

Noncommunity Asset Management Program

This template is intended for transient noncommunity (TNC) and nontransient noncommunity (NTNC) public water systems. It incorporates the Asset Management Program requirements in Ohio Administrative Code Rules 3745-87-03 and 3745-87-05. (Revised Date: 11/12/2019)

Public Water System Name:	PWS ID:	Date:
Section 1. Asset Management Program Review and Locations		
Section 1.1 Review and Updates		
Asset management programs are required to be reviewed and updated, if neces.	sary, at least annually (OAC Rule 3745-87-0	05(A)). Please use the following table
to track when your asset management program was last reviewed/updated.		
Date of Asset Management Program		
Review/Update (min. annually)		
, , , , , , , , , , , , , , , , , , , ,		
Section 1.2 Asset Management Program Locations		
The information in Section 16 of this document is required to be kept in the follow	wing locations (OAC Rule 3745-87-03(B)(5)	(b)):
		· ·
1. Is there a water treatment plant or room?		
Yes – A copy of this asset management program has been included	n that area.	
No – Describe a different location that is accessible and secure whe	re a copy of this program is kept:	
2. Is there an administrator, owner, or manager's office?		
Yes – A copy of this asset management program has been included	n that area.	
☐ No		
2. Other leastion(s) where a conviction (ontionally		
Other location(s) where a copy is kept (optional):		

Section 2. Contact Information and Table of Organization

Insert contact information for the business/property owner, manager, financial contact, water system operator, sampler, and maintenance staff, as applicable. Clearly describe who is responsible for water system operations, maintenance, treatment, and distribution work. See Appendix A for additional contact tables.

Contact Name		Contact Type:	Business Owner
Address		(check all that apply)	Property Owner
Phone			Manager Financial Contact
Email			Water System Operator
To whom does this person report?			Sample Collector Maintenance Staff
Credentials			
Water system job duties/responsibilities (req'd)	Operations Maintenance Treatment Distribution Other:		
Contact Name		Contact Type:	Business Owner
Address		(check all that apply)	Property Owner
Phone			Manager Financial Contact
Email			Water System Operator
To whom does this person report?			Sample Collector Maintenance Staff
Credentials			
Water system job duties/responsibilities (req'd)	Operations Maintenance Treatment Distribution Other:		
, , , , , ,	rehiring each critical person associated with the water system (manager water system meet minimum staffing requirements if the operator(s) lea	· ·	er system operators, samplers,
Any cooperative and service con	tracts have been attached: Yes No Not applicable		

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Section	4.	Training	Record

If applicable, attach training records or list relevant water system training completed by staff or administrative personnel (e.g., fiscal, managerial, technical training).

trai	ning).		
Tre	aining Name/Description	Training Date	Personnel Who Attended
Sec	tion 5. Public Water System Description		
1.	Number of Service Connections: Service connections are typically buildings with water available. For example, a church	ch and parsonage	e = 2 service connections
2.	Average number and types of daily water users Include everyone who has access to the water (for eating/cooking, drinking, handwa	shing, bathing, sh	nowering, or oral hygiene), whether they use it or not.
	a. # of employees/staff:		
	b. # of customers/visitors:		
	c. # of owners/management:		
	d. # of other water users, if applicable (please specify):		
3.	Source Type (check one): Ground water Surface water Hauled water, Supplier: (e.g., well) (e.g., river, pond, lake)		
4.	Interconnections (List, if applicable): Interconnections include connections between the waterlines of 2 different publications.	a water systems /	for example a connection between 2 comparaunds
	that is only used in the event of an emergency).	c water systems (joi example, a connection between 2 campgrounds
5.	System capacity in gallons/day (if unknown, contact your Ohio EPA district office re	presentative):	
6.	Limiting factor for system capacity (if unknown, contact your Ohio EPA district office	e representative)	:

7	14/	System	11
,	water	SVSTAM	IICAGE

The water usage in the next 5 years is expected to (check one):

| Increase | Decrease |
| Stay the same

8. Will changes to the water system be necessary to meet the change in demand? (for example, will the water system need to expand/reduce treatment equipment, add/reduce the number of wells or storage tanks, etc.)

Yes – Include any infrastructure changes in Section 10, 11.1, or 11.2 below. Contact the Ohio EPA District Office to determine if detail plan submission is required.

