



PUBLIC WATER SUPPLIER SELF-ASSESSMENT FORM

Note: Please complete a form for each drinking water source.

DATE:	PWS ID #:	SOURCE NAME:
SYSTEM NAME:		SOURCE ID #: (ASSIGNED BY DEP)
CONTACT ADDRESS:		CONTACT NAME:
		CONTACT PHONE #:
COUNTY:	MUNICIPALITY:	
SIGNATURE OF ASSESSOR:		
TITLE:		
EMAIL ADDRESS:		

INTRODUCTION

The Department of Environmental Protection is requesting all public water suppliers to complete a Self-Assessment Form for each water source they utilize. The purpose of the Self-Assessment is to identify critical areas or potential sources of contamination within your watershed or wellhead protection area (WHPA).

Use **readily available** data, including your Annual Sanitary Survey, to complete the form. In addition, consider the following:

- Raw water quality data;
- Current and potential land use practices; and
- Facilities located within the watershed or WHPA that could potentially contaminate the source.

The Department will combine this information with data we have to complete a final source water assessment report for each drinking water source. Ultimately, water suppliers will be able to use this report to develop and implement voluntary, local, source water protection programs.

DELINEATION AREA

The focal point of a source assessment is the identification or delineation of the source water protection area. Please use the enclosed 7.5 minute quadrangle map that depicts your study area. Listed below are delineation guidelines. These guidelines are included to assist you in understanding how water supply sources are delineated. If you have already performed a rigorous delineation, please provide the appropriate mapping.

Groundwater Sources

The Pennsylvania State Drinking Water Act Regulations define a three-tiered wellhead protection area for groundwater sources serving public water supplies. The default ½ mile radius (Zone II) has been delineated for your water supply source(s).

Zone I is the innermost protective zone immediately surrounding the well. It ranges from a radius of 100 to 400 feet depending on source and aquifer characteristics. A calculated fixed radius method is used to determine Zone I, which for new sources must be owned or substantially controlled by the supplier.

Zone II is the capture zone. By default it is a ½ mile radius around the source, unless a more detailed delineation is established to identify the surface area overlying the portion of the aquifer through which water is diverted to a well or flows to a spring or infiltration gallery.

Zone III is the area beyond Zone II that contributes surface water or groundwater recharge to the aquifer within the capture zone which may be significant to safeguard the source protection area.

NOTE: Zone III delineations may not be necessary for each well. These delineations will be based on a more rigorous delineation.

Surface Water Sources

The source water protection area for a surface water source is the drainage basin (or watershed) upstream of the intake. Under the source water assessment and protection program, drainage basins are segmented if the drainage basin is greater than 100 square miles. The segmentation for these large watersheds will be three tiered.

Zone A will be a ¼ mile wide area on either side of the river or stream from an area ¼ mile downstream of the intake to a 5-hour time of travel (TOT) upstream.

Zone B will be a two mile wide area on either side of the river or stream extending upstream to a 25-hour TOT.

Zone C will be the remainder of the watershed.

For watersheds with an area less than 100 square miles, a Zone A will be delineated but the remainder of the watershed will be inventoried as Zone B.

For purposes of this self-assessment and for efficiency of space, we have provided a 7.5 minute quadrangle map that delineates your surface water source. The intake is shown with an area 5 miles upstream of the intake. Please provide additional mapping if necessary to depict your concerns for potential contaminant sources to your water source. The final assessment will segment watersheds into Zones A, B and C as stated above.

SITE MAP AND CONTAMINANT INVENTORY FORM

Please complete the attached Site Map and Contaminant Inventory Form to include the following: **NOTE: We are requesting that you provide readily available information to complete this Self-Assessment Form. Much of this requested information can be obtained from your Annual Sanitary Survey.**

Include the following:

1. Confirm that the location of your water supply source(s), as depicted on the enclosed site map, is/are correct. If not correct, please modify the map.
2. Using the Contaminant Inventory Form:
 - List all activities that are a current or potential source of contamination and reference the locations of the activity to the Site Map using a number.
 - Record the facility name and address.
 - Record the approximate distance from the contaminant use activity to the water source.
 - List the type of contaminant – if known. Be as specific as possible.

