



17th Annual EPA Drinking Water Workshop: Small Systems Challenges and Solutions

Virtual Workshop August 31 – September 3, 2020



Sponsored by U.S. Environmental Protection Agency's (EPA) Office of Research and Development (ORD) and Office of Water (OW) in partnership with the Association of State Drinking Water Administrators (ASDWA)

Additional Information and Registration

Pre-Workshop Training Sessions

Monday, August 31, 2020					
11:00 am – 3:00 pm ET	T1. IN-DEPTH TRAINING: Sanitary Surveys–Filtration and Disinfection	T2. IN-DEPTH TRAINING: Corrosion Control Treatment Training	T3. IN-DEPTH TRAINING: Distribution System and Treatment Models		
Trainers:	 Michael Finn, EPA-OW Andrea Traviglia, EPA-Region 1 	 Phil Brandhuber, BWQT Dave Cornwell and Nancy NcTigue, Cornwell Engineering Melinda Friedman, Confluence Engineering Rebecca Slabaugh, Arcadis Stacy Jones, IN DEM Melanie Criswell, CO DPHE 	 Thomas Speth, EPA-ORD Jonathan Burkhardt, EPA-ORD Robert Janke, EPA-ORD Feng Shang, EPA-ORD 		
Description: Breaks will be provided	This training is intended for water professionals, state drinking water program staff, and technical assistance providers that conduct sanitary surveys. This half-day training will focus on evaluating filtration and disinfection technologies, including alternative treatment technologies as part of a sanitary survey. Presentations will include examples from surveys and exercises. There will be opportunities for open discussion among participants, and Q&A with the presenters.	This training will provide an overview of internal corrosion control theory and technologies for drinking water systems, primacy agencies, and consultants to assist them in implementing corrosion control treatment (CCT). An overview of corrosion, including how and under what conditions it occurs; performing CCT assessment; and selecting and implementing the appropriate CCT will be discussed.	This training will include the following models: <u>ETDOT</u> : Information generated from this suite of models will provide states and utilities a better understanding of the fundamentals of carbon adsorption for the removal of contaminants, including PFAS, and what that means to the operation, performance, and costs associated with this technology. <u>EPANET</u> : This open source software application is used throughout the world to model water distribution systems and can be used for many different types of applications in distribution systems analysis. Continued development is occurring under an open source project site.		



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Agenda

Tuesday, September 1, 2020				
11:00 am – 12:00 pm ET	SESSION 1 – OPENING PLENARY Moderators: Thomas Speth and Michelle Latham, EPA-ORD			
11:00 am	Opening and Introductions Gregory Sayles, Director, EPA-ORD/Center for Environmental Solutions and Emergency Response 			
11:05 am	 Keynote Addresses Jennifer Orme-Zavaleta, Principal Deputy Assistant Administrator for Science, EPA-ORD Jennifer McLain, Director, EPA-OW/Office of Ground Water and Drinking Water 			
11:55 am	Workshop Review and Logistics			
12:00 pm ET				
12:30 pm – 2:30 pm ET	SESSION 2A – MONITORING & DISTRIBUTION I: Disinfectants and Disinfection Byproducts (DBPs) Moderator: Alan Roberson, ASDWA	SESSION 2B – SOURCE & TREATMENT I: Per- and Polyfluoroalkyl Substances (PFAS) Moderator: Thomas Speth, EPA-ORD		
12:30 pm	Evaluating Impacts of Sampling Design on Drinking Water Quality Monitoring Program Outcomes Nelson da Luz, University of Massachusetts Amherst	PFAS in the U.S.: Occurrence, Fate, Transport, and Exposure • Susan Glassmeyer, EPA-ORD		
1:00 pm	DBP Compliance Assistance Program in Oklahoma • Candy Thompson, OK DEQ	Be Careful What You Wish for: Finding PFAS in all the Wrong Places		
1:30 pm	Considerations and Challenges for Controlling DBP Risks in Small Systems	Assessment of Full-Scale PFAS Treatment and Design Implications • N. Scott Alderman, NYSDOH		
2:00 pm	Panel Q&A	Panel Q&A		
2:30 pm	Break/Transition			
3:30 pm – 5:30 pm ET	SESSION 3A – MONITORING & DISTRIBUTION II: Pathogens and Disinfection Moderator: Laura Boczek, EPA-ORD	SESSION 3B – SOURCE & TREATMENT II: Source Water Quality and Protection Moderator: Sarah Bradbury, EPA-OW		
3:30 pm	Returning Plumbing to Safe Use After Extended Shutdowns or Low Occupancy: Large Buildings, Standards, Considerations, and Gaps (COVID-19) • Andrew Whelton, Purdue University	Effects of Algicide Exposure on Cyanobacterial Responses to Water Treatment Nicholas Dugan, EPA-ORD		
4:00 pm	Guidance for Monitoring Legionella pneumophila in Drinking Water Distribution Systems Mark LeChevallier, Dr. Water Consulting, LLC	Source Water Protection: Leveraging Resources for Planning and Implementation • Karen Wirth, EPA-OW		
4:30 pm	Characterization of Reported Legionellosis Outbreaks in Drinking Water Systems-United States, 2001-2017 Nicole Tucker, EPA-OW	Developing Source Water Protection Plans Case Study and Leveraging with National Water Quality Initiatives Jessica Montana, IA DNR		
5:00 pm	Panel Q&A	Panel Q&A		
5:30 pm ET	Adjourn			

