Asset Management and Implementation

Ohio EPA Division of Drinking and **Environmental Specialist Emily Pohlmeyer** Ground Waters

Overview

- **Benefits of Asset Management**
- Senate Bill 2
- Rules
- How GIS fits into Asset Management
- Implementation
- Funding



What Can Asset Management Do tor a Water System?

- Can help raise capital to improve infrastructure
- Operation and maintenance on a frequency that assets makes sense to get the maximum life of the
- just because they're old, helps prioritize projects Replace assets when condition warrants it, not
- Set aside reserves to replace critical
- infrastructure in emergencies



What Can Asset Management Do for a Water System?

- Allows a system to plan ahead for future improvements and adjust rates gradually to meet future financial needs
- Allows a system to adequately address the health, safety and welfare of their customers
- Establishes real costs of infrastructure if
- replacement needed, adequate insured \$\$\$
- hio Ohio Environmental **Protection Agency**

What Can Asset Management Do for a Water System?

- Make staying in compliance easier
- Save the system money!



SB2 Asset Management Provisions

- Components:
- Inventory and evaluation of all assets
- Operation and maintenance programs
- Emergency preparedness and contingency planning program
- Criteria and timelines for infrastructure rehabilitation and replacement
- Approved capacity projections and capital improvement planning
- Long-term funding strategy to support asset management program implementation





- To mesh with the proposed statutory change and financial capability of all water systems our existing capability rules, we have drafted rules to address the managerial, technical and
- We will follow our typical rulemaking process, comment (early stakeholder already completed) including stakeholder outreach and public
- Written asset management programs required by October 1, 2018 hio
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Managerial Capability

- Documentation of ownership
- Documentation of a certified operator
- Brief non-technical description of the water system
- Operating plan
- Written procedures
- Inventory of external contacts
- Internal contracting and purchasing procedures (routine and emergency) hio

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Technical Capability

- Map (build on the existing lead maps)
- Inventory of assets
- Evaluation of assets
- Risk identification
- Level of service goals
- Metrics



GIS and Mapping

- Distribution system
- Pipe size
- Pipe material
- Valve locations and details (opens right/left, etc.)
- Hydrants (used by Fire dept., weep holes, etc.)
- Breaks (locations and repair types)
- Age
- Color coding/tagging assets based on evaluation
- Condition assessment



Technical Capability cont.

- **Operation and maintenance programs**
- Approved capacity projections
- Criteria and timeline for rehabilitation and replacement
- Capital improvement plan (CIP)





Information about breaks and repairs from the map can be used to develop timeline and CIP.

- can be used to notify about reoccurring tasks.
- Information from the map about maintenance
- Location, time, date
- tracking software of the system.

- Track repairs/maintenance tasks

GIS and Maintenance

- Important that it also interfaces with maintenance

Financial Capability

- years projected) Pro-forma statements (5 years previous and 5
- Income statement
- Balance sheet
- Statement of cash flow



Financial Capability

- Amortization schedule for outstanding debt
- Capitalization terms of debt
- Current water rate ordinance and triennial water rate evaluation
- Documentation of all customers billed per
- metered water usage
- rating Information demonstrating bond or credit



Pulling It All Together

- Most systems have a lot of this information, they just need to write it down and gather it in one place
- Systems can do a lot of this without outside help, their system better saving them money and helping them understand
- An asset management program is more than just software
- They don't have to have a software system to systems track everything, but it helps for more complex hio

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Implementation

- Prioritizing systems requesting SRF loans, obvious capability issues systems under enforcement and systems with
- These systems will undergo a capability screening to identify areas of deficiency
- The systems' asset management program will

need to address these areas



Purpose of Capability Screening

- We want to get all responsible parties for the hear the same thing water system in the same room so they all
- We also want them to understand where each of them fits into the overall operation of the responsibilities water system and understand their respective



Funding for Asset Management

- Planning loans are available
- Terms of 5 years at 0% interest
- Potential for \$10,000 in principal forgiveness





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