

<b>D. Unavoidable Leakage and Unaccounted for Flow</b>	
31 Maximum Unavoidable Leakage (Do worksheet in Section III; enter amount from line 10 of the worksheet)	0.448 MGD
32 Percentage of Maximum Unavoidable Leakage to Net Annual Pumpage (divide line 31 by line 14 and multiply by 100)	7.24 %
33 Total Accounted for Flow (add lines 19, 27 and 31)	5.919 MGD
34 Percentage of Total Accounted for Flow to Net Annual Pumpage (divide line 33 by line 14 and multiply by 100)	95.62 %
35 Total Unaccounted for Flow (subtract amount on line 33 from line 14)	0.271 MGD
36 Percentage of Total Unaccounted for Flow to Net Annual Pumpage (divide line 35 by line 14 and multiply by 100)	4.38 %

**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 your calculations.

**Section III - Maximum Unavoidable Leakage Worksheet**

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

**A Cast Iron Pipes With Lead Joints**

Age of Pipe	Miles of Pipe	Leakage Rate*	Unavoidable Leakage**
1 60 yrs. or greater	_____	x 3000 g/d/mi =	_____ 0 g/d
2 40-60 yrs.	_____	x 2500 g/d/mi =	_____ 0 g/d
3 20-40 yrs.	_____	x 2000 g/d/mi =	_____ 0 g/d
4 20 yrs. or less	_____	x 1500 g/d/mi =	_____ 0 g/d

**B All Other Types of Pipes and Joints**

5 60 yrs. or greater	_____	x 2500 g/d/mi =	_____ 0 g/d
6 40-60 yrs.	82.84	x 2000 g/d/mi =	165680 g/d
7 20-40 yrs.	76.2	x 1500 g/d/mi =	114300 g/d
8 20 yrs. or less	167.917	x 1000 g/d/mi =	167917 g/d
9 Total Miles	326.957	Total Leakage	447897 g/d
10 Total Maximum Unavoidable Leakage, in MGD (divide total leakage on line 9 by 1,000,000)			0.447897 MGD

(Enter this amount on line 31 of "Section II - Water Use Audit")

**Section IV - Conversion Table**

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

To convert cubic feet per year (cf) to (MGD) use:

$$\text{cf} \times 7.48 \div 1,000,000 \div 365 = \text{MGD}$$

To convert gallons per year (g) to (MGD) use:

$$\text{g} \div 1,000,000 \div 365 = \text{MGD}$$

To convert gallons per day (g/d) to (MGD) use:

$$\text{g/d} \div 1,000,000 = \text{MGD}$$

To convert million gallons per year (mg) to (MGD) use:

$$\text{mg} \div 365 = \text{MGD}$$

ILLINOIS  
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Illinois Department of Natural Resources  
Office of Water Resources  
One Natural Resources Way  
Springfield, Illinois 62702 - 1271

36 S. Wabash Avenue., Room 1415, Chicago, Illinois 60603 - 2921 OFC 312/793-3123 FAX 312/793-5968

**2009 Annual Water Use Audit Form (LMO-2)**

Revised Report 01/14/2011

This form must be completed by all Category IA and IIB Permittees for each annual water use accounting year running from October 1st through September 30th. This form must be submitted to Department by January 4, 2010

**Section I- General Information**

**Name, address and phone number of Permittee:**

ILLINOIS - AMERICAN WATER COMPANY  
1000 INTERNATIONALE PARKWAY  
WOODRIDGE, IL 60517  
630-739-8854

County : COOK

**Name, address and phone number of the contact person for the Permittee:**

MR. KEVIN HILLEN  
ILLINOIS-AMERICAN WATER COMPANY      ALPINE HEIGHTS DIVISION  
1000 INTERNATIONALE PARKWAY  
WOODRIDGE, IL 60517  
630-739-8854

**Authorized Official:** KEVIN HILLEN

**Title:** OPERATIONS MANAGER FIELD SERVICES

**Date:** December 30, 2009

Please provide the following leak survey information and population estimates for the last year.

