

2025 Hawai'i Water Works Association Annual Conference, Aulani Hotel, Ko Olina Resort Oct. 15-17, 2025

Technical Program

KAHE HO'OKAHI NĀ WAI - <i>The Waters Flow as One</i>				
Date/Time	Activity			
Oct. 15, 2025				
7:30 a.m. - 9:00 a.m.	Registration and Continental Breakfast			
		General Session 1 Kalona Ballroom	Climate Change Track	
9:00 a.m. (15 min)	Welcome Address	Welcome and Pule Arthur Aiu Ernest Lau Manager & Chief Engineer Mayor Rick Blangiardi Video Message	Welcome, Pule and Opening Remarks Conference highlights of note	
9:15 a.m. (45 min)	Presentation	Honolulu's Climate Ready Oahu Strategy for Climate Adaptation Alex Yee and Sarah Harris Office of Climate Change Sustainability and Resiliency	<p>The City's first climate adaptation strategy enhances the City and community's resilience to climate impacts through specific, measurable actions that prepare us for the worst scenarios while also charting a course toward a more equitable, resilient, and climate ready O'ahu.</p> <p>Stopping the cause of climate change is a global responsibility, but adapting to impacts is a local one. Climate Ready O'ahu is a science-based, community-driven strategy for O'ahu to adapt to the impacts of climate change.</p> <p>Climate Ready O'ahu lays out a detailed list of strategies, policies, and actions that the City can take, alongside individual, community, state and federal actions, to prepare, protect, and safeguard community members, 'āina, and infrastructure from climate hazards today and for generations to come.</p>	
10:00 a.m.	Break			
10:15 a.m. (45 min)	Presentation	One Water Honolulu's Collaboration Framework Wendy Broley and Lenise Marrero Brown and Caldwell	<p>The One Water approach focuses on collaboration strategies for stormwater, wastewater, groundwater, freshwater, and recycled water as one integrated system supporting the community and environment. One Water Honolulu integrates responsibilities across a broad range of partners to tackle climate change impacts collaboratively.</p> <p>As part of the One Water Honolulu Plan, the City embarked on the development of a trailblazing Collaboration Framework to provide a clear and effective process of who should be working together and how to build resilience into the ongoing and planned projects, programs, and policies related to water management. The Collaboration Framework is an adaptable process for working together to advance a shared vision. It provides guidance to sustain collaboration by aligning actions and decisions.</p>	
11:00 a.m. (45 min)	Presentation	A Climate Adaptation Approach to One Water Honolulu's CIP Rachel Duncan Carollo Engineers Tess Sprague Brown and Caldwell	<p>The One Water Honolulu Plan will develop a climate resilient CIP that will help shape the development of infrastructure across water, wastewater, and stormwater systems while working to support, steward, and protect our communities and natural environment. The approach to create this CIP includes both a Collaboration Framework and a Climate Change Adaptation Framework.</p> <p>The focus of this presentation will primarily be on the building blocks of the Climate Change Adaptation Framework. These include: a detailed risk screening and vulnerabilities mapping process to identify climate hotspots using the most recent hazard mapping for sea level rise, hurricanes, precipitation-based flooding, extreme heat, drought, and wildfires; a review and analysis of known concerns by region for each of O'ahu's planning districts; development of potential adaptation strategies; and development of potential prioritization criteria. The presentation will also include how this effort works toward CIP project development and the identification of potential triggers that influence project phasing. The above is an ongoing effort and content presented will focus on sharing and communicating the process for implementing this framework, some preliminary results, and the overall approach for how this supports the development of a climate resilient and adaptive CIP across the City and County of Honolulu.</p>	

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Date/Time		Activity					
12:00 noon	Lunch						
Wed Oct. 15 PM	Breakout Session 1, Kalona Ballroom			Breakout Session 2, Ka'ala Ballroom II-III		Breakout Session 3, Ka'ala Ballroom III-IV	
	Projects Track			Operations/Systems Track		Consultant/Vendor/Agency Track	
1:30 p.m.	Presentation	<p>Who Picked This Site Anyway? Kalaheoa Seawater Desalination Challenges and Progress *</p> <p>Barry Usagawa BWS Water Resources</p>	<p>BWS issued a fixed price DBOM contract to Kalaheoa Desalco LLC in July 2023 to provide 1.7 mgd, expandable to 5 mgd of freshwater to the Campbell Industrial Park water system. The project is in the design development and permitting phase with construction targeted in early 2026. This presentation will disclose design concepts and challenges in troubleshooting unforeseen risks involving environmental, archaeological sites, critical biological habitat, regulation, aquifer hydraulic separation, and Federal land conveyance & funding requirements.