

Sunday, March 15	Seacliff A	Seacliff B	Seacliff C
Technical Sessions	A1: Reuse Case Studies	B1: Non Potable Reuse	C1: Panel Session
1:00m - 1:30pm	<p>The Challenges of Building a Recycled Water Treatment Facility in San Francisco</p> <p>Barbara Palacios, San Francisco Public Utilities Commission</p> <p>Cheryl Munoz San Francisco Public Utilities Commission</p>	<p>Non Potable Reuse - Log Removal or Water Quality Targets?</p> <p>Troy Walker, Hazen and Sawyer</p> <p>Ben Stanford, Hazen and Sawyer</p>	<p>From the Strategy Room: Leadership's Perspective on Advancing Potable Reuse</p> <p>Robin Nezhad, Tetra Tech (Moderator)</p>
1:30pm - 2:00pm	<p>Integrated Resource Recovery Supports Agriculture and Economy in Paso Robles</p> <p>Kaitlin Zusy Black & Veatch</p>	<p>Save the Outfall, Save the Avocados: Design Build for Advanced Treatment</p> <p>Scott Lacy Brown and Caldwell</p> <p>Angela Morrow City of Escondido</p>	
2:00pm - 2:30 pm	<p>For Whom the Bell Tolls: Determining When to Replace Aging Reuse Infrastructure</p> <p>Nathan Boyle, Hazen and Sawyer</p> <p>Susanna Li, West Basin Municipal Water District</p>	<p>Sustaining Growth: Practices for Effective Water Reuse in Crop Production</p> <p>Seth Hansen Innovative Ag Services LLC</p>	

2:30pm - 3:00pm	<p>Leveraging nutrient control strategies to promote recycled water production</p> <p>Azalea Mitch City of San Mateo</p> <p>John Kenny and Brian Pecson Trussell Technologies, Inc.</p>	<p>Fish, farmers and drought</p> <p>Sean White, City of Ukiah</p>	
3:00pm - 3:30pm			
Technical Sessions	A2: PFAS	B2: Intra-agency Projects	C2: Panel Session
3:30pm - 4:00pm	<p>PFAS Occurrence and Recent Advances in Treatment</p> <p>Jennifer Hooper CDM Smith</p> <p>Charles Schaefer and Dora Chiang CDM Smith</p>	<p>One Water, Two Approaches, Three Sources: Integrating Stormwater into Portfolios</p> <p>Rachel Morgan, Kennedy/Jenks Consultants</p> <p>Sachi Itagaki, Kennedy/Jenks Consultants</p>	<p>State Water Board/WRF Research to Ensure Sound DPR Regulations in CA</p> <p>Julie Minton, Water Research Foundation (Moderator)</p> <p>Adam Olivieri, EOA</p>
4:00pm - 4:30pm	<p>PFAS Removal by Thin Film Nanocomposite Reverse Osmosis Membranes</p> <p>Eugene Rozenbaoum LG Chem</p> <p>Hoon Hyung, Roy Daly and Nate Weeks LG Chem</p>	<p>Laying the Framework for 100% Reuse in Los Angeles</p> <p>Sarah Mouakkad Los Angeles Department of Water and Power</p>	<p>Jim Crook,</p> <p>Shane Trussell and Brian Pecson, Trussell Technologies</p> <p>Jean Debroux, Kennedy/Jenks Consultants</p>

<p>4:30pm - 5:00pm</p>	<p>PFAS in Water Reclamation Plants: Treatment and Environmental Fate</p> <p>Alex Franchi, AECOM</p> <p>YuJung Chang and Chris Curran AECOM</p>	<p>WIN 4 ALL: Securing Regional Resiliency Through Sustainable Groundwater</p> <p>Diane Gatza The Water Replenishment District</p> <p>Lyndsey Bloxom The Water Replenishment District</p>	<p>Randy Barnard</p>
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Monday, March 16	Seacliff AB	Seacliff CD	Bayview A	Bayview B
Technical Sessions	A3: How To Do "On-Site" Reuse	B3: Membrane Integrity Testing	C3: Disinfection Byproducts	D3: Panel Session
10:00am - 10:30am	<p>A Design Professional's Guide to Onsite Water Use and Reuse</p> <p>Kyle Pickett, The William J. Worthen Foundation</p>	<p>Validating Virus and Protozoa Removal and Surrogates for Flat-Sheet MBR</p> <p>Siamak Modarresi, Kubota</p> <p>Nicola Fontaine, Carollo Engineers</p>	<p>Disinfection Byproduct Formation at Potable Reuse and Water Reclamation Plants</p> <p>Larry Schimmoller, Jacobs</p>	<p>Stemming the Flow of Harmful Chemicals Upstream to Support Potable Reuse in CA</p> <p>Melody LaBella, Central Contra Costa Sanitary District (Moderator)</p>
10:30am - 11:00am	<p>A Sewer Agency's Experience Permitting Facebook's On-Site Treatment Plant</p> <p>Roanne Ross, West Yost Associates</p> <p>Phil Scott, West Bay Sanitary District</p>	<p>Rapid detection of waterborne viruses through flow cytometry</p> <p>Hannah Safford, University of California</p> <p>Davis Heather-Bischel, University of California, Davis</p>	<p>UV/Cl₂ AOP Performance, Modeling and Process Control at Water Reuse Facilities</p> <p>Mihaela Stefan, Trojan Technologies</p> <p>A. Royce, S. McDermid, M. Kwon; K. Ishida; T. Knoell, Trojan Technologies; OCWD, CA; WRD, CA.</p>	<p>Kelly Moran, TDC Environmental</p> <p>Anne Cooper Doherty, California Department of Toxic Substances Control</p> <p>Karin North, City of Palo Alto</p>