Results and recommendations of leak surveys conducted on the water distribution system including progress made in leak repair. (attach to back of form)

Population 711 Number of existing households 237  
Commercial 0

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, Central Management Services



D. Unavoidable Leakage and Unaccounted for Flow	
31 Maximum Unavoidable Leakage (Do worksheet in Section III; enter amount from line 10 of the worksheet) .....	0.003 MGD
32 Percentage of Maximum Unavoidable Leakage to Net Annual Pumpage (divide line 31 by line 14 and multiply by 100) .....	6.33 %
33 Total Accounted for Flow (add lines 19, 27 and 31) .....	0.055 MGD
34 Percentage of Total Accounted for Flow to Net Annual Pumpage (divide line 33 by line 14 and multiply by 100) .....	111.22 %
35 Total Unaccounted for Flow (subtract amount on line 33 from line 14) ...	-0.005 MGD
36 Percentage of Total Unaccounted for Flow to Net Annual Pumpage (divide line 35 by line 14 and multiply by 100) .....	-11.22 %

**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 your calculations.

**Section III - Maximum Unavoidable Leakage Worksheet**

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

**A Cast Iron Pipes With Lead Joints**

Age of Pipe	Miles of Pipe	Leakage Rate*	Unavoidable Leakage**
1 60 yrs. or greater	_____	x 3000 g/d/mi =	_____ 0 g/d
2 40-60 yrs.	_____	x 2500 g/d/mi =	_____ 0 g/d
3 20-40 yrs.	_____	x 2000 g/d/mi =	_____ 0 g/d
4 20 yrs. or less	_____	x 1500 g/d/mi =	_____ 0 g/d

**B All Other Types of Pipes and Joints**

5 60 yrs. or greater	_____	x 2500 g/d/mi =	_____ 0 g/d
6 40-60 yrs.	_____	x 2000 g/d/mi =	_____ 0 g/d
7 20-40 yrs.	_____	x 1500 g/d/mi =	_____ 0 g/d
8 20 yrs. or less	3.1	x 1000 g/d/mi =	3100 g/d
9 Total Miles	3.1	Total Leakage	3100 g/d
10 Total Maximum Unavoidable Leakage, in MGD (divide total leakage on line 9 by 1,000,000 .....			0.0031 MGD
(Enter this amount on line 31 of "Section II - Water Use Audit")			

#### Section IV - Conversion Table

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

To convert cubic feet per year (cf) to (MGD) use:

$$\text{cf} \times 7.48 \div 1,000,000 \div 365 = \text{MGD}$$

To convert gallons per year (g) to (MGD) use:

$$\text{g} \div 1,000,000 \div 365 = \text{MGD}$$

To convert gallons per day (g/d) to (MGD) use:

$$\text{g/d} \div 1,000,000 = \text{MGD}$$

To convert million gallons per year (mg) to (MGD) use:

$$\text{mg} \div 365 = \text{MGD}$$

ILLINOIS  
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One Natural Resources Way  
Springfield, Illinois 62702-1271

36 S. Wabash Avenue, Room 1415 Chicago, Illinois 60603-2921 312.796.3123 Fax 312.7935968

**2009 Annual Water Use Audit Form (LMO-2)**

Revised Report 01/14/2011

This form must be completed by all Category IA and IIB Permittees for each annual water use accounting year running from October 1st through September 30th. This form must be submitted to Department by January 4, 2010.

