Asset Management

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Overview

- Senate Bill 2
- Benefits of Asset

Management

- Rule Making
- Implementation Plan



Image courtesy of the Capitol Square Review and Advisory Board



Drinking Water Issues in Senate Bill 2

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



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



What is Asset Management?¹

- cost." at the lowest life-cycle want your assets to provide level of service for what you ...maintaining a desired
- Getting the most out of your assets at the lowest cost to you.



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What Asset Management Does for a Water System

- Helps raise capital to improve infrastructure
- Allows for operation and maintenance frequency that makes sense in order to get the maximum life of the assets
- Replaces assets when condition warrants it (not just because they're old)
- Helps prioritize projects
- Sets aside reserves to replace critical
- infrastructure in emergencies



What Asset Management Does 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 water users
- funding Establishes real costs of infrastructure if replacement needed, ensures adequate



What Asset Management Does for a Water System

- Makes staying in compliance easier
- Saves the system money



Draft Asset Management Rules

- of all water systems. We have drafted rules to address the managerial, technical and financial capability
- systems. Written asset management programs are required by October 1, 2018 for all water
- A written asset management program will be submitted **only** upon the director's request.



Managerial Capability

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



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
- Condition assessment of assets
- Level of service goals
- Metrics



Technical Capability

- Operation and maintenance programs
- Emergency and contingency planning
- Approved capacity projections
- Criteria and timeline for rehabilitation and replacement
- Capital improvement plan
- Source water protection



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 keep it in one
- A lot of this can be done without outside help, your program better. saving you money and helping you understand
- An asset management program is more than just a tracking system.
- You don't have to have a software system to track everything.



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



Capability Screening Tool

Tool has 12 categories of questions for

community water systems

- Governing Body
- O&M/Preventative
 Maintenance
- Source Water
 Protection
- Water Supply and Demand
- Emergency
 Preparedness

- Asset Management
- Budgeting
- Rates
- Reserve Accounts
- Water System Policies
- Compliance and Water Loss



Capability Screening Tool: Governing Body

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



O&M/Preventative Maintenance Capability Screening Tool:

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

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Capability Screening Tool: Source Water Protection

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



Water Supply and Demand **Capability Screening Tool:**

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



Capability Screening Tool: Emergency Preparedness

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



Capability Screening Tool: Asset Management

years, that includes: Management Plan, updated within the last five Does the system have a comprehensive Asset

- asset inventory;
- criticality analysis;
- condition assessment protocols;
- criteria and timeline for replacement; and,
- O&M and funding source(s)?



Capability Screening Tool: Budgeting

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



Capability Screening Tool: Rates

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

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Capability Screening Tool: Reserve Accounts

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



Capability Screening Tool: Water System Policies

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

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connection charges;



Capability Screening Tool: Compliance

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



Capability Screening Tool: Water Loss

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



Implementation Plan

- At the time of sanitary surveys, inspectors will inventory, maps, level of service goals, ask to see basic components, such as asset metrics, etc.
- The Division of Drinking and Ground Waters is will vary based on system type and developing guidance for systems. Expectations complexity.



Sanitary Survey Questions -Communities

- Are the distribution system maps complete and up to date, including line sizes, valves and hydrants?
- assessments complete ? Is the asset inventory up to date and condition
- years? Has the rate structure been re-evaluated in the last three
- components? rehabilitation/replacement of water system Has the system established a criteria and timeline for
- a table of organization, description of job duties and daily operating procedures? Does the water system have an operating plan, including
- with regards to their approved capacity? Does the system monitor their demand trends

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Funding for Asset Management

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





http://epa.ohio.gov/ddagw/pws.aspx#113435168-asset-management

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