

PFAS Water Standards Technical Work Session

- **Purpose of Meeting**
 - Explain what we need to do to set **Maximum Contaminant Levels (MCLs)**, that becomes the **Ambient Groundwater Quality Standards (AGQSs)** for PFOA, PFOS, PFNA, and PFHxS
 - Explain where we are in the process
 - Explain current efforts to identify **HEALTH EFFECTS** on which to base the standard, and to establish **COSTS** and **BENEFITS**
 - Solicit input on the approach. Are there new studies since ATSDR that we should be aware of?

PFAS Water Standards Technical Work Session

- **Setting/Reevaluating Standards (MCLs and AGQs) for:**
 - PFOA
 - PFOS
 - PFNA
 - PFHxS
- **Not limited to EPA Health Advisories**
 - As authorized by HB1101 and SB309

PFAS Water Standards Technical Work Session

- **Reminders**
 - **MCLs – Drinking Water Standards for Public Water Systems**
(i.e. >25pop, 60=days/year)
 - **AGQS – Groundwater Standards for waste site clean up and alternate water.**
 - **Surface Water Standards – Plan to derive PFAS standards under development, due in 2020**

Establishing MCLs

- Occurrence information ✓
- Ability to Detect & Treat ✓
- Costs
- Benefits
- Health Risks from Drinking Water
 - Reference Dose or MRL, Relative Source Contribution, Uncertainty Factors, Most Sensitive Receptor, Critical Effect, Lowest or No Observed Effect Level, Point of Departure

Health Risk Assessment

- **Looking at all the work performed by ATSDR, EPA and other states to determine health advisories.**
- **Specifically focused on studies referenced in ATSDR draft minimal risk levels (See Appendix A -MRL Worksheets)**

Health Risk Assessment

- **Have contracted with a consulting toxicologist to assist us while hiring new staff**
- **Now have New Toxicologist and Health Risk Assessor (Last Week)**
- **Have not completed our work**

Health Risk Assessment

- **Are there additional studies or information we should be taking into account?**

Costs

- **We have begun mining NHDES data for this component of setting an MCL**
- **Quantitative Estimates:**
 - **Public Water Systems**
 - **Wastewater Groundwater Discharges**
 - **Landfills**
 - **Waste Sites: Oil and Hazardous Waste**

Costs

- **Qualitative Description:**
 - Air Deposition Sites
 - Wastewater Residuals Sites
 - Landfills
 - Fire Stations and Fire Training Sites
 - Schools?
- **Question and Suggestions?**

Benefits

- **Based on the health hazards identified in ATSDR report for PFOA, PFOS, PFNA and PFHxS and Other Studies**
- **Have just begun work on this component of establishing an MCL**

Benefits

- **Uncertain about our ability to quantify avoided costs, may need to rely on qualitative description**
- **Just brought on Toxicologist and Health Risk Assessor who is an epidemiologist. May also need a contractor**

Benefits

- **Questions?**
- **Suggestions?**

Next Steps

- **Collect additional input (underway)**
- **Complete analyses**
- **Draft recommendations**
- **Initiate rulemaking (by 1 January 2019)**
 - **Rulemaking includes public comment stage**

Questions about Process?