**Section I- General Information**

Name, address and phone number of Permittee:

ILLINOIS - AMERICAN WATER COMPANY      COUNTRY CLUB-ELMHURST  
1000 INTERNATIONALE PARKWAY  
WOODRIDGE, IL 60517

County :            DUPAGE

Name, address and phone number of the contact person for the Permittee:

MR. KEVIN HILLEN  
ILLINOIS-AMERICAN WATER COMPANY  
1000 INTERNATIONALE PARKWAY  
WOODRIDGE, IL 60517  
630-739-8845

Authorized Official: KEVIN HILLEN

Title: OPERATIONS MANAGER FIELD SERVICES

Date: 12/13/2009

Please provide the following leak survey information and population estimates for the last year.

Results and recommendations of leak surveys conducted on the water distribution system including progress made in leak repair. (attach to back of form)

Population      1,155      Number of existing households      385

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, Central Management Services.

**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 3 decimal places to the right of the decimal. Conversion calculations are provided for your use in Section IV to convert other commonly used units to MGD.

**A. PUMPAGE DATA**

1 Lake Michigan Pumpage .....	_____	0.09 MGD
2 Shallow Aquifer Pumpage .....	_____	MGD
3 Deep Aquifer Pumpage .....	_____	MGD
4 Total Pumpage (Add lines 1, 2, & 3).....	_____	0.09 MGD
5 Water Treatment Use .....	_____	MGD
6 Gross Annual Percentage (subtract line 5 from line 4).....	_____	0.09 MGD

Water sold or provided to any other distribution systems (enter the name of each system and the amount sold or provided to that system on lines 7 through 12). If additional lines are required, attach an additional sheet listing each system and amount.

7 _____	_____	MGD
8 _____	_____	MGD
9 _____	_____	MGD
10 _____	_____	MGD
11 _____	_____	MGD
12 _____	_____	MGD
13 Total (add lines 7-12 and any additional amounts) .....	_____	0 MGD
14 Net Annual Pumpage (subtract line 13 from line 6) .....	_____	0.09 MGD

**B. USES**

	METERED .....	...UNMETERED	
15 Residential	385	_____	0.072 MGD
16 Commercial and Manufacturing	2	_____	0.008 MGD
17 Municipal	_____	_____	0.001 MGD
18 Construction	_____	_____	MGD
19 Total Uses (add Total lines 15 through 18)	_____	_____	0.081 MGD
20 Percentage of Total Use to Net Annual Pumpage (divide line 19 by line 14 and multiply by 100)	_____	_____	90 %

**C. HYDRANT USES**

21 Firefighting and Training	_____	MGD
22 Water Main Flushing	0.0004	MGD
23 Sewer Cleaning	_____	MGD
24 Street Cleaning	_____	MGD
25 Construction	_____	MGD
26 Other (attach explanation)	_____	MGD
27 Total Hydrant Use (add lines 21 through 26)	0.0004	MGD
28 Percentage of Hydrant Use to Net Pumpage (divide line 27 by line 14 and multiply by 100)	0.44	%
29 Department Requirement for Hydrant Use	1.0	%
30 Excessive hydrant use (subtract line 29 from line 28). If the percentage is greater than 0.0, attach explanation. [see Rule 730307(e)]	-0.56	%

D. Unavoidable Leakage and Unaccounted for Flow	
31 Maximum Unavoidable Leakage (Do worksheet in Section III; enter amount from line 10 of the worksheet) .....	0.007 MGD
32 Percentage of Maximum Unavoidable Leakage to Net Annual Pumpage (divide line 31 by line 14 and multiply by 100) .....	7.44 %
33 Total Accounted for Flow (add lines 19, 27 and 31) .....	0.088 MGD
34 Percentage of Total Accounted for Flow to Net Annual Pumpage (divide line 33 by line 14 and multiply by 100) .....	97.88 %
35 Total Unaccounted for Flow (subtract amount on line 33 from line 14) ...	0.002 MGD
36 Percentage of Total Unaccounted for Flow to Net Annual Pumpage (divide line 35 by line 14 and multiply by 100) .....	2.12 %