__ No

Not applicable

Section 6. Water System Schematic

Include a schematic of your public water system components. The schematic can be attached, hand drawn, or selected from one of the options below. The schematic must include the following, as applicable:

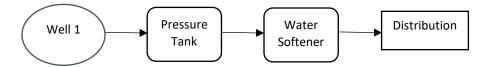
- Source (e.g., well),
- Pressure tank(s),
- Treatment equipment (e.g., water softener, chemical feed, filters)
- Storage tanks, and
- Distribution system (e.g., waterlines)

If one of the following examples applies to your public water system, please circle that schematic. If none apply, please attach a schematic or draw one in the space provided. Please contact the Ohio EPA District Office for assistance, if necessary.

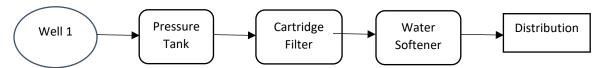
1. Well, pressure tank



2. Well, pressure tank, softener



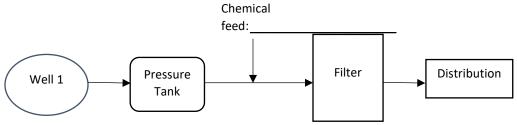
3. Well, pressure tank, cartridge filter, softener



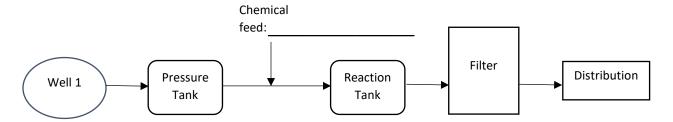
4. Well, pressure tank, filter, softener



5. Well, pressure tank, chemical feed (list chemical below), filter



6. Well, pressure tank, chemical feed (list chemical below), reaction tank, filter



Noncommunity Asset Management Program
Draw your own schematic: (include the source, any pressure tanks, any treatment equipment, and the distribution system)
Section 7. Asset Map
Attach a map showing the location of each water system asset or draw a map below. The map should show the location of each asset included in the asset inventory in Section 8 below. A preexisting building map, engineering drawing, or satellite imagery (e.g., Google maps) can be used as a base for the map.

Section 8. Asset Inventory

Asset Name	Location of	Purchase	Life	Estimated	Remaining Useful	Status of	Condition	Criticality ¹	Order of Priority ²
(e.g., Well 1,	Asset	Date/	Expectancy,	Age, in	Life,	Asset	(See Table 2	(Scale of 1-5)	(1 = highest priority,
Pressure tank 1,	(Attach a map	Installation	in Years	Years	in Years		below for	5 is most	2 = next highest, etc.)
softener 1)	showing the	Date	(See Table 1	(How old is	(life expectancy -		descriptions)	critical to	Poorer condition and
	location of each	(Estimate if	below, if	the asset?)	estimated age; can			function of	higher criticality =
	asset)	unknown)	necessary)		adjust based on			water system	higher priority
					condition/performance)				
						In use	Excellent		
						Available	☐ Good		
						To be	Fair		
						repaired	Poor		
							Very Poor		
						☐ In use	Excellent		
						Available	Good		
						To be	Fair		
						repaired	Poor		
							Very Poor		
						In use	Excellent		
						Available	Good		
						To be	Fair		
						repaired	Poor		
							Very Poor		
						In use	Excellent		
						Available	Good		
						To be	Fair		
						repaired	Poor		
						repaired	Very Poor		
						In use	Excellent		
						Available	Good		
						To be	Fair		
							Poor		
						repaired	P001		

¹<u>Criticality</u> = The largest number will have the greatest risk to the continued operation of the water system if the asset were to fail. For example, if the well pump failed, the water system may not be able to supply water. Therefore, the well pump should have a high criticality value.

²Order of Priority = Assets must be prioritized based on their condition and criticality (i.e., how important the asset is to the function of the water system). Assets in poor or very poor condition should be placed on a timeline for repair, replacement, or rehabilitation based on their criticality value. Assets with a high criticality value are important to the continued operation of the water system. Therefore, assets in poorer condition and that have a higher criticality value should be at the top of the priority list and at the beginning of the timeline to be rehabilitated, repaired, or replaced.

Table 1. Estimated Life Expecta	incy of Assets
Asset	Life Expectancy (years)
Wells	25-35
Pressure Tank	7-10
Chlorination Equipment (e.g.,	10-15
chemical feed pump)	
Pumps	10-15
Other Treatment Equipment	10-15
Storage Tanks	30-60
Distribution Pipes	35-40
Hydrants	40-60
Lab/Monitoring Equipment	5-7
Meters	10-15
Valves	35-40
Backflow Prevention Devices	35-40
Transportation Equipment	10
Buildings	30-60
Computers	5
Electrical Systems	7-10
Source: "Taking Stock of Your Wate	er System: A Simple Asset Inventory for Very

Table 2. Con	Table 2. Condition Descriptions		
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 need to be replaced in		
	the next few years.		
Very Poor	Failure has occurred or is going to occur. Major maintenance		
	is required, or replacement needs to occur.		

