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Pat Quinn, Governor Marc Miller, Director

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2012 Annual Water Use Audit Form (LMO-2)

This form must be completed by all Category IA and IIB Permittees for each annual water use accounting year running from October 1, 2011 through September 30, 2012. This form must be submitted to the Department by January 7, 2013.

Section I - General Information

Name, addre	ess and phone number of Permittee:
County	:
Name, addre	ess and phone number of the contact person for the Permittee:
	e-mail address
Authorized Of	ficial
Title:	
Date:	
Please prov	ide leak survey information and population estimates for the last year.
Population:	Number of existing households:

The Illinois Department of Natural Resources is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Chapter 19, Section 120.2 of the Illinois Revised Statutes. Disclosure of this information is required. Failure to provide any information will result in this form not being processed. This form has been approved by the Forms Management Center, CMS.

Section II - Water Use Audit

Enter the amount of water pumped and utilized for each item shown below. All amounts entered in this section must be in units of million gallons per day (mgd) rounded off to three decimal places. Conversion calculations are provided for your use in Section IV.

A. Pumpage Data

Water bought or received from the following distribution systems:

		mg
2. Shallow Aquifer Pumpage		mg
3. Deep Aquifer Pumpage		mg
4. Total Pumpage (add lines 1, 2 & 3)		mg
5. Water Treatment Use		mg
6. Gross Annual Pumpage (subtract line 5 from line 4)		mg
Water sold or provided to any other distribution systems (the amount sold or provided to that system on lines 7 thro required, attach an additional sheet listing each system ar	ugh 12). If additional lines are	
7		mg
8		mg
9		mg
10		mg
11		mg
12		mg
13. Total (add lines 7-12 and any additional amounts)		mg
14. Net Annual Pumpage (subtract line 13 from line 6)		mg
B. Uses	Metered Unmetered	Total
15 Residential		mg
16. Commercial and Manufacturing		mg
17. Municipal		mg
18. Construction		mg
19. Total Uses (add Total lines 15 through 18)		mg
20. Percentage of Total Use to Net Annual Pumpage		
(divide line 19 by line 14 and multiply by 100)		%
C. Hydrant Uses		
21. Firefighting and Training		mg
22. Water Main Flushing		mg
23. Sewer Cleaning		mg
24 Street Cleaning		mg
25. Construction		mg
26. Other (attach explanation)		mg
27 Total Hydrant Use (add lines 21 through 26)		m

Section II - Water Use Audit (continued)

%
1.0 %
%
mgd
%
mgd
%
mgd
%

Please Check Your Calculations

The sum of lines 33 and 35 should equal line 14. If they do not equal, recheck your calculations.

The sum of lines 34 and 36 should equal approximately 100%. If not, check calculations.

Section III - Maximum Unavoidable Leakage Worksheet

Complete the following calculations to determine your maximum unavoidable leakage. Enter the appropriate amounts in the space provided.

A. Cast Iron Pipes With Lead Joints

	Miles of	Leakage	Maximum	
Age of Pipes	Pipe	Rate	Unavoidable Leakage	
1. 60 yrs. or greater		x 3,000 g/d/mi =		g/d
2. 40-60 yrs.		x 2,500 g/d/mi =		g/d
3. 20-40 yrs.		x 2,000 g/d/mi =		g/d
4. 20 yrs. or less		x 1,500 g/d/mi =		g/d

B. All Other Types of Pipes and Joints

	Miles of	Leakage	Maximum	
Age of Pipes	Pipe	Rate	Unavoidable Leakage	
5. 60 yrs. or greater		x 2,500 g/d/mi =		g/d
6. 40-60 yrs.		x 2,000 g/d/mi =		g/d
7. 20-40 yrs.		x 1,500 g/d/mi =		g/d
8. 20 yrs. or less		x 1,000 g/d/mi =		g/d
9. Total Miles		Total Leakage		g/d
10. Total Maximum Unav	oidable Leakage	 e, in mgd		
(divide total leakage	on line 9 by 1,00	00,000)		mge
(Enter this amount o	n line 31 of "Sec	tion II - Water Use Audi		

Section IV - Conversion Table

Below are conversion calculations to convert the most commonly used units to units of million gallons per day (mgd).

To convert cubic feet per year (cf) to (mgd) use: $(cf \times 7.48)/1,000,000/365 = mgd$

To convert gallons per year (g) to (mgd) use: g/1,000,000/365

To convert gallons per day (g/d) to (mgd) use: (g/d)/1,000,000

To convert million gallons per year (mg) to (mgd) use: mg/365 = mgd