<p>11:00am - 11:30am</p>	<p>Integration of a decentralized solution in an urban renewal project</p> <p>Chris Hertle, GHD, Inc.</p> <p>Mark Trickey, Andrew Chapman GHD Pty Ltd.</p>	<p>A Simple Measure of MBR Integrity – Further Validation of the Solids-LRV Method</p> <p>Stephen Katz, SUEZ Water Technologies & Solutions</p> <p>Pierre Cote, Cote Membrane Separation Ltd.,</p> <p>Daniella Mosqueda-Jimenez and Kathleen Peach SUEZ Water Technologies and Solutions</p>	<p>Toxicity Bioassays for Assessing Disinfection Byproducts in Potable Water Reuse</p> <p>Erica Marti, University of Nevada, Las Vegas</p> <p>Matias Attene-Ramos, George Washington University</p>	
<p>11:30am - 12:00pm</p>	<p>The Rainbow and Vision of a Decentralized DPR Community</p> <p>Hesse McGraw, el dorado, inc.</p> <p>Brynne Weeks, Sanjay Reddy and Andrew Salveson, Carollo Engineers</p>	<p>A Roadmap Toward LRV Credits for Membrane Bioreactor in Reuse Applications</p> <p>Chris Morrow, Evoqua Water Technologies</p> <p>Anthony Zamarro, Evoqua Water Technologies</p>	<p>Lessons Learned from the First Full Scale UV-Cl Advanced Oxidation Process</p> <p>Seung-Tag Oh, Los Angeles Sanitation</p> <p>Fernando Gonzalez, Lance Thibodeaux, Roshanak Aflaki, Slavica Hammond, Bryan Trussell, Keel Robinson, Jen Scheideler LA Sanitation, CDM, Parsons, Trussell Technologies, Xylem</p>	
<p>12:00pm - 1:30pm</p>				

Technical Sessions	A4: From Surveys to Demonstration Facilities	B4: Potable Reuse Planning - Part 1	C4: Public Outreach Simplified	D4: Panel Session
1:30pm - 2:00pm	<p>Unlocking the Power of Public Survey Research to Propel Your Project</p> <p>Rebecca Cole, NV5</p> <p>Sarah Davis, City of Oceanside</p>	<p>Recycled Water Research for a Changing California</p> <p>Laura McLellan, California State Water Resources Control Board</p>	<p>Potty Talk - How Effective Language Can Advance Your Reuse Project</p> <p>Steve Thomas, TBC Communications & Media</p>	<p>PFAS Regulatory Horizon, Research Needs and Utility Perspective</p> <p>Roshanak Aflaki, CDM Smith (Moderator)</p>
2:00pm - 2:30 pm	<p>Moving with the Little Engine that Could</p> <p>Melanie Schumacher, Soquel Creek Water District</p> <p>Mark Millan, Data Instincts</p>	<p>PureWaterSF: The Season Finale</p> <p>Manisha Kothari, San Francisco Public Utilities Commission</p> <p>Brynne Weeks and Andrew Salveson, Carollo Engineers</p>	<p>Dejargon Your Outreach, Build a Storyline that Earns Support</p> <p>Tiffany Meyer, Water Systems Consulting, Inc.</p> <p>Holly Tichenor, Water Systems Consulting</p>	<p>Shahlah Farahnak, California State Water Resources Control Board</p> <p>Daniel Newton, California State Water Resources Control Board</p> <p>Lanaya Volez Alexander, Eastern Municipal Water District</p>
2:30pm - 3:00pm	<p>Using Demonstration Facilities For Effective and Lasting Community Engagement</p> <p>Megan Drummy, Katz & Associates</p>	<p>Transitioning to DPR: Effects on microbial communities during distribution</p> <p>Lauren Kennedy, University of California, Berkeley</p> <p>Rose Kantor, Scott Miller and Kara Nelson UC Berkeley</p>	<p>New and Exciting! Communicating about Innovation in a Potable Reuse Program</p> <p>Rupam Soni, Metropolitan Water District of Southern California</p> <p>Carolyn Schaffer, Metropolitan Water District of Southern California</p>	<p>Hubertus Cox, Los Angeles Sanitation</p> <p>Charles Neslund, Eurofins</p> <p>Dora Chiang, CDM Smith</p>
3:00pm - 3:30pm				

