SIMPSON COUNTY WATER DISTRICT WATER SHORTAGE RESPONSE PLAN

(Based on Kentucky Water Shortage Response Plan – Revised 6/88)

The KY Natural Resources and Environmental Protection Cabinet has established a Drought Notification System based on weather monitoring data, water resource scientists and federal, state, and local agencies. Two levels of water shortage conditions have been identified.

1. Water Shortage Watch

The Cabinet will announce a <u>Water Shortage Watch</u> when water supply data indicate the potential for water shortages. Local governments and water utility managers are responsible for determining the need for local response and for making preparations for water shortages. The Cabinet must be kept informed of all shortages and actions taken in response to the shortage so the lifting of such measures can be accomplished.

Specific measures SCWD shall take when the Kentucky Division of Water issues a <u>Water Shortage Watch</u> are:

- a) Monitor water supplies daily. Refer to Section 2 "Evaluating Vulnerability to Water Shortages" to determine how much water the community has available and how much will be needed.
- b) Notify the Judge Executive if conditions indicate an inability of the treatment plant to supply the needs of the customers so the appropriate water shortage phase can be activated according to the severity of the conditions.
- c) Keep the Cabinet informed of all actions taken.

2. Water Shortage Warning

The Cabinet will announce a <u>Water Shortage Warning</u> when one or more water supply systems in an area have entered the emergency phase of a water shortage. Local governments and water utility managers should have already adopted water shortage response plans in their areas, and most systems should be in some phase of response to the shortage.

Specific measures SCWD shall take when the Kentucky Division of Water issues a <u>Water Shortage Warning</u> are:

a) Continue to monitor raw water supplies and system demand definition (SERVICE COMMISSION)

b) Notify the Judge Executive if conditions in dicate an interior plant to supply the needs of the customers so an appropriate water shortage phase can be activated according to the severity of the conditions

c) Keep the Cabinet informed of all actions taken

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PURSUANT TO 807 KAR 5:011 SECTION 9 (1)

Should water supply data and/or system demand data indicate an inability to supply customers at current operational levels, SCWD shall notify the Judge Executive who shall issue a water shortage notification to the public based on the severity of the situation. Notifications in order of severity are:

1. Advisory Phase

- Issue water shortage advisory
- Set conservation goals and prepare for decreasing supply
- Inform the public about the potential problem
- Request voluntary conservation (Expect only 5-15% reduction in demand)

2. Alert Phase

- Issue water shortage alert
- Set more stringent conservation goals
- Restrict Class 3, non-essential, water uses to odd/even schedule
- Request voluntary conservation for all water use
- Inform the public about the problem
- Monitor compliance with the restrictions on Class 3 use and enforce when necessary

3. Emergency Phase

- Issue water shortage emergency declaration
- Set more stringent conservation goals
- Ban all Class 3 and restrict all Class 2 water uses
- Inform the public
- Enact conservation pricing
- Monitor all drought-related activities, especially compliance with the bans. Enforce as necessary

4. Rationing Phase

- Begin mandatory allocations of water
- Immediately reduce usage by 25 percent
- Ban Class 3 uses, restrict Class 2 and Class 1 water uses
- Inform the public
- Enact conservation pricing
- Set new conservation goals and monitor all shortage-related activities, especially compliance with the allocations. Enforce as necessary

Evaluating Vulnerability to Water Shortages

Three conditions exist which can create water shortage:

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1. **Inadequate raw water supply**

 Old Hickory Lake is controlled by the flood control day Goodlettsville, Tennessee and operated by the Army Co.

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Y Lake,

5/25/2013

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EXECUTIVE DIRECTOR

- White House Utility District owns and operates the Water Treatment Plant which supplies water on a contract basis to Simpson County Water District.
- White House Utility District has a Drought Management Plan on file with the Simpson County Water District.

2. Increasing demand exceeding treatment capacity

• White House Utility District has a District Management Plan on file with the Simpson County Water District.

3. Increased demand exceeding distribution system capacity from WHUD

SCWD purchases its water supply from WHUD and may implement various phases of the Water Shortage Response Plan due to inability of the water transmission system to deliver water to the distribution system.

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For La	ast Month:			
	Average use in		1	mgd
	Average use in	2 yrs ago	1	mgd
	Average use in	1 yr ago	r	ngd
	Average use in	this year	1	mgd
For Cu	arrent Month:			
	Average use in	for past 5 years	1	mgd
	Average use in	2 yrs ago	1	mgd
	Average use in	1 yr ago	r	ngd
	Average use in	this year	1	mgd
	Usage Notes:			
	Weather Notes:			
Theref	Fore, average projected us	se for	<u>.</u>	
Witho	ut conservation measures	: :		_mgd
With voluntary conservation measures: (goal of 10% reduction)				_mgd
With more extensive conservation measures: (goal of 20% reduction)				_mgd
Measu	are the ability to meet den	nand:		

Projected use (mgd) x 100 Stream Flow (mgd)

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EXAMPLES OF PRESS RELEASES

Advisory Phase

Simpson County, KY – Due to the recent abnormally dry weather conditions and				
little indication of significant rainfall in the foreseeable future, residents of				
Simpson County should begin conserving water. For the month(s) of				
, Simpson County received only percent of normal rainfall for				
the comparable period. The 30-day outlook from the National Weather Service				
calls for more abnormally dry weather.				
The State of Kentucky has declared a local water shortage ADVISORY At this				

The State of Kentucky has declared a local water shortage ADVISORY. At this time, there is an immediate need to begin voluntary conservation measures.

According to officials at the Kentucky Division of Water, consumers can cut water use by as much as 15% with very little difficulty or discomfort by using voluntary water conservation practices.

All non-essential uses of water should be minimized, such as watering lawns, washing cars, and hosing off pavement.

If everyone cooperates, the water usage in Simpson County can be cut significantly. If you have questions or suggestions, please contact _____ at (270) 598-9926.

Alert Phase

Simpson County, KY – A water shortage ALERT has been declared for the Simpson County Water District service area.

(Describe the supply situation, given unrestricted water demand.)

Under the ALERT, and in order to ensure adequate supplies for necessary uses, citizens are urged to practice conservation in all use of water. Non-essential water use is restricted according to the following schedule:

1. Outside use for addresses ending in an odd number shall be limited to Tuesdays, Thursdays and Saturdays.

2. Outside use for addresses ending in an even number shall be limited to Wednesdays, Fridays and Sundays. **KENTUCKY**PUBLIC SERVICE COMMISSION

Non-essential use includes ornamental watering, filling FR DEROLEN pools, washing of motor vehicles, driveway or ravement washing refilling of air conditioning cooling towers, and the serving of water in restaurants except by request.

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Conservation of all water uses, accompanied by these restrictions, can reduce water use by 15 - 30 percent. Simpson County Water District customers can extend limited water supplies, avoiding further restrictions, by observing these bans and conserving water at all times.

(Project results of compliance)

If everyone cooperates, the water usage in Simpson County can be cut significantly. If you have questions or suggestions, please contact ______(270) 598-9926.

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