



**BOARD OF COUNTY COMMISSIONERS  
WARREN COUNTY, OHIO**

**406 Justice Drive, Lebanon, Ohio 45036**

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***commissioners@co.warren.oh.us***

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***TOM GROSSMANN  
PAT ARNOLD SOUTH  
DAVID G. YOUNG***

**BOARD OF COUNTY COMMISSIONERS  
WARREN COUNTY, OHIO**

**MINUTES: Regular Session – October 4, 2016**

The Board met in regular session pursuant to adjournment of the September 27, 2016, meeting.

David G. Young – present

Pat Arnold South – present

Tom Grossmann – present

Tina Osborne, Clerk – present

- 16-1557      A resolution was adopted to approve appointment of Martin Russell to the position of Deputy County Administrator. Vote: Unanimous
- 16-1558      A resolution was adopted to accept resignation of Dylan Quenneville, Emergency Communications Operator, within the Warren County Emergency Services Department, effective September 26, 2016. Vote: Unanimous
- 16-1559      A resolution was adopted to designate Family and Medical Leave of Absence to Joshua Courtney, Custodial Worker I within the Warren County Facilities Management Department. Vote: Unanimous
- 16-1560      A resolution was adopted to designate Family and Medical Leave of Absence to Phyllis Davidson, Custodial Foreman within the Warren County Facilities Management Department. Vote: Unanimous
- 16-1561      A resolution was adopted to designate Family and Medical Leave of Absence to Joseph Bishop, Emergency Communications Operator within the Warren County Department of Emergency Services. Vote: Unanimous
- 16-1562      A resolution was adopted to approve end of 180-Day probationary period and approve a pay increase for Shawn Brinson, Customer Representative, within the Warren County Water and Sewer Department. Vote: Unanimous

- 16-1563 A resolution was adopted to approve end of 180-Day probationary period and approve a pay increase for Tiffiany Barnett, Cashier/Receptionist, within the Warren County Water and Sewer Department. Vote: Unanimous
- 16-1564 A resolution was adopted to authorize the posting of the “Administrative Assistant” position, within the Telecommunications Department, in accordance with Warren County Personnel Policy Manual, Section 2.02 (a).  
Vote: Unanimous
- 16-1565 A resolution was adopted to transfer FIST Training Suit and Everlast Heavy Bag no longer being utilized by the Warren County Sheriff’s Office to the Franklin Police Department. Vote: Unanimous
- 16-1566 A resolution was adopted to approve and authorize the President and/or Vice President of this Board to sign the Elderly and Disabled Transit Fare Assistance Grant Contract by and between the Ohio Department of Transportation and the Warren County Board of Commissioners. Vote: Unanimous
- 16-1567 A resolution was adopted to approve and enter into a Risk Management Advisory Services Agreement with Ballator Insurance Group, Inc. Vote: Unanimous
- 16-1568 A resolution was adopted to approve change order #1 with Barrett Paving Materials, Inc for the 2016 improvements to Warren County Airport Lane Field Taxiway Pavement Project. Vote: Unanimous
- 16-1569 A resolution was adopted to approve third amendment to the contract for Adult and Juvenile Inmate Health Care Services with Correctional Healthcare Companies, Inc. Vote: Unanimous
- 16-1570 A resolution was adopted to approve Amendment #12 (Service Agreement) to the current Home Incarceration Agreement with BI Incorporated for Electronic Monitoring/Service on behalf of Warren County Common Pleas Court Services, Community Corrections Division. Vote: Unanimous
- 16-1571 A resolution was adopted to enter into an Engineering Services Contract with LJB, Inc. on behalf of the Warren County Engineer. Vote: Unanimous
- 16-1572 A resolution was adopted to enter into agreement with Convenient Payments, LLC on behalf of the Warren County Auditor and Warren County Treasurer.  
Vote: Unanimous
- 16-1573 A resolution was adopted to enter into agreement with Majors Enterprises, Inc for the NSP- Program Income Demolition of 816 Union Road in Franklin Township.  
Vote: Unanimous



- 16-1574 A resolution was adopted to approve and enter into a TANF Subgrant Agreement between the Warren County Commissioners on behalf of the Warren County Department of Human Services and Warren County Children Services.  
Vote: Unanimous
- 16-1575 A resolution was adopted to affirm "Then and Now" requests pursuant to Ohio Revised Code 5705.41 (D) (1). Vote: Unanimous
- 16-1576 A resolution was adopted to approve various refunds. Vote: Unanimous
- 16-1577 A resolution was adopted to acknowledge payment of bills. Vote: Unanimous
- 16-1578 A resolution was adopted to approve a street and appurtenances (including sidewalks) bond reduction for SF Duke, LLC, DBA Vintage Oaks for completion of improvements in Vintage Oaks Subdivision situated in Deerfield Township.  
Vote: Unanimous
- 16-1579 A resolution was adopted to approve a street and appurtenances bond reduction for Stoneridge Development, LTD for completion of performance of construction of improvements and enter into the maintenance security for County Brook North, Section Ten situated in Clearcreek Township. Vote: Unanimous
- 16-1580 A resolution was adopted to approve a street and appurtenances bond reduction for Stoneridge Development, LTD for completion of performance of construction of improvements and enter into the maintenance security for Country Brook North, Section Eleven situated in Clearcreek Township. Vote: Unanimous
- 16-1581 A resolution was adopted to approve bond release for Stoneridge Development, LTD for completion of improvements in Country Brook North, Section 9 situated in Clearcreek Township. Vote: Unanimous
- 16-1582 A resolution was adopted to approve bond release for Stoneridge Development, LTD for completion of improvements in Country Brook North, Section 10 situated in Clearcreek Township. Vote: Unanimous
- 16-1583 A resolution was adopted to approve bond release for Stoneridge Development, LTD for completion of improvements in Country Brook North, Section 11 situated in Clearcreek Township. Vote: Unanimous
- 16-1584 A resolution was adopted to enter into Erosion Control Bond Agreement for Pendragon Development Company, LLC for completion of improvements in Aberlin Springs, Section 1 situated in Union Township. Vote: Unanimous
- 16-1585 A resolution was adopted to approve the following record plats. Vote: Unanimous

- 16-1586 A resolution was adopted to approve appropriation decreases within various funds. Vote: Unanimous
- 16-1587 A resolution was adopted to approve a cash advance for the Irwin-Simpson Sewer Assessment Project Fund No. 449-3320. Vote: Unanimous
- 16-1588 A resolution was adopted to accept an amended certificate and approve a supplemental appropriation within the Irwin-Simpson Road Sewer Assessment Project, Fund No. 449. Vote: Unanimous
- 16-1589 A resolution was adopted to approve an operational transfer from General Fund #101 into Fund #479 Airport Construction and supplemental appropriation into Fund #479 Airport Construction. Vote: Unanimous
- 16-1590 A resolution was adopted to approve supplemental appropriation into Warren County CIP- Fund #284. Vote: Unanimous
- 16-1591 A resolution was adopted to approve supplemental appropriation into the RID Bond Greens of Bunnel Hill Fund #393. Vote: Unanimous
- 16-1592 A resolution was adopted to approve appropriation adjustment from Juvenile Detention Fund #101-2600 into Juvenile Court 101-1240. Vote: Unanimous
- 16-1593 A resolution was adopted to approve appropriation adjustment within Facilities Management Fund #101-1600. Vote: Unanimous
- 16-1594 A resolution was adopted to approve appropriation adjustments within the Sewer Revenue Fund No. 580. Vote: Unanimous
- 16-1595 A resolution was adopted to approve appropriation adjustment within Sheriff's Office Funds #287. Vote: Unanimous
- 16-1596 A resolution was adopted to approve appropriation adjustments within Human Services Fund #203. Vote: Unanimous
- 16-1597 A resolution was adopted to authorize payment of bills. Vote: Unanimous
- 16-1598 A resolution was adopted to remove probationary employee from employment within the Emergency Services Department. Vote: Unanimous
- 16-1599 A resolution was adopted to continue administrative hearing relative to the Stage 2 PUD for Middletown Cardiovascular in Franklin Township. Vote: Unanimous



DISCUSSIONS

On motion, upon unanimous call of the roll, the Board accepted and approved the consent agenda.