Technical Sessions	A5: Climate-Energy-Resiliency	B5: Potable Reuse Planning - Part 2	C5: Decreasing Wastewater Flows	D5: Panel Session
3:30pm - 4:00pm	<p>Utilizing Multiple Alternative Water Resources in Reuse Projects</p> <p>Sunny Wang, City of Santa Monica</p> <p>Selim Eren and Chris Aguillon City of Santa Monica</p>	<p>Treated Water Augmentation – The right fit for California’s Silicon Valley?</p> <p>Hossein Ashktorab, Valley Water</p> <p>Nina Hawk and Zach Helsley, Valley Water</p>	<p>Supplemental Supply Alternatives for the San Ramon Valley Recycled Water Program</p> <p>Florence Wedington, EBMUD</p> <p>Reena Thomas, EBMUD</p>	<p>A Virtuous Cycle: Recycling Water to Achieve Groundwater Sustainability</p>
4:00pm - 4:30pm	<p>The Energy Implications of Advanced Water Recycling in Southern California</p> <p>Nicholas Chow, UCLA Luskin Center for Innovation</p> <p>JR DeShazo, Omar Moghaddam UCLA, GHD Engineering Group</p>	<p>A Survey of Microplastics Occurrence in Global Drinking Water Systems</p> <p>William Lipps, Eurofins Eaton Analytical</p> <p>John Cosgrove, Eurofins Eaton Analytical</p>	<p>Adapting to Change: Informing Water Use Efficiency and Declining Flows</p> <p>Rucker Alex, Brown and Caldwell</p> <p>Jocelyn Lu, Brown and Caldwell</p>	<p>Christy Kennedy, Woodard & Curran (Moderator)</p> <p>Adam Hutchinson, Orange County Water District</p> <p>Mel Lytle, City of Stockton</p> <p>Jennifer Burke, City of Santa Rosa</p>
4:30pm - 5:00pm	<p>Stormwater Capture and Reuse at San Diego International Airport</p> <p>Richard Gilb, San Diego County Regional Airport Authority</p>	<p>Recycled Water, Onsite Reuse, and the Road to Sustainability</p> <p>Eric Rosenblum, Water Resource Consultant</p>	<p>Overcoming Decreasing Flow and Resultant Higher Nitrogen Concentration</p> <p>Ali Ahmadi, Parsons</p> <p>Madan Arora, Raul Gonzalez and Satish Kamath Parsons and City of Fresno</p>	<p>Terrie Mitchell, Sacramento Regional County Sanitation District</p> <p>Bob McDonald, Carpinteria Valley Water District</p>

Tuesday, March 17	Seacliff AB	Seacliff CD	Bayview A	Bayview B
Technical Sessions	A6: Brine Management	B6: Sustainable Groundwater Basin Management	C6: Regulatory, Policy and Compliance	D6: Panel Session
10:00am - 10:30am	Trace Metals Removal from RO Concentrate via Low-Energy Capacitive Coagulation Galen Otoole, Valley Water James Barazesh, Carollo Engineers, Inc.	Alternative Framework to the TOC Standard for GWR Surface Spreading Projects Bryan Trussell, Trussell Technologies, Inc Roshanak Aflaki, Rhodes Trussell, Brian Pecson, Teresa Venezia and Fernanda Bacaro Los Angeles Sanitation and Trussell Technologies	Developing Criteria for Direct Potable Reuse Brian Bernados, Division of Drinking Water	Non-Potable Reuse Using Microfiltration: Perspectives from 3 Bay Area Agencies Paul Friedlander Carollo Engineers (Moderator) Levi Fuller Dublin San Ramon Services District
10:30am - 11:00am	FO/RO for Centralized and Decentralized Potable Reuse William Mitch, Stanford University Aleksandra Szczuka, Stanford University	Finding the Water Reuse-SGMA Nexus in Southern San Joaquin Valley Zita Yu, Parsons Surendra Thakral and Brian Leto, Parsons	California Direct Potable Reuse Coalition: Implementation Guide for Utilities Jeff Mosher, Carollo Engineers Andrew Salveson and Kevin Hardy Carollo Engineers and National Water Research Institute	Shelly Masuda East Bay Municipal Utility District Mike Prinz Las Gallinas Valley Sanitary District

