

For Muhlenberg County  
Community, Town or City

P.S.C. Ky No. \_\_\_\_\_

\_\_\_\_\_ Sheet No. \_\_\_\_\_

Muhlenberg County Water District  
Name of Issuing Corporation

Cancelling P.S.C. Ky. No. \_\_\_\_\_

\_\_\_\_\_ Sheet No. \_\_\_\_\_

Attached hereto and made a part hereof is the Muhlenberg County Water District Water Shortage Response Plan and Certification concerning Muhlenberg County Water District review of said plan. Same is hereby established as a tariff of the Muhlenberg County Water District for its Water Shortage Response Plan.

DATE OF ISSUE July 29, 2005 DATE EFFECTIVE \_\_\_\_\_

ISSUED BY Bobby Creager Chairman  
Name of Officer Bobby Creager Title

PUBLIC SERVICE COMMISSION  
OF KENTUCKY  
EFFECTIVE  
11/4/2005

Issued by authority of an Order of the Public Service Commission of Kentucky in Case No. \_\_\_\_\_, dated Sept. 26, 2005.

By [Signature]  
Executive Director

WATER SHORTAGE RESPONSE PLAN

MUHLENBERG COUNTY WATER DISTRICT

Section 1. Purpose. The purpose of this Plan is to provide for the declaration of official phases of water supply shortages and the implementation of voluntary and mandatory water conservation measures throughout the Muhlenberg County Water District in the event a shortage is declared.

Section 2. Definitions. These terms are applicable only for this Plan unless specifically noted.

- (a) "Customer" shall mean any person or entity using water for any purpose from the Muhlenberg County Water District water distribution system and for which either a regular charge is made or, in the case of bulk sales, a cash charge is made at the site of delivery.
- (b) "Raw Water Supplies" shall mean all water potentially available to persons in the Muhlenberg County Water District.
- (c) "Treated Water" shall mean water that has been introduced by the Muhlenberg County Water District into its water distribution system, including water offered for sale. Uses of treated water are classified as follows:

Essential Water Uses (Class 1):

The following uses of water, listed by site or user type, are essential.

Domestic:

- water necessary to sustain human life and the lives of domestic pets, and to maintain minimum standards of hygiene and sanitation.

Health Care Facilities:

- patient care and rehabilitation, including related filling and operation of swimming pools.

Water Hauling:

- sales of domestic use where not reasonably available elsewhere.

Public Use:

- firefighting,
- health and public protection purposes, if specifically approved by health officials.

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Socially or Economically Important Uses (Class 2):

The following uses of water, listed by site or user type, are socially or economically important.

Domestic:

- personal, in-house water use including kitchen, bathroom and laundry.

Water Hauling:

- non-domestic, when other sources are not reasonably available elsewhere.

Commercial and Civic Use:

- commercial car and truck washes,
- laundromats
- restaurants, clubs and eating places,
- schools, churches, motels/hotels and similar commercial establishments.

Outdoor Non-Commercial Watering:

- minimal watering of vegetable gardens,
- minimal watering of trees where necessary to preserve them.

Outdoor Commercial or Public Watering (using conservation methods and when other sources of water are not available or feasible to use):

- agricultural irrigation for the production of food and fiber or the maintenance of livestock,
- watering by arboretums and public gardens of national, state, regional or community significance where necessary to preserve specimens,
- watering by commercial nurseries at a minimum level necessary to maintain stock,
- watering at a minimum rate necessary to establish or maintain revegetation or landscape plantings required pursuant to law or regulation,
- watering of woody plants where necessary to preserve them,
- minimal watering of golf course greens.

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Recreational:

- operation of municipal swimming pools and residential pools that serve more than 25 dwelling units.

Air Conditioning:

- refilling for startup at the beginning of the cooling season,
- make-up of water during the cooling season,
- refilling specifically approved by health officials where the system has been drained for health protection or repair services.

Non-Essential Uses (Class 3):

Any waste of water, as defined herein, is non-essential. The following uses of water, listed by site or user type, are non-essential.