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ADMINISTRATIVE HEARING  
STAGE 2 PUD FOR MIDDLETOWN CARDIOVASCULAR (AKA GLEN MCGRAW PUD)  
IN FRANKLIN TOWNSHIP

The administrative hearing to consider the Stage 2 PUD for Middletown Cardiovascular (aka Glen McGraw PUD) in Franklin Township was reconvened this 4<sup>th</sup> day of October 2016, in the Commissioners' Meeting Room.

Bruce McGary, Assistant Prosecutor, reviewed the whereas clauses he drafted for consideration as well as the amended conditions. He then reviewed the request for a waiver of the sidewalk and stated that this Board does not have the authority to waive the sidewalk requirement as that is a matter for the Board of Zoning Appeals. He then reviewed Condition #7 that was amended as a result of a meeting between the applicant and Regional Planning Commission and Zoning staff.

Mr. McGary stated that if there have been changes made outside of the public hearing, additional testimony is required to submit those into the record.

There was discussion relative to the requirement of the Warren County Rural Zoning Code for a cross easement.

There was also discussion relative to proposed condition #7 relative to how to be fair to all property owners within the PUD.

Mr. McGary stated his concern that the site plan shows the required easement but in no place does it state who benefits from said easement.

Rick Fishbaugh, applicant, stated that it is in the best interest of both parties to have the agreement in place. He stated that there has been discussion but no final agreement. He stated that he agrees with everything within condition #7 except the timing.

Dr. Najeed, additional property owner within the PUD, stated it is in his best interest to have an agreement in place prior to Stage 3 approval

Mr. Fishbaugh stated that he is not in agreement with how condition #7 is written prior to amended changes by the Regional Planning Commission.

Mr. McGary stated that the Board needs to decide the following:

1. What language does the Board desire to require within the language (who the cross easement benefits)
2. Does the Board desire to strike the portion of timing within the condition?

Commissioner Grossmann stated he is inclined to remove the timing from the condition.

Upon further discussion, the Board stated their desire to continue this administrative hearing an additional week in order to give the property owners time to work on an agreement.

On motion, upon unanimous call of the roll, the Board resolved (Resolution #16-1599) to continue this hearing to October 11, 2016, at 9:00 a.m.

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Chris Brausch, Sanitary Engineer, was present for a work session to discuss the Water Master Plan.

Mr. Brausch presented the attached PowerPoint Presentation reviewing the following:

1. State of the Water Department
2. Mission Statement
3. Water Quality – nearly eliminated all brown water complaints within the system
4. Service – Warren County has an excellent service record
5. Customer rates are lower than the majority of surrounding areas
6. Financial Stability – \$7.2 million in reserve funds, \$3.4 million in debt, clean audits for 25 years in a row
7. Current Water System – The Board discussed the feasibility of continuing to service the Sharts Road and Pennyroyal Road area and stated the need for a future work session to discuss that topic
8. North Water System - \$30 - \$50 million in assets
9. Southern Water System - \$30 - \$50 million in assets
10. Issues and Challenges taking in consideration growth, level of service and fiscal responsibility.

Mr. Brausch stated that the Board hired Arcadis to provide an engineering study to determine requirements for future growth. He stated the expectation of softened water grows with each surrounding community that moves towards the higher level of service.

Mr. Brausch then stated that 41% of the water budget is used to purchase water from Greater Cincinnati Water Works (GCWW). He stated that the current agreement expires in 2025 and reviewed the Board's three options:



Option 1 – Construct a softening facility in both the North and South System and minimize the wholesale water purchase and have the ability to sell wholesale water to the Western Water Company:

Finances:

Cash: \$20 million  
Borrow: \$42 million in 2020  
Annual Service Payment: \$3 million

Customer Fees:

User Rate: 3% increases  
Capital Fee: \$3.75/month per bill  
Capital Fee Period: 2017 – 2026

Option 2 – Maintain status quo which would still require upgrades to the system which includes negotiating the purchase of more water from GCWW, soften our own water in the North System and shrink operations in the South System:

Finances:

Cash: \$20 million  
Borrow: \$32 million in 2020  
Annual Service Payment: \$2.3 million

Customer Fees:

User Rate: 3% increases  
Capital Fee: \$3.75/month per bill  
Capital Fee Period: 2017 – 2026

Option 3 – Purchase water for the South System from GCWW requiring the retirement of wells at the Richard Renneker Treatment Plant.

Improvements:

2017: \$7,775,000  
2022: \$10,160,000  
2030: \$8,755,000

Mr. Brausch then stated his recommendation to proceed with Option 1.

Commissioner Young stated his desire for staff to meet with GCWW to follow up on rate negotiations and stated the desire for a follow up work session in approximately 30 days.

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The Board met this 4<sup>th</sup> day of October 2016, in the Commissioners' Meeting Room to discuss the cornerstone time capsule replacement at the Health and Human Services Building.

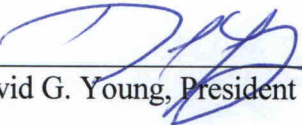
Jennifer Haney, Warren County Records Center, stated that in 1916 when they buried the original time capsule it was not a big ordeal and stated her desire to follow the same tradition.

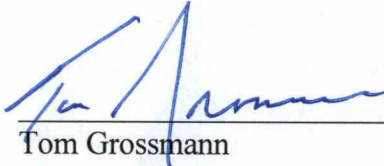
Ms. Haney stated that, unlike 1916, the contents of this time capsule have been put on acid free paper to keep the words and pictures from eroding over time.

Upon discussion, the Board proceeded to the Health and Human Service Building for the replacement of the time capsule.

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Upon motion the meeting was adjourned.

  
\_\_\_\_\_  
David G. Young, President

  
\_\_\_\_\_  
Tom Grossmann

  
\_\_\_\_\_  
Pat Arnold South

I hereby certify that the foregoing is a true and correct copy of the minutes of the meeting of the Board of County Commissioners held on October 4, 2016, in compliance with Section 121.22 O.R.C.

  
\_\_\_\_\_  
Tina Osborne, Clerk  
Board of County Commissioners  
Warren County, Ohio





# WATER & SEWER DEPARTMENT

## Water Master Plan

Warren County Commissioners  
October 4, 2016

### AGENDA

1. State of the Department
2. Issues & Challenges
3. Future Options

### ONE MORE THING

1. GCWW agreement for Cross Creek
2. Waiver of Fees for 1407 Shawnee Run
3. Residential Developments & Private Lift Stations



**Water & Sewer Department**



## State of the Water Department

**Warren County is the largest water provider in the County, the 15th largest in Ohio, ..... and we are growing.**

- 2015 Department Budget of \$15.8M
- 70 Employees
- Largest Department under the Commissioners

Rank	Public Water System	Customer Population
1	City of Cleveland	1,262,955
2	City of Columbus	1,159,817
3	City of Cincinnati	749,000
4	City of Toledo	360,000
5	City of Akron	280,000
6	Montgomery County	260,805
7	Aqua Ohio	173,000
8	City of Youngstown	148,000
9	City of Dayton	142,000
10	Del-Co Water Company	141,407
11	Lake County	115,835
12	Clermont County	113,000
13	Butler County	109,988
14	City of Canton	98,260
15	Warren County	77,000
16	Lorain County	71,074
17	City of Elyria	68,000
18	City of Lima L	65,619
19	City of Lorain	64,152
20	City of Hamilton	62,477
21	City of Springfield	59,357
22	City of Lakewood	52,100
23	City of Mansfield	51,000
24	City of Cuyahoga Falls	49,652
25	City of Middletown	48,694