**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 your calculations.

**Section III - Maximum Unavoidable Leakage Worksheet**

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

**A Cast Iron Pipes With Lead Joints**

Age of Pipe	Miles of Pipe	Leakage Rate*	Unavoidable Leakage**
1 60 yrs. or greater	_____	x 3000 g/d/mi =	_____ 0 g/d
2 40-60 yrs.	_____	x 2500 g/d/mi =	_____ 0 g/d
3 20-40 yrs.	_____	x 2000 g/d/mi =	_____ 0 g/d
4 20 yrs. or less	_____	x 1500 g/d/mi =	_____ 0 g/d

**B All Other Types of Pipes and Joints**

5 60 yrs. or greater	_____	x 2500 g/d/mi =	_____ 0 g/d
6 40-60 yrs.	0	x 2000 g/d/mi	_____ 0 g/d
7 20-40 yrs.	4.17	x 1500 g/d/mi =	_____ 6255 g/d
8 20 yrs. or less	0.44	x 1000 g/d/mi =	_____ 440 g/d
9 Total Miles	4.61	Total Leakage	_____ 6695 g/d
10 Total Maximum Unavoidable Leakage, in MGD (divide total leakage on line 9 by 1,000,000 .....			_____ 0.006695 MGD
(Enter this amount on line 31 of "Section II - Water Use Audit")			

#### Section IV - Conversion Table

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

To convert cubic feet per year (cf) to (MGD) use:

$$\text{cf} \times 7.48 \div 1,000,000 \div 365 = \text{MGD}$$

To convert gallons per year (g) to (MGD) use:

$$\text{g} \div 1,000,000 \div 365 = \text{MGD}$$

To convert gallons per day (g/d) to (MGD) use:

$$\text{g/d} \div 1,000,000 = \text{MGD}$$

To convert million gallons per year (mg) to (MGD) use:

$$\text{mg} \div 365 = \text{MGD}$$





D. Unavoidable Leakage and Unaccounted for Flow	
31 Maximum Unavoidable Leakage (Do worksheet in Section III; enter amount from line 10 of the worksheet) .....	0.030 MGD
32 Percentage of Maximum Unavoidable Leakage to Net Annual Pumpage (divide line 31 by line 14 and multiply by 100) .....	5.71 %
33 Total Accounted for Flow (add lines 19, 27 and 31) .....	0.518 MGD
34 Percentage of Total Accounted for Flow to Net Annual Pumpage (divide line 33 by line 14 and multiply by 100) .....	98.64 %
35 Total Unaccounted for Flow (subtract amount on line 33 from line 14) ...	0.007 MGD
36 Percentage of Total Unaccounted for Flow to Net Annual Pumpage (divide line 35 by line 14 and multiply by 100) .....	1.36 %

**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 your calculations.

**Section III - Maximum Unavoidable Leakage Worksheet**

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

**A Cast Iron Pipes With Lead Joints**

Age of Pipe	Miles of Pipe	Leakage Rate*	Unavoidable Leakage**
1 60 yrs. or greater	_____	x 3000 g/d/mi =	_____ 0 g/d
2 40-60 yrs.	_____	x 2500 g/d/mi =	_____ 0 g/d
3 20-40 yrs.	_____	x 2000 g/d/mi =	_____ 0 g/d
4 20 yrs. or less	_____	x 1500 g/d/mi =	_____ 0 g/d

**B All Other Types of Pipes and Joints**

5 60 yrs. or greater	_____	x 2500 g/d/mi =	_____ 0 g/d
6 40-60 yrs.	_____	x 2000 g/d/mi =	_____ 0 g/d
7 20-40 yrs.	13	x 1500 g/d/mi =	19500 g/d
8 20 yrs. or less	10.457	x 1000 g/d/mi =	10457 g/d
9 Total Miles	23.457	Total Leakage	29957 g/d
10 Total Maximum Unavoidable Leakage, in MGD (divide total leakage on line 9 by 1,000,000 .....			0.029957 MGD
(Enter this amount on line 31 of "Section II - Water Use Audit")			