Public Use:

- use of fire hydrants (excluding Class 1 and Class 2 uses), including use of sprinkler caps, testing fire apparatus and fire department drills,
- flushing of sewers and hydrants except as needed to ensure public health and safety as approved by health officials.

Commercial and Civic Use:

- serving water in restaurants, clubs, or eating places, except by customer request,
- failure to repair a controllable leak,
- increasing water levels in scenic and recreational ponds and lakes, except for the minimum amount required to support fish and wildlife.

Ornamental Purposes:

- fountains, reflecting pools and artificial waterfalls.

Outdoor Non-Commercial Watering:

- use of water for dirt control or compaction,
- watering of annual or non-woody plants, lawns, parks, golf course fairways, playing fields and other recreational areas,
- washing sidewalks, walkways, driveways, parking lots, tennis courts or other hard-surface areas,
- washing down buildings or structures for purposes other than immediate fire protection,

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- flushing gutters or permitting water to run or accumulate in any gutter or street.

Outdoor Commercial or Public Watering:

- expanding nursery facilities, placing new irrigated agricultural land in production, or planting of landscaping except when required by a site design review process,
- use of water for dirt control or compaction,
- watering of lawns, parks, golf course fairways, playing fields and other recreational areas,
- washing sidewalks, walkways, driveways, parking lots, tennis courts or other hard-surface areas,
- washing down buildings or structures for purposes other than immediate fire protection,
- flushing gutters or permitting water to run or accumulate in any gutter or street.

Recreational uses other than those specified in Class 2.

Non-commercial washing of motor and other vehicles.

Air Conditioning (see also Class 2 purposes):

- refilling cooling towers after draining.

- (d) "Base Entitlement" shall mean the monthly usage for a customer during the same month of the preceding calendar year or the average per customer usage for each class of service during the same month of the preceding year.
- (e) "Curtailed Entitlement" shall mean the monthly usage for a customer after any curtailment percentage has been applied.
- (f) "Curtailment" shall mean the reduction in entitlement by some percentage to meet anticipated water shortages.
- (g) Water Shortage Response Phases:

"Advisory" shall mean that conditions exist which indicate the potential for serious raw or treated water supply shortages.

"Alert" shall mean the raw or treated water supplies are consistently below seasonal averages, and if they continue to decline, may not be adequate to meet normal needs.

"Emergency" shall mean that raw or treated water supplies are below the level necessary to meet normal needs and that serious shortages exist in the area.

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(h) "Rationing" shall mean that procedures must be established to provide for the equitable distribution of critically-limited raw or treated water supplies, in order to balance demand and limited available supplies, and to assure that sufficient water is available to preserve public health and safety.

Section 3. Applicability. The provisions of this Plan shall apply to all retail and wholesale customers of the Muhlenberg County Water District. When implemented, this Plan becomes Muhlenberg County Water District's Water Shortage Response Regulation.

Section 4. Entitlements. Entitlements shall be established for each customer by adjusting the base entitlement to reflect any known change in usage pattern.

Section 5. Determination of Water Shortage. Water supply and usage shall be monitored on a continuous basis. Unrestricted demand shall be projected from past records and adjusted for changes such as new developments and weather conditions on a regular basis. (Note: A sample calculation page is attached as Appendix A to assist in determining overall water levels. It is important that accurate water measurements be used.) Water shortages generally occur for two reasons, a reduction in available supplies or a system failure. Each of these has a distinct influence on the nature and duration of the conservation programs implemented. Official declaration of a water shortage stage and implementation of the measures necessary to curtail water use shall be approved by the manager and Muhlenberg County Water District Board of Commissioners.

Section 6. Term of Water Shortage Declaration. Any water shortage declaration shall remain in effect until water supplies of service conditions have returned to normal. A final determination as to terminating a water shortage declaration shall be made by the Muhlenberg County Water District Board of Commissioners.

Section 7. Water Shortage Stage, Criteria, Conservation and Curtailment Measures.

