

**COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION**

**IN THE MATTER OF:**

<b>ELECTRONIC INVESTIGATION INTO THE</b>	)	
<b>MEASURING, RECORDING, AND REPORTING</b>	)	<b>CASE NO.</b>
<b>OF WATER LOSS BY KENTUCKY'S</b>	)	<b>2018-00394</b>
<b>JURISDICTIONAL WATER UTILITIES</b>	)	

**RESPONSE OF  
HARDIN COUNTY WATER DISTRICT NO. 1  
TO  
COMMISSION'S REQUEST FOR INFORMATION  
DATED DECEMBER 18, 2018**

**FILED: JANUARY 14, 2019**

**COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION**

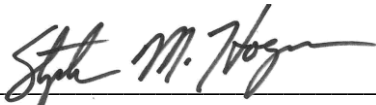
**IN THE MATTER OF:**

<b>ELECTRONIC INVESTIGATION INTO THE</b>	)	
<b>MEASURING, RECORDING, AND REPORTING</b>	)	<b>CASE NO.</b>
<b>OF WATER LOSS BY KENTUCKY'S</b>	)	<b>2018-00394</b>
<b>JURISDICTIONAL WATER UTILITIES</b>	)	

**CERTIFICATION OF RESPONSE OF  
HARDIN COUNTY WATER DISTRICT NO. 1  
TO  
COMMISSION'S REQUEST FOR INFORMATION**

**This is to certify that I have supervised the preparation of Hardin County Water District No. 1's response to the Commission's Request for Information. The response submitted on behalf of HARDIN COUNTY WATER DISTRICT NO. 1 is true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.**

**DATE:** January 14, 2019

  
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**Stephen M. Hogan, P.E.  
General Manager  
Hardin County Water District No. 1**

**HARDIN COUNTY WATER DISTRICT NO. 1'S  
RESPONSE TO COMMISSION'S REQUEST FOR INFORMATION**

**CASE NO. 2018-00394**

**Question No. 1**

**Responding Witness: Stephen M. Hogan, P.E.**

- Q-1. Explain in detail the manner in which you measure, calculate, and track water loss, and:
- a. Identify whether you use any manual form (including Excel spreadsheet) or Electric or mechanized system to calculate and track water loss.
  - b. Provide a copy of any form used (including Excel spreadsheet).
  - c. Identify the source of any form or system used.
- A-1. Hardin County Water District No. 1, through the use of flow meters, sums all water produced at our water plant with all water purchased from our wholesalers to determine total water produced and purchased. We subtract water sold to residential, commercial, industrial and wholesale customers as determined by our billing records. We subtract unsold water used at our water plant, wastewater plant, Fire Department use and system flushing. And we subtract water lost from tank overflows and line breaks. The difference in accounted for water is divided by total water produced and purchased to determine water loss percentage.
- a. Hardin County Water District No. 1 uses an Excel spreadsheet to calculate water loss.
  - b. See attached spreadsheet.
  - c. KRWA is believed to be the creator of the form.

**HARDIN COUNTY WATER DISTRICT NO. 1'S  
RESPONSE TO COMMISSION'S REQUEST FOR INFORMATION**

**CASE NO. 2018-00394**

**Question No. 2**

**Responding Witness: Stephen M. Hogan, P.E.**

- Q-2. Explain in detail your understanding of the information to be provided in each of the categories on the Water Statistics page (reference page 30) of the annual report required of jurisdictional water utilities, accessed through the Commission's website.
- A-2. Line 2 – Volume of Water Produced by the Utility
- Line 3 – Volume of Water Purchased from another Utility
- Line 4 – Total of Water Produced and Water Purchased
- Line 7 – Volume of Water sold to Residential customers
- Line 8 – Volume of Water sold to Commercial customers
- Line 9 – Volume of Water sold to Industrial customers
- Line 10 – Volume of water sold at Bulk Loading Stations
- Line 11 – Volume of Water sold to other Utilities (Wholesale customers)
- Line 12 – Volume of Water sold in other means
- Line 13 – Total of all Water sold
- Line 16 – Volume of Water used in the treatment process at a Utility's Water Treatment Plant
- Line 17 – Volume of Water used in the treatment process at a Utility's Wastewater Treatment Plant
- Line 18 – Volume of Water used by the Utility for system flushing
- Line 19 – Volume of Water used by Fire Departments

Line 20 – Volume of Water used by the Utility for other purposes than lines 16-19

Line 21 – Total of lines 16-20

Line 24 – Volume of Water that was lost due to overflowing a tank

Line 25 – Volume of Water that was lost due to breaks in lines

Line 26 – Volume of Water lost to known water line leaks

Line 27 – Volume of Water lost for other reasons than lines 24-26

Line 28 – Total of lines 24-27

Line 33 – Line 28 divided by Line 4 = the water loss percentage

**HARDIN COUNTY WATER DISTRICT NO. 1'S  
RESPONSE TO COMMISSION'S REQUEST FOR INFORMATION**

**CASE NO. 2018-00394**

**Question No. 3**

**Responding Witness: Stephen M. Hogan, P.E.**

Q-3. State any questions you have regarding how to use the updated Commission Form described and attached as Appendix A to this Order.

