Asset Management

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

Overview

- Benefits of Asset Management
- Senate Bill 2
- Rule Making
- Implementation Plan
- Funding





What Can Asset Management Do for

Suo

- Can help raise capital to improve infrastructure
- Operation and maintenance on a frequency the assets that makes sense to get the maximum life of
- Better response to emergencies (contingency plan)
- Sets aside reserves to replace critical infrastructure in emergencies



What Can Asset Management Do for Suo

- 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
- replacement needed, adequate insured \$\$\$ Establishes real costs of infrastructure if



What Can Asset Management Do for **?**uoY

- Having an asset management program can give a system bonus points when their loan nomination is scored
- Make staying in compliance easier
- Save the system money!



Ohio Senate Bill 2

- Requiring Ongoing Asset Management Efforts by Public Water Systems
- Strengthening Efforts to Protect Lake Erie
- **Encouraging Better Use of Dredge Materials**
- Requiring Financial Assurance for Privately Owned Water Systems
- **Ensuring Responsible Disposal of Construction and** Demolition Debris
- Strengthening the State's Ability to Clean Up **Abandoned Landfills**



Drinking Water Issues In Senate Bill 2

- Asset Management required at all public water systems
- assurance flexibility Expanded escrow and added financial
- Set up receivership process



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
- SB 2 became effective October 6, 2017



Draft Asset Management Rules

- To mesh with the proposed statutory change and financial capability of all water systems rules to address the managerial, technical and our existing capability rules, we have drafted
- We will follow our typical rulemaking process, comment including stakeholder outreach and public
- Public comment period ended February 16th
- Written asset management programs required by October 1, 2018 hio

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Managerial Capability

- Documentation of ownership
- system Brief non-technical description of the water Documentation of a certified operator



Managerial Capability

- Operating plan
- Written procedures
- Inventory of external contacts
- Internal contracting and purchasing procedures (routine and emergency)



Technical Capability

- Map
- Inventory of assets
- Evaluation of assets
- Level of service goals
- Metrics



Technical Capability

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



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 place just need to write it down and gather it in one
- Systems can do a lot of this without outside help, their program better saving them money and helping them understand
- An asset management program is more than just a tracking system
- 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 Plan

- 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 responsibilities water system and understand their respective of them fits into the overall operation of the



Implementation Plan

- At the time of sanitary surveys, inspectors will initially be asking to see some basic level of service goals, metrics, etc. components, such as asset inventory, maps,
- Submission of the written asset management program will only be upon the Director's request.



Implementation

- We are developing guidance for systems, and complexity expectations will vary based on system type
- Templates available for non-communities and MHP/Homeowners Associations



Capability Screening Tool

Tool has 12 categories of questions for system policies, compliance and water loss O&M/preventative maintenance, source community water systems: governing body, budgeting, rates, reserve accounts, water emergency preparedness, asset management, water protection, water supply and demand,



Capability Screening Tool

Governing Body:

- public and announced in advance? Does the governing body hold meetings that are open to the
- Is there an organizational chart for the governing body with clearly defined job duties and assigned individuals?
- Do operators, the governing body and other employees regularly attend training to enable them to maintain their skills?
- Is the governing body informed and responsive to issues water loss, O&M, water quality or compliance? related to drinking water such as production, capacity,



Capability Screening Tool

0&M/Preventative Maintenance

- plan? Does the system have an up-to-date and written O&M
- water mains, and inspecting/cleaning storage tanks (as Does the system implement an adequate preventative applicable)? maintenance plan, including exercising valves, flushing
- Does the system routinely maintain, repair or replace equipment prior to failure?
- chlorinator, leaks, low pressure or main breaks)? Does the system experience routine failures (e.g.,

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- Source Water Protection
- Does the system actively utilize an up-to-date checklist? source water protection plan/protective strategies



Water Supply and Demand

- demand and update projections on a regular basis? Does the system regularly monitor water supply and
- Is the system's approved capacity/contract adequate to meet demand over the next five years?
- If long term (>5 years) projections or other available capacity, is the system planning for this shortfall? information shows that the system will exceed approved
- If the system loses its primary water source, will the demand under normal demand conditions? combined capacity of all remaining water sources meet

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Emergency Preparedness

- Does the system have an adequate, up-to-date contingency plan that is regularly practiced and implemented when necessary?
- system components? standby electrical power source sufficient to run critical Does the water system have an operational emergency or
- Does the water system have accurate maps of the distribution system?
- source? supplemental water supply available, such as an Does the water system have an established emergency or interconnection with a neighboring system, or a second



- Asset Management
- Does the system have a comprehensive Asset years, that includes: Management Plan, updated within the last five
- asset inventory;
- criticality analysis;
- condition assessment protocols;
- criteria and timeline for replacement; and,
- O&M and funding source(s)?



- Budgeting
- Does the system have an annual budget that includes necessary reserve funds?
- Does the system have a capital improvements plan expenses? and a multi-year projection that addresses future



Rates

- Are all customers billed per metered water usage?
- Are rates and rate structures evaluated on a adjusted as necessary? routine basis (i.e., at least every 3 years) and
- Does the water system's current rate structure future costs and all necessary reserves? expenses (i.e., operations and maintenance), produce enough income to cover current

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- Reserve Accounts
- Does the water system have funding available to component if it should fail? cover the system's most expensive or critical



- Water System Policies
- Has the system adopted written policies on:
- security;
- use of system equipment;
- routine billing, including a backup billing system;
- customer deposits and payments;
- collections, customer service disconnection and shutoff notices;
- connection charges;
- ' customer complaints; and,
- purchasing authority?



Compliance

- If the system has/had a significant deficiency, has it been addressed or is it on an acceptable schedule to be addressed?
- Have all requirements cited in previous survey letter(s) or other correspondence been addressed?
- Is the system in compliance with the certified operator requirements of Chapter 3745-7 of the Administrative Code?
- Is the system in compliance with the backflow prevention requirements of Chapter 3745-95 of the Administrative Code?
- Has the system received MOR violations or deficiency letters in the previous twelve months?
- 3745-91 of the Administrative Code? Is the system in compliance with the plan approval requirements of Chapter
- Has the system obtained a license to operate in each of the last 5
- Is the system in compliance with all monitoring requirements?



- Water Loss
- Does a recent water audit show less than 15% unaccounted-for water loss?
- Are steps being taken to detect and address leaks?



Funding for Asset Management

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



Questions?

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