Source: "Taking Stock of Your Water System: A Simple Asset Inventory for Very Small Drinking Water Systems." U.S. E.P.A., 2004.

Note: The life expectancy of each asset may vary from the estimates listed above based on site specific conditions (e.g., poor water quality, high humidity), maintenance history (e.g., regularly maintained vs. not maintained), etc.

Section 9. Criteria for Repair, Rehabilitation, and Replacement

Poor or very poor condition (e.g., severely corroded, leaking)
 High criticality value (from Asset Inventory)
 Does not function as intended
 Other – Describe:

Select the criteria that will be used to determine when a water system asset should be repaired, rehabilitated, or replaced (check all that apply):

Other – Describe:

Section 10. Timeline for Repair, Rehabilitation, Replacement, and Expansion of Existing Assets (if applicable)

Order	Project Description	Work Needed	Scheduled	Actual	Funding Source(s)
to be	Describe, in order of priority, any repair,		Completion	Completion	Describe how the
Completed			Date	Date	project will be
Completed	necessary based on the Asset Inventory (Section 8)		2415	2410	funded
	necessary bused on the risset inventory (section by	Rehabilitate/Repair			Junaca
		Replace			
		Expand			
		Any additional notes on work to be done:			
		Any additional notes on work to be done.			
		Debabilities /Dear			
		Rehabilitate/Repair			
		Replace			
		Expand			
		Any additional notes on work to be done:			
		Rehabilitate/Repair			
		Replace			
		☐ Expand			
		Any additional notes on work to be done:			
		Rehabilitate/Repair			
		Replace			
		Expand			
		Any additional notes on work to be done:			
		, additional notes on work to be done.			

Section 11. Capital Improvement Plan Section 11.1 Three to Five Year Capital Improvement Plan

Section 11.1 Three to rive Year Capital improvement Plan
Are any water system projects planned/necessary during the next 3 to 5 years aside from the projects outlined in Section 10 above ("Timeline for Repair,
Rehabilitation, Replacement, Expansion of Existing Assets")?
Yes – Complete the following table describing the 3 to 5 year capital improvement plan
No – Explain:

Project Description Describe any water system projects needed in the next 3 to 5 years (other than the projects outlined in Section 10 above)	Describe why the project is necessary, including the benefits of the project	Year Scheduled	Estimated Cost	Funding Source(s) Describe how the project will be funded
years (other than the projects outlined in Section 10 above)	of the project			be funded

Section 11.2 Five to Twenty Year Capital Improvement Plan Are any other significant water system projects planned for the next 5 to 20 years other than those described in Sections 10 and	d 11 1 abovo?
are any other significant water system projects planned for the next 5 to 20 years other than those described in Sections 10 and	u II.I abover
Yes – Complete the following table describing the 5 to 20 year capital improvement plan	
No – Explain:	
Project Description	Estimated Cost
Describe any significant water system projects anticipated in the next 5 to 20 years (other than the projects outlined above)	

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Section 12. Funding

Describe the water system finances below, or attach the <u>past</u> 5 years of annual financial statements/reports (e.g., describe assets, liabilities, income, expenditures, balances, equity) and the pro forma statement for the <u>next</u> 5 years of operation (e.g., income statement, balance sheet, statement of cash flow for water system fund, debt payments).

1.	Have there been enough funds available to cover the water system expenses over the past 5 years or since opening if less than 5 years? (for example, the license to operate fee, sampling costs, certified operator costs, chemical supplies, water system debt payments, emergency expenses, equipment repairs/replacements, etc.) Yes No – Explain how the water system expenses have been paid:
2.	Do you expect that there will be enough funds available to cover the annual water system expenses over the next 5 years, including funds needed to complete the projects outlined in Sections 10 and 11.1 ("Timeline for Repair, Rehabilitation, Replacement, and Expansion of Existing Assets" and "Three to Five Year Capital Improvement Plan")? Yes No – Explain how the upcoming water system expenses will be paid:
Describ	In 13. Written Policies be below or attach the documentation and/or written procedures for the following topics. In 13.1 Security Do you have documentation related to water system security (e.g., protecting water system equipment)? Yes Yes
	Documentation is attached, orDescribe the location of the documentation:
	No – Describe the security policies for the water system (e.g., equipment rooms locked, how often are areas with water system component patrolled, what measures have been taken to protect water system equipment from damage/vandalism (e.g., fencing)):
	Not applicable – Explain:

Section 13.2 Use of Water System Equipment
2. Do you have documentation for use of water system equipment (e.g., who, what, when, why, and/or how people can use water system equipment)?
Yes
Documentation is attached, orDescribe the location of the documentation:
Describe the location of the documentation:
No – Describe the process for how water system equipment can be used:
No - Describe the process for now water system equipment can be used.
Not applicable – Explain (e.g., there is no equipment available for use):
Section 13.3 Billing Practices and Revenue Collection
Do you have documentation for billing practices and revenue collection?
Yes
Documentation is attached, or
Describe the location of the documentation:
No – Describe the process for billing and revenue collection for the water system:
Not applicable – Explain:
(For example, we do not bill for water usage)

mergency purchases:
u a ka a a a li a a la la
Not applicable
mergency purchases:
Not applicable
NOL ADDIICADIE

Section 14. Operation and Maintenance Program

Attach the operation and maintenance program for the water system or describe the program below, in accordance with OAC Rules 3745-83-01(H) and 3745-87-03(B)(4).

Section 14.1 Standard Operating Procedures

Describe the standard operating procedures necessary to ensure daily operation of the water system.

Standard Operating Procedures to Ensure Daily Operation of Water System	
Work Completed (e.g., Describe checks performed, work completed, samples collected)	Frequency Completed Check the box below to indicate how frequently each task is completed
	Daily Weekly Monthly Other:

Section 14.2 Maintenance Log

Include the maintenance schedule or supporting documentation of work performed for each asset, as applicable (e.g., maintenance on wells, pressure tanks, water treatment facilities/equipment, distribution system components including valves and hydrants, auxiliary power, pump stations, electrical equipment and controls)

Maintenance Log					
Asset Name	Describe Maintenance Work to Perform	Date Scheduled	Date Performed		

Section	15	Motrice
76(11(1))	17	

Section 15. Metrics						
	Annual Metrics Data Insert the year at the top of each column. Then, insert the metrics data for each year. This data must be reported to Ohio EPA annually online. Contact Ohio EPA's Central Office for more information.					
Metric:	20	20	20	20	20	
Total number of days when water system pressure was less than 20 psi (e.g., depressurized):						
Total number of <u>emergency</u> repair, rehab or replacement tasks for the water system:						
Total number of <u>planned</u> repair, rehab or replacement tasks for the water system:						
Amount of money set aside for unanticipated public water system expenses (i.e., Reserve funds):						
Total number of days unable to serve water:						
Section 16. Emergency and Contingency F	Planning					

Section 16.1 Emergency Contacts

The following people should be contacted, as applicable, if any of the emergency circumstances outlined in Section 16.2 below occur. Please describe how and when each group will be contacted following an emergency. Contact information (e.g., phone numbers, emails) is included in Section 17 below.

Contacts	Describe how each contact will be notified	Describe when each contact will be notified
Ohio EPA:	Phone call	Immediately, but within 24 hours
	Email	
	Other:	
Water Users:	Phone call	[Immediately
	Email	Within 24 hours
	Posting or door hangers	Other:
	Other:	

Line breaks that affect the routine

Depressurizations due to other causes

delivery or treatment of water

(e.g., power failure)

Contacts	Describe how each contact will be notified	Describe when each	contact will be notified
County Health Department:	Phone call Email Other:	Immediately Within 24 hours	
County Emergency Management Agency (EMA):	Phone call Email Other:	Immediately Within 24 hours Other:	
Other:	Other:	Immediately Within 24 hours	
	nces bing the response to each of the emergency circul vater systems are required to follow their conting		
Emergency Circumstance	Describe procedures to be followed to act (e.g., actions taken to restore water)	Idress the situation	If you need to collect water samples during/after the emergency, where should the samples be collected from?
Pump or motor failure			Raw water/before treatment 1st sample tap available after any treatment Other:
Loss of water from a well or other water source			Raw water/before treatment Other:

Representative tap(s) in the distribution system

Representative tap(s) in the distribution system
Other:

