



State of Oregon
Department of
Environmental
Quality

Pacific Northwest Pretreatment Workshop

Oregon Department of Environmental
Quality

Neil Mullane

Administrator

Water Quality Program



State of Oregon
Department of
Environmental
Quality

Pretreatment Program Role in Future Water Quality Concerns

- Lower Human Health Water Quality Toxics Criteria
- Persistent Bioaccumulative Toxics (PBT)
- Total Maximum Daily Loads for Toxics
- Toxics Monitoring Programs



State of Oregon
Department of
Environmental
Quality

Human Health Water Quality Toxics Criteria

- State Toxics Water Quality Standards
- Fish Consumption Rate
- Toxic Water Quality Criteria
- Implementation Approaches



State of Oregon
Department of
Environmental
Quality

What Role will the Pretreatment Program have in implementing stricter WQ Standards?

- Mercury
- Personal care products
- Pharmaceuticals
- Others



State of Oregon
Department of
Environmental
Quality

Persistent Bioaccumulative Toxics

- Priority Persistent Pollutant List
- Municipalities monitor Influent and Effluent
- Adopted Trigger Levels
- Municipalities develop toxic reduction plans for pollutant exceeding trigger levels



State of Oregon
Department of
Environmental
Quality

What Role will the Pretreatment Program play in reducing PBT's ?

- Education Programs
- Influent and Effluent Monitoring
- Source Monitoring
- Reduction Options



State of Oregon
Department of
Environmental
Quality

Role of Pretreatment Program in Implementing TMDL's and meeting WLAs

- TMDLs / WLAs for toxics
- Pollutant present in influent
- No current local limits
- No cost feasible treatment technology



State of Oregon
Department of
Environmental
Quality

Total Maximum Daily Loads (TMDL)

- Receiving stream exceeds the water quality standards after implementation of technology based controls
- Determine the pollutant load in that specific receiving stream which would allow the stream to still achieve water quality standards.



State of Oregon
Department of
Environmental
Quality

Beyond Pretreatment

- Other water sources: stormwater
- Cross media: air toxics
- Contaminated groundwater
- Climate Change
- Biosolids
- Reuse Water



State of Oregon
Department of
Environmental
Quality

Questions?