Permit Quality & Backlog
Data
Precise understanding meaning of data is expected from public & stakeholders
Increasing expectation for availability & Transparacy
Increasing Storage & Volume
Increasing data sharing, multi-agency cooperation
Increasing capability to refine data in context
Increasing detection ability for toxics & contaminants
Climate
Decreased dilution in summer
Impacts to Endangered Species Act
Increased Winter Inflows
Increasing Temperature Trends
Demographics
Oregon Urban Population Growth
Climate Refuges
Shrinking Rate Base
Upcoming retirements, workforce trends
Shrinking Birth Rate
Changes in sectors of communities, shifting population types
Potential for new funding source
Linking to Public Health, Jobs, and Resources Issues
Economics
Natural Business Cycles
Decreasing General Fund
Standards
Copper
Nutrients
Temperature
Toxics
Increasing requirements
Increasing complexity
Increased scientific understanding of human health risks
Arsenic
Human Health
TMDLs - limits to reconciliation
Politics
Internal
External
Stormwater
Quality
Sediment
Need for system integration
Increasingly altered hydrology
Increasing impacts from third party litigation
Infrastructure
Aging Infrastructure
Increasing preference for sustainable infrastructure
Increasing trend towards resource recovery
More resource recylcing
Less energy usage
Increasingly expensive to address
Technology
Analytics
Improving Treatment Technology
Real time data
Increased monitoring is a driver for improving standards
Increasing tension around percpetion of CWA drivers & NPDES structure
Increasing need for convergence of holistic vs. procedural requirements
More anticipation of future trends
Communication, Collaboration & Merging perceptions with DEQ and EPA
Increasing need to reconcile competing federal priorities
Clean Water Act
Alternative Strategies
Water Quality Trading
Clean Water Act is aging
NPDES focused
Diminishing return on investment
Point vs. Non-Point