Other: _____

Emergency Circumstance	Describe procedures to be followed to address the situation (e.g., actions taken to restore water)	If you need to collect water samples during/after the emergency, where should the samples be collected from?	
Unplanned absence of operator		N/A	
Contamination of source water including, but not limited to, releases of oil and hazardous substances		☐ 1 st sample tap available after any treatment, and/or as directed by Ohio EPA ☐ Other:	
Exceedance of E. coli maximum contaminant level (MCL)		As listed in the total coliform sample siting plan, and as directed by Ohio EPA Other:	
Exceedance of nitrate/nitrite MCL		1st sample tap available after any treatment, and/or as directed by Ohio EPA Other:	
Exceedances of other MCLs (for nontransient noncommunity (NTNC) PWSs only)		☐ 1 st sample tap available after any treatment, and/or as directed by Ohio EPA ☐ Other:	
Exceedances of an action level (ALE) (for NTNC PWSs only)			
Violation of a treatment technique (e.g., failure to complete corrective actions following a Level 1 or Level 2 assessment, failure to complete the seasonal start-up procedure, failure to respond to a significant deficiency)		As directed by Ohio EPA	

Section 17. External Contacts

Include contact information for individuals and resources necessary to properly operate your public water system.

Contact Type	Contact Name	Day Time	After Hours	Email
		Phone Number(s)	Phone Number(s)	
Ohio EPA District Office			1-800-282-9378	
Corporate emergency contact,				
if applicable				
Corporate regional contact,				
if applicable				
Fire Department				
Police/Sheriff				
County Emergency				
Management Agency (EMA)				
Local Health Department				
Ohio EPA Certified Laboratory				
Electric Power Supplier				
Electrician				
Well Driller				
Plumber				
Other:				
Other:				
Other:				
Posted in an accessib Trained all employee Will contact as neces	ontacts list be used (check all that apply ble in an accessible location for all staff to s on use of contact list for water system sary st to all employees with responsibilities	use issues and emergencie	s	

Section 18. Source Water Protection

A source water assessment has been conducted for your public water system by Ohio EPA. This document includes an assessment of the susceptibility of your water source to contamination, a map of potential sources of contamination in your area, and a checklist of strategies to protect your well/source. Please contact the Ohio EPA district office to obtain a copy of your source water assessment if a copy is not already on site.

Section 18.1 Source Water Assessment

The source water assessment completed by Ohio EPA must be reviewed annually. To do so, review the map for any potential contaminant sources that have been removed or added (e.g., fuel tank installed/removed, septic system installed/removed, chemical storage shed constructed/removed). If changes are necessary, contact Ohio EPA.

Year:	20	20	20	20	20
Date Source Water Assessment Reviewed					
(Required at least annually)					

ction 18.2 Source Water Protective Strategies Checklist
ve you completed the source water protective strategies checklist and submitted it to Ohio EPA?
Yes.
a. Date submitted to Ohio EPA:
b. Date of most recent review:
The checklist must be reviewed and updated at least once every 5 years. If changes are made to the checklist during the review, submit a revised copy to the Ohio EPA district office within 60 days.
No. It is recommended that all public water systems have a source water protection plan to protect their source (e.g., well) from potential contamination. Please contact the Ohio EPA district office if you need assistance with completing the plan.
Not applicable.
a. Do you have an endorsed source water protection plan from Ohio EPA (e.g., you completed and submitted a comprehensive plan beyond the protective strategies checklist and the plan was endorsed by Ohio EPA)?
Yes - Date of most recent review: NTNC water systems must review it at least once every 3 years, or as specified in the plan.
□ No

Appendix A. Contact Informa	ation		
Contact Name		Contact Type:	Business Owner
Address		(check all that apply)	Property Owner
		_	Manager
Phone			Financial Contact
Email			Water System Operator
To whom does this person			Sample Collector
report?			Maintenance Staff
Credentials			
Water system job	Operations Maintenance Treatment Distribution		
duties/responsibilities (req'd)			
	Other:		
Contact Name		Contact Type:	Business Owner
Address		(check all that apply)	Property Owner
Phone			Financial Contact
Email			Water System Operator
To whom does this person			Sample Collector
report?			Maintenance Staff
Credentials			
Water system job	Operations Maintenance Treatment Distribution		
duties/responsibilities (req'd)			
	Other:		
Contact Name		Contact Type:	Business Owner
Address		(check all that apply)	Property Owner
Phone		_	Manager
Email			Financial Contact Water System Operator
			Sample Collector
To whom does this person			Maintenance Staff
report?			
Credentials			
Water system job	Operations Maintenance Treatment Distribution		
duties/responsibilities (req'd)			
	Other:		