#### Section IV - Conversion Table

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

To convert cubic feet per year (cf) to (MGD) use:

$$cf \times 7.48 \div 1,000,000 \div 365 = \text{MGD}$$

To convert gallons per year (g) to (MGD) use:

$$g \div 1,000,000 \div 365 = \text{MGD}$$

To convert gallons per day (g/d) to (MGD) use:

$$g/d \div 1,000,000 = \text{MGD}$$

To convert million gallons per year (mg) to (MGD) use:

$$mg \div 365 = \text{MGD}$$

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36 S Wabash Avenue., Room 1415. Chicago, Illinois 60603 - 2921

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**2009 Annual Water Use Audit Form (LMO-2)**

Revised Report 01/14/2011

This form must be completed by all Category IA and IIB Permittees for each annual water use accounting year running from October 1st through September 30th. This form must be submitted to Department by January 4, 2010

**Section I- General Information**

**Name, address and phone number of Permittee:**

ILLINOIS - AMERICAN WATER COMPANY  
1000 INTERNATIONALE PARKWAY  
WOODRIDGE, IL 60517  
630-739-8854

**County :** COOK and WILL

**Name, address and phone number of the contact person for the Permittee:**

MR. KEVIN HILLEN  
ILLINOIS-AMERICAN WATER COMPANY  
1000 INTERNATIONALE PARKWAY  
WOODRIDGE, IL 60517  
630-739-8854  
HOMER TOWNSHIP DIVISION

**Authorized Official:** KEVIN HILLEN

**Title:** OPERATIONS MANAGER FIELD SERVICES

**Date:** December 30, 2009

Please provide the following leak survey information and population estimates for the last year.

Results and recommendations of leak surveys conducted on the water distribution system including progress made in leak repair. (attach to back of form)

Population 21,498 Number of existing households 7,166  
(Commercial 160)

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D. Unavoidable Leakage and Unaccounted for Flow	
31 Maximum Unavoidable Leakage (Do worksheet in Section III; enter amount from line 10 of the worksheet) .....	<u>0.173 MGD</u>
32 Percentage of Maximum Unavoidable Leakage to Net Annual Pumpage (divide line 31 by line 14 and multiply by 100) .....	<u>9.05 %</u>
33 Total Accounted for Flow (add lines 19, 27 and 31) .....	<u>1.848 MGD</u>
34 Percentage of Total Accounted for Flow to Net Annual Pumpage (divide line 33 by line 14 and multiply by 100) .....	<u>96.64 %</u>
35 Total Unaccounted for Flow (subtract amount on line 33 from line 14) ...	<u>0.064 MGD</u>
36 Percentage of Total Unaccounted for Flow to Net Annual Pumpage (divide line 35 by line 14 and multiply by 100) .....	<u>3.36 %</u>

**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 your calculations.

**Section III - Maximum Unavoidable Leakage Worksheet**

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

**A Cast Iron Pipes With Lead Joints**

Age of Pipe	Miles of Pipe	Leakage Rate*	Unavoidable Leakage**
1 60 yrs. or greater	<u>          </u>	x 3000 g/d/mi =	<u>          </u> 0 g/d
2 40-60 yrs.	<u>          </u>	x 2500 g/d/mi =	<u>          </u> 0 g/d
3 20-40 yrs.	<u>          </u>	x 2000 g/d/mi =	<u>          </u> 0 g/d
4 20 yrs. or less	<u>          </u>	x 1500 g/d/mi =	<u>          </u> 0 g/d

