monterey One Water Conference Room, 5 Harris Court, Building D, Monterey CA

THIS HYBRID MEETING WILL BE HELD BOTH IN-PERSON AND VIRTUALLY

To join the Zoom Webinar Meeting, click on this link:

https://us02web.zoom.us/j/84922527108?pwd=MFfYAYAk5eb3LcS6eFAsShezp5yvfl.1

or copy and paste the link into your browser. If your computer does not have audio, you will need to join the meeting via phone. To participate telephonically, you can call the number below and enter the webinar ID number and password when prompted:

(669) 900-9128 | Webinar ID: 849 2252 7108 | Passcode: 799961

PUBLIC COMMENTS: If you are unable to participate via telephone or webinar, you may submit your comments by e-mailing them to MontereySEA@my1water.org with one of the following subject lines: "PUBLIC COMMENT ITEM #" (insert the item number relevant to your comment) or "PUBLIC COMMENT – NON-AGENDA ITEM". Comments must be received by 12:00 p.m. on Tuesday, September 29, 2026. All submitted comments will be provided to the Committee, may be read into the record, and will be compiled as part of the public record.



In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Program Administrator at (831) 645-4635 or by email at MontereySEA@my1water.org. Notification 30 hours prior to the meeting will enable the Committee to make reasonable arrangements to ensure accessibility to this meeting. Later requests will be accommodated to the extent feasible.

Officers: Chairperson: Kevin Anderson, City of Monterey
Vice-Chairperson: Patrick Grogan, City of Seaside

Participating Entities:
City of Carmel-by-the-Sea
City of Del Rey Oaks
City of Monterey
City of Pacific Grove
City of Sand City
City of Seaside
County of Monterey

Coordinating Entities: Pebble Beach Company

AGENDA ITEMS — Page #

1. Call to Order / Roll Call — N/A
2. Public Comments — N/A
3. Approve Management Committee (MC) Meeting Minutes for 08/26/26 (Attachment 1) — 03

INFORMATION AND DISCUSSION ITEMS		Page #
4. Monthly PE/PO Report	(Attachment 2)	07
5. 2026 Committee Meeting Calendar	(Attachment 3)	15
6. CASQA Annual Conference Agenda	(Attachment 4)	16
7. FY 25-26 Program Evaluations		N/A
ACTION ITEMS		
8. Consider Acceptance of Updated PE/PO PEAIP Narrative	(Attachment 5)	24
ADMINISTRATIVE REPORTS		
9. Program Administrator Update		
a. CASQA Meetings Summary		N/A
b. MS4 Phase II Draft Permit MC Comment Letter	(Attachment 6)	27
c. September 3 WQPP Presentation	(Attachment 7)	29
10. Management Committee Member Updates		N/A
a. City of Carmel-by-the-Sea		
b. City of Del Rey Oaks		
c. City of Monterey		
d. City of Pacific Grove		
e. City of Sand City		
f. City of Seaside		
g. County of Monterey		
SCHEDULE NEXT MEETING / ADJOURNMENT		N/A

11. Schedule Next Meeting:

    The next MC Meeting is scheduled for Wednesday, November 4, 2026, at 9:30 a.m.

12. Meeting Adjournment

Attachment 1

MONTEREY SEA
Stormwater Education Alliance
Carmel-by-the-Sea • County of Monterey • Del Rey Oaks
Monterey • Pacific Grove • Sand City • Seaside

Monterey Regional Stormwater Management Program
Management Committee

MEETING MINUTES for August 26, 2026

AGENDA ITEMS

1. **Call to Order / Roll Call**
   Chairperson Anderson (*City of Monterey*) called the meeting to order at 9:30 a.m. and performed the roll call.

Management Committee Members:
City of Carmel-by-the-Sea – Mary Bilse
City of Del Rey Oaks – Absent
City of Monterey – Kevin Anderson
City of Pacific Grove – George Fuerst
City of Sand City – Leon Gomez
(Arrived at 9:33 am)
City of Seaside – Patrick Grogan
County of Monterey – Katie Datan

Other In Person:
Rebecca Baggott (City of Monterey)

Program Administrator:
Erica Parker (Monterey One Water, M1W)
Michelle Bumgardner (M1W)

Other Virtual:
Ryan Blanc (Caltrans)
Samantha Cho (CSG Consultants)
Gonzalo Coronado (County of Monterey)
Valerie Gaino (City of Carmel)
Dale Hillard (City of Salinas)
Debra Kelley (Endgame Messaging Hub)
Karl Kreutzer (City of Monterey)
Tara Leonard (County of Santa Cruz)
Elaine Narciso (County of Monterey)
Karina Rodriguez (County of Monterey)

2. **Public Comments**

   Chairperson Anderson called for public comment, none received.

3. **Approve Management Committee Meeting Minutes for 07/22/26**

   ***Action*:** On a motion by Grogan *(City of Seaside)*, seconded by Fuerst *(City of Pacific Grove)*, the Management Committee (MC) approved the MC Meeting Minutes for 07/22/26. Anderson called for public comment before the vote; none received.
   Ayes: Anderson, Bilse, Datan, Fuerst, Grogan
   Noes: None
   Absent: Fucci, Gomez

INFORMATION AND DISCUSSION ITEMS

4. **PE/PO Program Monthly Report**

   Bumgardner *(M1W)* reported on public outreach and education activities for the month of July, including summer camp presentations to 10-15 students. The YMCA summer camp for Tularcitos was one of the most interactive groups of students – highly engaged and excited for hands-on activities. More storm drain emblems will be ordered based on the MC's direction: stainless steel with blue background and bilingual inscription.

DRAFT

- Follow-up action: Support staff will confirm ADA compliance of the emblem height for placement on sidewalks.

A stormwater infrastructure tour social media campaign will accompany the upcoming Storm Water Awareness Week (SWAW). September will include tabling at two public events and the Monterey Bay Aquarium Educator Open House. Based on conversations with teachers during the previous permit year, the Monterey County Office of Education's annual Teacher Extravaganza resource fair was not well known, prompting the shift to the Aquarium's event.

Outreach materials updates continue, with grease trap and pool maintenance flyers in development. MC Members expressed interest in materials focused on mobile auto detailing, car washing, and pressure washing.

Bumgardner shared statistics on social media posts that demonstrate impact of sharing other entities content; First Flush volunteer recruitment content was a collaborative post and saw the largest engagement. Trash prevention content aimed at tourists and residents also garnered decent engagement numbers.

School presentations are starting up again with the beginning of the academic year. Bumgardner asked MC Members for assistance connecting with educators in Monterey schools as this remains the most challenging jurisdiction to contact for presentation scheduling.

- Follow-up action: Bumgardner will provide a list of schools located in Monterey to the MC.

5. Cigarette Filter Ban Efforts

Tara Leonard, Senior Health Educator and Project Director for Tobacco Education and Prevention, Public Health Division of the Santa Cruz County Health Services Agency, gave a presentation titled "Tobacco Product Waste: A Public Policy Roadmap." Leonard explained the toxic substances found in cigarette butts, including plastic microfibers, and the dangerous impacts of this pervasive environmental contaminant on humans and the environment. She explained local efforts to ban filtered cigarette products; municipal cleanup efforts are costly and unable to keep up with the waste accumulation. Source reduction strategies offer an alternative method to address tobacco waste in the environment instead of relying on individual behavior change. The cross-jurisdictional collaboration between the four cities in Santa Cruz County and the County is advancing awareness of the threat of tobacco waste, and jurisdictions are moving forward with commercial sale bans.

6. MS4 Phase II Draft Permit MC Comment Letter

Parker *(M1W)* reviewed the resources provided in the item memo, and Anderson described the work undertaken by the Permit Ad Hoc Committee to evaluate the Phase II Small Municipal Separate Storm Sewer System (MS4) draft permit and identify areas of concern to be included in a formal public comment letter from the MC. Members discussed water quality monitoring program requirements and the impact of new draft permit language on ongoing monitoring needs.

- Follow-up action: Parker will work with the Permit Ad Hoc Committee to finalize the MC's formal public comment letter and submit it by the deadline.

7. 2026 Committee Meeting Calendar

Bumgardner shared updates from the Training Ad Hoc Committee: planning for September's SWAW hybrid BMP training is progressing and is titled "Stake, Wattle, and Roles! Practical BMPs To Keep Your Construction Site Running". She requested guidance from the MC about training topics for the fourth quarter of the calendar year. Integrated pest management will be a topic for early 2027.

- Follow-up action: Bumgardner will continue to work with MC Members to develop training topics for upcoming sessions offered by MRSWMP.

Parker mentioned that the virtual training for Dry Run/First Flush (DR/FF) monitoring events is this week and Dry Run sampling this Saturday. Katie Siegler with the California Marine Sanctuary Foundation (CMSF) provided a draft report for the 2025 DR/FF sampling events and requested feedback from Parker.

- Follow-up action: Parker will review the DR/FF draft report and provide edits to CMSF.

ACTION ITEMS

8. Consider Rescheduling the October MRSWMP MC Meeting

Parker stated that the regularly scheduled October 28 MC meeting conflicts with the final day of CASQA's annual conference that support staff will attend. Staff suggested moving the meeting date to November 4, 2026.

***Action*:** On a motion by Anderson, seconded by Bilse *(City of Carmel-by-the-Sea)*, the Management Committee (MC) voted to reschedule the 10/28/26 meeting to 11/04/26 at 9:30 a.m. Anderson called for public comment before the vote; none received.

Ayes: Anderson, Bilse, Datan, Fuerst, Gomez, Grogan
Noes: None
Absent: Fucci

ADMINISTRATIVE REPORTS

9. Program Administrator Update

a. CASQA Meetings Summary

Parker shared that CASQA submitted public comment on the Proposition 4 draft guidelines, including prioritization for projects partnering with the California Conservation Corps. Cost reporting 13383 letters are waiting for Chief Counsel approval, and no reporting tool has been published yet. The State Water Quality Control Plans and Policies are being updated and may offer a route to adjust the trash capture requirements deadlines. Copper and zinc water quality objectives are in development for a statewide standard.

b. California Legislative Session Briefing

Parker updated the MC on progress of bills of interest moving through the legislative process. AB 2322 (Papan, statewide Commercial Industrial Institutional Permit) is eligible for a vote on the Senate Floor and, if approved, would go to the Governor for action. SB 601 (Allen, Waters of the United States) failed to move out of the Assembly Appropriations Committee and will not progress any further this session. There is a potential for the Governor to call a Special Legislative Session for a specific topic before the end of the calendar year. Otherwise, bills that have not been approved will not continue through the process, as the legislative session is in the second year of the two-year session.

10. Management Committee Member Updates

a. City of Carmel-by-the-Sea: Bilse reported that the City has a new Public Works Director coming on board, and they have seen some illicit discharges linked to grease interceptor issues. 2NDNATURE completed their trash reassessment, and there was very little waste observed.

b. City of Del Rey Oaks: No report.

c. City of Monterey: Anderson stated that a coastal development waiver was secured from the California Coastal Commission for the North Fremont storm drain replacement project. The Via Esperanza channel repair project finally is moving forward, and priority catch basin maintenance is underway. A permit application for Lake El Estero aquatic vegetation removal has been submitted to the California Department of Fish and Wildlife.

d. City of Pacific Grove: Fuerst shared a new City Engineer/Capital Improvement Program Coordinator is joining the City this month. He was notified that the Central Coast Regional Waterboard will be auditing the City's stormwater program. There was an illicit discharge equivalent where vegetative management goats escaped and contaminated a residential block with droppings; the street sweeper was dispatched to clean it up.

e. City of Sand City: Gomez reported that work on code enforcement alignment with stormwater policies continues. The West End Celebration was a well-attended event.

f. City of Seaside: Grogan shared that they are doing infiltration testing this week.

g. County of Monterey: No report.