APPENDIX A includes the Potential Contaminant Source Impact Table. This table is a guide to the potential contaminants associated with particular activities. The activities are grouped by land use categories. Please reference this table when completing the Contaminant Inventory Form.

DATA FORMAT

1. Do you have raw water quality data? Yes No
2. If yes, what is the format of the data?
 - Hardcopy
 - Database Type: _____
 - Microsoft Access
 - Microsoft Excel
3. Could you convert it to a Dbase IV or Microsoft Access Format? Yes No
4. Disk enclosed? Yes No Not Applicable

WHERE TO SEND THE SELF-ASSESSMENT FORM

Please mail the Self-Assessment Form and supporting documentation to the regional office that serves your county.

DEP REGIONAL OFFICES		
<p>Southeast Region - WSM Suite 6010, Lee Park 555 North Lane Conshohocken, PA 19428 610-832-6059</p> <p>Counties: Bucks, Chester, Delaware, Montgomery and Philadelphia</p>	<p>Southwest Region - WSM 400 Waterfront Drive Pittsburgh, PA 15222-4745 412-442-4217</p> <p>Counties: Allegheny, Armstrong, Beaver, Cambria, Fayette, Greene, Indiana, Somerset, Washington and Westmoreland</p>	<p>Southcentral Region - WSM 909 Elmerton Avenue Harrisburg, PA 17110 717-705-4708</p> <p>Counties: Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry and York</p>
<p>Northwest Region - WSM 230 Chestnut St. Meadville, PA 16335-3481 814-332-6899</p> <p>Counties: Butler, Clarion, Crawford, Elk, Erie, Forest, Jefferson, Lawrence, McKean, Mercer, Venango and Warren</p>	<p>Northeast Region - WSM 2 Public Square Wilkes-Barre, PA 18711-0790 570-826-2511</p> <p>Counties: Carbon, Lackawanna, Lehigh, Luzerne, Monroe, Northampton, Pike, Schuylkill, Susquehanna, Wayne and Wyoming</p>	<p>Northcentral Region - WSM 208 W. Third St. Suite 101 Williamsport, PA 17701 570-327-3675</p> <p>Counties: Bradford, Cameron, Clearfield, Centre, Clinton, Columbia, Lycoming, Montour, Northumberland, Potter, Snyder, Sullivan, Tioga and Union</p>

The following sections of this Self-Assessment deal with information on raw water quality, land use within your watershed and facilities located within your watershed that could potentially contaminate the raw water quality of your source. Please provide as much information as possible and use additional pages if necessary.

WATER QUALITY INFORMATION

Please describe types of man induced raw water quality problems that your system incurs. Include problems that require you to change how you treat the water supply. State at what time during the year or under what conditions these water quality problems occur. Use additional pages if necessary.

DESCRIBE YOUR DRAINAGE BASIN

**List current land uses within the drainage basin for groundwater and surface water sources.
Use additional pages if necessary.**

Empty response area for current land uses.

List potential future land uses within your drainage basin. Use additional pages if necessary.

Empty response area for potential future land uses.

APPENDIX A

Potential Contaminant Source Impact Table

The following table is a guide to the potential contaminants associated with particular activities. The activities are grouped by land use categories. These categories include agriculture, commercial, industrial, residential and miscellaneous. In most instances, the potential contaminants are for groundwater and surface water, although for some activities, the threat to one medium (groundwater or surface water) might be more of a concern. Also, the potential contaminants for an activity may not be limited to those listed. Often the potential contaminant depends on the specific chemicals and processes being used in the activity.

ABBREVIATIONS FOR POTENTIAL CONTAMINANTS

MP	Microbiological Pathogens: Total/Fecal Coliform, Viruses, Protozoa
NN	Nitrate / Nitrite
VOC	Volatile Organic Compounds
HM	Heavy Metals
M	Metals
SOC	Synthetic Organic Compounds
T	Turbidity
D	Disinfection byproduct precursors
TO	Taste & Odor precursors
R	Radionuclides (anthropogenic)
PH	Petroleum Hydrocarbons

AGRICULTURAL	Potential Contaminant
Animal feedlots	MP, NN, SOC, M
Dairy farms	MP, SOC, NN,
Fertilizer storage or use	SOC, NN
Manure-spreading or storage	MP, NN
Pesticide storage or use	SOC
Silviculture	T, SOC
Slaughterhouses	MP, NN