</p>	<p>BMPs Suck* -- Handling Runoff During Main Break Repairs *</p> <p>Jordan Kurahara BWS Field Operations Blake Gammel and Rich Konkler Tru-Vac, International Trucks of Hawaii</p>	<p>Best Management Practices are an essential component in the protection of our environment and receiving waters. In this presentation, BWS Field Operations Division will highlight several techniques and methods they utilize throughout the main repair process to minimize the environmental impacts resulting from repairs; specifically focusing on use of vacuum trucks in minimizing or removing runoff.</p>	<p>BWS Initiatives to Conserve and Potentially Utilize Existing Assets *</p> <p>Charles Jury and Francis Cheng Okahara & Assoc.</p>	<p>This presentation will talk about a couple of active BWS projects aimed to support water conservation efforts and the potential utilization of existing assets. We will discuss project approach, some of the challenges, and preliminary findings.</p> <p>Calibration of source meters to identify and reduce water loss: BWS's water loss percentage has been slowly increasing over the last decade, from approximately 10% to 15%. Most of the customer meter MXU's have been replaced providing accurate AMR reads and BWS Field Operations Leak Detection Team has been steadily fixing leaks with the satellite leak detection system. BWS's source meters are now being assessed and calibrated for accuracy. Using an AWWMA meter calibration method and a prioritized list of BWS meters at source and line booster stations, ultrasonic meters are used for calibration.</p> <p>Existing Water Well Assessments Drilling new source wells can take nearly a decade to complete. Several projects are underway to assess the condition of existing water wells and to evaluate their viability to be converted into a production well. We will explore some of these efforts and the approach used to assess these sites.</p>
2:00 p.m.	Presentation	<p>Regulatory and Enhanced Water Quality Pilot, Kalaheoa Seawater Desalination *</p> <p>Dawn Halpern Kalaheoa Desalco, LLC</p>	<p>This presentation provides an overview of the Seawater Reverse Osmosis (SWRO) pilot study conducted to support the development of a new, sustainable potable water source for the community. The project included extensive customer outreach to engage and inform stakeholders on the benefits and reliability of the proposed water supply. Key components of the pilot included validation of the existing seawater wells to confirm their suitability as a source, and performance verification of the full-scale RO facility design. The pilot focused on demonstrating the design and operating parameters under real-world conditions and optimization of proposed treatment processes. Comprehensive water quality analyses were performed to characterize the source water as well as the RO permeate and post-treated water, ensuring a reasonable match to the community's existing potable water standards. A corrosion study was also conducted to confirm that the final product water will be compatible with the existing BWS distribution system materials and infrastructure. The pilot data and findings provided invaluable data and resulted in validation for the full-scale implementation, confirming the new water source is a safe, reliable, and sustainable for long-term use.</p>	<p>On-Site Gray Water Reuse Applications and Benefits for New Residential Developments **</p> <p>Alana Kobayashi-Pakkala Kobayashi Group Randy Hiraki Commercial Plumbing</p>	<p>Kulei and Alia are two Kobayashi residential developments where innovative gray water reuse is being implemented as part of a forward thinking sustainability strategy to reduce potable water demand and wastewater generation for toilet flushing and cooling towers in chilled water air conditioning.</p> <p>Insights into the sustainability advocacy, regulatory coordination and design will be presented.</p>	<p>The Hawai'i Water Plan Framework Update</p> <p>Alyssandra V. Rousseve State Commission on Water Resource Management</p>	<p>This presentation provides an overview of the Framework for the Hawaii Water Plan (HWP). The HWP is the guide for developing and implementing a comprehensive water resource planning program and includes the Water Resource Protection Plan (WRPP), Water Quality Plan (WQP), State Water Projects Plan (SWPP), Agricultural Water Use and Development Plan (AWUDP), and county Water Use and Development Plans (WUDP) (HRS §174C-2(b)). CWRM is currently revising the Framework document to improve the integration of component plans, ensure up-to-date data is incorporated into the planning process, and to overall increase the HWP's utility as a decision-making tool for water and land planning throughout the State. Key drivers behind the Framework update include a desire to reflect the importance of climate change, public trust obligations, Native Hawaiian water rights, and the need to improve inter-agency and community coordination during the planning process.</p>