# Mission Statement

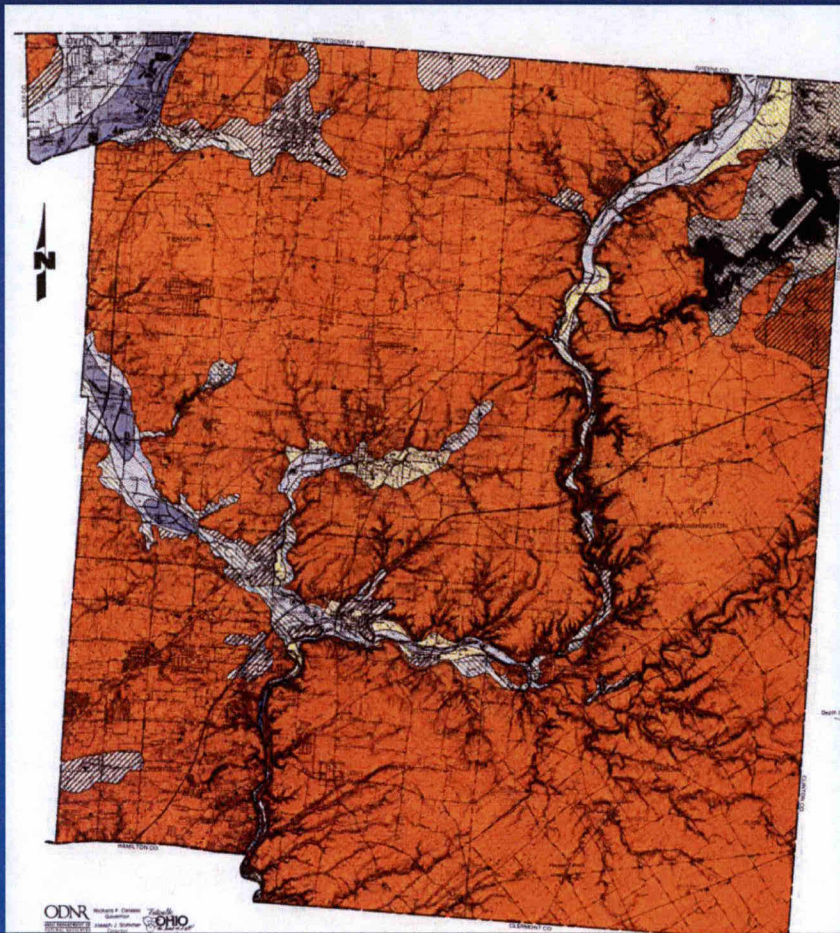
We strive to provide quality water service to Warren County residents in a cost-effective manner; to treat all customers with respect, courtesy and professionalism; and provide the highest quality of customer service.





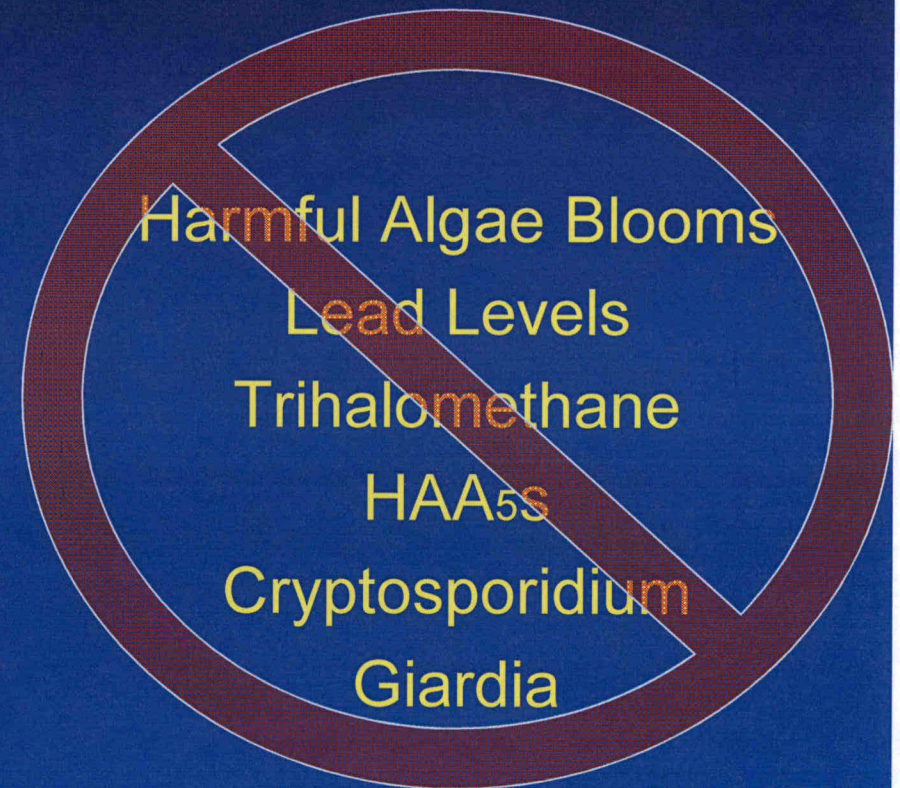
# QUALITY

We utilize the highest quality source water coupled with effective treatment to provide our customers with safe, reliable water.



**Aquifer Map of Warren County**

Ohio Dept of Natural Resources



Harmful Algae Blooms

Lead Levels

Trihalomethane

HAA<sub>5s</sub>

Cryptosporidium

Giardia

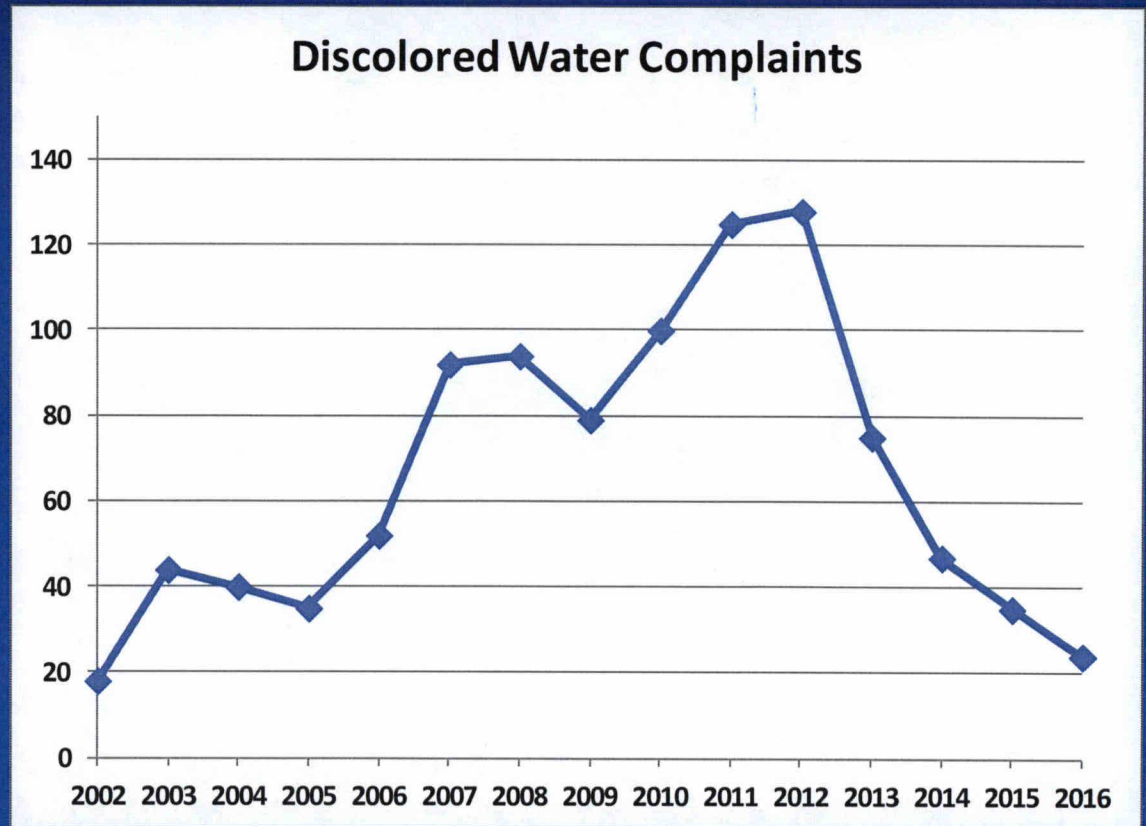


# QUALITY

Optimizing the treatment process has improved manganese removal and nearly eliminated brown water complaints in the Deerfield and Hamilton Township service areas




USEPA Pilot Study Testing





# QUALITY


The County's treatment plants and water distribution system are run by the best qualified Ohio EPA certified operators and technical staff.



