



Onsite Water Reuse Summit
***Integration of Science, Policy, and Operation for Safe
and Effective Implementation***
April 10-11, 2024

**U.S. EPA Headquarters William Jefferson Clinton East Building
1201 Constitution Avenue, Washington, D.C.**

April 10, 2024

- 8:30-8:45 **Welcome Remarks** – Mae Wu (Deputy Assistant Administrator for U.S. EPA Office of Water), introduced by Deborah Nagle (Office Director for Office of Science and Technology, U.S. EPA Office of Water)
- 8:50-9:55 ***Ensuring Safe Implementation***
Moderator: Brian Good, Denver Water
- National Water Reuse Action Plan Update - Dr. Sharon Nappier, U.S. EPA
 - Overview and Accomplishments of the National Blue Ribbon Commission for Onsite Non-potable Water Systems (NBRC) - Paula Kehoe, San Francisco Public Utilities Commission (SFPUC)
 - 2017 Health Risk Based Framework - Dr. Sybil Sharvelle, Colorado State University
 - Updates to Health Risk-based Frameworks and State of Science QMRA - Dr. Michael Jahne, U.S. EPA
- 10:00 – 10:35 ***Implementing Policies and Programs***
Moderator: Tressa Nicholas, Idaho Department of Environmental Quality
- Colorado Regulations - Emily Wong, Colorado Department of Public Health and Environment
 - San Francisco and Proposed California Regulations - Taylor Nokhoudian, SFPUC
 - Proposed Washington Regulations - Steve Deem, Washington State Department of Health

- New York City Department of Environmental Protection Program - Alan Cohn, NYC DEP

10:35-10:50 **Break**

10:50-12:00 ***Conducting Research to Advance Onsite Water Recycling***

Moderator: Justin Mattingly, U.S. EPA

- Integrated Onsite NPR Modeling: Risk Tradeoffs and Updates to EPA's NEWR Calculator - Dr. Cissy Ma, U.S. EPA
- Development of Log Reduction Values for Onsite NPR Wetlands and Other Treatment Systems - Dr. Sam Arden, ERG
- LCCA on Water Reuse for Resilient Buildings - Dr. Andy Hur, USACE ERDC
- Conducting Research for Onsite Water Recycling - Dr. Harry Zhang, Water Research Foundation (WRF)
- State of the Science on Stormwater Microbial Quality and Treatment Requirements - Dr. Sybil Sharvelle, CSU
- Operator Certificate Program - Katherine Jashinski, City of Austin
- Single Family Water Reuse Applications - Paula Kehoe, SFPUC

12:00-1:10 **Lunch On Your Own**

1:10-1:30 **Reenter EPA Building and Go Through Security**

1:30-2:30 ***Deploying Onsite Treatment Systems and Lessons Learned Part 1***

Moderator: Taylor Nokhoudian, SFPUC

Implementing in San Francisco and Washington D.C.

- SF Permitting Program and Lessons Learned - Doug Obana, San Francisco Department of Public Health
- Steve Panelli, San Francisco Department of Building Inspection
- Stormwater Reuse Guidelines and Permitting - Julienne Bautista, DC Department of Energy & Environment
- Treating Water Onsite at DC Water Headquarters - Robert Bornhofen, DC Water

2:35-3:40 ***Financing ONWS***

- Assessing Costs of Onsite Water Treatment Systems - Katherine Jashinski, City of Austin
- Net Zero Water Toolkit - Sharlene Leurig, Texas Water Trade

- District-Scale Implementation and Costs - Bryce Wilson, Lotus Water
- Federal Funding Opportunities - Alison Souders, U.S. EPA
- Opportunities for Affordable Housing and Equity - Jennifer Walker, National Wildlife Federation

3:45-4:30 ***Polling: What Else is Needed to Scale Up Onsite Water Treatment Systems?***

4:30 **Meeting Adjourn**

5:00 **Optional Happy Hour at Astro Beer Hall** (12 min walk)
1306 G St NW, Washington, DC
Sponsored by WateReuse Association

April 11, 2024

8:30-8:40 **Welcome to Day 2** – Remarks from Bart Weiss, WaterReuse Association President

8:40-9:15 ***Aligning Plumbing Codes and Standards***

Moderator: Bill Platten, U.S. EPA

- International Code Council (ICC) - Rich Anderson
- International Association of Plumbing & Mechanical Officials (IAPMO) - Christopher A. Lindsay
- American Rainwater Catchment System Association (ARCSA) - Benjamin Sojka
- National Sanitation Foundation (NSF) - Derek Deland
- General Services Agency (GSA) - Lance Davis

9:20-9:35 **Remarks from David M. Turk**, Deputy Secretary, U.S. Department of Energy, introduced by Tanya Mottley (Deputy Director for Office of Science and Technology, U.S. EPA Office of Water)

9:40-11:15 ***Deploying Onsite Treatment Systems and Lessons Learned Part 2***
Moderator: Dr. Jay Garland, U.S. EPA

Learning from Designers and Operators

- Biohabitats - Erin English
- Trussell Technologies - Dr. Brian Pecson
- Sherwood Engineers - Jeannette Laramée
- Ecoviv Water Management - Robert Drew
- Cambrian Innovation - Matt Silver
- Aquacell - Ben Arnold
- NSU - Zach Gallagher
- Epic Cleantec - Aaron Tartakovsky

11:15-11:30 **Break**

11:30-12:15 ***Advancing Beyond Non-potable Reuse***

- Advancing Equitable and Circular Water Solutions Through Source Separation - Dr. Miriam Hacker, WRF
- Rainwater for Potable Use - Anthony Creech, Virginia Public Health
- Producing Purified Water at SFPUC headquarters - Dr. Brian Pecson, Trussell Technologies

- 12:15-1:25 **Lunch On Your Own**
- 1:25-1:45 **Reenter EPA Building and Go Through Security**
- 1:45-2:30 ***Addressing Off the Grid***
Moderator: Alex Fairhart, Personal Water Systems
- Research and Development of Deployable Water Reuse Systems for Military Applications - Dr. Martin Page, USACE ERDC
 - NEWgenerator Resource Recovery Machine for Non-Sewered Sanitation and Onsite Water Recycling - Dr. Daniel H. Yeh, University of South Florida
 - Transforming Sanitation to Combat the Global Water Crisis - How will next generation off-grid sanitation technologies contribute to climate resilience? - Dr. Doulaye Kone, Gates Foundation
- 2:35-3:40 ***Visioning for the Future***
Moderator: Paula Kehoe, SFPUC
- Redefining Demand Management: Circular Water Solutions for a Climate-Resilient Future - Dr. Newsha Ajami, Lawrence Berkeley National Lab
 - The Water Washing Machine: Taking Onsite Water Reuse Product Inspiration from the Appliance, Automotive and HVAC Industries - Dr. Peter Fiske, National Alliance for Water Innovation
 - Our Onsite Water Future - Dr. David Sedlak, UC Berkeley
- 3:40-4:10 ***Reflecting on the Summit***
Dr. Jay Garland, U.S. EPA
- 4:30 **Summit Concludes**