Wednesday September 2, 2020				
11:00 am – 1:00 pm ET	SESSION 4A – MONITORING & DISTRIBUTION III: Corrosion and Lead Moderator: Darren Lytle, EPA-ORD	SESSION 4B – SOURCE & TREATMENT III: Extremely Small Systems Moderator: Michelle Latham, EPA-ORD		
11:00 am	Updating Corrosion Control Guidance France Lemieux, Health Canada	A Framework for Comparing the Sustainability of Centralized vs. POU/POE Treatment for Small Systems Kaycie Lane, University of Massachusetts Amherst		
11:30 am	Lowering Lead Limits on Faucets and Endpoint Devices: Reducing the Q Criteria in NSF/ANSI/CAN 61 Kathryn Foster, NSF International	Actions to Increase Water Access on the Navajo Nation During COVID-19 Outbreak David Harvey, IHS		
12:00 pm	Lead Service Line Identification and Close Examination of Sequential Profile Data • Valerie Bosscher, EPA-Region 5	SAFER Effort Michelle Frederick, CalEPA-Waterboards 		
12:30 pm	Panel Q&A	Panel Q&A		
1:00 pm ET	Break/Transition			
2:00 pm – 4:00 pm ET	SESSION 5A – MONITORING & DISTRIBUTION IV: Water Quality Changes Moderator: Michael Finn, EPA-OW	SESSION 5B – SOURCE & TREATMENT IV: Contaminant Removal Moderator: Wendi Wilkes, ASDWA		
2:00 pm	Planning for Source Water and Treatment Changes Melinda Friedman, Confluence Engineering 	Biological Treatment and Nitrate Asher Keithley, EPA-ORD		
2:30 pm	Predicting Water Quality in Distribution Systems: Monitoring of Nitrification Using Machine Learning Vicente Gomez-Alvarez, EPA-ORD	Consolidated Management of Nitrate Treatment Chad Seidel, Corona Environmental Consulting		
3:00 pm	Lead Particulate Release	Industry Trends Affecting Drinking Water Treatment Unit Standards		
3:30 pm	Panel Q&A	Panel Q&A		
4:00 pm ET	Adjourn or Transition (transition for primacy agency staff and communications focus group)			
4:30 pm – 5:30 pm ET	SESSION 6A – TECHNICAL FOCUS GROUPS I: Primacy Agency Staff Breakout Discussions Primacy agency staff only (federal, state, territory, tribal, local)	SESSION 6B – COMMUNICATIONS FOCUS GROUP I: Targeted Communication and Outreach Discussion Open to all attendees		
	Group 1: Oversight Program Impacts Due to COVID-19 Facilitators: Michael Finn, EPA-OW and Alan Roberson, ASDWA	Focused on targeted communication efforts between EPA and the states, this group will discuss communication needs and alternative approaches to facilitate outreach, taking into account the different needs of small systems operators. <i>Facilitators: Michelle Latham, EPA-ORD and Mark Verbsky, OH EPA</i>		
	Group 2: Corrosion Facilitators: Darren Lytle, EPA-ORD and Ashley Voskuhl, OH EPA			
	Group 3: Analytics and Laboratory Issues Facilitators: Steve Wendelken, EPA-OW and Hunter Adams, City of Wichita Falls (TX)			
	Group 4: Legionella and Other Microbial Issues Facilitators: Laura Boczek, EPA-ORD and Wendi Wilkes, ASDWA			
	Group 5: Workforce and Operator Certification Facilitators: Deborah Vacs Renwick, EPA-OW and David Money, TN DEC			
5:30 pm ET	Adjourn			