**2013**  
**Water Fluoridation Quality Award**  
 Warren Co.-Hamilton  
 State of Ohio

*The Centers for Disease Control and Prevention commends this water adjustment of the water fluoride content to the optimum level for oral health, high-quality water fluoridation practice, as demonstrated by this water prevent tooth decay, improving the oral health of community residents.*

Centers for Disease Control and Prevention  
 United States Department of Health and Human Services




Centers for Disease Control and Prevention  
 National Center for Chronic Disease Prevention and Health Promotion

National Fluoridation  
 National Center for Environmental Health

**Warren County Water Operations Staff**

- 4 Class III Certified Operators
- 1 Class II Certified Operator
- 3 Class I Certified Operator

*Combined operator experience of over 100 years*



**Ohio Environmental Protection Agency Certificate**

This certifies that the Ohio Environmental Protection Agency, having primary enforcement responsibility for the Safe Drinking Water Act, has evaluated and approved the performance of Chemical or Microbiological analyses on potable water by:

**Warren County - Richard Renneker WTP Laboratory**  
 by the following laboratory analyst:  
**Ed Turner (4535) Operationally Certified**



The evaluation has been conducted in accordance with the Ohio Revised Code, Section 6109.04 by:  
**Mark Tomasi**

Pursuant to this approval, the Ohio EPA accepts as valid the results of the following analyses on potable water:  
**Chlorine[SM 4500 Cl-G], Fluoride[SM 4500 F-C]**


This certificate may be revoked for failure to conform to the provisions of the Ohio Revised Code, failure to generate acceptable results on performance evaluations, failure to maintain an acceptable laboratory facility in accordance with plan approval requirements, failure to maintain laboratory records, failure to report the results of analyses conducted on public water systems and source waters by personnel not certified for such analyses. This certificate remains the property of the State of Ohio and shall be surrendered to the Director of the Ohio EPA or authorized representative upon revocation.

Date of Issuance: 11/17/2015  
 Date of Expiration: 11/16/2018  
 Lab Certification Number: 668

*Cory W. Butts*

State of Ohio Environmental Protection Agency



Be it known that **JOHN L. WARE** is hereby certified as a  
**CLASS III**  
**WATER SUPPLY OPERATOR**

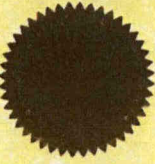
IS QUALIFIED AS REQUIRED BY LAW IN ACCORDANCE WITH REGULATIONS ESTABLISHED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY RELATIVE TO THE RATING PERSONNEL OF WATER AND WASTEWATER TREATMENT WORKS

This certificate is the property of the State of Ohio and in the event of its suspension, revocation or invalidation for any reason, it must, upon demand, be returned to the State of Ohio Environmental Protection Agency.

WS3-1018387-07  
 CERTIFICATE NUMBER

In witness whereof I have subscribed my name and affixed the seal of the Environmental Protection Agency, State of Ohio this 6th day of June, 2007 in the City of Columbus.

*Chris Pineda*  
 DIRECTOR





# SERVICE

We're big enough to quickly respond to major issues but small enough to care about the individual customer.

Just A Short Note To Thank Ed And Kevin For Helping Me With A Water Problem I Had On 1/22/14 At My House. I Called The After Hours Telephone Number Early In The Morning And Within Minutes Ed Responded. Kevin Then Checked To Find The Problem And Told Me How To Correct It. I Appreciate Their Help.

0123550-0860302

THANKS AGAIN  
LEON KEEN

Superintendent  
Water and Sewer Department

Phone  
45036

City:

On August 2, 2016 the contractor, Intren, hired by Duke Energy to install new underground water service line struck the water line coming from the main line to my meter, cutting off my water service. I called your department to report I was without service. In less than about 45 minutes, at approximately 4:00p.m., a crew from your office arrived at my home. They were very professional and efficient. Mike Jones was the foreman, Joe, and Robert were with him to work to resolve the problem. They were very kind and intent upon resolving the issue as quickly and thoroughly as possible.

It turned out the line was damaged under my driveway. They had to saw through the concrete, bring in a backhoe to remove the concrete, and dig down to find the damaged pipe. They tried to minimize the amount of concrete removed but ended up having to remove a four foot strip across my driveway. They repaired the pipe, backfilled the ditch, and finished it off with gravel. The repair was completed about 10:00p.m. Mike provided updates as the work progressed.

I couldn't be more pleased with the work of your crew. I'm sure you hear complaints but I want to convey my appreciation for the professional and courteous manner of these men as they worked so hard on an extremely hot day, until well after what I'm sure was their usual time to go home. Kudos to all of them.

I would appreciate it if the driveway replacement concrete work would be completed by August 16, 2016. Please contact me at 513-398-0041 (home) or 513-310-4687 (cell) a week or so before the work is scheduled.

From: Sullivan, Wendy  
Sent: Thursday, April 16, 2009 10:12 AM  
To: Pat South; South, Pat Arnold; dyscung@colandisgroup.com; Davis, Tina; Gully, David R.; Brausch, Chris G.  
Subject: Phone Message

Vicki Warneke (938-0204) called to let us know that Doug Ingram (Water/Sewer) is an outstanding employee and she had a great dealing with him. She wanted to let you know that you have a wonderful employee working for you. Please call her if you have any questions.

-----  
From: [mailto:calcuttins@gmail.com]  
Sent: Wednesday, December 13, 2016 4:57 PM  
Subject: 227478

After issue last night at 5297 Orchard way. We just wanted to say that we had a great experience and I know you and your crew worked so hard for us to have water as soon as possible. We are happy our taxes pay for such great service! Thanks again for being so responsive in our time of need. The managers of the guys working are aware of the good experience we had.

John  
iPhone

-----Original Message-----  
From: Norma Bennett Woolf [mailto:editor@canismajor.com]  
Sent: Wednesday, December 26, 2012 9:38 AM  
To: Water Department  
Subject: Thanks

Good morning,

I would like to let you know we appreciate the crew that worked through the night to restore water after the water main break on Route 48. We are back when we got up Sunday morning.

Thank you for such quick and efficient service.