2:30 p.m.	Presentation	<p>Kalaheoa Aquifer Test Plan Approach and Preliminary Findings for the Determination of Hydraulic Separation of Layered Geologic Formations *</p> <p>Kevin Gooding INTERA</p>	<p>The Honolulu Board of Water Supply (BWS) is building a saltwater desalination facility in Kalaheoa, O'ahu, Hawaii designed to pump 4.3 million gallons per day (mgd) of seawater-quality feed water from the deep (>1000 feet below ground surface(bgs)) basalt aquifer, treat the seawater to produce 1.7 mgd of potable water, then dispose of 2.6 mgd of brine concentrate by injection into the overlying caprock aquifer at a depth of about 300 ft bgs. The site is adjacent to Campbell Industrial Park and even though the producing zone is separated from the overlying activities by over 1000 vertical feet of caprock, the BWS is taking a conservative approach and wants to test for the potential for contamination of the deep production wells from industrial activities.</p> <p>In response to these concerns BWS, the BWS advisory team and INTERA prepared a workplan to test the hypothesis that the caprock provides adequate separation between the overlying industrial activities and the producing saltwater aquifer. The path from the workplan to implementation to preliminary conclusions has been a challenge with bumpy, exciting and interesting parts. The workplan includes 1) high-capacity testing of three wells while monitoring several water level wells, 2) sampling for an extensive list of analytes; 3) ocean sampling and 4) downhole geophysics. During the initial water level study, we found that one of the wells was damaged, so we had to quickly design, permit and repair the well before the workplan was implemented. The data is coming in now and we will present some of the results of our study.</p>	<p>Water Sensible: Everyday Choices, Lasting Impact</p> <p>Lorna Heller BWS Water Conservation Daniel Chen Honeywell</p>	<p>The Honolulu Board of Water Supply (BWS) completed its Water Conservation Program Plan (WCP) in 2011 to drive economic, resource, and social sustainability on O'ahu. The plan is one facet of a multi-pronged effort to ensure future water supplies via a significantly less costly mechanism as opposed to building additional water supplies including desalination.</p> <p>BWS is expanding efforts with Honeywell International, Inc.'s Smart Energy team in Honolulu to implement some of the recommended measures in the WCP through the Water Sensible Program. The incentive program is designed to incentivize water efficiency and lower customer water bills.</p> <p>The presentation will explore the Water Sensible Program and other future water conservation initiatives that allow BWS to preserve and protect our most essential resource - OUR WATER.</p>	<p>Backflow Prevention Programs *</p> <p>Mitch Lebas Backflow Preventions Services, LLC Sponsored by DOH Safe Drinking Water Branch</p>	<p>The Hawai'i Department of Health, through state rules and regulations, requires water systems to develop and implement cross-connection control and backflow prevention programs. While these rules and regulations are very general in regards to specific tasks water system must accomplish to achieve compliance, water system managers should recognize that their systems are at risk of contamination due to a backflow incident and the liability associated with not having an adequate backflow prevention program.</p>
3:00 p.m.	Break						

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3:30 p.m.	<p>Integrating Climate Change Topics into the Primary Urban Center Development Plan</p> <p>Noelle Cole Dept. of Planning & Permitting</p>	<p>The updated Primary Urban Center Development Plan (PUC DP, 2025) is the first of the Honolulu Department of Planning and Permitting's long-range development plans to include a substantial focus on climate change planning in its framework. A white paper produced by a team from UH Sea Grant for background research, led to the development of a new Plan chapter on Sea Level Rise and Coastal Hazards Planning. The PUC DP also includes a Water Resources chapter to better reflect the alignment of the Development Plans, the Board of Water Supply's Watershed Management Plans, and the City's One Water policies.</p>	<p>Pipe Dreams: Optimizing Pipeline Rehab and Replacement *</p> <p>Isaac Hayashi BWS Water Systems Planning</p> <p>Tony Shing BWS Technical Engineering Projects</p>	<p>Water main infrastructure is a critical component of urban water systems. However, the aging nature of these systems poses significant challenges, including increased risk of failures and costs. Traditional methods of capital planning rely heavily on historical data and expert judgment, which may not adequately capture the complexities of the underlying risk factors.</p> <p>The presentation will outline the comprehensive CP workflow from planning through construction, emphasizing the importance of asset management and the utilization of a risk model to prioritize pipeline rehabilitation and replacement.</p> <p>The presentation will demonstrate how data analysis including statistical and machine learning based approaches can be employed to analyze vast datasets, including historical break records, pipe descriptions, and other relevant information, to predict future failures and optimize maintenance strategies. By focusing on the most at-risk pipes, data backed modeling enables more targeted interventions to replace the pipes with the highest likelihood and consequence of failing.