SCHEDULE NEXT MEETING / ADJOURNMENT

11. Schedule Next Meeting

The next MC Meeting is scheduled for Wednesday, September 30, 2026, at 9:30 a.m.

12. Meeting Adjournment

The meeting was adjourned at 11:18 a.m.

DRAFT



Monterey SEA Monthly Report
September 2026

This report provides an overview of the activities and impacts for the month of August

ENVIRONMENTAL INNOVATIONS

September 2026 Report

ENVIRONMENTAL INNOVATIONS

Monthly Highlights (August)

★ Start of classroom lessons

★ Event preparations

★ Monterey Bay Environmental Educators contacts



Storm drain class trip

Progress on Classroom Metrics and Goals

- Elkhorn Elementary responses
- Teacher outreach continues
- Registered for student and teacher events:
  - International School of Monterey Community Partner Expo
  - Monterey Bay Aquarium Educator Open House



Elkhorn Elementary 6th Grade Class

September 2026 Report

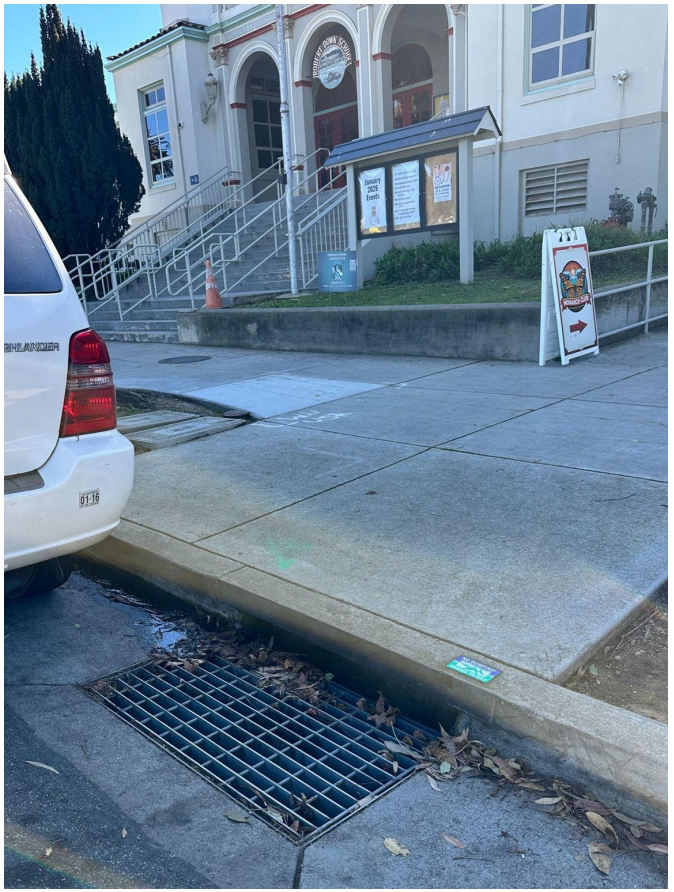
ENVIRONMENTAL INNOVATIONS

Progress on Community Outreach Metrics and Goals

No Community Events in August

Upcoming:

- Emblem labeling
  - School volunteer events
  - Public event
- Community Events
  - Stormwater Awareness Week Tour
  - Oaxaca by the Sea
  - Monterey Ocean Arts Festival - **moved to March**



Robert Down ES

September 2026 Report

ENVIRONMENTAL INNOVATIONS

Outreach Material Updates

Complete

Top Ten Pollution Prevention Tips

Pest Control(English)

Pest Control (Spanish)

Commercial Auto Maintenance

Home Auto Maintenance

Classroom Survey K-3

Classroom Survey 4-8

Classroom Survey 9-12

11X17 Construction BMPs

Construction BMPs

Painting & Application of Solvents & Adhesives

Fresh Concrete and Mortar Application

In Development

Grease Traps / Restaurant

Pool Maintenance

Car washing / Power washing

Trash 101

Progress on Digital & Creative Metrics

Performance analysis for August social media campaigns

Month	Topic	Date Posted	Boosted?	Facebook Views	Facebook Engagements	Instagram Views	Instagram Engagements
August	First Flush Reminder	8/3/2026		41	0	106	7
	IPM Workshop	8/7/2026		32	0	-	-
	Back to School - What schools can do	8/25/2026		22	1	102	10







ENVIRONMENTAL INNOVATIONS

Key Highlights

1. Stormwater Awareness Week social media plan
2. Increase in school and environmental educator connections
3. Ramping up community events, volunteer outreach

ENVIRONMENTAL INNOVATIONS

Upcoming Events and Activities

1. New Project Tracker
2. Ongoing direct school outreach
3. September events
    a. Stormwater Awareness Week
    b. MBA Educator Open House
    c. Oaxaca by the Sea
    d. ISM Community Partner Expo

Attachment 3

MONTEREY SEA
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FY 2026-2027 Calendar

Management Committee Meetings

Committee Meeting Date (4th Wed @ 09:30)	Staff Review Agenda w/Chair and Vice Chair	Agenda Packet Publish Date
2026*		
January 28, 2026	January 7, 2026	January 23, 2026
Election of Chair and Vice Chair		
February 25, 2026	February 11, 2026	February 20, 2026
Begin budget analysis for FY 26-27		
March 25, 2026	March 11, 2026	March 20, 2026
Draft budget consideration by committee		
April 22, 2026	April 8, 2026	April 17, 2026
Target budget approval by committee		
May 27, 2026	May 13, 2026	May 22, 2026
Deadline to submit MRSWMP budget to M1W		
June 24, 2026	June 10, 2026	June 19, 2026
July 22, 2026	July 8, 2026	July 17, 2026
August 26, 2026	August 12, 2026	August 21, 2026
September 30, 2026	September 9, 2026	September 18, 2026
November 4, 2026	October 14, 2026	October 23, 2026
~~**November 26, 2026**~~		**November 20, 2026**
CANCELLED		**Send cancellation**
December 9, 2026	November 18, 2026	December 4, 2026

***NOTES:**
2026 Staff Review dates with Chair and Vice Chair are estimates
TBD by MC leadership

Member Training Schedule

		Date	Trainer
2026			
Quarter 1		March 26, 2026	Shari Carlet (Carmel), Chago Ramirez (Graniterock)
	Topic	O&M for Permeable Pavers	
Quarter 2		June 11, 2026	Valerie Huff
	Topic	Post-Construction SW Guidebook Webinar	
		June 1, 2026	Environmental Innovations
	Topic	Integrated Pest Management	
Quarter 3		September 23, 2026	Verux
	Topic	Construction Site BMPs	
Quarter 4			
	Topic		
2027			
Quarter 1			
	Topic		
Quarter 2			
	Topic		

Other Important Dates

August 1, 2026	Begin volunteer recruitment for First Flush
August 15, 2026	Dry Run/First Flush Annual Report complete
September 15, 2026	Annual Report resources provided by staff
Sept 21-25, 2026	Storm Water Awareness Week
October 15, 2026	Annual Reports due
Oct 26-28, 2026	CASQA annual conference

Attachment 4

Agenda

CASQA proudly upholds our Core Values of Excellence, Leadership, Inclusivity, Respect, Collaboration, Integrity, Service, and Stewardship. We invite all conference attendees to actively contribute to creating a welcoming, friendly, safe, and supportive environment.

Locations are in the SAFE Credit Union Convention Center unless stated as Offsite.

SUN OCT 25

4:00p - 6:00p	CONFERENCE SERVICES	**LOCATION:** LOBBY Beat the Monday morning rush by checking in at the CASQA Registration Desk on Sunday.
4:00p - 6:00p	WELCOME HAPPY HOUR	**LOCATION:** LOBBY Greet fellow early arrivals before heading out to dinner (cash bar).

MON OCT 26

7:30a - 8:30a	COFFEE	**LOCATION:** LOBBY
7:30a - 5:30p	CONFERENCE SERVICES	**LOCATION:** LOBBY CASQA Conference Services and Registration Desk
8:30a - 10:30a	PLENARY SESSION	**LOCATION:** BALLROOM A1
10:30a - 11:00a	BREAK	**LOCATION:** LOBBY
11:00a - 4:00p	FIELD TOUR	**FIELD TOUR:** OFFSITE - Matsui Waterfront Park (Lunch Location) and Yolo County Landfill Composting Facility Tour LIMITED TO ATTENDEES WITH A PRE-PAID TICKET (LUNCH INCLUDED); TICKETS ARE NOT AVAILABLE ONSITE. Bus pick-up/drop-off: SAFE Credit Union Convention Center

WELCOME AND OPENING REMARKS
Amanda Carr
Chair, CASQA Board of Directors
Karen Cowan
Executive Director, CASQA

CASQA AWARDS
BOARD OF DIRECTORS AND EXECUTIVE PROGRAM COMMITTEE RECOGNITION
OUTSTANDING SERVICE & PARTNERSHIP
IMPACT AWARD
EXHIBITOR RECOGNITION
OUTSTANDING STORMWATER PROGRAMS AND PROJECTS
STORMWATER SCHOLARS

KEYNOTE
Rob Bilott
Partner, Taft Law Firm





Photographer Michael Pegram.

MON OCT 26 CONTINUED

SESSION 1	TRACK: Stormwater Capture and One Water Collaborations	TRACK: BMP Effectiveness Assessment	TRACK: Wildfire Preparation and Management	TRACK: Modeling, Data Tools, and Artificial Intelligence	TRACK: Monitoring and Scientific Studies	TRACK: Construction General Permit	TRACK: Policy, Permitting, and Legislation
ROOM	BALLROOM A2+A3	BALLROOM A4-A6	BALLROOM A7	BALLROOM A8+A9	BALLROOM A10+11	MEETING ROOM 1	MEETING ROOM 2+3
MODERATOR	Brian Rowley Caltrans/ReScape	Keith Schwanemann City of San Luis Obispo	Dakota Keene Sacramento State Office of Water Programs	Andrea Crumpacker Stantec	Darcy McCargar Larry Walker Associates	Melanie Sotelo Casc Engineering	Megan Chery Environmental Incentives
11:00a - 11:25a	**PANEL** *Breaking Down Barriers to Water Quality Compliance Crediting - How Agencies Can Leverage and Support CBO Partners* Amanda Booth City of San Pablo Daniel Barth SOS Richmond Reid Bogert City/County Association of Governments of San Mateo County Kae Jensen Climate Resilient Communities	*Long-Term Performance of Permeable Interlocking Pavers: A 10-15 Year Update from the City of Santa Barbara* Timothy Burgess City of Santa Barbara	*Emergency SWPPP Development and BMP Inspection for Large-Scale Post-Wildfire Debris Removal in Los Angeles County* Yair Pilowsky Haley & Aldrich	*Opportunities and Challenges of Using Machine Learning Models for Streamflow Prediction Across Diverse California Watersheds* Benjamin Bowes Ulteig	*A New Approach for Bacterial Data Assessments in Newport Bay* James Fortuna County of Orange	*Beyond the Checklist: CGP Inspections 101* Emma Isaacson Michael Baker International	**PANEL** *Who Will Shape California's Urban Landscape Transformation? Aligning Stormwater, Water Efficiency, and Organics in a Policy-Driven Decade* Grant Sharp Orange County Public Works Scott Norris County of San Diego Charlotte Ely State Water Resources Control Board Amanda Magee State Water Resources Control Board
11:30a - 11:55a		*Designing BMPs for Long Term Success* Patrick Dean Oldcastle Infrastructure	*Soil Pollution After the 2025 Wildfires and the Potential of Green Infrastructures Treat Runoff From Fire-affected Soils* Sanjay Mohanty University of California, Los Angeles	*Using Real and Artificial Intelligence for Hydrodynamic Separator (HDS) Design* Greg Williams StormTrap	*Characterizing Beach Water Quality Using Norovirus: Methods to Achieve a Risk-Relevant Detection Limit* Raul Gonzalez H2O Molecular	*The Hidden Cost of Manual Risk Calculations: Standardizing CGP Compliance Across Project Portfolios* Daniel Patrick Moss and Spark LLC	

