

Dexter-Almo Heights Water District

351 Almo Rd
Almo KY 42020
(270) 753-9101 (Office)
(270) 759-0199 (Fax)
dawdoffice@gmail.com (Email)
www.dexteralmowater.com (Website)

March 28th, 2019

RECEIVED

APR 02 2019

PUBLIC SERVICE
COMMISSION

Kentucky Public Service Commission
Executive Director's Office
211 Sower Boulevard
Frankfort, KY 40602

To whom it may Concern:

Enclosed is an application and (7) copies for deviation from the water storage requirement per 807 KAR 5:066, Section 4(4) which states the minimum storage capacity for systems shall be equal to the average daily consumption.

Sincerely,



Jasper Wyatt
System Operator

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APR 02 2019

PUBLIC SERVICE
COMMISSION

KENTUCKY PUBLIC SERVICE COMMISSION

Water Storage Requirement Deviation Request Application

807 KAR 5:066, Section 4(4): Storage. *The minimum storage capacity for systems shall be equal to the average daily consumption.*

This form is intended to assist water utilities seeking a deviation from the requirements of 807 KAR 5:066, Section 4(4) and for permission to either maintain less water storage capacity than the average daily consumption or to obtain additional time to attain minimum storage capacity equal to the average daily consumption.

To request a deviation from the requirements of 807 KAR 5:066, Section 4(4), please complete the following application in full.

Utility: DEXTER - ALMO HEIGHTS WATER DISTRICT

Address: 351 ALMO RD

City: ALMO State: KY Zip Code: 42020

Telephone Number: (270) 753-9101 Number of Customers: 818

County or Counties served: CALLOWAY MARSHALL

Are you requesting a deviation:

- To maintain less water storage capacity than the average daily consumption?
- For additional time to attain minimum storage capacity equal to the average daily consumption?

I. Contact Information

Please provide information for the person to whom correspondence or communications concerning this application should be directed:

Name: JASPER WYATT Title: SYSTEM OPERATOR

Address: 351 ALMO RD

City: ALMO State: KY Zip Code: 42020

Telephone Number: (270) 753-9101

II. Filing Requirements

Please submit an original and seven (7) copies of the completed application to:

Kentucky Public Service Commission

Executive Director's Office

211 Sower Boulevard

Frankfort, Kentucky 40602

Telephone: (502) 564-3940

All correspondence and responses to supplemental information requests should be sent to the above address as well.

Copies of this form may be obtained by visiting the Kentucky Public Service Commission website at <http://psc.ky.gov> and clicking on the Forms bullet in the Quick Reference, or by contacting George Wakim, Branch Manager, Water & Sewer Branch, at (502) 564-3940.

III. Questionnaire:

Please answer all questions completely, attach additional sheets as necessary.

1. Provide the average daily water consumption. This should include all water sold, utility water usage, and unaccounted-for-water. following information:

Average Daily Consumption: 116,774 GALLONS

2. Please provide the following information:

Total number of water storage tanks in the system: 0

<u>Type of Storage Tank</u>	<u>Capacity</u>
N/A	N/A

3. Please provide a list of all large customers purchasing more than five (5) percent of the utility's average daily consumption. Also indicate which, if any, of these customers can sustain an interruption during emergencies.

<u>Customer</u>	<u>Daily Usage</u>	<u>Storage Facility</u>	<u>Capacity</u>	<u>Interruption</u>
		() Yes () No		() Yes () No
		() Yes () No		() Yes () No
N/A	N/A	() Yes () No	N/A	() Yes () No
		() Yes () No		() Yes () No
		() Yes () No		() Yes () No

4. Please provide a list of all critical healthcare facilities served by the system.

<u>Facility</u>	<u>Daily Usage</u>	<u>Storage Facility</u>	<u>Capacity</u>
		() Yes () No	
		() Yes () No	
N/A	N/A	() Yes () No	N/A
		() Yes () No	
		() Yes () No	

5. Please provide the following information:

Does the utility:

Produce water? () Yes (X) No Purchase water? (X) Yes () No

If the utility purchases water, please provide the following information:

<u>Supplier</u>	<u>Average Amount Purchased</u>
CITY OF MURRAY	116,774 GALLONS DAILY

6. If a supplier has storage capacity or reserves storage capacity for the benefit of your utility, please provide the following information:

<u>Supplier</u>	<u>Capacity</u>	<u>Proximity to Master Meter</u>
CITY OF MURRAY	500,000 GALLONS	WITHIN 1000 LF

7. Will your supplier issue your utility a letter of this additional storage capacity specifying whether they can sustain any of your system's interruptions to ensure you adequate continuity of service? Yes () No

If yes, provide a copy of the agreement or letter. ATTACHMENT A

8. Please provide a technical summary of operational deficiencies of the system that are known from experience or that are indicated by hydraulic analysis. This should include a list of outages that occurred in past years, their location, the cause and duration of any outages, customer complaints, areas of low pressure, and the availability of standby equipment, repair equipment, and contractors. SEE ATTACHMENT B

9. Please provide information on the growth potential for the system. This should include the number of new customers added per year and the possibility of extensive development (i.e. new subdivisions, businesses, etc.)

SEE ATTACHMENT C

10. Please describe any planning, to date, to bring the system into compliance with Commission regulations. This should include efforts to secure financing for the construction of additional storage facilities, as well as the estimated compliance date. If no planning has taken place, please explain why.

SEE ATTACHMENT D

IV. Signature:

I have read and completed this application, and to the best of my knowledge, all the information contained herein is true and correct.

Signed: 

Title: SYSTEM OPERATOR

Date: 3-28-19

Melinda A. Ernst
July 1, 2005

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Storage Tank Deviation Application

Attachment A

CITY OF MURRAY PUBLIC WORKS AND UTILITIES

Gas / Water / Wastewater / Street / Sanitation

200 Andrus Drive
Murray, Kentucky 42071

Phone 270-762-0336
Fax 270-762-0379

March 20, 2019

Dexter/Almo Water District
351 Almo Road
Almo, KY 42020

RE: Potable Water Availability

The City of Murray Water System is providing this information concerning the availability of potable water supply to the Dexter/Almo Water District 641 North.

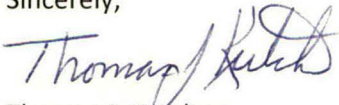
The City of Murray Water System has an elevated storage capacity of 2.925 million gallons of potable water and 1.0 million gallons of treated potable water before high service pumping. Our water treatment plant is designed to treat up to 7.0 million gallons per day. We currently average between 3.0 and 4.5 MGD.

The City of Murray Water System agrees to provide potable water to the Dexter/Almo Water District in sufficient quantity and pressure as it does to all of our water customers, both inside and outside the City limits, and is subject to the rules and regulations governing water supply, distribution and usage under the authority of the **Kentucky Division of Water**.

This agreement is for a period of three (3) years from January 1, 2019 through December 31, 2021, at which time the terms of this agreement may be reviewed and extended, if agreed to by both parties.

If you should need any further information in regards to this service agreement, please contact **Murray Public Works & Utilities Department** at 270.762.0336. Thank you for your continued support of the Murray Water System.

Sincerely,



Thomas J. Kutcher
Director of Public Works & Utilities
City of Murray, KY

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Attachment B

Dexter-Almo Heights Water District

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March 28th, 2019

Response to Question #8 on Storage Tank Deviation Application

For the past 3 years the Dexter-Almo Heights Water District has had 10 instances where water service was turned off until repairs could be made.

Year 2016

Outage 1: This outage occurred on April 7th, 2016 on US Hwy 641 North. 6" AC main had broken at a joint that was exposed in a creek. A repair clamp was used to repair the break and the water was shut off for approx. 4 hours while repairs were being made. This outage affected about 500 customers.

Outage 2: This outage occurred on June 8th, 2016 on Fern Ln. A 2" PVC line had cracked and water was shut off for approx. 2 hours will repairs were made. This outage affected 5 customers.

Year 2017

Outage 3: This outage occurred on February 7, 2017 on Candlelite Dr. A 4" AC water main had broken in a small creek crossing and water was off for approx. 4 hours will 40 LF of main was replaced with PVC pipe crossing the creek. This outage affected 7 customers.

Outage 4: This outage occurred on March 28, 2017. This outage for a replacement of hydrant that had been damaged. The water was off for approx. 6 hours while a new hydrant and an isolation valve for the hydrant was installed. This outage affected 31 customers.