</p>	<p>Leveraging AMI, AI, and Operational Dashboards to Reduce Field Work and Operating Expenses in Water Utilities *</p> <p>Joseph Rogers Xylem</p>	<p>Advanced Metering Infrastructure (AMI) continues to transform water utility operations by enabling real-time data collection, reducing manual fieldwork, and lowering operational expenses. Through Sensus FlexNet® AMI system, utilities gain a scalable, long-range communication network that supports two-way communication with endpoints for water, gas, and electric meters.</p> <p>One of the most impactful benefits of AMI is the ability to remotely monitor, analyze, and act on system conditions without dispatching field personnel. Combined with high-resolution telemetry, utilities can preemptively identify leaks, pressure drops, or overpressure conditions, significantly reducing system stress and water loss.</p> <p>Operational dashboards within the Xylem Data Lake (XDL) provide utilities the ability to monitor and analyze water consumption patterns in near-real-time. These insights—enhanced through AI-driven analysis and intelligent alerting—are surfaced via configurable thresholds and usage trend graphs that allow utilities to rapidly prioritize service calls or notify customers before water loss becomes substantial.</p> <p>In a practical case, utilities have also used XDL dashboards to track pressure alarms by zone, then correlate those trends with valve operations or construction activities, eliminating the need for on-site inspections.</p> <p>Together, AMI, AI, and operational analytics empower utilities to move from reactive maintenance to proactive management, conserving resources, reducing truck rolls, and enhancing customer satisfaction. As Hawaii faces both unique topographic challenges and increasing climate-related stresses, adopting such digital strategies is essential to building a resilient, efficient water network.</p>
4:00 p.m.	<p>One Water Honolulu Climate Change Adaptation Panel</p> <p>Facilitator: Christin Reynolds</p> <p>Panelists: Barry Usagawa BWS Water Resources</p> <p>Alex Yee Climate Change, Sustainability and Resiliency</p> <p>Noelle Cole Dept. Planning & Permitting</p> <p>Wendy Broley and Tess Sprague Brown & Caldwell</p>	<p>Most climate impacts involve water, too much or too little of it... One Water is an integrated water resource management strategy that considers the water cycle as an integrated system recognizing the interconnectedness of freshwater, stormwater, wastewater, recycled water, and seawater. In 2020, The City and County of Honolulu enacted Ordinance 20-47 to create a One Water climate adaptation policy that will proactively adapt to climate disruption, inform community planning, improve infrastructure resilience and mitigate damages and costs. The One Water Panel convenes directors and divisions of eight City departments to coordinate a unified response to the myriad challenges that face public water infrastructure in the age of climate change. One Water Honolulu provides a platform to share learning and collaborate across City agencies to capture synergies and efficiencies that would not be apparent otherwise.</p> <p>Listen to a panel discussion around local and national One Water perspectives, the latest progress and what's ahead.</p>	<p>Cybersecurity Trends and Mitigations for the Water Sector *</p> <p>Scott Wong BWS IT Cybersecurity Office</p>	<p>The water system sector is a critical component of national infrastructure, providing essential services that sustain public health, economic stability, and environmental safety. As digital transformation accelerates across utilities, the sector faces growing cybersecurity risk from non-state actors, criminal groups, and insider threats. In this session, Scott Wong from the Honolulu Board of Water Supply will provide an overview into cybersecurity trends and mitigations for the water sector.</p> <p>The Drinking Water State Revolving Fund (DWSRF) is an important funding source that offers zero- or low-interest loans for drinking water capital improvement projects. Understanding program requirements such as American Iron and Steel (AIS) and Build America Buy America (BABA) is key to navigating the application process and benefiting from this funding assistance. These loans also require compliance with various cross-cutter federal requirements, including historical and endangered species. This presentation will provide updates on the federal grants to the DWSRF program, as well as reflections on recent DWSRF projects. DWSRF continues to evaluate priorities on the highest project needs. What might Hawaii's drinking water system capital improvement needs be in the next 5, 10, 30 or even 100 years?</p>	<p>Understanding System Pressure and Leak Detection for Non-Revenue Water Loss Reduction *</p> <p>Kevin Barnes Fluid Conservation Systems</p>	<p>Controlling and regulating the pressure in the water distribution network saves resources and reduces the level of non-revenue water (NRFW) loss. Pressure management is one of the most beneficial and cost-effective leakage management activities that can have an immediate impact. Knowing what the pressure is doing dynamically throughout your system can overnight reduce the water loss through leaks that you have not yet been able to detect and repair. In short, a reduction in pressure by a few PSI at the right times can mean less water being pushed through the holes, reduction in how much water is being treated/distributed, less chemical cost, less energy cost, and increased infrastructure longevity. Modulating pressure at your pressure-reducing valve (PRV) in one of three ways can save water loss, improve distribution network infrastructure, and even a cost reduction for the operational effectiveness of the water system.