11:55a - 1:30p	LUNCH	**LOCATION:** BALLROOM A1
11:55a - 6:00p	EXHIBIT HALL OPEN	**LOCATION:** EXHIBIT HALL A
11:55a - 6:00p	POSTER SESSION	**LOCATION:** EXHIBIT HALL A

SESSION 2	TRACK: Stormwater Capture and One Water Collaborations	TRACK: BMP Effectiveness Assessment	TRACK: Wildfire Preparation and Management	TRACK: Modeling, Data Tools, and Artificial Intelligence	TRACK: Monitoring and Scientific Studies	TRACK: Construction General Permit	TRACK: Policy, Permitting, and Legislation
ROOM	BALLROOM A2+A3	BALLROOM A4-A6	BALLROOM A7	BALLROOM A8+A9	BALLROOM A10+11	MEETING ROOM 1	MEETING ROOM 2+3
MODERATOR	Vaikko Allen Contech Engineered Solutions	Dylan Ahearn Herrera Environmental Consultants	Kadi Whiteside Southern California Edison	Christian Carleton Sacramento State Office of Water Programs	Michelle Mattson NV5	Andrew Sidor Michael Baker International	Brian Currier Sacramento State Office of Water Programs
1:30p - 1:55p	*Adaptive Watershed Planning for the Safe, Clean Water Program* Justin Jones Los Angeles County Public Works	*Large Scale Restoration and its Role in the Reduction of Pathogens and Sediment* Aaron Nunez City of Santa Rosa	*Adaptive Planning for Post-Fire Dynamics in the Los Angeles River Watershed* Randy Wade Craftwater	*Automating Stormwater Compliance: Leveraging AI-Driven Systems to Optimize Workflows* Becky Chen Michael Baker International	*Region-wide Assessment of Sediment Quality in Southern California Embayments* Alvina Mehinto Southern California Coastal Water Research Project	**TRAINING WORKSHOP** *CGP Basics Workshop: A Practical Guide to Creating a SWPPP to Protect Water Quality (2 hour session)* Sandy Mathews Larry Walker Associates Melanie Sotelo Casc Engineering Ken Kristofferson CAL-Storm Compliance Alicia Brenner BTConsulting, Inc.	*CASQA at Work for You: Shaping the Future of Stormwater* Karen Cowan CASQA
2:00p - 2:25p	*Integrated Water Planning: Stormwater is a Resource, and Stormwater Management is an Investment* Mike Antos Stantec	*Clean Streets, Clean Seas: Interception of Microplastics by Public Works Practices* Jill Murray City of Santa Barbara	*Beyond Restoration: Integrating Stormwater Systems into Post-Wildfire Infrastructure Recovery Planning* Tom West Ulteig	*AI in Stormwater: Episode Two — From Prompting to Production (Three Years Later: What Has Changed, What Actually Works, and What Comes Next)* Stella Shao AtkinsRealis	*The San Diego Regional Harbor Monitoring Program – 2023 Summary, Trends, and Potential Impacts from Tropical Storm Hilary* Chris Stransky GEI Consultants, Inc.		*STORMS Urban and Industrial Stormwater Infiltration Policy* Kelly Rodman State Water Resources Control Board

MON OCT 26 CONTINUED

SESSION 3	TRACK: Stormwater Capture and One Water Collaborations	TRACK: BMP Effectiveness Assessment	TRACK: Municipal Programs	TRACK: Modeling, Data Tools, and Artificial Intelligence	TRACK: Monitoring and Scientific Studies	TRACK: Construction General Permit	TRACK: Policy, Permitting, and Legislation
ROOM	BALLROOM A2+A3	BALLROOM A4-A6	BALLROOM A7	BALLROOM A8+A9	BALLROOM A10+11	MEETING ROOM 1	MEETING ROOM 2+3
MODERATOR	Brenda Ponton Woodard & Curran	Esther Lofton UCCE	Rob Carson Marin Countywide Stormwater Program	Gurjot Kohli Stantec	Bonnie de Berry EOA, Inc.	Andrew Sidor Michael Baker International	Lisa Moretti City of Sacramento
2:35p - 3:00p	*Potential and Actual California Stormwater Capture Volumes* Kelly Rodman State Water Resources Control Board	*No Surprises in Full Trash Capture: Applying ASTM E3332 for California FTC Verification* Michael Hannah Enviropod, Inc.	*Time Well Spent: Santa Clarita's Journey to a Fully Utilized Stormwater Information Management System* Haley Lawton City of Santa Clarita	*Lights! Camera! Actionable Data! Computer Vision for Storm Pipe Condition Assessment* Carolyn Macek RESPEC	*Region-wide Extent, Magnitude, and Long-term Trends of Trash in Southern California Watersheds* Leah Thornton Hampton Southern California Coastal Water Research Project	**TRAINING WORKSHOP** continued	*Beyond Compliance: A Case Study on the Financial and Social Impacts of Wet Weather Bacteria Objectives* Taraneh Nik-Khah City of Los Angeles
3:05p - 3:30p	*One Region, One Water - One Year Later: Results and Scaling Lessons from Orange County's RainSmart Partnership* Michael Mori Orange County Public Works	*Multi-Pollutant Catch Basin Inserts in Retrofit Applications* Cherise Thompson PACE	*Leveling Up Stormwater Asset Management: A Risk-Based Strategy* Colleen Hunt Stone Creek Environmental Consulting	*From Inspection to Action: An Integrated Framework for Real-Time Storm Drain Condition Assessment* Ellaine Esteller City of Encinitas	*Measuring Impact: Monitoring to Evaluate Equitable Stormwater Solutions in the San Diego Bay Watershed* Bri Martin NV5		*Update on the Copper and Zinc Proposed Policy* Chris Beegan State Water Resources Control Board

3:30p - 4:00p **BREAK AND EXHIBITOR FOCUS** — **LOCATION:** EXHIBIT HALL A

SESSION 4	TRACK: Stormwater Capture and One Water Collaborations	TRACK: BMP Effectiveness Assessment	TRACK: Municipal Programs	TRACK: Modeling, Data Tools, and Artificial Intelligence	TRACK: Monitoring and Scientific Studies	TRACK: Construction General Permit	TRACK: Policy, Permitting, and Legislation
ROOM	BALLROOM A2+A3	BALLROOM A4-A6	BALLROOM A7	BALLROOM A8+A9	BALLROOM A10+11	MEETING ROOM 1	MEETING ROOM 2+3
MODERATOR	Paul Caswell Hazen and Sawyer	Laney Nelson Opti	Roshan Christoph MOE	Erfan Goharian RESPEC	Ken Schiff Southern California Coastal Water Research Project	Brian Free Applied Polymer Systems	Tamarin Austin Austin Clean Water Advisors, Inc.
4:00p - 4:25p	*Advancing Stormwater Management Through Public-Private Partnerships and Sewer Diversion Strategies* Cherise Thompson PACE	*Selection, Design, and Implementation of Stormwater Filtration Media* Craig Fairbaugh Contech Engineered Solutions	*Private Land, Public Impact: Implementing a PLDA Inspection Program for Trash Load Reduction* Kerry Parker City of San Leandro	*From Documents to Decisions: Using Retrieval-Augmented Generation (RAG) to Support Bacteria and Nutrient Management in Stormwater Programs* Gaurav Rajen Santa Ana Regional Water Quality Control Board	*When Timing Matters - Comparing Instantaneous and Continuous Flow Measurements* Nicholas Poser NV5	**TRAINING WORKSHOP** *Passive Treatment in Practice: Navigating Regulatory Interaction, Cost, and Implementation* Kyla Wood Applied Polymer Systems	**PANEL** *From Compliance to Resilience: Progress, Challenges, and the Future of the Bay Area Municipal Regional Stormwater Permit (MRP)* Reid Bogert City/County Association of Governments of San Mateo County Jill Bicknell EOA, Inc. Terri Fashing Watershed and Stormwater Division, City of Oakland Public Works Keith Lichten San Francisco Bay Regional Water Quality Control Board
4:30p - 4:55p	*The LCC Watershed That Can: Advancing Multi-Benefit Stormwater Capture Through Regional Collaboration* Richard Watson Richard Watson & Associates	*Quantifying BMP Infiltration Dynamics Using 4D ERT, NMR, and Model-Data Feedback Loops* Craig Ulrich Lawrence Berkeley National Laboratory	*Building a Better Business Stormwater Inspection Program in Oakland* Mike Perlmutter City of Oakland	*Configuration over Calibration: Insights from Modeling Hydrology Across 25 Watersheds in California* John Riverson Ulteig	*After Walking 5,000 Miles, It's Time For Reflection - Results from a New OVTA Study that Informs Track 2 Trash Control Programs* Chris Sommers EOA, Inc.		

4:55p - 6:00p **EXHIBITOR FOCUS** — **LOCATION:** EXHIBIT HALL A

6:00p - 9:00p **NETWORKING EVENT**

OFFSITE LOCATION: CAFETERIA 15L (1116 15TH ST, SACRAMENTO, CA 95814) - 5-minute walk from the convention center

Socialize after hours, enjoy food and entertainment, and continue the stormwater discussion (dinner; cash bar).

One ticket is included with a Full Conference Pass. Tickets are not available onsite.

TUE OCT 27

7:30a - 8:30a	COFFEE	**LOCATION:** LOBBY
7:30a - 5:30p	CONFERENCE SERVICES	**LOCATION:** LOBBY CASQA Conference Services and Registration Desk
8:00a - 6:00p	EXHIBIT HALL OPEN	**LOCATION:** EXHIBIT HALL A
8:00a - 6:00p	POSTER SESSION	**LOCATION:** EXHIBIT HALL A

SESSION 5	**TRACK: Stormwater Capture and One Water Collaborations**	**TRACK: BMP Effectiveness Assessment**	**TRACK: Municipal Programs**	**TRACK: Modeling, Data Tools, and Artificial Intelligence**	**TRACK: Monitoring and Scientific Studies**	**TRACK: Construction General Permit**	**TRACK: Policy, Permitting, and Legislation**
ROOM	BALLROOM A2+A3	BALLROOM A4-A6	BALLROOM A7	BALLROOM A8+A9	BALLROOM A10+11	MEETING ROOM 1	MEETING ROOM 2+3
MODERATOR	Ghina Yamout CDM Smith	Mary Vondrak Olaunu	Christine Tolchin County of San Diego	David Alderete Sacramento State Office of Water Programs	Nicholas Poser NV5	Ryan Charney CDIM Engineering	Ryan Kearns Riverside County Flood Control & Water Conservation District
8:30a - 8:55a	*One Water, One Environment: Community-Led Stewardship of Stormwater and Natural Resources Management at Elephant Hill* Elva Yanez Save Elephant Hill	*Distribution of PFAS in Stormwater and the Effectiveness of Current Stormwater Treatment Technologies* Sanjay Mohanty University of California, Los Angeles	*Chasing the Source: How Investigative Science Reshaped a Bacteria TMDL Compliance Strategy for the San Diego River Watershed* Ruth de la Rosa County of San Diego	*Leveraging Digital Tools to Increase Mapping Accuracy, Decrease Illicit Stormwater Discharges, and Improve Water Quality* Katherine Zodrow ECO	*Do Bioretention Systems Deliver? Monitoring Methods & Results from the San Francisco Bay Area* Elias Kauders EOA, Inc.	*Use of Vegetated Swales and Compost Socks for pH Control, a Practical Example* Robin Tully Tully Consulting Group, An Apex Company	*Understanding the Proposed Commercial, Industrial, and Institutional (CII) NPDES Permit: A Watershed Management Perspective* Paul Caswell Hazen and Sawyer
9:00a - 9:25a	*Santa Barbara County Flood Control Basin Enhancement Study: Collaborative Approach to Stormwater Management and Groundwater Recharge* Avery Blackwell Geosyntec Consultants	*Rechargeable Stormwater Biofilters: Improving PFAS Removal with In Situ Polymer Modification* Sanjay Mohanty University of California, Los Angeles	*Revitalized Post Construction Inspection Program and Lessons Learned* Haley Losberger County of Sacramento	*An Interactive Mapping Tool to Support Cross-Sector Collaboration and Cost Sharing in the Calleguas Creek Watershed* Darcy McCargar Larry Walker Associates	*Optimizing the Los Peñasquitos Sediment TMDL Monitoring Program to Reduce Cost and Ensure Sampling Success* Todd Palmer WSP	*Making the 2022 Construction General Permit Work in the Field: Lessons from BMP Implementations at Scale* Justin Quiggle Trihydro Corporation	*Permitting Challenges for Integrated Stormwater Projects: Lessons Learned from Recent Projects and the Implications of SB 31* Ron Rovansek PACE Advanced Water Engineering