Thursday, September 3, 2020				
11:00 am – 1:00 pm ET	SESSION 7A – MONITORING & DISTRIBUTION V: Methods and Analytics Moderator: Gregory Carroll, EPA-OW	SESSION 7B – SOURCE & TREATMENT V: Managing Contaminants Moderator: Darren Lytle, EPA-ORD		
11:00 am	Latest on PFAS Methods	Residuals: Arsenic and Other Contaminants Simoni Triantafyllidou, EPA-ORD 		
11:30 am	New York State's Laboratory Accreditation Program Certification for PFOA/PFOS and PFAS Methods • Victoria Pretti, NYSDOH	EPA's Support Tools for Managing Cyanotoxins		
12:00 pm	New EPA Method to Determine Monochloramine Concentration in Drinking Water Thomas Waters and Matthew Alexander, EPA-OW	ASDWA's New Source Water PFAS Toolkit and Guide • Deirdre White, ASDWA • Ashley Arayas, The Cadmus Group		
12:30 pm	Panel Q&A	Panel Q&A		
1:00 pm ET	Break/Transition	1		
2:00 pm – 4:00 pm ET	SESSION 8A – MONITORING & DISTRIBUTION VI: Distribution System Best Practices Moderator: Deborah Vacs Renwick, EPA-OW	SESSION 8B – SOURCE & TREATMENT VI: Implementing Innovative Treatments Moderator: Kevin Letterly, ASDWA		
2:00 pm	Impacts of Residual Requirements in Pennsylvania	Reuse in North Texas: Direct Potable Reuse to Indirect Potable Reuse Hunter Adams, City of Wichita Falls (TX)		
2:30 pm	Ohio's Updated Optimal Corrosion Control Treatment Review Process Ashley Voskuhl and Anne Karney, OH EPA	 Design and Permitting for Removal of Multiple Metals Michelle De Haan, Park City (UT) Water Division Nathan Lunstad, UT DEQ 		
3:00 pm	Practical Insights from Theoretical Lead Solubility Modeling	State Permitting Issues for Innovative Technologies Eugene Leung, CalEPA-Waterboards 		
3:30 pm	Panel Q&A	Panel Q&A		
4:00 pm ET	Adjourn or Transition (transition for primacy agency staff and communications focus group)			
4:30 pm – 5:30 pm ET	SESSION 9A – TECHNICAL FOCUS GROUPS II: Primacy Agency Staff Breakout Discussions Primacy agency staff only (federal, state, territory, tribal, local)	SESSION 9B – COMMUNICATIONS FOCUS GROUP II: Targeted Communication and Outreach Discussion Open to all attendees		
	Facilitators: Deborah Vacs Renwick, EPA-OW and and the	Focused on targeted communication efforts between EPA and the states, this group will discuss communication needs and alternative approaches to facilitate outreach, taking into account the different needs of small systems operators. <i>Facilitators: Michelle Latham, EPA-ORD and Mark Verbsky, OH EPA</i>		
	Group 2: PFAS and Other Contaminants of Emerging Concern Facilitators: Thomas Speth, EPA-ORD and David Dani, CO DPHE			
	Group 3: Iron and Manganese – Transitioning from Sequestration to Removal Facilitators: Asher Keithley, EPA-ORD and Diane Moles, IO DNR			
	Group 4: Lead Service Line Inventory and Materials Evaluation <i>Facilitators: Alan Roberson, ASDWA; Kurt Souza, CalEPA; and</i> <i>Steve Elmore, WI DNR</i>			
	Group 5: Considering and Implementing Source and Treatment Changes Facilitators: Michael Finn, EPA-OW and Kevin Letterly, ASDWA			
5:30 pm ET	Adjourn			