

Meeting #3: September 20, 2022

Purpose

- Continue problem characterization discussions on opportunistic pathogens and disinfectant residuals.
- Create common understanding of the current regulatory framework related to the Disinfectants/Disinfection Byproducts Rules (D/DBPRs)
- Begin problem characterization discussions on disinfectant byproducts.

Advance Meeting Materials

- Two-page documents on DBPs and related topics (e.g., Haloacetic Acids; Precursors; Source Water; Nitrosamines; Chlorite and Chlorate; and Consecutive Systems)
- Background videos
- Reference articles

Day-of Materials

- Presentation

Agenda

11:00 (15 min)

Segment 1: Agenda Review and Meeting Procedures.

- Meeting Opening (*Elizabeth Corr, U.S.EPA OGWDW, DFO and Rob Greenwood, Ross Strategic*)
- Welcome (*Crystal Rodgers-Jenkins, U.S.EPA OGWDW*)
- Opening Remarks (*Working Group Co-Chairs Andy Kricun and Lisa Daniels*)
- Facilitator Agenda Review (*Rob Greenwood, Ross Strategic*)

11:15 (90 min)

Segment 2: Follow up on problem characterization discussions on opportunistic pathogens and disinfectant residuals

Technical Presentation and Panel Discussion (*Ken Rotert, U.S. EPA OGWDW; Technical Analysts: Nancy Love, University of Michigan; Andrew Jacque, Water Quality Investigations; Mark LeChevallier, Dr. Water Consulting LLC*)

Facilitator Key Takeaways from Meeting 2 and Facilitated Discussion (*Rob Greenwood, Ross Strategic*)

- Provide any needed report back on technical questions
- Discuss potential emergent findings related to opportunistic pathogens and disinfectant residuals
- How much do these problems meet a level that requires attention?

- Confirm sense of the root causes of the problem
- Confirm the nature of the gap that currently exists

12:45 LUNCH BREAK (60 MIN)

1:45 (60 min)

Segment 3: Regulatory and Policy Framework for D/DBPRs.

Presentations *(Rich Weisman, U.S. EPA OGWDW)*

- Regulatory and Policy Framework related to the Disinfectants/Disinfection Byproducts Rules (D/DBPRs)
- Provide an inventory of Public Water Systems (PWSs) subject to the D/DBPRs

Discussion *(Rob Greenwood, Ross Strategic)*

- Clarifying questions
- Based on your experience, are there further features or aspects of the rules that you would like to highlight for WG consideration?
- Are there other aspects of the D/DBPR regulatory and policy framework you would like to learn more about to inform Working Group discussions, and why?

2:45 BREAK (10 MIN)

2:55 (90 min)

Segment 4: Problem Characterization on DBPs

Presentations: Problem Characterization Specifics on DBPs

- Unaddressed or newly emergent potential health risks from DBPs – includes unregulated HAAs (e.g., carcinogenicity); residual DBP risks (e.g., bladder cancer); and developmental/reproductive concerns. *(Kirsten Studer, U.S. EPA OGWDW and Casey Lindberg, U.S. EPA OST)*
- Occurrence of regulated and unregulated DBPs in drinking water – includes UCMR4 data for HAA9 and SYR4 data for THM4. *(Technical Analyst: Stuart Krasner, Metropolitan Water District of Southern California (retired), Jimmy Chen, U.S.EPA OGWDW)*
- Occurrence of DBP precursors in drinking water – in raw water plus TOC in treated water. *(Technical Analyst: Stuart Krasner, Metropolitan Water District of Southern California (retired))*
- Concerns about compliance with current DBP regulations including consecutive systems – includes results from Deep Dive. *(Jimmy Chen, U.S.EPA OGWDW; Jackie Logsdon, Kentucky Department for Environmental Protection)*

Technical Panel *(Technical Analysts: Stuart Krasner, Metropolitan Water District of Southern California (retired); Zaid Chowdhury, Garver; Susan Teefy, East Bay Municipal Utility District)*

4:25 BREAK (10 MINUTES)

4:35 (55 min)

Segment 4, cont.: Working Group Discussion Problem Characterization on DBPs

Facilitated Discussion *(Rob Greenwood, Ross Strategic)*

- Clarifying questions

- Do you have additions or refinements to characterization of DBP problems?
- What additional information will be helpful to further understand DBP related problems?
- Within the drinking water value chain, what do you believe are the most prominent root causes of DBP problems?
- Given the information you have in front of you today, how do you perceive the magnitude of the public health concern and why?

5:30 (30 min)

Segment 5: Meeting 4 Agenda & Next Steps

Presentation: Proposed Meeting 4 Topics & Next Steps (*Ryan Albert, U.S. EPA OGWDW, Co-Chairs Lisa Daniels and Andy Kricun*)

- OP, DR, DBPs (cont.)
- Interdependencies

Discussion (*Rob Greenwood, Ross Strategic*)

- Do you have additions or refinements to the proposed topics?
- What background materials, presentations, or other resources will be helpful to you to prepare for the Meeting 4 discussions?
- Mindful of time and resource limitations prior to the next meetings, what supplemental technical analyses would you like on the topics to help inform discussions?

Meeting Closure (*Elizabeth Corr (U.S.EPA, DFO)*)