SESSION 6	**TRACK: Stormwater Capture and One Water Collaborations**	**TRACK: BMP Effectiveness Assessment**	**TRACK: Municipal Programs**	**TRACK: Modeling, Data Tools, and Artificial Intelligence**	**TRACK: Monitoring and Scientific Studies**	**TRACK: Construction General Permit**	**TRACK: Policy, Permitting, and Legislation**
ROOM	BALLROOM A2+A3	BALLROOM A4-A6	BALLROOM A7	BALLROOM A8+A9	BALLROOM A10+11	MEETING ROOM 1	MEETING ROOM 2+3
MODERATOR	Maureen Kerner-Long Sacramento State Office of Water Programs	Gwen Erickson Caltrans	Kristina Hysler Onterris	Abigail Suter Riverside County Flood Control & Water Conservation District	Adriana Stovall Rincon Consultants	Andrew Sidor Michael Baker International	Robert Kent State Water Resources Control Board
9:35a - 10:00a	*Designing with the Community: Lessons from a Multi-Benefit Stormwater Park Project in Inglewood* Brenda Ponton Woodard & Curran	*Two Public Tools for California BMP Performance Assessment from the Stormwater Monitoring Coalition* Elizabeth Fassman-Beck Southern California Coastal Water Research Project	*ESRI Survey123: Streamline Inspections and Increase Effectiveness Across MS4 Programs* Lauren Ledesma City of Sacramento	*Smart Stormwater: IoT Sensor Networks for Defensible Trash Capture Compliance, GPT Optimization, and Flood Awareness* Michael Hannah Enviropod, Inc.	*Beyond Trash Capture: Adaptive Monitoring and Multi-Pollutant Source Control* Brian Deurloo Frog Creek Partners, LLC	**PANEL** *CGP: Ask the Regulator* Brandon Roosenboom State Water Resources Control Board Matthew Shimizu State Water Resources Control Board	**PANEL** *Schools as Sites for Regional Stormwater Projects: What Could Make Them Work?* Shannon Spurlock Pacific Institute Dustin Herrmann TreePeople Sarah Minick San Francisco Public Utilities Commission Rob Teresi Elk Grove Unified School District
10:05a - 10:30a	*GSI Beyond Code Partnerships* Colleen Mitchell Herrera Environmental Consultants	*Evaluating Nanobubble Oxygenation as a BMP Tool for Improving Dissolved Oxygen in a Eutrophic Southern California Lake* Chris Stransky GEI Consultants, Inc.	*From Fragmented to Functional: Solving Post Construction Requirements* Colleen Hunt Stone Creek Environmental Consulting	*Transforming Trash: How GIS-Powered Insights Drive Caltrans Environmental Compliance* Aloysius Pelly Caltrans	*Street Sweeping's Role in Achieving Full Capture System Equivalency Targets in California - Development of Local Metrics in the City of Stockton* Caleb Klotzle Larry Walker Associates		

TUE OCT 27 CONTINUED

10:30a - 11:00a **BREAK AND EXHIBITOR FOCUS** LOCATION: EXHIBIT HALL A

SESSION 7	TRACK: Stormwater Capture and One Water Collaborations	TRACK: BMP Effectiveness Assessment	TRACK: Municipal Programs	"TRACK: Modeling, Data Tools, and Artificial Intelligence	TRACK: Industrial General Permit	TRACK: Pollutants of Concern and True Source Control	TRACK: Green Infrastructure and Nature-Based Solutions Design and Maintenance
ROOM	BALLROOM A2+A3	BALLROOM A4-A6	BALLROOM A7	BALLROOM A8+A9	BALLROOM A10+11	MEETING ROOM 1	MEETING ROOM 2+3
MODERATOR	Dave Smith Water Innovation Services	Robin Tully Tully Consulting Group, An Apex Company	Patrick Kuga Michael Baker International	Jian Peng AtkinsRealis	Mehran Ebrahimi GSI Environmental, Inc.	Tammy Cohen Haley & Aldrich	Shavger Rekani RICK Engineering
11:00a - 11:25a	**PANEL** *New Tools to Advance Stormwater Capture Implementation: Practical Advice from a National Study of Opportunities and Support Needs* Shannon Spurlock Pacific Institute	*From Maybe to Must-Have: BMP Design Innovations* Steve Bell CWE, An Apex Company	*Breaking Silos: Integrating Stormwater Compliance into Capital Projects Through Safe, Clean Water Program Funding* Anthony Ortega City of Pomona	**PANEL** *Data, AI, and the Next Generation of Stormwater Management* Lisa Haney Orange County Water District Chris Tull California Data Collaborative Joseph Draper CASQA Roohi Toosi APEX EWR	**PANEL** *Ready or Not, the Commercial, Industrial, & Institutional Permit is Almost Here! What to Expect with the Upcoming CII Permit* Richard Watson Richard Watson & Associates, Inc. Taraneh Nik-Khah City of Los Angeles Andrew Choi LA Regional Water Quality Control Board Shanda Beltran Attorney	*Not Just the Big Roads - 6PPDQ Detected Across Roadway Types in Stormwater Runoff* Timothy Clark Herrera Environmental Consultants	*O&M Manuals that Work for Green Stormwater Infrastructure Projects* Stephanie Gaines County of San Diego
11:30a - 11:55a	Amanda Magee California State Water Resources Control Board Thuan Nguyen Los Angeles County Public Works	*Quantifying Infiltration Capacity of High-Rate Biofiltration Systems* Vaikko Allen Contech Engineered Solutions	*Shaping the Inevitable: How Counties Are Turning Private Turf Conversion into a Stormwater Compliance Strategy* Scott Norris County of San Diego			*The Effects of Land Use, Traffic Density, and Street Sweeping Frequency on 6PPD-Quinone Concentrations in Road Runoff* Alexander Schriewer NV5	*GSI Vegetation Guide - Cost-Effective Maintenance Practices for Common GSI Plants* Peter Schultze-Allen EOA, Inc.

11:55a - 1:30p **LUNCH** LOCATION: BALLROOM A1

SESSION 8	TRACK: Stormwater Capture and One Water Collaborations	TRACK: Policy, Permitting, and Legislation	TRACK: Outreach, Engagement, and Education	TRACK: Modeling, Data Tools, and Artificial Intelligence	TRACK: Industrial General Permit	TRACK: Pollutants of Concern and True Source Control	TRACK: Green Infrastructure and Nature-Based Solutions Design and Maintenance"
ROOM	BALLROOM A2+A3	BALLROOM A4-A6	BALLROOM A7	BALLROOM A8+A9	BALLROOM A10+11	MEETING ROOM 1	MEETING ROOM 2+3
MODERATOR	Michelle Hoalton PACE Advanced Water Engineering	Bao Vu Stoel Rives LLP	Mary Vondrak	Nick Sudano City of Santa Rosa	Laura Carpenter Brown and Caldwell	Maggie Yuse Seattle Public Utilities, City of Seattle	Aaron Nunez City of Santa Rosa
1:30p - 1:55p	*From Runoff to Resource: Integrating Stormwater into Purple Pipe Systems for Increased Water Supply Resilience* Laura Rocha Moulton Niguel Water District	**PANEL** *Does This Case Change Things? Recent Decision in San Francisco Baykeeper v. Cities of Sunnyvale and Mountain View May Redefine MS4 Compliance Risk and Liability* Nicole Granquist Stoel Rives LLP Brandon Steets Geosyntec Consultants Steve Jepsen CleanWaterSoCal	*Meeting Communities Where They Are: An Equitable, Data-Informed Approach to Stormwater Outreach* Rinta Perkins Contra Costa Clean Water Program	*BMP Hydrology Calculator: A Web Tool for Analyzing Rainfall, Runoff, and Infiltration in Stormwater BMPs* Danhui Xin Southern California Coastal Water Research Project	*Not Quite Industrial, Not Quite Construction: Stormwater Compliance at Landfills* Pavlova Vitale Los Angeles Regional Water Quality Control Board	**PANEL** *6PPD-Q: The Role of Legislation, Remediation, and Research in Mitigating a Toxic Chemical* John Hansen USGS Western Fisheries Research Center	*From Research to Deployment: A Practitioner's Guide to Designing with Biochar in Stormwater BMPs* Myles Gray American Biochar Institute
2:00p - 2:25p	*Intelligent Stormwater Management: A Case Study in Santa Cruz, CA for a Multi-benefit Capture Project* Laney Nelson Opti		*Stormwater Education with Heart: How Positive Framing Can Transform Public Outreach* Sabah Awan County of Orange	*From Snowpack to Streamflow: Why Capturing Spatial Variability Matters for Forecasting* Ali Tasdighi Ulteig	*Navigating California's Industrial Frontier: A Comparative Analysis of Advanced Treatment Technologies and BAT/BCT Determination Frameworks* David Renfrew Environmental Science Associates	Nathan Hart Seattle Public Utilities, City of Seattle Zach Hall Washington State House of Representatives, 5th Legislative District Neil Smith Flexsys	*Breaking Down Stormwater Costs: Insights from 5 Projects Across Southern California* Steve Bell CWE, An Apex Company

TUE OCT 27 CONTINUED

SESSION 9	TRACK: Municipal Programs	TRACK: Climate Change, Resiliency, and Sustainability	TRACK: Outreach, Engagement, and Education	TRACK: Modeling, Data Tools, and Artificial Intelligence	TRACK: Industrial General Permit	TRACK: Pollutants of Concern and True Source Control	TRACK: Green Infrastructure and Nature-Based Solutions Design and Maintenance
ROOM	BALLROOM A2+A3	BALLROOM A4-A6	BALLROOM A7	BALLROOM A8+A9	BALLROOM A10+11	MEETING ROOM 1	MEETING ROOM 2+3
MODERATOR	Kelly Ogawa CASQA	David Pohl County of San Diego Watershed Protection Program	Patti Diaz-Zachary Poseidon Education	Kelly Havens Arcadis U.S., Inc.	Matthew Lentz GSI Environmental, Inc.	Erin Maker County of Santa Barbara	Ash Paranthaman RICK Engineering
2:35p - 3:00p	**TRAINING WORKSHOP** *Municipal Stormwater 101* Speakers TBD	*Bay Area Climate Change Adaptation Report for GSI Assets* Peter Schultze-Allen EOA, Inc.	*Water You Talking About? Communicating Complexity Without Sinking the Audience* Meghan Engh EKI Environment & Water, Inc.	*Optimizing Low-Impact Development Placement for Urban Flood Reduction with SWMM and Advanced Analytics* Chung-Yuan Liang GSI Environmental, Inc.	*Proposed Changes to the NPDES Statewide Industrial Stormwater General Permit* Pushpa Zachariah State Water Resources Control Board	*Department of Toxic Substances Control* Speakers TBD	*Merced Avenue Greenway: Designing and Implementing Multi-Benefit Green Infrastructure in a Constrained Urban Corridor* Jason Fussel Tetra Tech
3:05p - 3:30p		*A "Cool" Solution, GSI To Mitigate Urban Heat* Jason Wright Tetra Tech	*Putting Out the Flames of Confusion for Residents* Jessica Blasjo Action Research	*A Data-Driven Framework for Countywide Stream Erosion and Sediment Risk Screening in San Diego County* Erfan Goharian RESPEC	*Targeting Metals Exceedances in Southern California Watersheds: Data-Driven Insights for Industrial Stormwater Enforcement* Emma Averill Los Angeles Regional Water Quality Control Board	*CalRecycle – SB 54 Regulations* Speakers TBD	*Sutter Avenue Urban Greening Project: GSI in Ultra-Confined Right-of-Way* Amanda Booth City of San Pablo