1



# COST

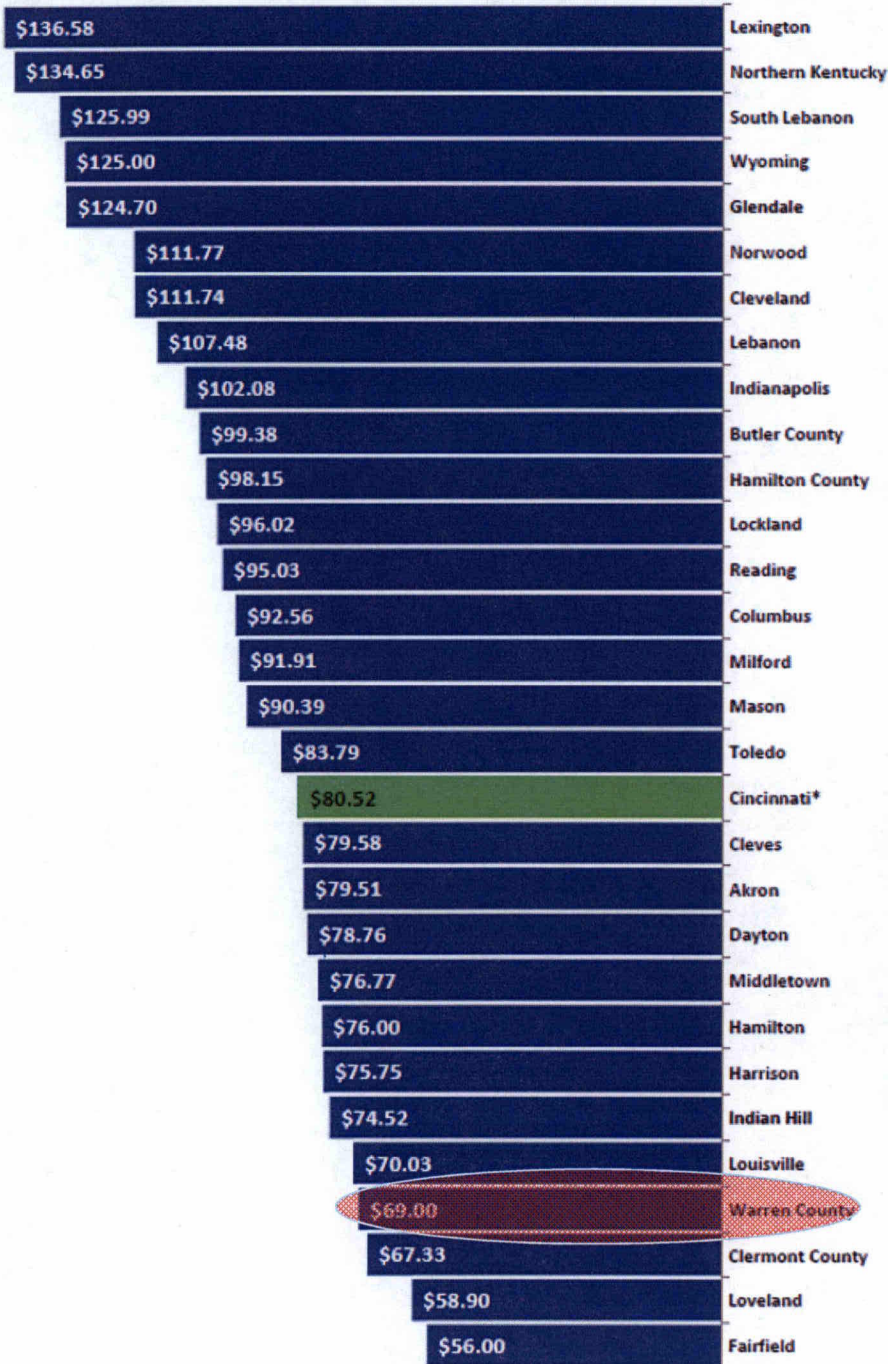
Our focus on strong fiscal management, operating with a minimal staff, and building quality treatment plants has resulted in low user rates for our customers.

## Quarterly Water Cost

for the Average Single-Family Household

Water Utility/Cost per Quarter (18,700 gallons)

Survey provided courtesy of Greater Cincinnati Water Works





## **Financial Stability**

The Water Department is financially stable with minimal debt and a fund reserve of \$ 7.2 Million.