A. Advisory Stage:

(1) Criteria: A water advisory shall be declared when the amount of treated water available is projected to be up to 10% below demand, or there are periods of no water pressure in one or more areas of the distribution system due to system failure or inadequacies or the State Division of Water issues a Water Shortage Watch which includes the areas from which the Muhlenberg County Water District draws water.


(2) Conservation and Curtailment Measures:

(a) Declare a Water Shortage Advisory.

(b) Provide proper notice to all customers and the local news media.

(c) Eliminate water leaks.

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- (d) Request voluntary conservation of all non-essential (Class 3) water use.
- (e) Request wholesale customers also issue request for voluntary conservation by their customers of all non-essential (Class 3) water use.

B. Alert Stage:

- (1) Criteria: A water alert shall be declared when the amount of treated water available is projected to be up to 15% below demand, or water supplies are consistently below seasonal averages and if they continue to decline, may not be adequate to meet normal needs.
- (2) Conservation and Curtailment Measures:
  - (a) Declare Water Shortage Alert.
  - (b) Provide proper notice to all customers and to all local news media.
  - (c) Eliminate water leaks.
  - (d) Prohibit all non-essential (Class 3) water uses.
  - (e) Curtail entitlements to all customers by the same percentage as the projected shortage.
  - (f) Begin billing all customer water usage in excess of curtailed entitlement at double the normal rate.

C. Emergency Stage:

- 1. Criteria: A Water Emergency shall be declared when the amount of treated water available is projected to be up to 20% below demand, or there are periods of no water in one or more areas of the distribution system due to water supplies below the level necessary to meet normal needs.
- 2. Conservation and Curtailment Measures:
  - (a) Declare Water Shortage Emergency.
  - (b) Provide proper notice to all customers and to all local news media.
  - (c) Eliminate water leaks.
  - (d) Prohibit all Class 3 uses of water.
  - (e) Prohibit all Class 2 use of water except domestic uses for kitchens, bathrooms and laundries.

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- (f) Curtail all commercial and industrial entitlements (except Health Care Facilities) by 100%.
- (g) Curtail Residential entitlements by the same percentage as the projected shortage.
- (h) Curtail entitlements to all wholesale customers by the same percentage as the projected shortage.
- (i) Begin billing all customers water usage in excess of curtailed entitlement at double the normal rate.

D. Rationing Stage:

- 1. Criteria: Treated water available is greater than 20% below demand or water supplies are below the level necessary to meet essential needs, and in the opinion of the Muhlenberg County Water Board of Commissioners, mandatory rationing is required to insure adequate water is available to maintain public health and safety.

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2. Conservation and Curtailment Measures:

- (a) Declare Water Shortage Rationing.
- (b) Provide proper notice to all customers and to all local news media.
- (c) Eliminate water leaks.
- (d) Prohibit all Class 3 and Class 2 uses of water.
- (e) Curtail all commercial and industrial entitlement (except Health Care Facilities) by 100%.
- (f) Curtail all residential and wholesale entitlements by the same percentage as the projected shortage.
- (g) Implement service interruptions to portions of system in accordance with approved published schedule. The schedule shall be provided to all local media.
- (h) Begin billing customer water usage in excess of curtailment entitlement at double the normal rate.

Section 8. Enforcement Water Restriction. Any person who violates the provisions of this Plan, who fails to carry out the duties and responsibilities imposed by this Plan, or who impedes or interferes with any action undertaken or ordered pursuant to this Plan shall be subject to the following:

- (a) If the utility official charged with implementation and enforcement of this Plan learns of any violation of any water use restriction imposed, a written notice of the violation shall be affixed to the property where the violation occurred and mailed to the customer of record. Said notice shall describe the violation and order that it be corrected, cured or abated immediately or within 48 hours.
- (b) The notice will inform the customer of his or her right to appeal by requesting a hearing before the utility's designee. If a hearing is requested by the customer, he or she shall be given full opportunity to be heard before termination. The governing body shall make findings of fact and decide whether service should continue or terminate.
- (c) Any customer whose water service is terminated for violating provisions of this water curtailment plan shall be subject to the approved reconnection fee prior to reconnection of service.
- (d) The excess usage charge billing provisions of this Plan shall not be put in effect if a county or city ordinance containing penalty provisions is in effect to assist enforcement of this Plan.