A-3. None.

**HARDIN COUNTY WATER DISTRICT NO. 1'S  
RESPONSE TO COMMISSION'S REQUEST FOR INFORMATION**

**CASE NO. 2018-00394**

**Question No. 4**

**Responding Witness: Stephen M. Hogan, P.E.**

Q-4. State any suggestions or improvements you have for the updated Commission Form described and attached as Appendix A to this Order.

A-4. None.

**HARDIN COUNTY WATER DISTRICT NO. 1'S  
RESPONSE TO COMMISSION'S REQUEST FOR INFORMATION**

**CASE NO. 2018-00394**

**Question No. 5**

**Responding Witness: Stephen M. Hogan, P.E.**

- Q-5. State any questions you have regarding how the information in the updated Commission Form described and attached as Appendix A to this Order is to be incorporated into annual reports.
- A-5. No questions.



**HARDIN COUNTY WATER DISTRICT NO. 1'S  
RESPONSE TO COMMISSION'S REQUEST FOR INFORMATION**

**CASE NO. 2018-00394**

**Question No. 6**

**Responding Witness: Stephen M. Hogan, P.E.**

- Q-6. State any concerns you have regarding the use of the updated Commission Form described and attached as Appendix A to this Order.
- A-6. No concerns.

**HARDIN COUNTY WATER DISTRICT NO. 1'S  
RESPONSE TO COMMISSION'S REQUEST FOR INFORMATION**

**CASE NO. 2018-00394**

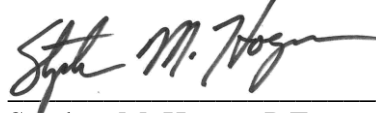
**Question No. 7**

**Responding Witness: Stephen M. Hogan, P.E.**

- Q-7. State whether you believe it is reasonable, proper, and appropriate for the Commission to require jurisdictional water utilities to maintain and use the updated Commission Form described and attached as Appendix A to this Order. Fully explain your answer.
- A-7. Hardin County Water District No. 1 believes it is reasonable, proper and appropriate to require jurisdictional water utilities to use the updated Commission Form.

## CERTIFICATE OF SERVICE

In accordance with 807 KAR 5:001, Section 8, I certify that Hardin County Water District No.1's electronic filing of this Response is a true and accurate copy of the same document being filed in paper medium; that the electronic filing was transmitted to the Public Service Commission on January 11, 2019; that there are currently no parties that the Public Service Commission has excused from participation by electronic means in this proceeding; and that an original paper medium of this Response will be delivered to the Public Service Commission within two business days.

A handwritten signature in black ink, appearing to read "Stephen M. Hogan", written over a horizontal line.

Stephen M. Hogan, P.E.

# Monthly Water Use Report

Water Utility:           Hardin County Water District No. 1

For the Month of:

Year:

LINE #	ITEM	GALLONS (Omit 000's)	%
1	<b>WATER PRODUCED or PURCHASED</b>		
2	Water Produced		
3	Water Purchased		
4	<b>TOTAL PRODUCED AND PURCHASED</b>	0	

<b>WATER SOLD</b>			
5	Residential		
6	Commercial		
7	Industrial		
8	Bulk Loading Stations		
9	Wholesale		
10	Other Sales (explain) _____		
11	<b>TOTAL WATER SOLD</b>	0	
12	<b>TOTAL WATER NOT SOLD</b>	0	

<b>BREAKDOWN OF UNSOLD WATER USED</b>			
13	Utility and/or Water Treatment Plant		
14	Wastewater Plant		
15	System Flushing		
16	Fire Department		
17	Other (explain) _____		
<b>TOTAL UNSOLD WATER USED</b>		0	

<b>BREAKDOWN OF WATER LOST</b>			
18	Tank Overflows		
19	Line Breaks		
20	Other Loss		
<b>TOTAL WATER LOST</b>		0	

<b>"OTHER LOSS" FLOW RATE CALCULATION:</b>			
21	"Other Loss"		0
22	% "Other Loss"		
23	Number of Days in Period		31
24	"Other Loss" per Day (1,000's gallons per Day)		0
25	"Other Loss" per Minute (GPM)		0



This form approved by: EPPC/DEP/DOW, KY PSC, KRWA