</p> <p>Pairing this with active acoustic leak detection and you have a multiplying affect on your non-revenue water loss for your system. The reduction in water loss can be greatly accounted for and help to justify being proactive versus reactive.</p> <p>Systematic assessment of pumping and treatment facilities is both labor- and data-intensive. This presentation explores strategies to streamline data collection and manage information digitally throughout all phases of a condition assessment project. The approach supports capital improvement planning by evaluating mechanical, electrical, instrumentation and control, and emergency power assets.</p> <p>A key innovation was the implementation of a fully digital workflow—from mobile field data collection to real-time cloud-based transmission and centralized analysis. Standardized assessment metrics were developed to evaluate asset condition, performance, reliability, and obsolescence. These metrics enabled calculation of the Asset Health Index (AHI), Likelihood of Failure (LoF), and Remaining Service Life, which guided the prioritization of rehabilitation and replacement projects.</p> <p>A major success of the project was the creation of a Microsoft Power BI dashboard that visualized assessment data, analytical results, and project recommendations. This interactive platform allows users to explore system health, asset-level insights, and investment planning across the full planning horizon.</p> <p>The presentation will highlight the methodology, digital tools, and visualization strategies used in the project, demonstrating how data-driven asset management enhances decision-making, transparency, and long-term infrastructure reliability.</p>
5:00 - 8:30 p.m. Until 10 pm	Meet and greet					

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Date/Time	Activity							
12 Noon	Lunch							
Thurs Oct. 16, PM	Breakout Session 4, Kaiona Ballroom			Breakout Session 5, Ka'ala Ballroom I-II			Breakout Session 6, Ka'ala Ballroom III-IV	
	Regulatory Track			Planning Track			Communications Track	
1:30 p.m.	Presentation	CWRM Goals and Major Projects Ciara Kahahane State Commission on Water Resource Management	CWRM Goals and Major Projects over the next 2 years	Wildfire Modeling and Emergency Response Plan Coordination on Oahu Michael Cubas CDM Smith	Conflagration is no longer just a phrase or scholastic term—it's an increasingly measurable threat reshaping firefighting response and infrastructure resilience. This presentation explores advanced wildfire risk modeling, which integrates baseline weather scenarios with extreme models representing the 99th percentile of fire-inducing conditions. By combining terrain, vegetation, climate, and infrastructure proximity with extreme heat, directional winds, fuel moisture, and relative humidity, these models expose heightened facility vulnerabilities. The extreme models also determines extents for Urban Conflagration, where fires leap from structure to structure beyond wildland fuels. We examine how intensified fire behavior, extended ember travel zones, and diminished suppression capabilities converge and threaten water systems. The research underscores the need for proactive mitigation: hardening assets, retrofitting infrastructure and enhancing emergency coordination.	Presentation	From Supervisors to Leaders: Empowering the Frontline for Tomorrow's Challenges * Michele Rodriguez-Flores Ridgecresta Inc.	As a wave of retirements reshapes the workforce landscape, organizations face a critical question: how do we prepare the next generation of leaders starting at the frontline? This session explores a strategic approach to developing frontline supervisors into empowered, forward-thinking leaders. Attendees will walk through the essential steps to align workforce training with long-term organizational goals, ensuring readiness for tomorrow's challenges. Through practical insights and proven frameworks, this presentation will highlight the cornerstones of effective leadership development—fostering growth, resilience, and adaptability at the supervisory level. Whether you're building a new training program or refining an existing one, this session offers actionable guidance to elevate your frontline talent and secure your leadership pipeline. Drawing inspiration from the One Water philosophy, we'll examine how leadership, like water, flows through every part of an organization—linking people, processes, and purpose. Participants will gain practical strategies for cultivating leadership capacity at the frontline, aligning development efforts with organizational values, and creating a ripple effect of positive change. Join us to discover how investing in your supervisors today can ensure a resilient, unified workforce for tomorrow.