**B All Other Types of Pipes and Joints**

5 60 yrs. or greater	<u>          </u>	x 2500 g/d/mi =	<u>          </u> 0 g/d
6 40-60 yrs.	<u>          </u>	x 2000 g/d/mi =	<u>          </u> 0 g/d
7 20-40 yrs.	<u>78.76</u>	x 1500 g/d/mi =	<u>          </u> 118140 g/d
8 20 yrs. or less	<u>54.84</u>	x 1000 g/d/mi =	<u>          </u> 54840 g/d
9 Total Miles	<u>133.6</u>	Total Leakage	<u>          </u> 172980 g/d
10 Total Maximum Unavoidable Leakage, in MGD (divide total leakage on line 9 by 1,000,000 .....			<u>          </u> 0.17298 MGD
(Enter this amount on line 31 of "Section II - Water Use Audit")			

**Section IV - Conversion Table**

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

To convert cubic feet per year (cf) to (MGD) use:

$$cf \times 7.48 \div 1,000,000 \div 365 = \text{MGD}$$

To convert gallons per year (g) to (MGD) use:

$$g \div 1,000,000 \div 365 = \text{MGD}$$

To convert gallons per day (g/d) to (MGD) use:

$$g/d \div 1,000,000 = \text{MGD}$$

To convert million gallons per year (mg) to (MGD) use:

$$mg \div 365 = \text{MGD}$$

**ILLINOIS  
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Office Of Water Resources

Illinois Department of Natural Resources  
Office of Water Resources  
36 S Wabash Avenue/Suite 1415  
Chicago IL 60603

**2008 Annual Water Use Audit Form (LMO-2)**

Revised Report 01/14/2011

This form must be completed by all Category IA and IIB Permittees for each annual water use accounting year running from October 1st through September 30th. This form must be submitted to Department by January 4, 2010

**Section I- General Information**

Name, address and phone number of Permittee:

ILLINOIS - AMERICAN WATER COMPANY WEST SUBURBAN DVN  
1000 INTERNATIONALE PARKWAY  
WOODRIDGE, IL 60517  
630-739-8854

County : WILL & DUPAGE

Name, address and phone number of the contact person for the Permittee:

MR. KEVIN HILLEN  
ILLINOIS-AMERICAN WATER COMPANY  
1000 INTERNATIONALE PARKWAY  
WOODRIDGE, IL 60517  
630-739-8959

Authorized Official: KEVIN HILLEN

Title: OPERATIONS MANAGER FIELD SERVICES

Date: 23-Dec-09

Please provide the following leak survey information and population estimates for the last year.

Results and recommendations of leak surveys conducted on the water distribution system including progress made in leak repair. (attach to back of form)

Population 62,199 Number of existing households 20,733

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 Fortis Management Center, Central Management Services





#### Section IV - Conversion Table

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

To convert cubic feet per year (cf) to (MGD) use:

$$\text{cf} \times 7.48 \div 1,000,000 \div 365 = \text{MGD}$$

To convert gallons per year (g) to (MGD) use:

$$\text{g} \div 1,000,000 \div 365 = \text{MGD}$$

To convert gallons per day (g/d) to (MGD) use:

$$\text{g/d} \div 1,000,000 = \text{MGD}$$

To convert million gallons per year (mg) to (MGD) use:

$$\text{mg} \div 365 = \text{MGD}$$

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Office of Water Resources  
One Natural Resources Way  
Springfield, Illinois 62702 - 1271

36 S. Wabash Avenue., Room 1415. Chicago, Illinois 60603 - 2921 OFC 312/793-3123 FAX 312/793-5968

**2008 Annual Water Use Audit Form (LMO-2)**

Revised Report 01/14/2011

This form must be completed by all Category IA and IIB Permittees for each annual water use accounting year running from October 1st through September 30th. This form must be submitted to Department by December 31st, 2008

**Section I- General Information**

**Name, address and phone number of Permittee:**

ILLINOIS - AMERICAN WATER COMPANY  
1000 INTERNATIONALE PARKWAY  
WOODRIDGE, IL 60517  
630-739-8854

**County :** COOK

**Name, address and phone number of the contact person for the Permittee:**

MR. KEVIN HILLEN  
ILLINOIS-AMERICAN WATER COMPANY      ALPINE HEIGHTS DIVISION  
1000 INTERNATIONALE PARKWAY  
WOODRIDGE, IL 60517  
630-739-8959

**Authorized Official:** KEVIN HILLEN

**Title:** OPERATIONS MANAGER FIELD SERVICES

**Date:** September 15th, 2010

Please provide the following leak survey information and population estimates for the last year.