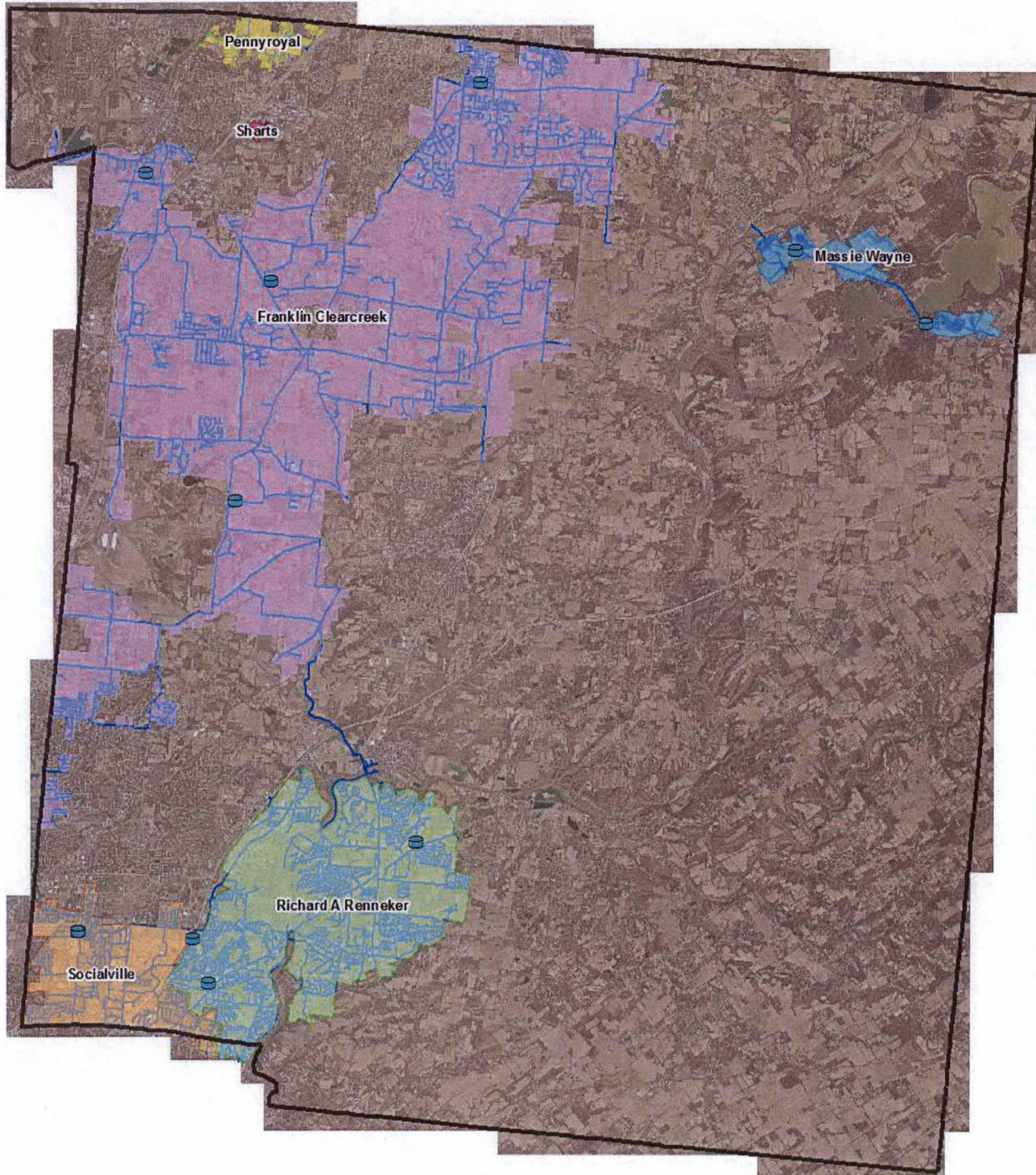
Long Term Debt: \$3.4 Million

Annual Debt Payment: \$304,000 payoff in 2030

Capital Reserve Fund: \$7.2 Million

“Clean Opinion” State Audits: 25 years in a row



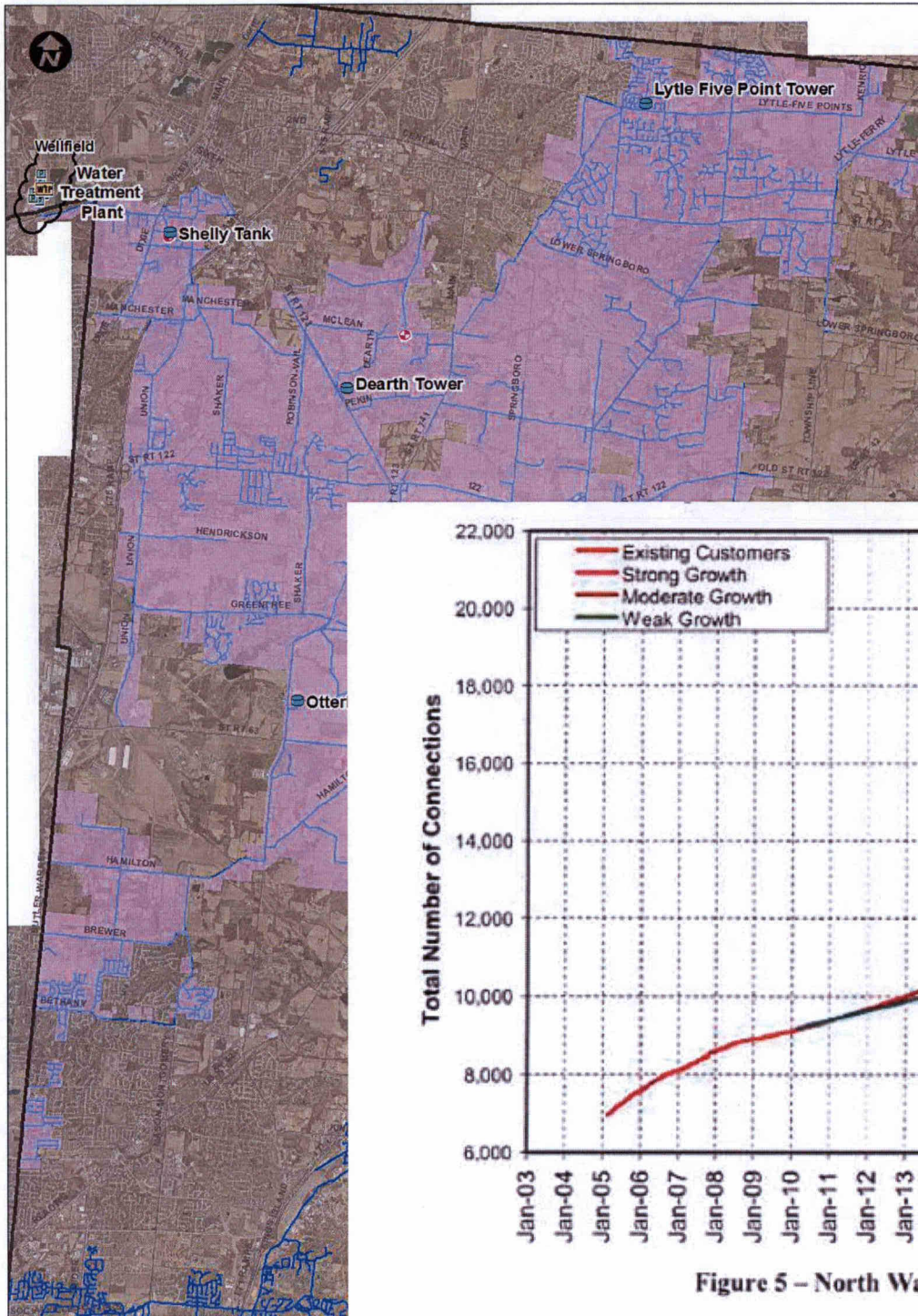


*State of the Water System*