2:00 p.m.	Presentation	State and PWS Perspectives on PFAS Rules and CCR Revisions* Zhaohui Wang DOH Safe Drinking Water Branch	On April 10, 2024, the EPA announced the final National Primary Drinking Water Regulation (NPDWR) for six PFAS. This was followed by the release of the final Consumer Confidence Report (CCR) Rule Revisions on May 15, 2024. Most recently, on May 14, 2025, the EPA confirmed that it will maintain the current NPDWR for PFOA and PFOS. This presentation will provide a comprehensive overview of the PFAS regulatory changes and summarize the current monitoring and compliance status of the majority of Public Water Systems (PWSs). It will also discuss the implications of the CCR Rule Revisions. Finally, it will offer practical guidance on the steps PWSs should take to prepare for implementation of these new requirements.	Presentation	Granular Activated Carbon Reactivation Facility * Jay Stone Bowers & Kubota	Presentation	Communicating Complicated Analyses to Utility Leaders and the Public Glenn Barnes of Water Financing Assistance	Utilities generate complicated analyses such as water audits, asset management plans, risk-resilience assessments, rate studies and others to gather the information needed to make smart policy decisions that will sustain operations for years to come. These analyses, however, are only helpful if community leaders and the public at large understand the results. Spreadsheets and data tables rarely move hearts and minds. The results have to be "translated" into stories. Attendees will learn how to identify the most compelling story from the analysis, tell that story into plain language that would be understood by a non-technical audience, focus on aspects of the analysis that will resonate with utility leaders and the public, and create effective visuals to emphasize key findings.
2:30 p.m.	Presentation	Adjusting Sewer Rates to Support Affordability and Water Conservation while also meeting Revenue Requirements. Roger Babcock Dept. Environmental Services Dave Ebersold CDM Smith	The Honolulu Department of Environmental Services (ENV) is facing several challenges, including compliance with known upcoming permit requirements, potential new regulations on PFAS and microplastics, addressing climate change and sea level rise, upgrading aging infrastructure, managing workforce shortages, addressing cesspools, and completing costly upgrades for a 2010 consent decree. The consent decree, involves three phases, with Phase 3—Sand Island WWTP upgrades to be completed by 2035—being the most expensive at \$2.3 billion. Meeting these challenges requires significant increases in ENV revenues, which are solely derived from sewer charges to its customers. In June 2025, the Honolulu City Council approved a 7-year package of sewer fee increases that involve significant changes to the rate structure. The purpose of these changes is to facilitate equity and affordability by giving customers greater control over their sewer bill, encourage water conservation, and complement the Board of Water Supply's tiered water rate structure. This presentation will summarize the specific drivers of the revenue requirement, review the various rate options considered and their impact on customer bills, summarize stakeholder advisory group input regarding required rate changes, and describe the final result as adopted by the City Council, including sample sewer bills. We will also present affordability metrics for Honolulu in comparison to other major cities. Lastly, we will present the results of BWS's recently completed price elasticity evaluation and consider how the alignment of water and sewer rate structures may influence future water use behavior by customers	Presentation	Ha'ikū Tunnel Bulkhead Study, a Groundwater Storage and Stream Restoration Evaluation * Nancy Matsumoto BWS Hydrology-Geology Charles Luford Brierley Assoc.	Presentations	Educational and Participatory Communications Arthur Ali, Sheri Mikami and Michele Harman BWS Communications Office Ani Turner Kaua'i DWS	Education is a cornerstone of outreach efforts by water utility Communications teams. Often they focus on specific audiences, such as students and tour groups, gardening beginners to enthusiasts, and organizations focused on watershed stewardship, in order to make lasting impacts on behavioral change. In this session, representatives from the Honolulu Board of Water Supply and the Department of Water on Kaua'i will highlight best practices in their educational programs and the impact of their efforts on everything from demonstration facilities, current community and interagency partnerships to tackle invasive species, and building on watershed partnership outreach.