SESSION 10	TRACK: Municipal Programs	TRACK: Climate Change, Resiliency, and Sustainability	TRACK: Outreach, Engagement, and Education	TRACK: Funding	TRACK: Industrial General Permit	TRACK: Pollutants of Concern and True Source Control	TRACK: Green Infrastructure and Nature-Based Solutions Design and Maintenance
ROOM	BALLROOM A2+A3	BALLROOM A4-A6	BALLROOM A7	BALLROOM A8+A9	BALLROOM A10+11	MEETING ROOM 1	MEETING ROOM 2+3
MODERATOR	Kelly Ogawa CASQA	Shauna Morton CASQA	Veronica Aponte City of Rancho Cordova	Rinta Perkins Contra Costa Clean Water Program	Mehran Ebrahimi GSI Environmental, Inc.	James Downing Santa Clara Valley Water District	Megan Otto Geosyntec Consultants
3:40p - 4:05p	**TRAINING WORKSHOP** continued	*Water as Leverage for Urban Water Climate Resilience* The Netherlands Enterprise Agency, Dutch Ministry of Economic Affairs	*From Stakeholder to Standard: Lessons in Building, Sustaining, and Evolving Effective Stakeholder Engagement for Stormwater Regulatory Guidance* Michael DeVuono Arcadis U.S., Inc.	**PANEL** *The Contra Costa County Regional Alternative Compliance (RAC) System Implementation Updates* Amanda Booth City of San Pablo Lisa Austin Geosyntec Consultants Chris Lynch Jones Hall LLP	*IGP Enforcement Priorities and Emerging Initiatives Across California* Pavlova Vitale Los Angeles Regional Water Quality Control Board Leah Lemoine Central Coast Regional Water Quality Control Board Margaret (Maggie) Monahan San Francisco Bay Regional Water Quality Control Board	*Monitoring Pesticides in California: Wastewater, Urban Surface Water, and Source Control* John Wheeler Department of Pesticides Regulation	*Stormwater Capture Technology from Australia: Scalable Systems Delivering Water Quality, Reuse, and Urban Resilience from Sydney and Melbourne* Christopher Rochfort Centre for Organic Research and Education (CORE)
4:10p - 4:35p			*Practical Ways to Make Your Storm Water Training More Interactive* Leigh Patterson California State Parks			*CASQA At Work for You: Advancing Statewide Bacteria Solutions* Tricia Lee CASQA Jeff Soller Soller Environmental, LLC	*Frequency of Maintenance Needs in Biofilters Throughout Los Angeles, CA* Ken Schiff Southern California Coastal Water Research Project

4:35p - 6:00p **EXHIBITOR RECEPTION**

LOCATION: EXHIBIT HALL A
An opportunity for exhibitors and conference attendees to connect in a relaxed setting before heading out for dinner (appetizers; cash bar).

WED OCT 28

7:30a - 8:30a	COFFEE	LOCATION: LOBBY
7:30a - 2:30p	CONFERENCE SERVICES	LOCATION: LOBBY CASQA Conference Services and Registration Desk
8:00a -11:15a	EXHIBIT HALL OPEN	LOCATION EXHIBIT HALL A
8:00a -11:15a	POSTER SESSION	LOCATION: EXHIBIT HALL A

SESSION 11	TRACK: Municipal Programs	TRACK: Climate Change, Resiliency, and Sustainability	TRACK: Outreach, Engagement, and Education	TRACK: Funding	TRACK: Industrial General Permit	TRACK: Pollutants of Concern and True Source Control	TRACK: Green Infrastructure and Nature-Based Solutions Design and Maintenance
ROOM	BALLROOM A2+A3	BALLROOM A4-A6	BALLROOM A7	BALLROOM A8+A9	BALLROOM A10+11	MEETING ROOM 1	MEETING ROOM 2+3
MODERATOR	Chris Crompton Michael Baker International	Caitlin Tharp Schaaf & Wheeler	Gerhardt Hubner Southern California Stormwater Monitoring Coalition	Beatrice Musacchia Orange County Public Works	Alexander Schriewer NV5	Bethany Preciado Riverside County Flood Control and Water Conservation District	Stephanie Gaines County of San Diego Watershed Protection Program
8:30a - 8:55a	*Statewide Small MS4 Permit Reissuance* Paul Levy State Water Resources Control Board	*Stormwater as a Resource: Climate Adaptation in the Calaveras River Watershed* Dominick Amador Woodard & Curran	*CASQA At Work for You: Growing the Impact of Our Water, Our World* Joseph Draper CASQA	*Lean In and Be Bold: Aligning Cost, Compliance, and Voter Approval for Sustainable Stormwater Funding* Christopher Coulter SCI Consulting Group	*The Zinc–Copper Divide: Understanding Delisting, Toxicity, and Stormwater Compliance in Southern California* Kathy Hubbard Kleinfelder	*Leaching of PFAS from Impacted Construction Materials* Jared Ervin Geosyntec Consultants	*Water Quality Solutions Outside the ROW* Eric Hengesbugh RICK Engineering
9:00a - 9:25a	*Meeting the State's Cost Reporting Requirements with the CASQA Cost Reporting Tool* Kelly Ogawa CASQA	*When Wildfire Reshapes the Watershed: A Transferable Framework for Modeling Dynamic Land Cover and Planning a Climate-Resilient Water Future* Ritesh Karki Ulteig	*Learning by Talking Trash Together: City of Santa Rosa Trash Pilot Study* Nick Sudano City of Santa Rosa	*Navigating the Stormwater Funding Cycle - Tips and Tricks* Emily Platt Carollo Engineers Inc	*When TMDLs Drive the Bus (or fly the plane…): IGP Compliance in the Newport Bay Watershed* Melinda McCoy John Wayne Airport	*Keeping PCBs Out of Urban Runoff: Building Demolition as Source Control* Kevin Huniu EOA, Inc.	*Santa Monica Green Streets Master Plan: A Model for Adaptable Implementation of Green Infrastructure* Merrill Taylor Craftwater

SESSION 12	TRACK: Municipal Programs	TRACK: Climate Change, Resiliency, and Sustainability	TRACK: Outreach, Engagement, and Education	TRACK: Funding	TRACK: Industrial General Permit	TRACK: Pollutants of Concern and True Source Control	TRACK: Green Infrastructure and Nature-Based Solutions Design and Maintenance
ROOM	BALLROOM A2+A3	BALLROOM A4-A6	BALLROOM A7	BALLROOM A8+A9	BALLROOM A10+11	MEETING ROOM 1	MEETING ROOM 2+3
MODERATOR	Kelly Ogawa CASQA	Zaida Aurora Cholico Santoyo Larry Walker Associates	Joey Schmitt Action Research	Richard Harmon Woodard & Curran	Laura Carpenter Brown and Caldwell	Lisa Austin Geosyntec Consultants	Renee Crawford EOA, Inc.
9:35a - 10:00a	**PANEL** *Cost-Reporting Lessons Learned from the San Francisco Bay Area: Two Years of First-Hand Experience* Jill Bicknell EOA, Inc. Rajani Nair City of San Jose	*Planning for a Rising Tide: Developing a 30-Year Waterfront Adaptation Strategy for Climate Resilience in Santa Barbara* Sarah Kassem Stantec	*Bridging the Implementation Gap: Turning Stormwater Outreach into Measurable Classroom Outcomes* Patti Diaz-Zachary Poseidon Education	*The Big Picture: Statewide Political and Legal Solutions for Stormwater Funding* Shauna Morton CASQA	**TRAINING WORKSHOP** *Back to the IGP Basics – Learning from Experience (2 hour session)* Mehran Ebrahimi GSI Environmental, Inc Sandy Mathews Larry Walker Associates Nancy Gardiner TRC Matt Hillyard GSI Environmental, Inc. Elliot Ripley Ashworth Leininger Group	**PANEL** *Controlling Stormwater Pollutants in Old Industrial Areas at the Source* Lisa Sabin EOA, Inc. Mahmoud Jillo City of San Jose Environmental Services Department Katie Kulha San Francisco Bay Regional Water Board Terri Fashing City of Oakland Public Works	*Buena Vista Creek Habitat Restoration Planning Project: A Holistic Approach to Watershed Management* Zoe Smith City of Oceanside
10:05a - 10:30a	Sven Edlund City of San Mateo Michele Mancuso Contra Costa County	*Multiple Paths Toward Resilience Through the San Bruno Creek OneWaterShed Pilot Study* Dan Sternkopf City/County Association of Governments of San Mateo County	*The Power of Partnerships: Turning Rain Barrel Workshops into Collective Action* Scott Norris County of San Diego	*Proposition 4 Storm Water Grant Program Funding – Guidelines and Application Overview* Jennifer Toney State Water Resources Control Board			*From Pilot to Performance: Designing and Implementing Nature-Based Stormwater Solutions at the Bowtie Demonstration Project* Serena Zhu Stantec

WED OCT 28 CONTINUED

10:30a - 11:15a	BREAK, PRIZE DRAWING	**LOCATION:** EXHIBIT HALL A Exhibitor-Sponsored Prize Drawing* Winners will be announced by the Platinum Stormwater Steward (Craftwater Engineering, Inc.). (*Must be present to win)

SESSION 13	**TRACK: Municipal Programs**	**TRACK: Climate Change, Resiliency, and Sustainability**	**TRACK: Outreach, Engagement, and Education**	**TRACK: Funding**	**TRACK: Industrial General Permit**	**TRACK: Pollutants of Concern and True Source Control**	**TRACK: Green Infrastructure and Nature-Based Solutions Design and Maintenance**
ROOM	BALLROOM A2+A3	BALLROOM A4-A6	BALLROOM A7	BALLROOM A8+A9	BALLROOM A10+11	MEETING ROOM 1	MEETING ROOM 2+3
MODERATOR	Danielle Moss City of Davis	Lisa Skutecki CDM Smith	Echo Lee City of Alameda	Chris Hsu Michael Baker International	Laura Carpenter Brown and Caldwell	Chris Sommers EOA, Inc.	John Bennett EKI Environment & Water
11:15a - 11:40a	*Full Trash Capture Through Alternative Compliance: Leveraging Retrofit Infrastructure and Transferable Water Quality Credit* Shawna Bennetts City of Temecula	*Ready, Set, Adapt! Streamlining Climate Hazard Risk Assessment for Infrastructure* Julia Schmitt Carollo Engineers	*Community Voices in Stormwater Capture: Pasadena's Engagement Framework* Dawn Petschauer City of Pasadena Public Works	**PANEL** *Leveraging Caltrans-Municipal Partnerships to Advance Stormwater Funding and Regulatory Compliance* Kenneth Johansson Caltrans	**TRAINING WORKSHOP** continued	*Improved Bacterial Risk Assessments Through Viability-Based Molecular Assays* Nurul Khan WSP	*The Smart Side of Stormwater: Digital Inspections, Telemetry, and Dashboard Development* Aric Torreyson Tetra Tech
11:45a - 12:10p	*Transit-Oriented Development is Reshaping MS4 Compliance for Non-Traditional Permittees* Rachael Keish Keish Env-PM-CM	*Incorporating Stormwater Management into Regional Shoreline Adaptation Planning Efforts* Dana Brechwald San Francisco Bay Conservation and Development Commission	*Listening First: Community Driven Stormwater Outreach at Waikiki's Kuhio Beach* Paola Machan Carollo Engineers	Anand Maganti Caltrans Dagmara Saini City of Stockton Steven Switzer Michael Baker International		*Spatial - Temporal Characterization of PFAS Loadings in Stormwater: a Nationwide Analysis* Hassan Javed GSI Environmental, Inc.	*Rain Ready and Rain Smart! Lessons Learned from Orange County Implementation of Bioretention Basins on HOA Land* Michael Mori Orange County Public Works

12:10p - 1:30p	LUNCH	**LOCATION:** EXHIBIT HALL B
1:30p - 2:30p	CAPSTONE SESSION **AN ALL-ATTENDEES EVENT FEATURING A DISCUSSION ON DATA CENTERS AND WATER WITH AN EXCEPTIONAL LINEUP OF CALIFORNIA LEADERS.** Capstone Session Sponsor: PHYSIS Environmental Laboratories, Inc.	**LOCATION:** BALLROOM A1 **SPEAKERS** Karen Cowan - *Executive Director, CASQA* Speakers TBD



Photographer Michael Pegram.