# Water Systems

We operate six Ohio EPA regulated Public Water Systems (PWS) located throughout the County.





*State of the Water System*

# North Water System

Customer Accounts: 11,000

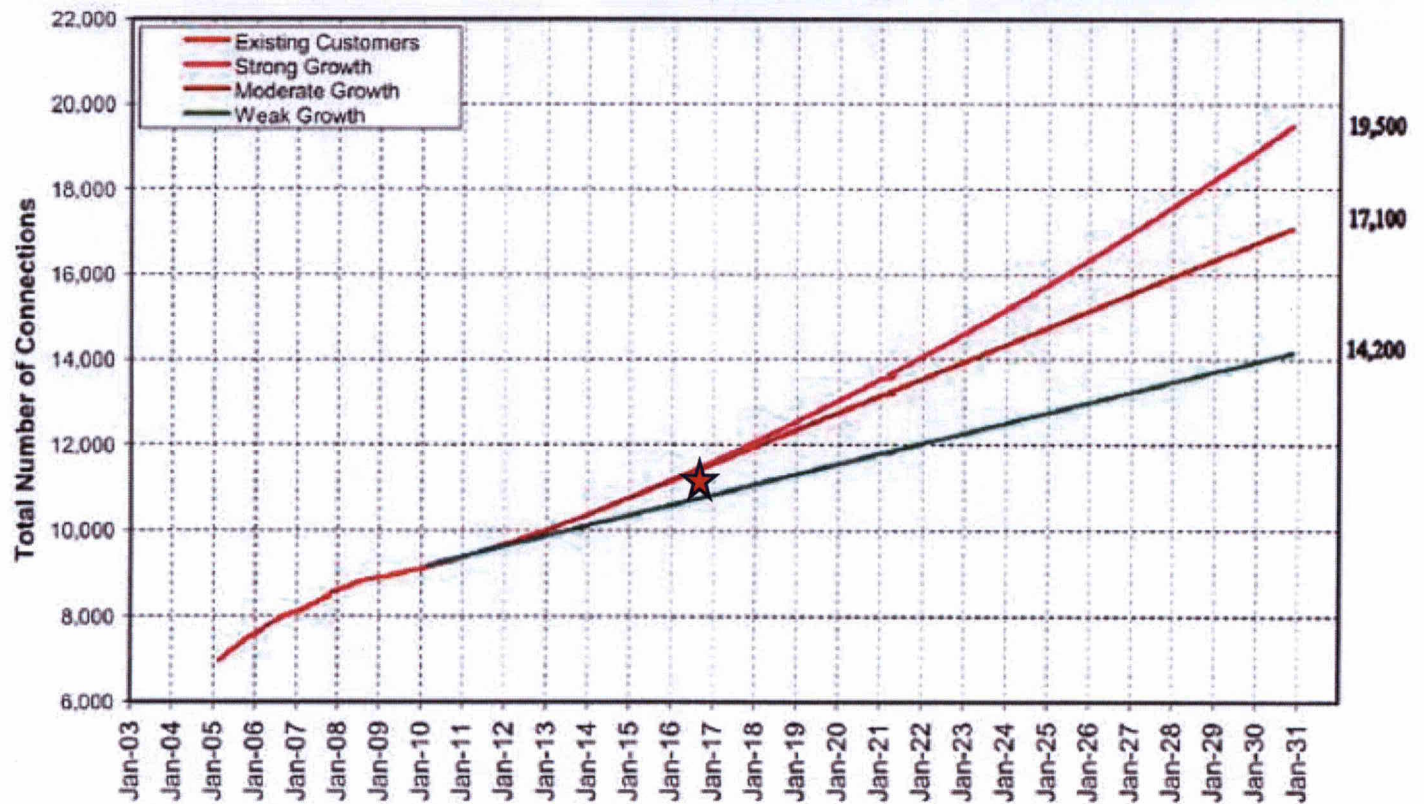
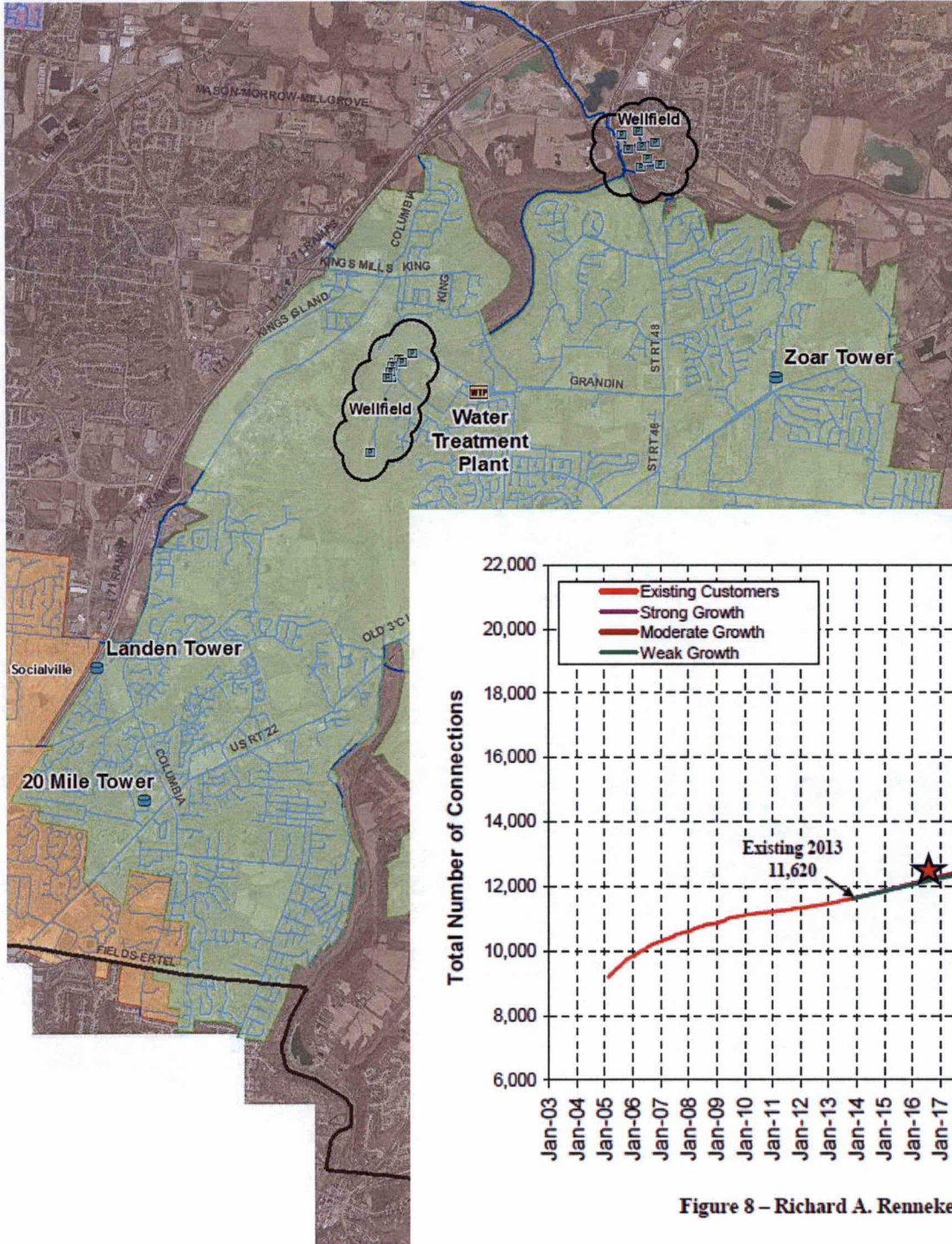


