

## SDWA VULNERABILITY WAIVERS

The objective of the Safe Drinking Water Act (SDWA) Vulnerability Waiver Program is to assure the safety of the drinking water provided by Community Water Supplies (CWS); to encourage supplies to reduce the vulnerability to the groundwater utilized; and to reduce monitoring for Volatile Organic Chemicals (VOCs), Synthetic Organic Chemicals (SOCs) and/or cyanide where the supply is not vulnerable.

All CWS must identify potential sources and routes of groundwater contamination located within their source water protection area. For CWS that have well(s) that utilize a confined aquifer, the source water protection area is defined as a 1,000-foot radial area surrounding each well. For CWS that have well(s) that utilize an unconfined aquifer, the source water protection area is defined as the delineated 5-year recharge area for each well. Furthermore, all CWS must identify and correct any well integrity issues or sanitary deficiencies noted in the most recent public water supply engineering evaluation report, as well as have a favorable monitoring history. In addition, all CWS must develop and submit a Source Water Protection Plan, as outlined in Subtitle F: Public Water Supplies; Part 604, Subpart C:

Waivers issued will be specific for contaminant type and Treatment Plant (TP). Waivers are not issued to emergency wells. Due to their vulnerability, any CWS utilizing surface water or groundwater under the direct influence of surface water are not eligible for the monitoring waiver program. The waiver program applies to parent CWS only. Waivers will be issued under “Special Exception Permits” in accordance with 35 Ill. Adm. Code 602.600.

The application must be completed and include each TP for which a CWS is requesting a waiver.

### **Assistance for Completing the Application**

For answers to questions contact the following:

For general questions concerning issuance of waivers or sample analysis:  
Drinking Water Compliance Assurance Section; 217-785-0561

For questions concerning confined/unconfined aquifer determinations, recharge area delineation, potential source/route identification, contingency planning, or developing a Source Water Protection Plan: Groundwater Section; 217-782-1020

For questions concerning water supply engineering evaluation; Illinois EPA Regional Office

Assistance may also be provided by the Source Water Protection Specialist, Illinois Rural Water Association; 217-287-2115

Additional assistance may be found in Appendix A; Waiver Application/Vulnerability Assessment Guidance, see:

<https://www2.illinois.gov/epa/topics/forms/water-forms/Pages/drinking-water-compliance.aspx>

## **CONSTITUENTS DEPENDENT ON VULNERABILITY OF THE WATER SYSTEM**

Whether a waiver is granted for the following constituents listed below will be assessed based on the use of a contaminant within the source water protection area, on the vulnerability of the aquifer used by the water supply and the result of at least one sample analysis for SOCs and cyanide and 4 consecutive quarters of VOC results for each TP for which a waiver is requested.

### **Synthetic Organic Chemicals (SOCs)**

Alachlor	Dieldrin	Hexachlorocyclopentadiene
Aldrin	Di (2-ethylhexyl) Adipate	Lindane
Atrazine	Di (2-ethylhexyl) Phthalate	Methoxychlor
Benzo (A) Pyrene	Dinoseb	Oxamyl (Vydate)
Carbofuran	Diquat	Pentachlorophenol
Chlordane	Endothall	Picloram
Dalapon	Endrin	Polychlorinated Biphenyls (PCBs)
DDT	Ethylene Dibromide (EDB)	Simazine
Heptachlor	Heptachlor Epoxide	1, 2-Dibromo-3-Chloropropane (DBCP)
2,4,5-TP (Silvex)	Hexachlorobenzene	2,4-Dichloro-Phenoxyacetic Acid (2,4-D)
Toxaphene		

### **Volatile Organic Chemicals (VOCs)**

Benzene	Carbon Tetrachloride	ortho-Dichlorobenzene (1,2-DCB)
Chlorobenzene	1,2-Dichloroethane	para-Dichlorobenzene (1,4-DCB)
1,1-Dichloroethylene	cis 1,2-Dichloroethylene	trans 1,2-Dichloroethylene
Dichloromethane	1,2-Dichloropropane	Ethylbenzene
Styrene	Tetrachloroethylene (TCE)	1,2,4-Trichlorobenzene
Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane
Trichloroethylene	Xylene (Total)	Vinyl Chloride

### **Inorganic Chemicals (IOCs)**

Cyanide

# SDWA VULNERABILITY WAIVER APPLICATION

Provide documentation as outlined below:

## I. Facility Characterization

- A. Facility Name
- B. Facility Number
- C. Treatment Plant (TP) Number
- D. Water Source for TP (list Illinois EPA 5-digit well number for each well that feeds the TP)

## II. List the Illinois EPA 5-digit well number and all potential routes\* located within 1,000 feet of each well utilizing a confined aquifer, or located within the 5-year recharge area for each well utilizing an unconfined aquifer, including:

- A. Potential route owner's name;
- B. Potential route location: provide address if applicable, or locate potential route on an aerial photographic map, Source Water Assessment report map or other map of suitable scale;
- C. Description of the potential route (e.g. improperly abandoned or inactive wells, gravel pit, quarry, drainage well, etc.);
- D. Provide a schedule specifying the time frame in which improperly abandoned or inactive wells will be rehabilitated or properly abandoned in accordance with Section 920.120 of the Illinois Water Well Construction Code.