COMMERCIAL	Potential Contaminant
Airports	VOC, M, HM, PH
Auto repair shops	VOC, HM, PH, M
Bus and Truck terminals	VOC, HM, SOC, PH
Construction areas	VOC, HM, M
Car washes	T, M
Dry cleaners	VOC
Funeral homes	VOC, SOC, MP
Furniture Refinishing	HM, VOC,
Gas/service stations	VOC, PH, M
Golf courses	SOC, NN, T, HM, M
Junk yards	VOC, HM, M, PH
Laundromats	T
Lumber yards	VOC, HM
Medical facilities	VOC, HM, M, SOC, R
On-lot Wastewater Disposal	MP, NN
Paint shops	VOC, HM
Photo processors	VOC, SOC, HM
Printer and Blueprint shops	VOC, SOC, HM,
Railroad tracks and Yards	VOC, SOC, HM, PH
Repair shops(engine, appliances, etc.)	VOC, HM, PH
Research laboratories	VOC, SOC, HM, M
Rust proofers	HM, VOC
Sand and gravel mining/ washing	T, M, VOC, HM

INDUSTRIAL	Potential Contaminant
Asphalt, Coal tar, and Concrete plants	VOC, PH
Chemical manufacture	VOC, SOC, HM, M
Deep Coal Mining	HM, M, T,
Deep Non-coal Mining	M, HM, T
Electronics manufacture	VOC, SOC, HM, M
Electroplaters	VOC, SOC, HM, M
Food processors	HM, VOC, M,
Foundries or Metal fabricators	HM, VOC, PH
Fuel oil distributors	PH, VOC
Hazardous materials storage, treatment and recycling	VOC, SOC
Industrial lagoons and pits	VOC, HM, M
Industrial parks	VOC, SOC, HM, M, PH, O
Jewelry or Metalplating	VOC, HM, M, SOC,
Machine/metalworking shops	VOC, HM, M, SOC
Metal & Drum reconditioning	VOC, HM, M, SOC
Oil and gas wells/production	M, PH, VOC
Oil Refineries	VOC, PH, HM, M
Plastics Manufacturing	PH, VOC, SOC, HM
Power plants	HM, M
RCRA facilities	VOC, SOC
Storage facilities (petroleum and chemical)	VOC, SOC, PH
Surface Coal Mining	T, M, HM
Surface Non-coal Mining	T, M, HM
Tanneries	HM, M, VOC
Wood preserving facilities	SOC, HM
Quarries	T, M, VOC, HM

RESIDENTIAL	Potential Contaminant
Fuel oil storage	VOC, PH
Household hazardous materials	VOC, SOC
Lawn care	SOC, NN, M
On-lot waste disposal	MP, NN
Swimming Pools	VOC

MISCELLANEOUS	Potential Contaminant
Aboveground storage tanks	VOC, PH
Air Pollution/local sources	N, VOC, M
Aquatic wildlife	MP, NN
Combined sewer outfalls	VOC, SOC, MP, NN, HM, TO
Composting facilities	TO
Dredge disposal	T, VOC, SOC, M, HM
Drinking water treatment plants	M, T
Fire training facilities	VOC, PH, M, HM
Boating yards and marinas	PH, VOC, SOC
Landfills and Dumps	VOC, HM, SOC, NN, MP, M
Land application of sewage sludge	MP, NN, M, HM
Large quantity hazardous waste generators	VOC, SOC, HM
Military facilities (past and present)	VOC, SOC, HM, R, PH
NPDES locations	MP, NN, HM
Pipelines - petroleum	VOC, PH
Pipelines - sewer	MP, NN, T
Recycling or Reduction facilities	VOC
River barges / shipping	VOC, SOC, PH
Road and Maintenance depots	VOC, SOC, M
Road Salt Storage	M
Small quantity hazardous waste generators	VOC, SOC, HM
Snow dumps	M, T
Stormwater facilities	T, VOC, SOC, NN, M
Transportation corridors	SOC, M, T
Underground petroleum storage tank	VOC
Utility substation	SOC, VOC, HM
Waste incinerators	HM, VOC, SOC
Wastewater treatment plants	D, MP, NN, VOC, SOC, M
Road deicing	M
Abandoned wells	SOC, VOC
Wells/Borehole drilling	SOC, VOC, M, T