

**SB0032**



**96TH GENERAL ASSEMBLY**

**State of Illinois**

**2009 and 2010**

**SB0032**

Introduced 1/30/2009, by Sen. Susan Garrett

**SYNOPSIS AS INTRODUCED:**

225 ILCS 320/35.5 new

Amends the Illinois Plumbing License Law. Provides that, if a unit of local government regulates reclaimed water systems, then those reclaimed water systems must meet specific requirements. Effective immediately.

LRB096 02854 ASK 12868 b

**A BILL FOR**

1 AN ACT concerning regulation.

2 **Be it enacted by the People of the State of Illinois,**  
3 **represented in the General Assembly:**

4 Section 5. The Illinois Plumbing License Law is amended by  
5 adding Section 35.5 as follows:

6 (225 ILCS 320/35.5 new)

7 Sec. 35.5. Reclaimed water recycling systems; exemption  
8 for governmental units.

9 (a) For purposes of this Act, "reclaimed water" means a  
10 combination of harvested storm (raw) water, domestic potable  
11 water, and condensated water from air conditioning systems.

12 (b) If a unit of local government regulates reclaimed water  
13 systems, then those reclaimed water systems must meet the  
14 requirements of this Section.

15 (c) Reclaimed water systems must meet all of the following  
16 requirements:

17 (1) All reclaimed water recycling systems must comply  
18 with the provisions of the Illinois Plumbing Code, 77 Ill.  
19 Adm. Code 890.

20 (2) Above-ground drain, waste, and vent piping for  
21 reclaimed water systems must conform to accepted standards  
22 listed in Table A of Appendix A of 77 Ill. Adm. Code 890.  
23 Reclaimed water, underground building drainage, and vent

1 pipe must conform to one of the standards listed in Table A  
2 of Appendix A of 77 Ill. Adm. Code 890.

3 (3) The drain, waste, and vent piping for any reclaimed  
4 water system must be tested in accordance with 77 Ill. Adm.  
5 Code 890.1910.

6 (4) All reclaimed water systems must be inspected in  
7 accordance with 77 Ill. Adm. Code 890.1910.

8 (5) Only connections in accordance with this Section  
9 may be made between a reclaimed water system and a potable  
10 water system.

11 (6) Reclaimed water systems must receive only the water  
12 discharge of gutters, downspouts, roof drains, AC  
13 condensate drains, and potable water system.

14 (7) Reclaimed water must be collected in a reservoir  
15 constructed of durable, nonabsorbent, and  
16 corrosion-resistant materials. The reservoir must be a  
17 closed and vented vessel. Access openings must be provided  
18 to allow inspection and cleaning of the reservoir interior.

19 (8) Harvested rain water entering the reservoir must  
20 pass through an approved filter, such as a media, or mesh  
21 screen.

22 (9) An air gap must be installed downstream of the  
23 potable water fill line connection to the collection  
24 reservoir.

25 (10) The collection reservoir must be equipped with an  
26 overflow pipe having the same or larger diameter as the

1 influent pipe for the harvested storm water. The overflow  
2 pipe must be indirectly connected to drainage swale or  
3 storm sewer.

4 (11) The reservoir must be provided with a vent sized  
5 in accordance with Department requirements and based on the  
6 diameter of the reservoir influent pipe.

7 (d) Systems for flushing water closets and urinals must  
8 meet all of the following requirements:

9 (1) The holding capacity of the reservoir must be a  
10 minimum of twice the volume of water required to meet the  
11 daily flushing requirements of the fixtures supplied with  
12 reclaimed water, but not less than 50 gallons (189 Liters).

13 (2) Reclaimed water must be disinfected by a method  
14 approved by the Department that employs one or more  
15 disinfectants such as chlorine, iodine, or ozone.

16 (3) Potable water must be supplied as a source of  
17 makeup water for the reclaimed water system. The potable  
18 water supply must be protected against backflow in  
19 accordance with 77 Ill. Adm. Code 890.1110.

20 (4) The reclaimed water must be dyed blue or green with  
21 a food grade vegetable dye before such water is supplied to  
22 the fixtures.

23 (5) Distribution piping must conform to one of the  
24 standards listed in Table A of Appendix A of 77 Ill. Adm.  
25 Code 890.

26 (6) Distribution piping and reservoirs must be

1 identified as containing non-potable water. Distribution  
2 fittings to be identified with signs. Piping  
3 identification must be in accordance with 77 Ill. Adm. Code  
4 890.1120.

5 (e) Surface landscape irrigation systems must meet all of  
6 the following requirements:

7 (1) Reservoirs must be sized to maintain a 2-day supply  
8 of irrigation water.

9 (2) The reservoir must be identified as containing  
10 non-potable water.

11 (3) A check valve and a full-open valve located on the  
12 discharge side of the check valve must be installed on the  
13 effluent pipe of the collections reservoir.

14 (4) Makeup water is not required for surface landscape  
15 irrigation systems. Where makeup water is provided, the  
16 installation must be in accordance with paragraph (3) of  
17 subsection (d) of this Section.

18 (5) Disinfection is not required for reclaimed water  
19 used for surface landscape irrigation systems.

20 (6) Reclaimed water used for surface landscape  
21 irrigation systems is not required to be dyed.

22 (7) The system must be sized in accordance with  
23 standards set by the Department.

24 (f) Nothing in this Act prohibits the State or any  
25 governmental unit from installing and using a reclaimed water  
26 recycling system, including systems for flushing of water

1 closets and urinals and surface landscape irrigation systems.  
2 However, any reclaimed water recycling system must be in  
3 accordance with the requirements of this Section.

4 Section 99. Effective date. This Act takes effect upon  
5 becoming law.