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Section 9. Request for Exception.

(a) Exception to water use restrictions: If compliance with any curtailment measure authorized herein would cause a customer to bear extraordinary hardship, that individual or entity may apply to the Muhlenberg County Water District for an exception. For these purposes, "extraordinary hardship" shall be defined as a condition which may threaten health and safety, or cause property or economic losses, each of which must be shown to be substantially more severe than the sacrifices borne by other users. If extraordinary hardship is found to exist, then an exception shall be granted and a written waiver issued to the customer. If an appeal is made, water service shall be continued until a decision is announced. Any person aggrieved by the decision may file a complaint with the Public Service Commission.

(b) Exception to curtailment surcharge: Exceptions to excess use charges shall not be considered or granted.

Section 10. Severability. If any provision of this Plan is declared invalid by the courts, the remainder of the Plan and its applicability to other persons and circumstances shall not be affected by that declaration.

Section 11. Effective Date. This Plan shall take effect immediately upon approval by the Public Service Commission.

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APPENDIX A  
 MUHLENBERG COUNTY WATER DISTRICT  
 PROJECT DEMAND WORKSHEET FOR August 2005  
 (Month) (Year)

The information below would be used to estimate projected demand for one (1) month.

Calculations will be done at the beginning of each month.


Average use in <u>July</u> for the past 5 years:	<u>1,425,626</u> gpd
(Last Month)	
Average use in <u>July</u> for 2 years ago:	<u>1,559,445</u> gpd
(Last Month)	
Average use in <u>July</u> for 1 year ago:	<u>1,616,870</u> gpd
(Last Month)	
Average use in <u>July</u> for current year:	<u>1,456,606</u> gpd
(Last Month)	
Average use in <u>August</u> for the past 5 years:	<u>1,482,326</u> gpd
(This Month)	
Average use in <u>August</u> for 2 years ago:	<u>1,558,483</u> gpd
(This Month)	
Average use in <u>August</u> for 1 year ago:	<u>1,441,387</u> gpd
(This Month)	

Usage Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Weather Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Average projected use for \_\_\_\_\_:

Without conservation measures:	<u>1,450,000</u> gpd
With advisory conservation measures ( 10% reduction)	<u>1,305,000</u> gpd
With alert conservation measures (More than 15% reduction)	<u>1,232,500</u> gpd
With emergency conservation measures (More than 20% reduction)	<u>1,160,000</u> gpd
With rationing conservation measures (More than 20% reduction)	<u>1,160,000</u> gpd

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APPENDIX B  
MUHLENBERG COUNTY WATER DISTRICT  
PRESS RELEASE  
ADVISORY STAGE

Muhlenberg County Water District - Due to the recent abnormally dry weather conditions and with little indication of significant rainfall in the foreseeable future, customers of Muhlenberg County Water District should begin conserving water according to the General Superintendent. For the month of \_\_\_\_\_, the National Weather Service reported that this area received \_\_\_\_\_% of normal rainfall. The 30-day outlook calls for \_\_\_\_\_.

A local water shortage ADVISORY has been declared by the Board of Commissioners of Muhlenberg County Water District. At this time, there is an immediate need to begin voluntary conservation measures. All business and commercial establishments are being requested to develop in-house conservation plans.

The amount of treated water available is 5% to 10% below projected demand, and/or there are periods of low water pressure in one or more areas of the distribution system due to low water supply, or the State Division of Water has issued a Water Shortage Watch for our area.

According to Kentucky Division of Water, Water Shortage Department, consumers can cut water use by as much as 15% with very little difficulty or discomfort by using voluntary water conservation measures.

All non-essential uses of water should be minimized.