Results and recommendations of leak surveys conducted on the water distribution system including progress made in leak repair. (attach to back of form)

Population 711 Number of existing households 237  
Commercial 0

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 Enrms Management Center, Central Management Services



D. Unavoidable Leakage and Unaccounted for Flow	
31 Maximum Unavoidable Leakage (Do worksheet in Section III; enter amount from line 10 of the worksheet) .....	<u>0.003 MGD</u>
32 Percentage of Maximum Unavoidable Leakage to Net Annual Pumpage (divide line 31 by line 14 and multiply by 100) .....	<u>6.12 %</u>
33 Total Accounted for Flow (add lines 19, 27 and 31) .....	<u>0.061 MGD</u>
34 Percentage of Total Accounted for Flow to Net Annual Pumpage (divide line 33 by line 14 and multiply by 100) .....	<u>117.40 %</u>
35 Total Unaccounted for Flow (subtract amount on line 33 from line 14) .....	<u>-0.009 MGD</u>
36 Percentage of Total Unaccounted for Flow to Net Annual Pumpage (divide line 35 by line 14 and multiply by 100) .....	<u>-17.40 %</u>

**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 your calculations.

**Section III - Maximum Unavoidable Leakage Worksheet**

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

**A Cast Iron Pipes With Lead Joints**

Age of Pipe	Miles of Pipe	Leakage Rate*	Unavoidable Leakage**
1 60 yrs. or greater	<u>          </u>	x 3000 g/d/mi =	<u>          </u> 0 g/d
2 40-60 yrs.	<u>          </u>	x 2500 g/d/mi =	<u>          </u> 0 g/d
3 20-40 yrs.	<u>          </u>	x 2000 g/d/mi =	<u>          </u> 0 g/d
4 20 yrs. or less	<u>          </u>	x 1500 g/d/mi =	<u>          </u> 0 g/d

**B All Other Types of Pipes and Joints**

5 60 yrs. or greater	<u>          </u>	x 2500 g/d/mi =	<u>          </u> 0 g/d
6 40-60 yrs.	<u>          </u>	x 2000 g/d/mi =	<u>          </u> 0 g/d
7 20-40 yrs.	<u>          </u>	x 1500 g/d/mi =	<u>          </u> 0 g/d
8 20 yrs. or less	<u>3.1</u>	x 1000 g/d/mi =	<u>3100</u> g/d
9 Total Miles	<u>3.1</u>	Total Leakage	<u>3100</u> g/d
10 Total Maximum Unavoidable Leakage, in MGD (divide total leakage on line 9 by 1,000,000 .....			<u>0.0031</u> MGD
(Enter this amount on line 31 of "Section II - Water Use Audit")			

#### Section IV - Conversion Table

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

To convert cubic feet per year (cf) to (MGD) use:

$$\text{cf} \times 7.48 \div 1,000,000 \div 365 = \text{MGD}$$

To convert gallons per year (g) to (MGD) use:

$$\text{g} \div 1,000,000 \div 365 = \text{MGD}$$

To convert gallons per day (g/d) to (MGD) use:

$$\text{g/d} \div 1,000,000 = \text{MGD}$$

To convert million gallons per year (mg) to (MGD) use:

$$\text{mg} \div 365 = \text{MGD}$$

**ILLINOIS  
DEPARTMENT OF  
NATURAL RESOURCES**  
Office Of Water Resources

Illinois Department of Natural Resources  
Office of Water Resources  
36 S Wabash Avenue/Suite 1415  
Chicago IL 60603