## III. Well Integrity

- A. List the Illinois EPA 5-digit well number and any defects in the well casing or grouting.
- B. Were any sanitary deficiencies noted in the most recent public water supply engineering evaluation?
- C. If the answer to B was yes – list the Illinois EPA 5-digit well number and describe the action(s) taken to correct the deficiencies.
- D. Have any of your wells had a history of bacterial contamination issues?  
YES or NO (circle correct answer)  
If yes, explain what corrective actions were taken.

## IV. Aquifer Classification

- A. Provide a well log (boring material record) for each well and identify each well log using the Illinois EPA 5-digit number.
- B. If the aquifer utilized by the well(s) is confined, continue the application process by completing the source water protection plan.
- C. If the aquifer utilized by the well(s) is unconfined, your CWS wells must have a delineated 5-year recharge area completed for each well before completing the source water protection plan.

\*Potential route means abandoned and improperly plugged wells of all kinds; drainage wells, all injection wells, including closed loop heat pump wells and any excavation for discovery, development or production of stone, sand or gravel.

**SDWA VULNERABILITY WAIVER APPLICATION**  
**SOURCE WATER PROTECTION PLAN DEVELOPMENT**

Pursuant to the Illinois Environmental Protection Agency, Subtitle F: Public Water Supplies; Part 604, Subpart C: Source Water Protection Plan, each community water supply that treats groundwater as a primary or emergency supply of water must develop a source water protection plan that contains the following minimum elements:

- I. Provide your community water supply's vision statement, including the following:
  - a) the community water supply's policy and commitment to protecting source water;
  - b) an explanation of the community water supply's resources to protect source water;
  - c) an explanation of the barriers to protecting source water; and
  - d) the names of the individuals who developed the vision statement.
  
- II. Provide your community water supply's Source Water Assessment.
  - a) The source water assessment must contain the following information:
    - 1) statement of the importance of the source water;
    - 2) a list of water supplies that obtain water from your community water supply;
    - 3) delineation of all sources of water used by the community water supply, including:
      - A) each well identification number;
      - B) well description, well status and well depth;
      - C) a description of setback zones, and
      - D) a description of the aquifer for each well;
    - 4) a report on the quality of the source water for all sources of water delineated, including:
      - A) when and where samples used to determine the quality of the source water were taken. These samples must be tested by a certified laboratory; and
      - B) the certified laboratory's results;
    - 5) a report on the quality of the finished water;
    - 6) identification of potential sources of contamination to the source water;
    - 7) analysis of the source water's susceptibility to contamination; and
    - 8) explanation of the community water supply's efforts to protect its source water.
  - b) Upon request, the Agency will provide technical assistance to a community water supply in conducting the source water assessment.
  - c) A community water supply may use a Source Water Assessment Program Fact Sheet prepared by the Agency to fulfill the requirements of this Section.

III. Provide your Source Water Protection Plan Objectives.

The source water protection plan must contain a list of the community water supply's objectives for protecting source water. These objectives can include meeting the requirements of any of the elements of this plan, including developing a vision statement or performing a source water assessment. Objectives may also address the specific problems or issues identified in the source water assessment and should consider current and potential future issues.

IV. Provide an Action Plan for meeting your Source Water Protection Plan Objectives.

In the action plan, the community water supply must identify the actions needed to achieve the community water supply's objectives, as determined above. The action plan must include the following:

- a) descriptions of all projects, programs, and activities developed by the community water supply to meet the objectives listed in your Source Water Protection Plan;
- b) the community water supply's schedule for implementing projects, programs and activities;
- c) an identification of the necessary resources to implement the plan; and
- d) an identification of the potential problems with and obstacles to implementing the plan.

I have reviewed the above and all attached documents, and to the best of my knowledge all the information provided is true. I understand that any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h)).

\_\_\_\_\_  
Print name of Official Custodian

\_\_\_\_\_  
Print name of Responsible Operator in Charge

\_\_\_\_\_  
Signature of Official Custodian

\_\_\_\_\_  
Signature of Responsible Operator in Charge

Return application to:

Illinois EPA, Bureau of Water  
Compliance Assurance Section  
Drinking Water Compliance Unit #19  
P.O. Box 19276  
Springfield, Illinois 62794-9276