



Noncommunity Asset Management Program

This template is intended for noncommunity public water systems. It incorporates the Asset Management Plan requirements in Ohio Administrative Code Rules 3745-87-03 and 3745-87-05.

Public Water System Name: _____ PWS ID: _____ Date: _____

Public Water System Description

Number of Service Connections: _____ Source Type: Ground water Surface water
 Ground water purchased Surface water purchased

Number of People Served: _____

Interconnections: _____
 (List, if applicable)

Water System Usage

Average Daily Demand (gpd; estimate or if available): _____

The water usage in the next 5 years is expected to:

- Increase
- Decrease
- Stay the Same

Hours per day the system runs: _____

System capacity: _____

Limiting Factor for System Capacity: _____

Contact Information

Contact Type	Name	Phone	Email	Current Address
Business Owner				
Property Owner				
Manager				
Financial Contact				
Operator				
Sampler				

Maintenance				
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Operating Plan

Describe or attach your succession plan for critical personnel.
 Attach any cooperative agreements and service contracts.

Table of Organization

Complete the following table.

<i>Title</i>	<i>Job Duties/Responsibilities</i>	<i>To whom does this person report?</i>	<i>Training Attended</i>	<i>Credentials</i>
Owner				
Manager				
Financial Contact				
Operator				
Sampler				
Maintenance				

Significant Deficiencies

Has Ohio EPA cited any significant deficiencies for your public water system that are unresolved? Yes No

If yes, list the significant deficiencies here and attach the letter(s) from Ohio EPA which includes the director approved schedule to correct each significant deficiency.

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External Contacts

<i>Contact Type</i>	<i>Name</i>	<i>Day Time Phone Number(s)</i>	<i>After Hours Phone Number(s)</i>	<i>Email</i>
Ohio EPA District Office			1-800-282-9378	
Ohio EPA Emergency Response		1-800-282-9378	1-800-282-9378	
Police				
Fire Department				
County EMA Director				
Contractors for Line Breaks				
Electric Power Supplier				
Electricians				
Well Drilling and Pump Service Contractors				
Mechanical Contractors				
Equipment and Chemical Suppliers				
OEPA Certified Laboratories				
Local Health Districts				
OHWARN		419-966-3624		

How will the above emergency contacts list be utilized?

(Example: All contacts associated with the public water system will have the contact list.)

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Contracting and Purchasing Procedures for Water System Repair and Replacement.

(describe below or attach policy)

Routine Purchases	
Emergency Purchases	

Written Policies

(describe below or attach policy)

Customer Complaints	
Compliance Issues	
Security	
Use of System Equipment	
Purchasing Authority	
Internal Communication of compliance and water loss	

Metrics

Year:	20	20	20	20	20
System Pressure (specify the minimum pressure the system maintains at all times):					
Repair, rehab or replacement (emergency versus planned) tasks/year:					
Reserve funds:					
Number of days unable to serve water:					

Levels of Service (Review annually, unless otherwise directed)

Level of service means the commitment to deliver service at a specified level of quality and reliability. Service levels can be performance related (e.g. asset performance driven by faults, equipment failures, etc.) or customer and regulatory related (e.g. response times, complaints, information availability, etc.). Service levels are most often selected by the water system based on customer demands, business drivers, and constraints. Provide three

Goal	Plan To Achieve	Measure of Success
1.		
2.		
3.		

Source Water

Source Water Assessment review date: *(required every 3 years)* _____

Endorsed drinking water source protection checklist / plan review date:
 (Checklist reviewed every 5 years or if you have an endorsed plan, reviewed every 3 years or sooner if there is a specified review date in the endorsed plan.) _____

Emergency and Contingency Planning

Location of contingency plan(s):

Check or mark N/A	Location of Contingency Plan
<input type="checkbox"/> Yes <input type="checkbox"/> N/A	Water Treatment plant in an accessible, secure location
<input type="checkbox"/> Yes <input type="checkbox"/> N/A	Public water system administrator's office
<input type="checkbox"/> Yes <input type="checkbox"/> N/A	
<input type="checkbox"/> Yes <input type="checkbox"/> N/A	

Contents of Emergency and Contingency Plan

Circumstance	Description of procedures to be followed including: Response and recovery (sampling plan, treatment option, and notification to public and government agencies).	Actions taken to restore water.	How might sampling point be selected in this circumstance.	Method of notification (Water Users, Ohio EPA, Local health department, Local EMAs)	Timing of notification (Water Users, Ohio EPA, Local health department, Local EMAs)
Pump or motor failure.					

Loss of water from a well or other water source.					
Line breaks that affect the routine delivery or treatment of water.					
Unplanned absence of operator.					
Contamination of source water including, but not limited to, releases of oil and hazardous substances.					
Exceedances of a maximum contaminant level (MCL) or an action level (ALE)					
Violation of a treatment technique.					

Within five days of a request by the Ohio EPA, a copy of the contingency plan shall be submitted in a format acceptable to Ohio EPA.