Attachment 5

Year 13 Program Effectiveness and Improvement Plan							
New Permit BMP #	**Current BMP# Program Activity**	**Annual Measurable Goals (Unless Noted Otherwise)**	**Year 13 Detail/Narrative**	**Keep, Modify, Cease, or Add New Activity**	**CBSM Element (X=Yes)**	**Implementation Level** 0 = Not Implemented 1 = Fully Implemented	**Effectiveness Level** L = Low M = Medium H = High
E.7.a		Within the first year, select and implement a PE/PO option. Option 4 selected: combination of countywide, regional, and individual jurisdiction responsibilities to execute outreach and education requirements					
E.7.a.ii.j.1 E.7.a.ii.d	**1.1. Grades K-3** Distribute educational materials to students and/or provide class presentations	1.1a: Reach 750 students with partner presentations or coloring books	New "Green Schools Detective" booklet, classroom presentations updated	Keep	X	1	H
E.7.a.ii.j.2 E.7.a.ii.d E.7.a.ii.b	**1.2. Grades 4-12** 24 total classes with hands-on presentations.	1.2a: - Reach 600 students per year with hands-on programs and activities - 24 total classroom visits - 10% increase in student awareness (pre/post surveys)	Classroom presentations updated	Modify: Include metrics on number of class presentations	X	1	H
E.7.a.ii.j.3 E.7.a.ii.c E.7.a.ii.d	**1.3. Grades 4-College** Storm drain stenciling; offer community service projects	1.3a: - Stencil 150 inlets, document location - 100 community service hours - 50 volunteer participants		Keep	X	1	H
E.7.a.ii.j.4 E.7.a.ii.f E.7.a.ii.d	**1.4. Teacher Training** Train teachers on stormwater pollution prevention and collect evaluations from teachers on classroom presentations	1.4a: - 2 teacher trainings during 5 year permit - Each year, collect 20 teacher evaluations of classroom programs		Keep		1	M
E.7.a.ii.d	**2. Sea Otter Mortality** Increase general public awareness	Continue to post messages on Facebook and website		Modify: Include pet waste and general litter disposal messages		1	L
E.7.a.ii.d E.7.a.ii.f E.7.a.ii.h E.7.a.ii.i	**3. Selected BMP Brochures** BMP brochures made available to Businesses, Public	3a: - BMP brochures distributed either electronically or in City/County offices	11 high priority BMP handouts updated	Keep		1	M
E.7.a.ii.c E.7.a.ii.d E.7.a.ii.f E.7.a.ii.g E.7.a.ii.h E.7.a.ii.i	**4. Residential Outreach** Disseminate information to homeowners and residents	4a: - 50,000 "mailings" distributed throughout the MRSWMP area (Email blasts, hardcopy mailer, website posting, electronic newsletter, trash insert, etc.) - Provide 1 workshop to residents on LID and storm water friendly garden techniques. - Provide incentives to one sustainable group to enhance local park or community area with stormwater friendly techniques	All outreach materials available on Program website 26 email blasts sent during Year 13	Keep	X	1	M
E.7.a.ii.d E.7.a.ii.f E.7.a.ii.h E.7.a.ii.i	**5. HHW in Monterey County** Reporting of used oil and used oil filter collection numbers	~~5a: Report collection numbers for motor oil and used oil filters.~~		Cease: Included in individual MS4 Annual Reports		0	L
E.7.a.ii.c E.7.a.ii.d E.7.a.ii.f E.7.a.ii.h E.7.a.ii.i	**6. Our Water Our World (OWOW) displays** Outreach to public through information in nurseries.	6a: - Maintain bilingual OWOW flyers in 4 public locations. - Visit Home Depot on a monthly basis to check on OWOW display rack and shelf talkers - Offer in-store training OR an extra tabling event to be decided by the store manager	Brochures provided in new locations: home improvement stores, garden and landscaping stores, auto supply stores, auto repair facilities	Keep	X	1	H
E.7.a.ii.c E.7.a.ii.d E.7.a.ii.f E.7.a.ii.h E.7.a.ii.i	**7. OWOW Outreach events** Public, residents, tourists	7a: - Participate in 4 events ~~including possible tie-in with SPCA vaccine clinic~~ - Reach 75 people through events - Report on increase/decrease in sales of "natural insecticides" from box store corporate headquarters		Modify: SPCA clinics are not offered consistently, and other events see larger public engagement	X	1	H

New Permit BMP #	Current BMP# Program Activity	Annual Measurable Goals (Unless Noted Otherwise)	Year 13 Detail/Narrative	Keep, Modify, Cease, or Add New Activity	CBSM Element (X=Yes)	Implementation Level 0 = Not Implemented 1 = Fully Implemented	Effectiveness Level L = Low M = Medium H = High
E.7.a.ii.c E.7.a.ii.d E.7.a.ii.f E.7.a.ii.h	**8. Restaurant Outreach** Partnership with other agencies, provide training materials and pollution prevention materials to restaurants.	8a: ~~- Visit 75 restaurants~~ - Post restaurant DVD training video on website in English and Spanish to reduce/eliminate DVD distribution - Post survey online for distribution by restaurant managers and staff to access after viewing DVD - Post bilingual "Food and Restaurant Industry Good Cleaning Practices" poster on website, distribute to restaurants		Modify: Remove restaurant visits - conducted by inspectors during fats, oils, and grease inspections mandated for sewer permits Add: Bilingual good cleaning practices BMP materials available on Program website and distributed to restaurants	X	1	M
	9. Bilingual Radio Ads Residents, general public	9a: Conduct a multi-media outreach campaign consisting of bilingual radio ads, bilingual TV ads, bilingual movie ads, social media, and digital marketing. Report ~~reach and~~ impressions. - Reach 150,000 listeners/impressions - Air 500 ads ~~- Achieve 35% Effective Reach~~		Modify: Conduct a multi-media outreach campaign including social media and digital marketing in addition to traditional channels Remove: Effective reach metrics are not provided in radio station reports		1	H
E.7.a.ii.c E.7.a.ii.d	**10. Bilingual TV ads** General public, tourists	10a: - Air 650-1,000 ads on 4 stations aiming for some prime-time slots - Reach will be reported each year	Reduction of partner agencies compared with Year 12 from six to five non-MRSWMP entities; cost of ad buys discounted in Year 13	Modify: Partnership campaign with regional partners		1	M
E.7.a.ii.c E.7.a.ii.d	**11. Bilingual Movie Ads** General public, tourists	11a: Air bilingual educational digital ads on a public platform. ~~- Reach 175,000 movie patrons~~ - Reach a minimum of 100,000 English YouTube impressions and 100,000 Spanish YouTube impressions	Significant reduction in cost compared with movie ads; improved relability of metrics due to platform capabilities and spike in YouTube channel activity	Modify: Use of YouTube advertising in lieu of movie ads to improve targeted reach and reduce overall cost		1	L - modification will improve effectiveness
E.7.a.ii.d E.7.a.ii.h	**12. Publicity/Press releases** General public	12a: - 17 print/digital ads with circulation #s and impressions - 2-3 Press releases submitted to media	Pivot to digital ads (i.e. boosted social media posts) enabled better targeting of local residents and reduced cost	Modify: Emphasis on digital ads instead of print ads		1	M - use of digital ads will improve
E.7.a.ii.d E.7.a.ii.c	**13. Website** General public	13a: - Report the number of website and/or social media hits per year. - 3 audits/year by ~~Education Coordinator~~ Program Administrator	Over 200% growth in new website users; first year with consistent posting on social media (both FB/IG) platforms	Modify: Clarify website audit responsibility lies with Program Administrator support staff		1	M
E.7.a.ii.e E.7.a.ii.g	**14. Events:** Partner with organizations such as MBNMS and NGO's to reach the general public, residents and tourists.	14a: - Participate in 5 events (7 days) per year - Reach 1,300 people - Distribute 1,500 educational materials	Outreach materials updated and modernized	Keep		1	H
E.7.a.ii.b	**15. Public Attitude Survey** General public	15a: - Analyze 175 public survey responses	Survey responses collected via computer tablet, enabling real-time data sharing to inform program priorities and focus	Keep	X	1	H
	16. Large hands-on storm drain model. Outreach to public	16a: - Rotate model to 1-2 locations per year. - Distribute 250 bilingual brochures	New watershed model purchased and used at seven public events	Keep		1	H
E.7.a.ii.c	**17. Tourist Outreach**	17a: ~~- Restock and upkeep existing hotel partners with brochures and posters.~~ ~~- Add new hotels to help educate visitors through brochures, posters in elevators or vending areas, or PSA to air in hotel.~~ - Place tourist-targeted advertisement in annual Visitors Guide publication by Monterey County Weekly	Social media campaigns focused on tourist activities (events, picnics on the beach) and litter abatement	Cease: Hotel costs for brochures and posters (digital/physicial) have increased exponentially; many no longer offer this opportunity Add: Place tourist-targeted advertisement in annual Visitors Guide publication by Monterey County Weekly		1	L - modification will improve effectiveness