Special Conservation Tips include:

1. Check toilet for leaks and have leaks repaired.
2. Do not use toilet as ashtray or wastebasket.
3. Put plastic bottles in toilet tank.
4. Take shorter showers.
5. Install water saving shower heads or flow restrictors.
6. Take baths.
7. Turn off water after wetting toothbrush.
8. Rinse razor in sink instead of letting water run.
9. Check faucets and pipes for leaks and have repaired.
10. Use automatic dishwasher for full loads only.
11. Wash full loads of clothes only.
12. If dishes are hand-washed, do not let water run to rinse them, fill the sink.
13. Don't let the faucet run to rinse vegetables.
14. Keep a bottle of water in the refrigerator.
15. Water the lawn only when it needs it. Water it at night and deep soak. Don't water the gutters, sidewalks, driveways, etc. Don't water on windy days.
16. Place a layer of mulch around trees and plants.
17. Use a broom to clean driveways and sidewalks, not a hose.
18. Do not run the hose when washing vehicles.
19. Do not let children play with the hoses and sprinklers.

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If everyone cooperates, Muhlenberg County Water District and its customers can cut usage significantly, and have the water necessary to sustain normal, day-to-day needs.

If there are any questions or suggestions, they can be mailed to Muhlenberg County Water District, P.O. Box 348, Greenville, Kentucky 42345, or can be placed by phone at (502) 338-1300.

The entire staff of Muhlenberg County water District appreciates the efforts of all individuals to help in this situation.

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APPENDIX C  
MUHLENBERG COUNTY WATER DISTRICT  
PRESS RELEASE  
ALERT STAGE

Muhlenberg County Water District - A water shortage ALERT has been declared for the Muhlenberg County Water District.

The amount of treated water available is 10% to 15% below projected demand, and/or there is consistent low pressure in one or more areas of the distribution system due to low water supply.

Under the ALERT, and in order to ensure adequate supplies for necessary uses, Muhlenberg Water District customers are urged to practice conservation in all use of water. Class 3 Non-essential water use is prohibited. The Muhlenberg County Water District Water Shortage Response Plan Class 3 Non-essential use includes the following:

CLASS 3 USES OF WATER:

1. Decorative fountains, reflecting pools, artificial waterfalls, and any other decorative uses of water.
2. Watering of gardens, lawns, parks, golf course (except greens), playing fields and other recreation areas.
3. Filling of public, private, commercial, or residential swimming and wading pools.
4. Personal washing of motor vehicles, boats and trailers, driveways, etc.
5. Serving water in restaurants, clubs, or eating places unless specifically requested by the customer.
6. Filling of ponds.

Conservation of all water uses, accompanied by these restrictions, can reduce water use by 15 to 30 percent. The Muhlenberg County Water District users can prolong limited water supplies, avoiding further restrictions, by observing these prohibitions and conserving water at all times.

If everyone cooperates, Muhlenberg County Water District and its customers can cut usage significantly.

If there are questions or suggestions, they can be mailed to Muhlenberg County Water District, P.O. Box 348, Greenville, Kentucky 42345, or can be placed by phone at (502) 338-1300.

The entire staff of Muhlenberg County Water District appreciates the efforts of all individuals to help in this situation.

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APPENDIX D

MUHLENBERG COUNTY WATER DISTRICT  
PRESS RELEASE  
EMERGENCY STAGE

This press release is to be written according to the terms of the emergency stage in the water shortage response plan.

The amount of treated water available is 15% to 20% below projected demand, or there are periods of no pressure in one or more areas of the distribution system due to low water supply and mandatory restrictions on the use of water are necessary to insure equitable distribution of available supplies.

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APPENDIX E

MUHLENBERG COUNTY WATER DISTRICT  
PRESS RELEASE  
RATIONING STAGE

This press release is to be written according to the terms of the rationing stage in the water shortage response plan.

Treated water available is more than 20% below projected demand, and requires mandatory rationing to insure adequate water is available to maintain public health and sanitation and provide fire protection service.

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