Outage 5: This outage occurred on June 5th, 2017 on US Hwy 641 N. The 6" AC water main that had broken the previous year had broken again and water was off for approx. 8 hours while repairs were being made and the replacement of approx. 60 LF of the water main was replaced to keep from this section of pipe giving the district issues in the future. This outage affected approx. 600 customers.

Outage 6: This outage occurred on November 15, 2017 on Boggess Dr. This outage occurred because a 2" PVC pipe had cracked and water was off for approx. 4 hours while repairs was being made. This outage affected 7 customers.

Outage 7: This outage occurred on November 16, 2017. The local county road department was replacing a culvert and 1" PVC was damaged when the culvert was being removed. The water was off for approx. 2 hours while the line was replaced and relocated away from the new culvert to prevent any damage in the future should the culvert need to be replaced. This outage affected 3 customers.

Outage 8: This outage occurred on November 27, 2017 on Wrather Rd. A 6" PVC line had broken and water was turned off for approx. 2 hours will a section of pipe was replaced. This outage affected 7 customers.

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Year 2018

Outage 9: This outage occurred on October 19th, 2018 on Toskana Dr. The gas company was trenching a new service for gas and cut into a 4" PVC water main. The water was off for approx. 2 hours while a section of pipe was replaced. This outage affected 20 customers.

Outage 10: This outage occurred on November 1st, 2018 on Sunset Dr in a creek crossing. At 1:30 AM on this date the district started receiving phone calls from customers about low pressure. Later on that morning the district was still have difficulty pin pointing the exact location of leak but the leak narrowed down to small area. Paducah Division of Water was notified that morning of the difficulty and the district went ahead and issued a boil water for all customers affected so far. The district kept performing leak detection within their realm of capabilities and with no further luck to narrow the location down any further the district called the Kentucky Rural Water Association for assistance. Staff from KRWA arrived the next morning and was quickly able to assist the district in narrow the leak to a creek crossing. The district then isolated that area and restored water service to approx. 220 customers that were affected, leaving approx. 30 customers still off. With the heavy rains that occurred the previous days the district was able to begin work on replacing the section of pipe across the creek later on Friday evening once the water had receded. Repairs were made and water back on to the 30 customers Saturday evening.

The above mentioned are the outages the district has experienced in the last 3 years and to date the district has no known low pressure problems or complaints from customers about having low pressure. The district has all parts available in inventory at the office to immediately repair any main breaks. The district uses a local contractor for any excavation that would have been done and is available at any time to assist the water district to make repairs. If district does not have parts on hand at office at time of outage the district will us its Supplier out of Paducah KY to obtain needed parts in a timely manner. The district also has available to them the City of Murray and the City of Hardin that can assist in making repairs or lend parts to if necessary at any time.

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Attachment C

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Response to Question #9 on Storage Tank Deviation Application

9. The Dexter Almo Water District has added 31 new meters in the past 3 years. For 2016 the district made 10 new taps, 2017 the district made 12 new taps and in 2018 the district made 12 new taps. At the present time the district does plan on major development to district or has anyone been in contact with district about possible major development that would add on to the current system. There are unserved customers in northern Calloway County but at the present time the district does not have the funds to extend to any of these areas. The district is averaging around 10 new taps over the past three years but has been maintain about the same customer base. Three years ago the district had a customer base of 822 customers and the district now has a customer base of 818 customers. The district has had some of the older customers move off or older homes are became in just bad shape that houses are being vacated and no new customers living in them. So while the district is seeing small amounts of new growth from making new taps that overall customer base is not growing by the same amounts due to the fact the housing in the older parts of the system are becoming run down and vacated.

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Attachment D

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Response to Question #10 on Storage Tank Deviation Application

10. At the present time no planning as gone into constructed any storage facilities within the district due to that fact that the City of Murray has always been able to provide the maximum amount purchased by the district with no fore seeable problems. The district had a storage tank in the 1960s but was put out of service in the 1970s when a purchasing source was constructed with the City of Murray and provided suitable amount of storage to meet the needs of the district. The district now has two purchasing sources from the City of Murray. The next goal for the water district is close in a loop of the system once funds become available to complete the project. The district is about a mile away from tying in two lines that would allow the district to fully utilize both purchasing sources and can limited the amount of customers that would have to be affected by an outage.