New Permit BMP #	Current BMP# Program Activity	Annual Measurable Goals (Unless Noted Otherwise)	Year 13 Detail/Narrative	Keep, Modify, Cease, or Add New Activity	CBSM Element (X=Yes)	Implementation Level 0 = Not Implemented 1 = Fully Implemented	Effectiveness Level L = Low M = Medium H = High
E.7.a.ii.c E.7.a.ii.h E.7.a.ii.i	**18. Distribution of educational materials** General public, tourists, schools	18a: - Distribute educational materials to various audiences and report the number of materials distributed.	Outreach materials updated and modernized	Keep		1	M
E.7.a.ii.a E.7.a.ii.k E.7.a.ii.l	**19. Business Outreach: Car Washing**	19.a - Coordinate commercial car wash facility to encourage community youth groups to use commercial facility for fund raising car wash. Implement pilot program in Year 2 - Distribute messages related to proper car washing	Press release issued on this topic	Keep		1	L
E.7.b.1 E.7.b.2.a.i E.7.b.2.b.i i E.7.b.3 E.11	**20. Training (IDDE, Construction, Biennial Employee)**	Train all Permittee staff on pollution prevention, IDDE, Good Housekeeping; distribute construction education materials		Keep		1	H
E.8.ii.c	**2-1.d Annual Workshop**	Hold a workshop or public event or partner with others to support a workshop or event that addresses an annually selected BMP topic.	Participation in Storm Water Awareness Week resource library exponentially increased online participation	Keep		1	H
E.8.ii.c	**2-2.a Coastal Clean Up Day**	Contribute financial support to the Coastal Clean Up Day event.		Keep	X	1	H
E.8.ii.c	**2-2.a Coastal Clean Up Day**	~~Contribute 40 hours staffing for Coastal Clean Up Day event.~~		Cease: Clean up event coordinated by Save Our Shores; staff and Educational Coordinator time dedicated to public promotion of event		1	L
E.8.ii.c	**2-2.b Coastal Clean Up Day**	Recruit volunteers for Coastal Clean Up Day through all available channels		Keep		1	M
E.8.ii.c	**2-2.c. Stenciling** Outreach to public	Provide supplies, recruit volunteers, and install/audit/replace a minimum of ~~300~~ 150 storm drain stencils per year.		Modify: Reduce stencil goal to 150 as previous permit years have seen progress across all jurisdictions; include count of inlets with existing emblems visited	X	1	H
E.8.ii.c	**2-2.d Snap Shot Day Ads**	~~Contribution for print ads from PE/PO~~ - Financial contribution toward volunteer coordination and lab analysis of water samples - Promotion of event via digital platforms	Staff participated in event	Modify: Financial contribution toward volunteer coordination and lab analysis of water samples; public promotion of event via digital platforms to reflect best practices for modern outreach channels		1	H
E.8.ii.c	**2-2.d Public Participation (Volunteer) Program**	Promote public participation in community projects related to stormwater pollution prevention, LID education, volunteer monitoring programs.		Modify: Consolidated from item below		1	H
E.8.ii.c	**2-2.d Public Participation (Volunteer) Program**	~~Promote public participation in volunteer monitoring programs.~~		Cease: Moved to item above		1	H
E.8.ii.c	**2-2.d Public Participation Program**	Encourage public participation through social media outlets and community partners.	First year of consistent social media content generation across platforms (both FB/IG)	Keep		1	H
E.8.ii.c	**2-2.d First Flush Print Ads**	Contribution toward monitoring program volunteer recruitment via online platforms. ~~print ads to recruit volunteers.~~	Staff participated in event	Modify: Shift to online promotion of event for cost efficiency and improved reach		1	H

MONTEREY SEA
Stormwater Education Alliance
Carmel-by-the-Sea • County of Monterey • Del Rey Oaks
Monterey • Pacific Grove • Sand City • Seaside

September 2, 2026

Sent via email to: commentletters@waterboards.ca.gov

Courtney Tyler
Clerk to the Board
State Water Resources Control Board
PO Box 100
Sacramento CA 95812-2000

RE: Comments on the Draft Phase II Small Municipal Separate Storm Sewer Systems Permit (Draft MS4 Permit)

Dear Ms. Tyler:

Thank you for the opportunity to comment on the Draft MS4 Permit. We write today on behalf of the Monterey Stormwater Education Alliance (Monterey SEA), a regional partnership of seven Phase II Municipal Permittees – the Cities of Carmel-by-the-Sea, Del Rey Oaks, Monterey, Pacific Grove, Sand City, Seaside, and the County of Monterey.

Monterey SEA Members are grateful for the time and attention State Water Resources Control Board staff have dedicated to the development of the Draft MS4 Permit, and we would like to offer the following input on the draft language published on July 2, 2026.

Our primary concern centers around implementation timelines. First, we request that the effective date of the Phase II Order reflects annual budget cycles, taking effect on July 1 and mirroring the permit year reporting period. Establishing a July 1 effective date will allow permittees to incorporate new staffing, consultant, monitoring, inspection, equipment, and capital costs into their annual municipal budget processes rather than imposing substantial new obligations after annual budgets have been adopted.

Secondly, we believe new and renewal permittees should have the same timeframe to review and update ordinances, plans, and policies identified throughout the Draft MS4 Permit. Due to the amount of potential changes to MS4 permit requirements, we urge a revision to these deadlines to allow existing Phase II permittees adequate time to comply. The time required for public jurisdictions to develop a new document versus revising a document is comparable, and permit language should reflect this reality.

Monterey SEA requests clarification on the trash inventory, mapping, and implementation requirements in Attachment H. Our Member Entities have areas where sources of runoff and trash entering municipal storm drain systems originate from other MS4 permit holders' jurisdictions, including State highway rights-of-way. Do Sections H6 – H7 apply only to areas where trash generation sources fall within a jurisdiction's regulated MS4 areas, or will receiving

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permittees be required to address such sources as a part of their trash compliance responsibilities?

Another item where we require clarification is related to a permittee's regulated area versus their full jurisdictional boundaries. Some MS4-regulated entities have jurisdictional boundaries and owned assets that extend beyond the area covered by their MS4 permits. An example of a relevant requirement is found in Attachment D4.10 – Long-Term Asset Maintenance, Rehabilitation, and Replacement; the condition assessments are required to incorporate "permittee-owned hard assets within the Permittee's storm drain system." For those permit holders with infrastructure that exists beyond the regulated MS4 area, is the expectation that all assets will be included in the assessment, regardless of permit boundaries? Monterey SEA urges clarification in Draft MS4 Permit language that requirements apply solely within a permittee's regulated stormwater drainage system, not the entire jurisdictional boundaries.

Furthermore, we strongly support the in-depth comments developed and submitted by the California Stormwater Quality Association (CASQA). Their comments addressing trash capture provisions are of particular interest and priority to our Member Entities, including implementation milestones and the categorization of substantial trash generation areas. We also echo their concerns regarding the consideration of site safety for outfall mapping and sampling mandates.

Please reach out to our Program Administrator if you have any questions – Erica Parker, Administrative Analyst, at (831) 645-4635 or by email at erica@my1water.org.

Sincerely,

Kevin Anderson
Chair

Patrick Grogan
Vice Chair

Monterey Stormwater Education Alliance Management Committee

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Monterey Regional Stormwater Management Committee

Erica Parker
Monterey One Water
Program Administrator Support Staff

Member Jurisdictions

Carmel-by-the-Sea

Del Rey Oaks

Monterey

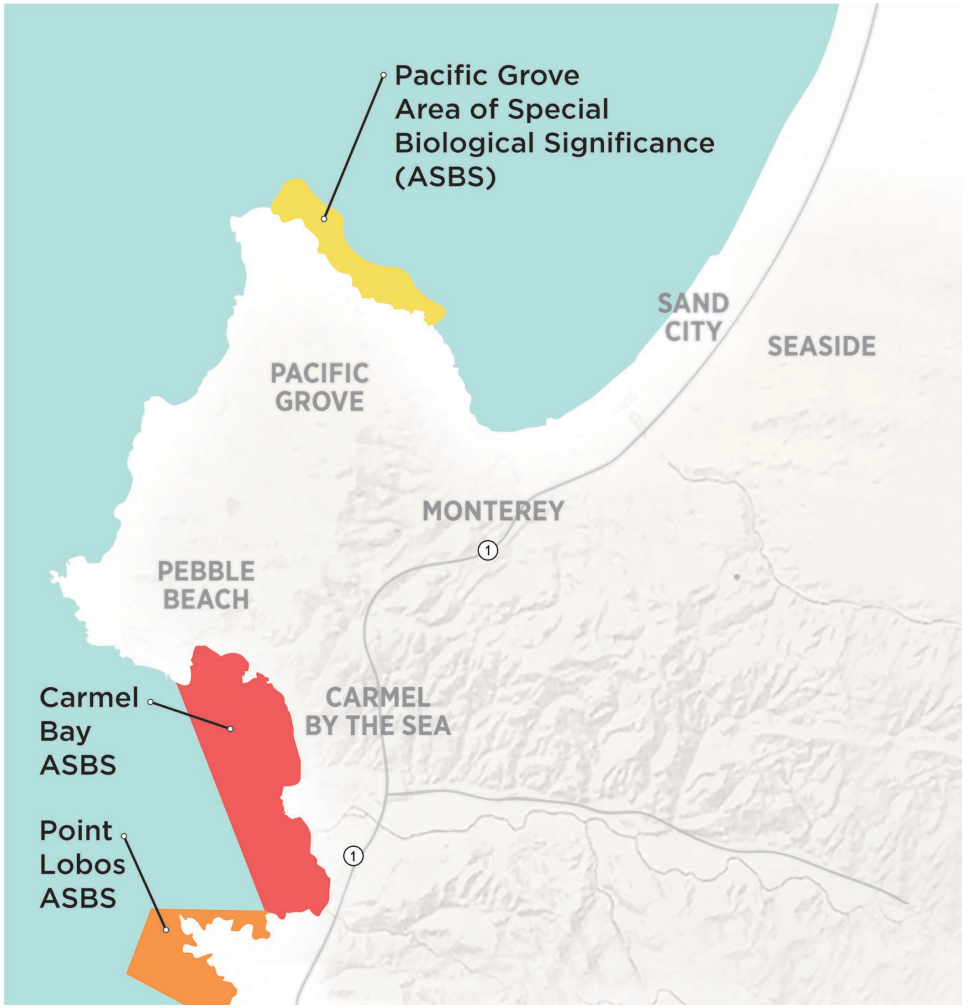
Pacific Grove

Sand City

Seaside

County of Monterey

Three ASBS within MRSWMP Region



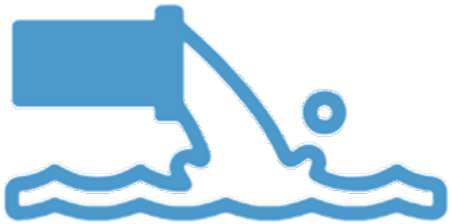
Dry Run & First Flush

- Pollution accumulates in dry weather
- First major rain event flushes pollutants into storm drains
- Data collection to determine sub-watersheds of concern

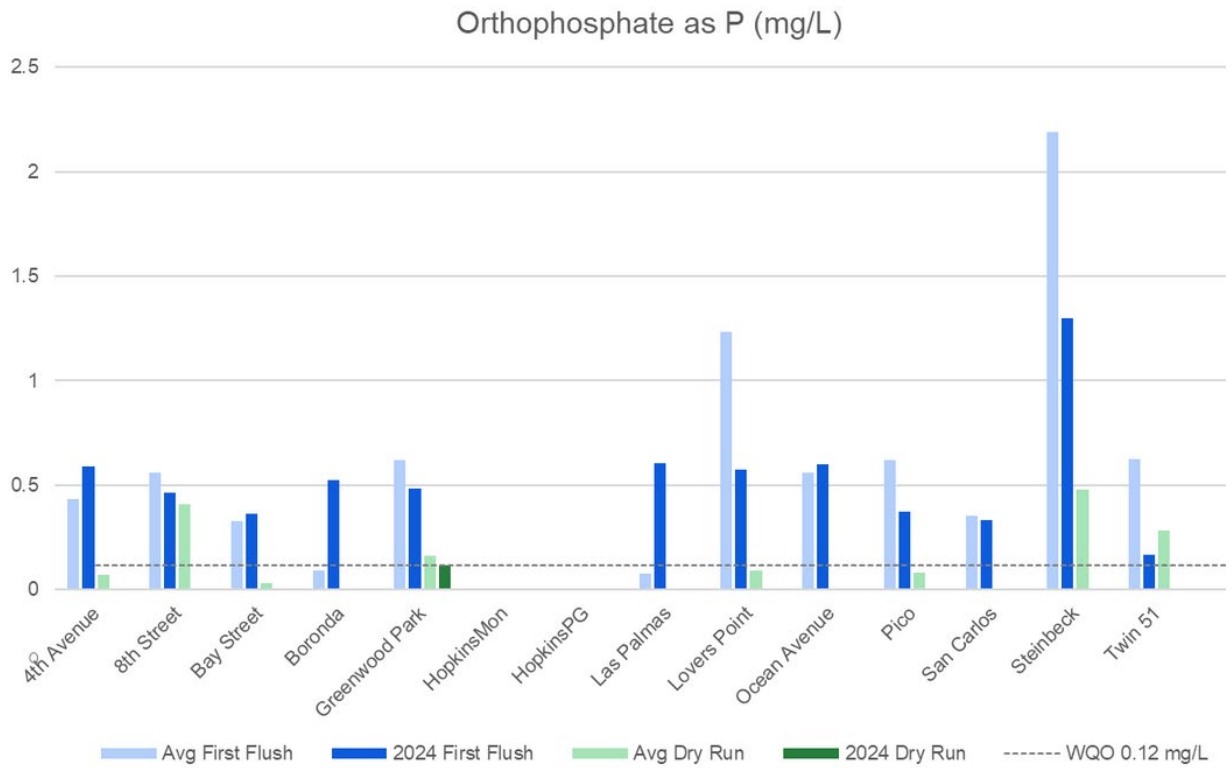


Common urban pollutants:

- Bacteria
- Metals
- Sediment
- Nutrients
- Liquid waste



Water Quality Objectives – Local Trends



- Orthophosphate
- E. coli
- Enterococcus
- Copper
- 303(d), TMDL-specific analytes

Overall improvement of WQ seen since monitoring began

Data Use

Records

- CEDEN
- Individual jurisdiction documentation – maintained internally, available to public upon request

Illicit Discharge Site Tracking

- ID Patterns
- Potential Best Management Practices
- Priorities for maintenance, repair, replacement



Common Illicit Discharges

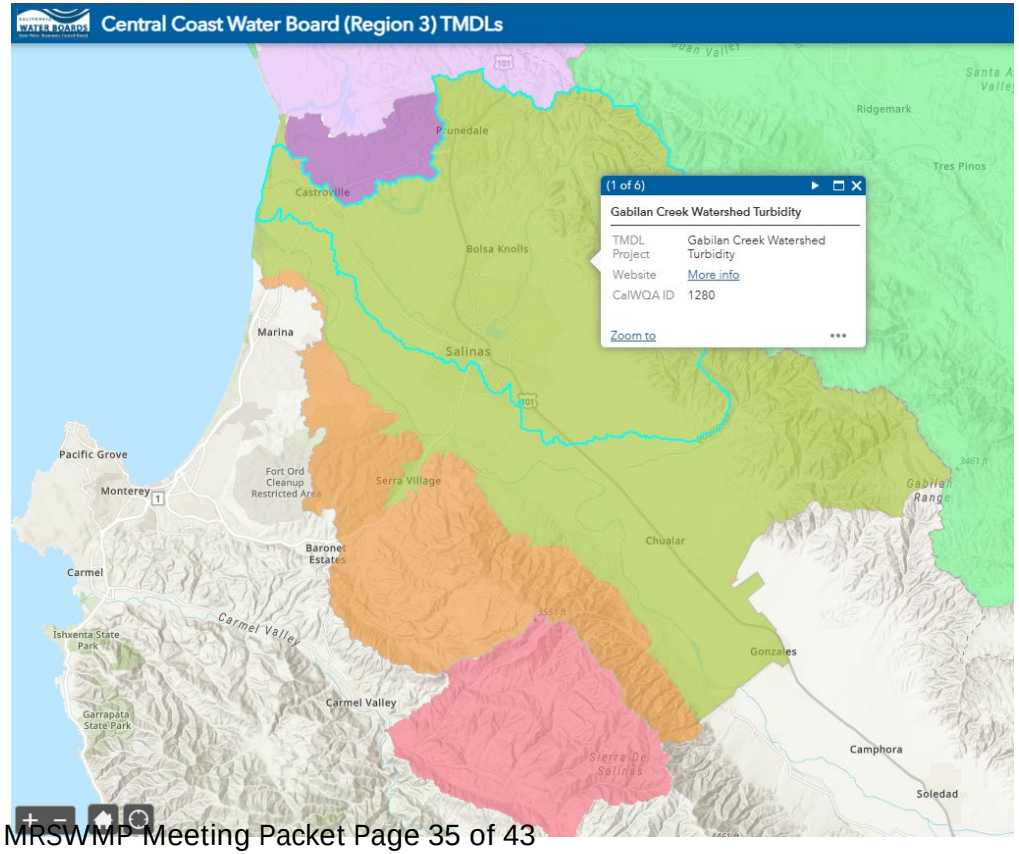
- Unpermitted piping to waterways
- Restaurants/food vendors: FOG disposal, dumpster leaks
- Businesses:
  - Mobile auto detailing, power washing
  - Industrial facility discharges
  - Recycled water over-irrigation
- Residential:
  - Vehicle washing, fluids
  - Plumbing, irrigation leaks
  - Pool, spa water



303(d) Impaired Water Bodies

Pollutants exceed water quality objectives

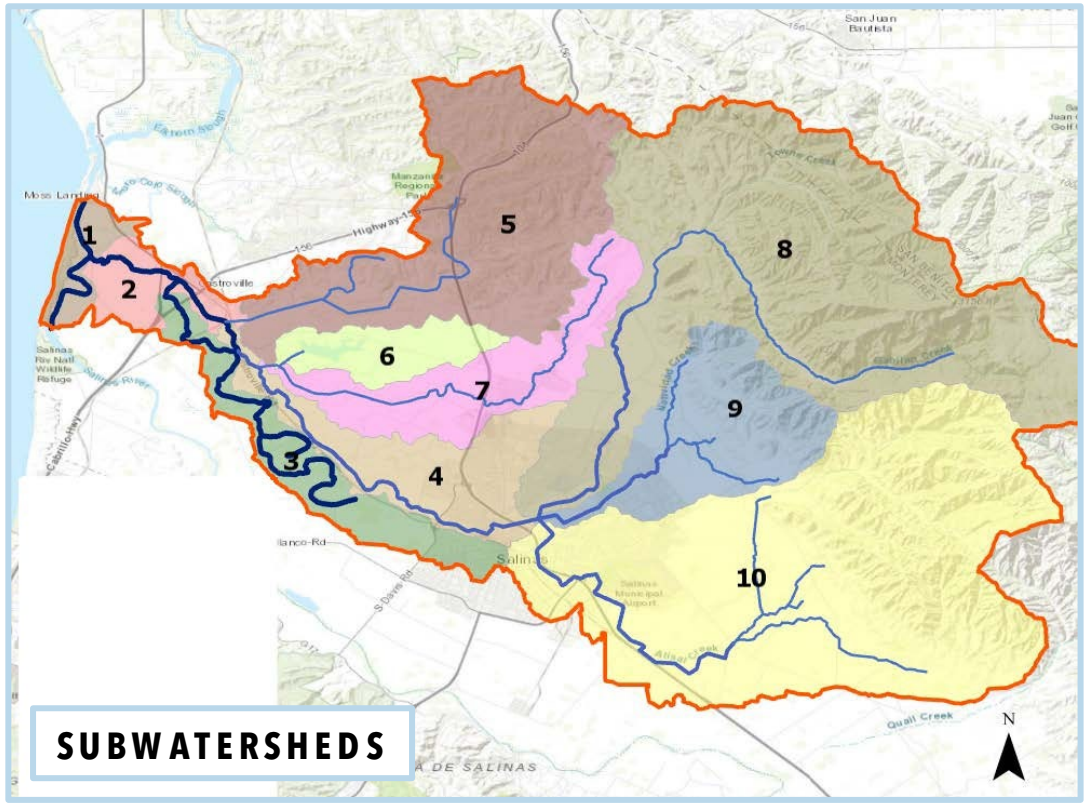
Total Maximum Daily Load (TMDL) – prescriptive improvement plan



MoCo – eight sites: Boronda, Elkhorn Slough, Gabilan Creek, Pajaro River, Salinas River

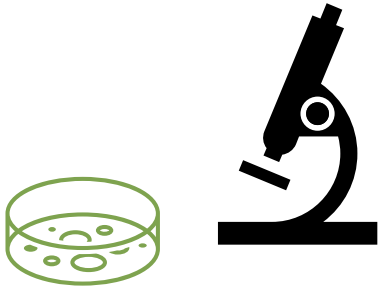
- Fecal coliform
- Nitrogen compounds
- Orthophosphate
- Sediment toxicity
- Pyrethroid pesticides
- Turbidity

303(d) Impaired Water Bodies



Sampling

- Dry weather: once per month
- Wet season: six rain events, analytes based on TMDLs
- Annual: 110 outfalls within high-priority areas



Areas of Special Biological Significance

- Dry season sampling:
  - Carmel – priority areas with flow, based on historic exceedances
  - Pacific Grove – all outfalls
- Wet season:
  - Weekly: all construction sites (inspect only)
  - Three times/season: high-priority areas in significant rain events
  - Twice/season: commercial site inspections
- Once per year: all outfalls surveyed/sampled



Pollutant Reduction in Stormwater

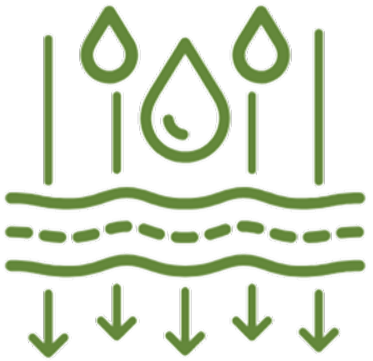
- Source tracking → code enforcement, Notices of Violation, collaboration with dischargers, engineered solutions
- Code compliance coordination (MoCo)
- Public involvement – reporting, education, volunteer groups
- Street sweeping
- Municipal ordinances
- Improved mapping of systems
- Regional data sharing
- Diversion to sanitary sewer



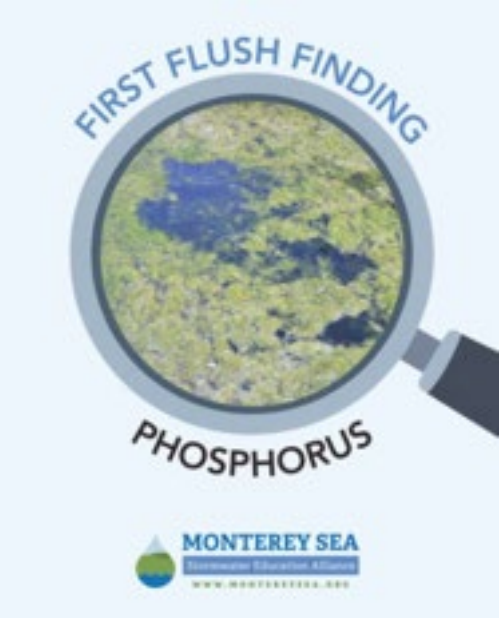


Infrastructure Considerations

- New MS4 Phase II Permit (draft) – trash capture requirements
- Environmental characteristics: sea level rise, coastal erosion, high levels of salt in environment, bedrock, wildlife
- Aging facilities, sediment build-up
- Access issues
- Innovative systems – learning about O&M needs
- Dry weather vs. wet weather flows, flooding
- Built-out/developed areas



Public Outreach & Education Initiatives



- Dynamic approach to outreach
  - * Real-time feedback integration
- Social media campaigns
- School educational programs
- Additional partnerships in development



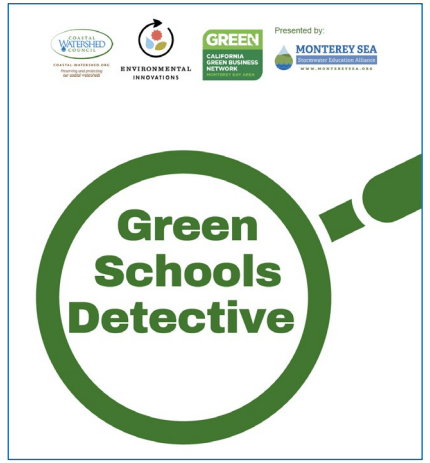


School Educational Programs









Public Engagement – Essential!

- Volunteer groups – trash clean up, sustainable gardening, sampling
- Dog waste campaign
- Cigarette butt education
- Public reporting of illicit discharges







Thank you!

Erica Parker
erica@my1water.org