

# Why the Integrated Planning Approach is an Opportunity for Municipalities and States

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# Summary

- Clean Water Act Implementation Focus of Municipalities and States
- CWA Implementation Increases in Complexity
- Municipalities and State Response to Increased Complexity
- Integrated Planning's Opportunity
- How Municipalities and States may Approach this Opportunity

# Summary

- What Municipalities and States have to Gain with Integrated Plan
- NPDES Permit as a Integrated Plan Implementation Tool
- Next Steps in Oregon to Implement Integrated Planning







# Clean Water Act Implementation Response of Municipalities

- Municipalities Begin CWA Implementation
- Focus on Wastewater Collect and Treatment Systems
- Establish or Expand Public Works Departments
- Build up Wastewater Engineering Capabilities
- Implement Facility Planning Efforts – 20 Year Plans
- Implement Technology Based Effluent Limitations



# Clean Water Act Implementation Response of State Regulatory Agencies

- Establish State Water Quality Standards
- Establish State NPDES Permit Programs
- Establish Construction Grants Programs
- Begin Nonpoint Source Planning Activities
- Establish and/or Expand Wastewater Engineering Capabilities
- Develop Facility Planning Requirements





# CWA Increases in Complexity

- Toxic Pollutant Water Quality Standards
- Reasonable Potential Analysis
- Water Quality Limited Streams
- Total Maximum Daily Loads – Waste Load Allocations
- Water Quality Based Effluent Limitations
- Water Quality Trading
- Wet Weather Concerns
- Biosolids, Pretreatment and Reuse Programs
- Stormwater Management
- Sustainability/Green Infrastructure
- Nonpoint Sources
- Watershed Permitting
- Litigation



# Municipalities and States Response to Increased Complexity

- More Engineers
- Biologists
- Water Quality Modelers
- Public Information/Education Specialists
- WQ Monitoring Specialists
- WQ Planners / BMP Specialist
- Loan Officers
- Landscape Architects
- Lawyers



# Municipalities and States Response to Increased Complexity

- Stringent Human Health Toxic WQ Standards
- TMDL Programs
- Stormwater Management Programs
- State Revolving Loan Programs
- Biosolids Management Programs





# Municipalities and States Response to Increased Complexity

- Ambient Monitoring Programs
- Reuse Programs
- Toxic Control Programs
- Watershed Programs
- Green Streets Programs
- CMOM Programs





# Why Municipalities and States may want to Invest in Integrated Planning

- Comprehensive Planning Approach
- Watershed Health Assessment
- Wastewater and Stormwater System Assessment
- Establish Watershed Health Strategy
- Identify and Select Watershed Health Priorities
- NPDES Permit as Implementation Tool
- Monitor Plan Implementation Progress
- Plan Adjustment on Routine Cycle





# What Municipalities have to gain with Integrated Planning

- Partnerships with Local Stakeholders/State
- Comprehensive Regulatory Approach
- Established Watershed Health Priorities
- Understanding of Municipality's Financial Capabilities
- Focus on Asset Management
- Stronger NPDES Permit
- Agreement on Implementation Strategy



# What State Regulatory Agencies have to gain with Integrated Planning

- Better Permitting Data and Information
- Potential for Less Litigation
- Partnership with Municipality
- Coordination Between State WQ Programs
- Efficient Use of State Resources
- Locally Vetted Watershed Health Priorities
- Long Term Regulatory Approach with Financial Plan
- Regular Monitoring of Plan Progress and Plan Up Date





# How Municipalities may want to Approach this Opportunity

- Partnership with Community/Stakeholders
- Partnership with State Regulatory Agency
- Examine Benefit of Watershed Health Strategy
- Examine Financial Capability of Municipality
- Examine Benefit of NPDES Permit Tool
- Examine Benefit of Long Term Dynamic Implementation Plan

# Mutual Outcome

- **Prioritized investments for watershed health**
  - Transparent alternatives analysis process
  - Explore a variety of tools
    - Riparian Restoration/ Conservation Easements
    - Water quality trading
    - Recycled water use
    - Green infrastructure
    - Enhanced treatment
- **Measurement & Monitoring**
  - Define 'success'
  - Monitor/track/report/adjust







# NPDES Permit as a Integrated Planning Implementation Tool

- Familiar Compliance and Enforcement Tool
- Regular Built in Progress Review
- Regular Plan Update Opportunity
- Watershed Approach
- Water Quality Trading Platform



# What State Regulatory Agencies will Likely Examine

- WQ Problem Assessment
- Priority Setting Process
- Priority Setting Criteria
- Alternatives Evaluation (Risk Analysis)
- Financial Evaluation (Affordability)
- Implementation Time Frame
- Implementation Program Review Structure





# Next Steps in Oregon to Implement Integrated Planning

- Partnerships
  - Regulatory
    - EPA , Oregon DEQ, permit holders
  - Between sectors
    - Point & non-point sources
  - Within the community
    - Setting priorities and aligning programs
- Integrated Plan incorporated into Oregon municipal NPDES permit
- Work through permit review with EPA – Region 10
- Work with Statewide Stakeholders

# Questions?