<p>11:00am - 11:30am</p>	<p>Brine Recovery and Minimization Technology Overview</p> <p>Daniel Sampson, HDR</p>	<p>Reuse in the Nongrowing Season –Blessing or Blasphemy?</p> <p>Michael Cook, Idaho Department of Environmental Quality</p>	<p>No New Drop Squandered: Santa Clarita’s Approach to Increasing Water Recycling</p> <p>Erica Wolski, Woodard & Curran</p> <p>Steve Cole, Santa Clarita Valley Water Agency</p>	
<p>11:30am - 12:00pm</p>	<p>A 4-Year Journey to Minimize Brine with Closed Circuit RO and 95% Recovery</p> <p>Eileen Idica, Trussell Technologies, Inc.</p> <p>Seval Sen, Rodrigo Tackaert, Shane Trussell Padre Dam Municipal Water District, Trussell Technologies, Inc.,</p>	<p>Creating Sustainability: Role of Recycled Water in SGMA GSPs</p> <p>Daniel Heimel, Water Systems Consulting</p> <p>Rob Morrow, Water Systems Consulting</p>	<p>Navigating a Recycled Water Project through the Water Code Section 1211 Process</p> <p>Leah Walker City of Petaluma Department of Public Works & Utilities</p>	
<p>12:00pm - 2:30pm</p>				

Technical Sessions	A7: Treatment Technologies	B7: Elected Officials and Agency Perspective	C7: Data Collection and Optimization	D7: Panel Session
2:30pm - 3:00pm	<p>Using Pipeline Contacting for High Dose Ozone Applications – Pure Water Monterey</p> <p>Srikanth Pathapati, Mazzei Injector Company LLC</p>	<p>Collaboration between Agencies for Sustainable Cost and Supply of Recycled Water</p> <p>Amy Webb, Los Angeles Department of Water and Power</p> <p>Everett Ferguson, Water Replenishment District of Southern California</p>	<p>Demonstrating Real-Time Collection System Monitoring for Enhanced Source Control</p> <p>Eva Steinle-Darling, Carollo</p> <p>Gina Dorrington, Jeremy Grant, Nancy Nye, Scott Mansell, Penny Carlo, Nicola Fontaine, Prathana Pradhan, Andrew Salveson</p> <p>Ventura Water, El Paso Water, Clean Water Services, Carollo Engineers</p>	<p>Explaining CECs & PFAs to the Public: Best Messages & Dreadful Pitfalls</p> <p>Mark Millan and Patricia Tennyson, Data Instincts and Katz & Associates (Moderators)</p>
3:00pm - 3:30pm	<p>Advancements in Ozone/BAF for Achieving Potable Reuse Goals</p> <p>Vijay Sundaram Stantec</p> <p>Kevin Flis, Lydia Peri, David Foster and Krishna Pagilla Xylem and TMWA</p>	<p>Trust Building - Steps to building trust and buy-in for your project</p> <p>Stephen Groner, SGA Marketing</p>	<p>Improving RO Treatment Operations with Direct Online Membrane Fouling Detection</p> <p>Anditya Rahardianto, Noria Water Technologies</p> <p>Han Gu, Bilal Khan, Sivan Cohen, Megan Plumlee, and Yoram Cohen</p> <p>Noria Water Technologies</p>	<p>Jean Debroux, Kennedy/Jenks Consultants</p> <p>Gina Ayala, Orange County Water District</p> <p>Keel Robinson, Trussell Technologies</p> <p>David Sedlak, Institute of Environmental Science and Engineering</p>
3:30pm - 4:00pm	<p>MBR vs. TMBR – Which Makes More Sense in a Potable Reuse Train?</p> <p>Ufuk Erdal ARCADIS</p>	<p>Pure Water Oceanside – The Path to Delivering Water by 2021</p> <p>Adam Hoch, Hoch Consulting</p>	<p>How big data can protect wastewater quality</p> <p>Ari Goldfarb, Kando</p> <p>Anne-li Steutel-Maron, Kando</p>	