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DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Safe Drinking Water

# Safe Drinking Water Regulatory Update

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# Objectives

- Review SDW facts
- Describe new/upcoming SDW regulations
- Discuss other initiatives

# SDW Facts

- Population = 12.7 M
  - Ranked 6<sup>th</sup> in nation
- Number of PWSs = nearly 9,000
  - Ranked 4<sup>th</sup> in nation
- Population served by PWSs = 10.7 M (84%)



# SDW Facts

## PWS Types:

- CWSs = 2,000 (23%)
  - ❑ 84% are small systems
  - ❑ Medium and large systems serve 91% of population
- NTNCWSs = 1,100 (12%)
- TNCWSs = 5,700 (63%)
- BVRBs = 185 (2%)

# SDW Facts

## Number CWSs using:

- Groundwater sources = 77%
- Surface water sources = 23%

## Population served by CWSs using:

- Groundwater sources = 14%
- Surface water sources = 86%

# ▶ New/Upcoming SDW Regs

## New/Upcoming SDW Regs:

- UCMR 3
- RTCR
- 3<sup>rd</sup> Regulatory Determination
- Disinfection Requirements Rule
- UCMR 4
- CCL 4
- Reduction of Lead in Drinking Water Act – Regulations
- Group Regulation of Carcinogenic VOCs

# ▶ New/Upcoming SDW Regs

## New/Upcoming SDW Regs (continued):

- Revised Fluoride Standard
- Hexavalent Chromium
- General Update/Fees
- Perchlorate
- Long-Term Revisions LCR
- 3<sup>rd</sup> Six-Year Review
- Finished Water Storage Facility Inspection Requirements
- Radon Rule

# Other Initiatives

## Implementation of Health Advisories:

- Harmful Algal Blooms (HAB) – issued in 2015
  - 10-day HA for Total Microcystins
    - 0.3  $\mu\text{g/L}$  for children younger than school age
    - 1.6  $\mu\text{g/L}$  for all other age groups
  - 10-day HA for Cylindrospermopsin
    - 0.7  $\mu\text{g/L}$  for children younger than school age
    - 3.0  $\mu\text{g/L}$  for all other age groups
- PFOS/PFOA – issued in 2016
  - Combined Lifetime HA of 0.07  $\mu\text{g/L}$  (protective of most sensitive subpopulation - pregnant/lactating women and fetuses)



# Other Initiatives

## Implementation of Health Advisories:

- Authority under Chapter 109
  - 109.4 (General requirements)
  - 109.203 (Unregulated contaminants)
  - 109.302 (Special monitoring requirements)
- One-hour reporting and PN (Tier 1 or Tier 2, depending on short-term or lifetime health effects)
- Issues/concerns – messaging, analytical methods, BAT, alternate water supply

# Other Initiatives

## Risk/Risk Trade-off (Pathogens and DBPs):

- 3<sup>rd</sup> Six-Year Review
- Important issues:
  - Disinfectant residuals (method issues – detection limits & interferences, representative sampling, minimum numeric residual, PN)
  - Research plan for emerging pathogens (OPPPs)
  - Fate of non-regulated DBPs in the distribution system

# SDW Challenges

- Emerging contaminants
- Source water protection
- Aging infrastructure
- Simultaneous compliance
- Resiliency and sustainability
- Resources

# SDW Solutions

- Resources – DEP (fees) & CWSs (full-cost pricing, asset management)
- Training, training and more training
- Strengthened regulations and guidance
- Building technical, managerial and financial (TMF) capacity

# Questions



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