___ Were records maintained documenting the time and method of notification for any of the above events?

If the circumstance triggers the activation of the contingency plan, public water systems shall do the following:

___ Follow the contingency plan to the extent the circumstances allow.

___ Notify the Ohio EPA immediately, but no later than twenty-four hours from the beginning of the situation requiring activation of the contingency plan.

The notification shall communicate that an emergency affecting the ability of the public water system to provide potable water exists.

Schematic

Draw below or attach a schematic of the major components of the water system including source, treatment, storage and distribution as applicable.

Inventory of Assets

Assets that have a condition of very poor and poor should be in the timeline for rehabilitation and replacement and become projects in the capital improvement plan.

Asset Name	Purchase Date / Installation	Life Expectancy (See Life Expectancy Table)	Estimated Age (How old is the asset?)	Remaining Useful Life (life expectancy - estimated age)	Status of Asset (in use, available, needs repair)	Probability of Failure¹ (Scale 1-5, 1 = low, 5 = high)	Consequence of Failure² (Scale 1-5, 1 = minor, 5 = significant)	Rank Based on Risk³ (Probability x Consequence)	Location⁴	Condition

¹Probability of failure (PoF) = How likely the asset is to fail on a scale from 1 to 5 (1 = low, 5 = high)?

²Consequence of failure (CoF) = How great of an impact the failure of the asset will have on the delivery of water on a scale from 1 to 5 (1 = minor, 5 = significant)?

³Risk = PoF x CoF. The largest number will have the greatest risk and should be prioritized for projects, etc.

⁴Attach a map showing the location of each asset.

Condition	Description
Excellent	In relatively new or new condition. The asset has required little to no maintenance.
Good	Acceptable condition. It still functions and requires minor maintenance.
Fair	Deterioration of the asset can be seen. It needs maintenance frequently to be able to perform.
Poor	Failure of the asset is likely and will be need to be replaced in the next few years.
Very Poor	Failure has occurred or is going to. Major maintenance is required or replacement needs to occur.

Asset	Life Expectancy (years)
Backflow Prevention	35-40
Blow-off Valves	35-40
Buildings	30-60
Chlorination Equipment	10-15
Computers	5
Distribution Pipes	35-40
Electrical Systems	7-10
Hydrants	40-60
Lab/Monitoring Equipment	5-7
Meters	10-15
Other Treatment Equipment	10-15
Pressure Tank	7-10
Pumps	10-15
Service Lines	30-50

Storage Tanks	30-60
Transportation Equipment	10
Valves	35-40
Wells	25-35

Operation and Maintenance Programs:

Attach the operation and maintenance programs of water system assets.

These programs should be in accordance with Chapter 3745-83-01(H) of the Ohio Administrative Code and the following in accordance with the draft rules 3745-87-03(B)(11) of the Ohio Administrative Code:

- (a) Implementation procedures and standard operating procedures for daily operation of the facility.*
- (b) Performance testing protocols and maintenance schedules for each of the following:*
 - (i) Wells, reservoirs and intakes.*
 - (ii) Pump stations.*
 - (iii) Electrical equipment and controls.*
 - (iv) Water treatment facilities.*
 - (v) Water storage tanks.*
 - (vi) Distribution system components.*
 - (vii) Auxiliary power.*
- (c) Maintenance schedules shall be based on the following:*
 - (i) The maintenance frequencies recommended by the manufacturer, for those components for which such recommendations exist.*
 - (ii) For all other components, the maintenance frequency commonly used in the water works industry such as recommendations by the American Water Works Association’s performance testing.*
 - (iii) The public water system will determine other acceptable bases for operation and maintenance if paragraphs (a) and (b) of this section are not applicable.*
- (d) Demonstrate an adequate maintenance log is maintained.*

Criteria and Timeline for Repair, Rehabilitation, Replacement and Expansion

(List criteria for determining repair, rehabilitation, replacement, and expansion below. These are determined by the public water system.)

Criteria

1. _____
2. _____
3. _____

Timeline for Repair, Rehabilitation, Replacement and Expansion

Asset (Listed in order of priority)	Criteria Met (# from Criteria list above)	Rehabilitation, Replacement, Repair, or Expansion?	Date To Be Completed	Funding Source(s)

Capital Improvement Planning

Attach five-year, ten-year, and twenty-year Capital Improvement Plans for the water system.

The Capital Improvement Plans (CIP) should include the following in accordance with the draft rules 3745-87-03(B)(16) of the Ohio Administrative Code:

- (a) A CIP will include annual projections in five-year, ten-year and twenty-year planning horizons with detailed expenditures in each of those time frames.
- (b) The projects should be listed by the year in which they are planned and include, at a minimum, the following information:
 - (i) Description of the project.
 - (ii) Need for, and benefits of, the project.
 - (iii) Estimate of project cost.
 - (iv) Estimate of operation and maintenance.
 - (v) Funding sources.
 - (vi) Impact on level of service.

Funding

System Debt:	
Reserve Account Amount: <i>(Should be enough to cover the system's most important asset.)</i>	
Number# of Months of Operating Monies on Hand:	