3:00 p.m.	Break			Break		Break		

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3:30 p.m.	Presentation	<p>Pure Water Hawai'i, Guidelines for Potable Reuse</p> <p>Andy Salveson and Mike Miyahira Carollo Engineers</p>	Presentation	<p>Nu'uano Hydro-Managed Aquifer Recovery, a Stormwater Capture, Treatment, Energy Recovery and Aquifer Recharge Solution for a Climate Change Future **</p> <p>Judy Nishimoto CDM Smith</p>	<p>Climate change poses increasing threats to freshwater availability in Hawai'i, necessitating innovative and sustainable water management strategies. This project explores the historical and future significance of Nuuanu Reservoir, once a primary source of drinking water for Honolulu, as a key component in climate-resilient water infrastructure. By leveraging the Nuuanu Reservoir and surrounding valley for managed aquifer recharge (MAR), this initiative aims to restore its hydrological function and enhance groundwater sustainability. The unique geology of Nuuanu Valley—characterized by permeable basalt formations and natural infiltration pathways—makes it an ideal site for groundwater replenishment. This approach not only supports long-term water security but also contributes to ecological restoration and community resilience in the face of climate variability.</p>	Presentations	<p>Hawai'i's Watershed Partnerships, Protecting our Water Source in Maui's Forests</p> <p>Amy Tsueyoshi BWS Hydrology-Geology</p> <p>Yumi Kam Waianae Mountain Watershed Partnership</p>	<p>Our forests are essential for water security. For over 25 years, the coordinators of these partnerships and their dedicated staff have been working with their diverse partners – including the county water supplies – to protect, maintain and restore our native watershed forests.</p> <p>This presentation will provide an overview of the Watershed Partnership model, and the types of management actions required to protect and maintain our maui native forests that are so essential to our State's water supply and the community and stakeholder outreach necessary to implement those actions.</p>
4:00 p.m.	Presentation	<p>PFAS Challenges for a Small Public Water System *</p> <p>Judy Hayducsko and Ann Kam DOH Safe Drinking Water Branch</p>	Presentation	<p>State of Hawai'i Water Audit Program an Overview *</p> <p>Nicholas Ing Commission on Water Resource Management</p>	<p>In 2016, Act 168, Session Laws of Hawai'i was signed into law and established the Hawai'i water audit program which requires affected public water systems (PWS) to submit Level 1 validated American Water Works Association (AWWA) Water Loss Audits to the Commission on Water Resource Management (Commission) on an annual basis. In 2020 AWWA released an updated FWAS v6.0, which provides a new interactive data validity grading matrix and a dashboard for data validity and Key Performance Indicators (KPI) benchmarking.</p> <p>This presentation will discuss the Commission's WAWE program, annual water audits, ver.6 training, and may touch upon the water meter testing program that is being planned this year as a part of the annual water audit program outcomes.</p>		<p>Panel: Adapting Communications for Optimal Impact Despite Increasing Polarizing Community, Political, and Social Perceptions</p> <p>Moderator: Kathleen Elliott-Pahulu</p> <p>Steven Norstrom and Stella Bernardo BWS Communications Office</p> <p>Kawika Uyebara Hawaii DWS</p> <p>Adam Mundy Maui DWS</p> <p>Ani Turner Kauai DWS.</p>	<p>In a world inundated with information and views in all sorts of forms, advancing technology, and those looking to use that chaos to their advantage, it can be difficult to figure out what you can trust and believe.</p> <p>In this panel, water industry and communicators will share their perspectives on the impact of increasing polarizing community, political and social perceptions and the impact of technology on how they approach public outreach, especially when it comes to core messaging such as water conservation, water resource protection, and long-term planning or infrastructure investments.</p>