### 2008 Annual Water Use Audit Form (LMO-2)

Revised Report 01/14/2011

This form must be completed by all Category 1A and 1B Permittees for each annual water use accounting year running from October 1st through September 30th. This form must be submitted to Department by January 4, 2009

#### Section I- General Information

Name, address and phone number of Permittee:

ILLINOIS - AMERICAN WATER COMPANY      WEST SUBURBAN DYN  
1000 INTERNATIONALE PARKWAY  
WOODRIDGE, IL 60517  
630-739-8854

County : WILL & DUPAGE

Name, address and phone number of the contact person for the Permittee:

MR. KEVIN HILLEN  
ILLINOIS-AMERICAN WATER COMPANY  
1000 INTERNATIONALE PARKWAY  
WOODRIDGE, IL 60517  
630-739-8959

Authorized Official: KEVIN HILLEN

Title: OPERATIONS MANAGER FIELD SERVICES

Date: 23-Dec-08

Please provide the following leak survey information and population estimates for the last year.

Results and recommendations of leak surveys conducted on the water distribution system including progress made in leak repair. (attach to back of form)

Population 62,199 Number of existing households 20,733

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, Central Management Services.



D. Unavoidable Leakage and Unaccounted for Flow	
31 Maximum Unavoidable Leakage (Do worksheet in Section III; enter amount from line 10 of the worksheet) .....	0.448 MGD
32 Percentage of Maximum Unavoidable Leakage to Net Annual Pumpage (divide line 31 by line 14 and multiply by 100) .....	6.82 %
33 Total Accounted for Flow (add lines 19, 27 and 31) .....	6.167 MGD
34 Percentage of Total Accounted for Flow to Net Annual Pumpage (divide line 33 by line 14 and multiply by 100) .....	93.82 %
35 Total Unaccounted for Flow (subtract amount on line 33 from line 14) . . .	0.406 MGD
36 Percentage of Total Unaccounted for Flow to Net Annual Pumpage (divide line 35 by line 14 and multiply by 100) .....	6.18 %

**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 your calculations.

**Section III - Maximum Unavoidable Leakage Worksheet**

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

**A Cast Iron Pipes With Lead Joints**

Age of Pipe	Miles of Pipe	Leakage Rate*	Unavoidable Leakage**
1 60 yrs. or greater	_____	x 3000 g/d/mi =	_____ 0 g/d
2 40-60 yrs.	_____	x 2500 g/d/mi =	_____ 0 g/d
3 20-40 yrs.	_____	x 2000 g/d/mi =	_____ 0 g/d
4 20 yrs. or less	_____	x 1500 g/d/mi =	_____ 0 g/d

**B All Other Types of Pipes and Joints**

5 60 yrs. or greater	_____	x 2500 g/d/mi =	_____ 0 g/d
6 40-60 yrs.	_____	x 2000 g/d/mi	_____ 0 g/d
7 20-40 yrs.	165.54	x 1500 g/d/mi =	248310 g/d
8 20 yrs. or less	199.74	x 1000 g/d/mi =	199740 g/d
9 Total Miles	358.78	Total Leakage	448050 g/d
10 Total Maximum Unavoidable Leakage, in MGD (divide total leakage on line 9 by 1,000,000 .....			0.44805 MGD
(Enter this amount on line 31 of "Section II - Water Use Audit")			

#### Section IV - Conversion Table

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

To convert cubic feet per year (cf) to (MGD) use:

$$\text{cf} \times 7.48 \div 1,000,000 \div 365 = \text{MGD}$$

To convert gallons per year (g) to (MGD) use:

$$\text{g} \div 1,000,000 \div 365 = \text{MGD}$$

To convert gallons per day (g/d) to (MGD) use:

$$\text{g/d} \div 1,000,000 = \text{MGD}$$

To convert million gallons per year (mg) to (MGD) use:

$$\text{mg} \div 365 = \text{MGD}$$