4:30 p.m.	Presentation	<p>GAC vs IX for PFAS Treatment *</p> <p>Kevin Lavery Carbon Supply, Inc.</p>	Presentation	<p>East Honolulu Watershed Management Plan, a Holistic Ahupua'a and Community Based Water Management Plan *</p> <p>Melissa May Hailey Aldrich</p> <p>Barry Usagawa BWS</p>	<p>The BWS watershed management planning framework incorporates innovative components including climate change, Native Hawaiian cultural values, and a long-range water demand forecast that considers impacts from sea level rise and climate change. This framework has been referenced as setting a standard for the development of water plans statewide. The East Honolulu Watershed Management Plan (EHWMP) is BWS' most recent watershed management plan. It was adopted with unanimous support from the City Council and testimony from area neighborhood boards, and received the 2025 Outstanding Planning Award from APA Hawai'i. The EHWMP incorporates innovative approaches to addressing threats like sea level rise, increased storms, and changing rainfall patterns. It utilizes current scientific projections and policies to guide adaptive management, emphasizing infrastructure resilience and ecosystem-based solutions. A key feature is its forward-looking, risk-based approach that evaluates and explores rainfall projections ranging from significant decreases to increases highlighting the uncertainty of future hydrologic conditions. This encourages conservation and flexible water management strategies to ensure a secure future water supply regardless of climate outcomes. The plan promotes resilience by supporting infrastructure upgrades, shoreline protections, and buffer zones, along with restoring native marshes and wetlands. These comprehensive, science-driven strategies are being incorporated into all of BWS' watershed management plans, providing a proactive framework for adapting to climate change and safeguarding Hawai'i's watersheds and communities for the future.</p>	Panel		
5:00 p.m.-9:00 p.m. Until 10 pm	Thompson Award Banquet Hospitality Room							

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Oct. 17 2025			
7:30 a.m. - 9:00 a.m. Continental breakfast			
	Announcements	General Session 3 Kaiona Ballroom	Business Track
8:00 a.m. (45 min)	Presentation	Local Forecasts and Analysis of Economic, Demographic, and Business Trends in Hawaii. Deteriorating US outlook weighs on Hawai'i prospects. Dr. Steven Bond-Smith UHERO	Rising and uncertain import tariffs, sweeping federal layoffs, and new fiscal and immigration policies are undermining consumer confidence, raising inflation expectations, and worsening the business outlook—both nationally and in Hawai'i's visitor-dependent economy. Tourism weakened sharply over the summer, with declines across domestic and international markets, while payroll job growth has stalled. Inflation will pick up as tariffs filter through to consumer prices, and only construction remains a source of near-term strength in Hawai'i. The result is a projected mild recession over the next year, while longer-term structural trends suggest Hawai'i will remain locked into a trajectory of low growth.
8:45 a.m. (45 min)	Presentation	Our Kuleana: Leveling Up in Water Advocacy Ann Miyahira Hajnosz Harris & Associates	The water industry is facing significant challenges - rapidly aging infrastructure; climate impacts; dwindling staff resources; continued regulatory pressure - all adding up to continued affordability challenges for ratepayers and communities. This presentation will suggest ways to "level up" our thinking and communications around water, with the goal of everyone coming away with one new idea and/or one act that they can implement to increase their water advocacy. It will also provide background on the specific financial challenges facing water utilities today and how water advocacy plays a direct role in the financial sustainability of an agency.
9:30 a.m. (45 min)	Panel Discussion	Manager's Roundtable: Ernest Lau Honolulu BWS Keith Okamoto Hawaii DWS John Shufflebean Maui DWS Joe Tait Kauai DWS	Conference Issues of Note. Action Items Moving Forward
* Course has been approved for Drinking Water Operator CEUs.			
** Course has been considered for Wastewater Operator CEUs. All CEUs are pending Board of Certification approval.			
10:00 a.m.and 11:30 am	Field Trips	Watershed Field Trip 10 am Bento Lunch	Kapolei Golf Tournament Check-in 10:30 am, Shotgun 11:30 am Bento Lunch