Figure 5 – North Water System Total Service Connections





# State of the Water System

# Renneker Public Water System

Customer Accounts: 12,500

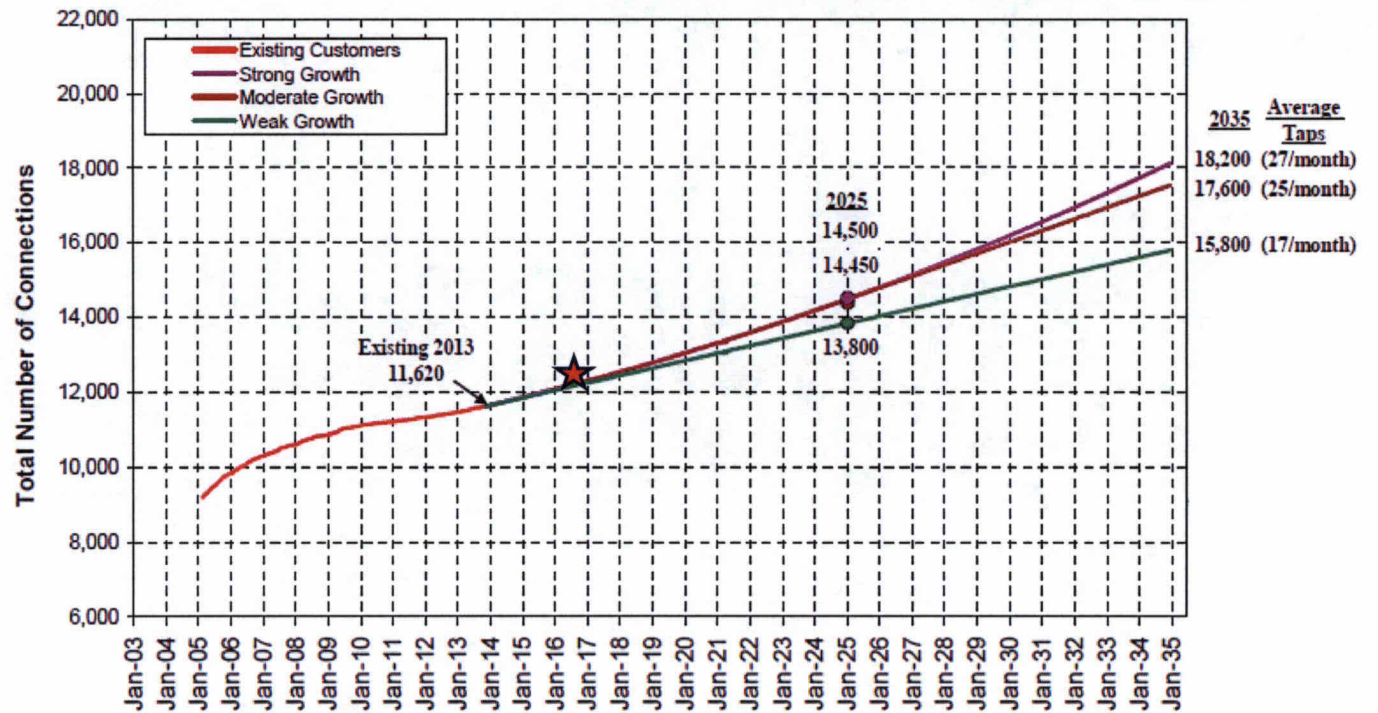


Figure 8 – Richard A. Renneker Water System Total Service Connections



# Socialville Public Water System

Customer Accounts: 4,200

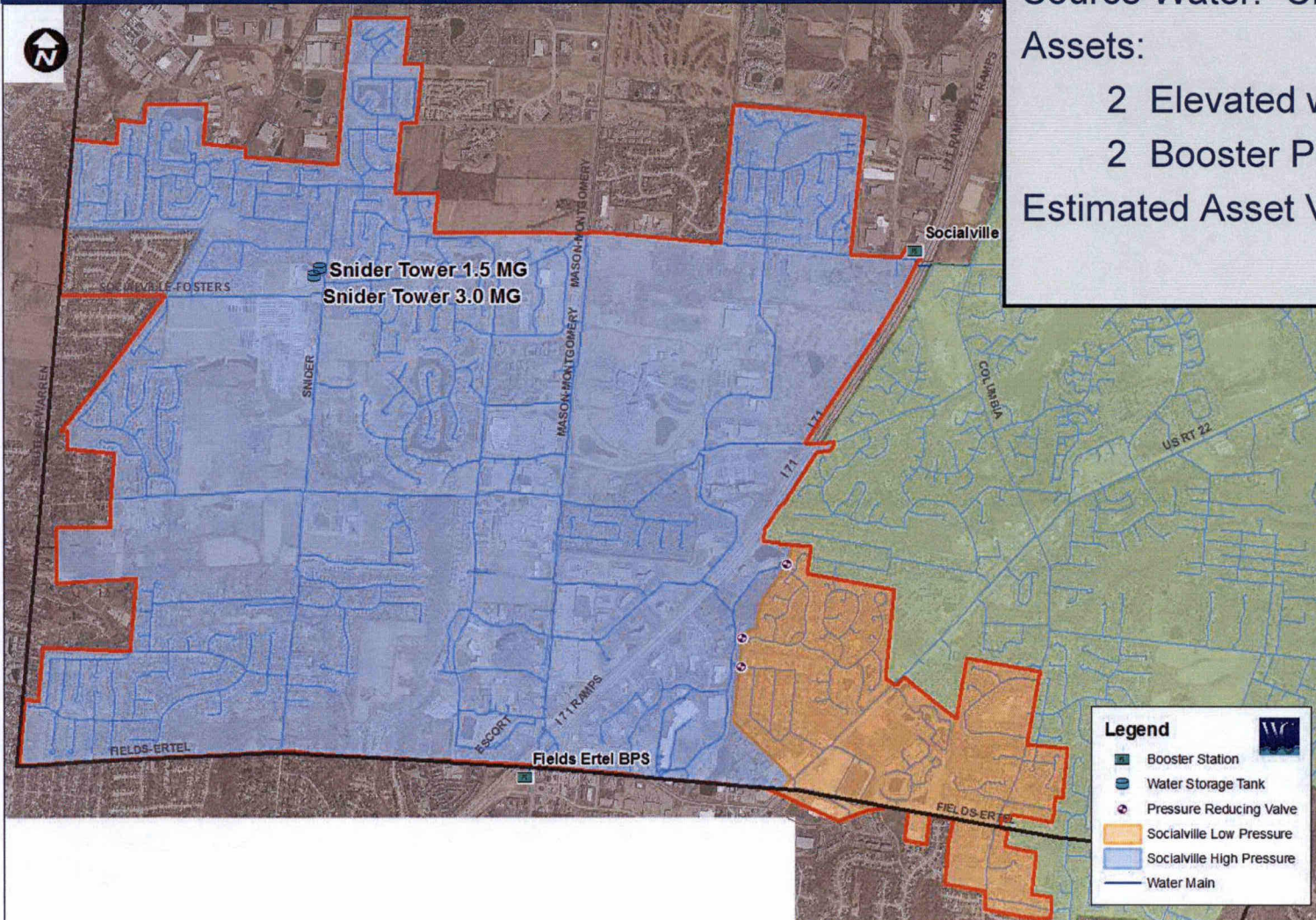
Source Water: Cincinnati Water Works

Assets:

2 Elevated water tanks

2 Booster Pump Stations

Estimated Asset Value: \$15-\$20 Million





# Issues & Challenges

GROWTH

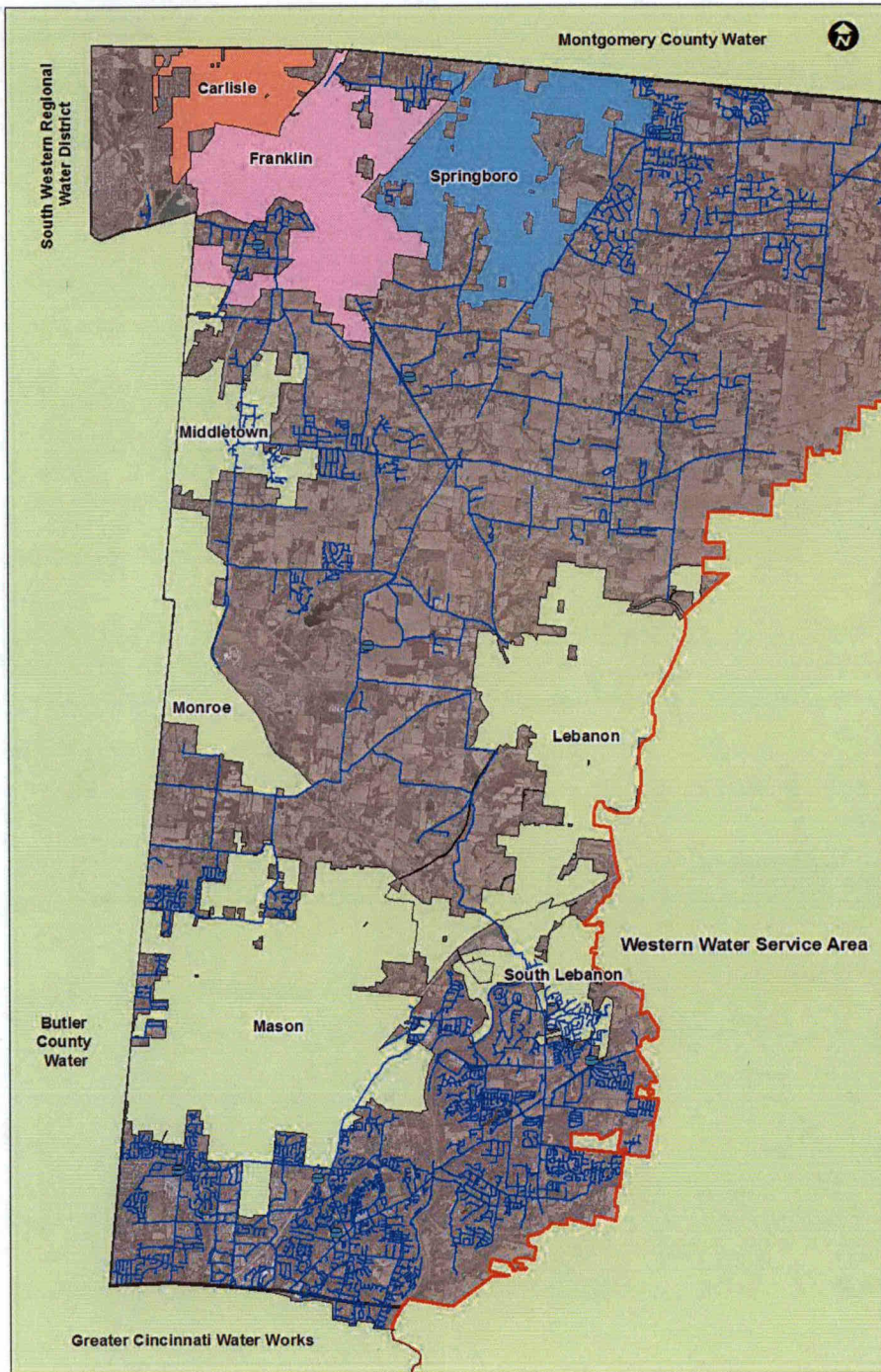
LEVEL OF SERVICE – Softened Water

FISCAL RESPONSIBILITY









## *Issues & Challenges*

# Softened Water

The expectation of softened water grows with each surrounding community that moves toward the higher level of service.



# Softened Water

Surrounding communities have adopted a water hardness standard that meets consumer expectations

Water Hardness Scale		
Grains/Gallon	mg/L & ppm	Classification
Less than 1	Less than 17.1	Soft
1 to 3.5	17.1 to 60	Slightly hard
3.5 to 7.0	60 to 120	Moderately hard
7.0 to 10.5	120 to 180	Hard
10.5 and over	180 and over	Like a stone

Note - one grain per gallon = 17.1 parts per million (ppm)

Target Range Between 75 and 150 mg/L

Nearby Communities 140 mg/L

Warren County Average 385 mg/L



# Softened Water

Customers that currently soften will save on plumbing expense and monthly operating costs.

Plumbing Contractor  
\$500 - \$1,000

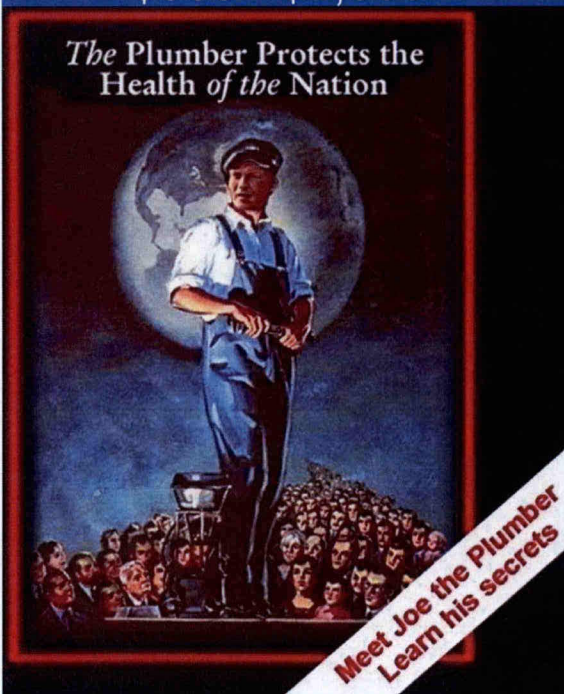
Residential Home Softener  
\$500 - \$1,300



Salt Replacement  
\$10 to \$15 / month  
\$120 to \$180 / year

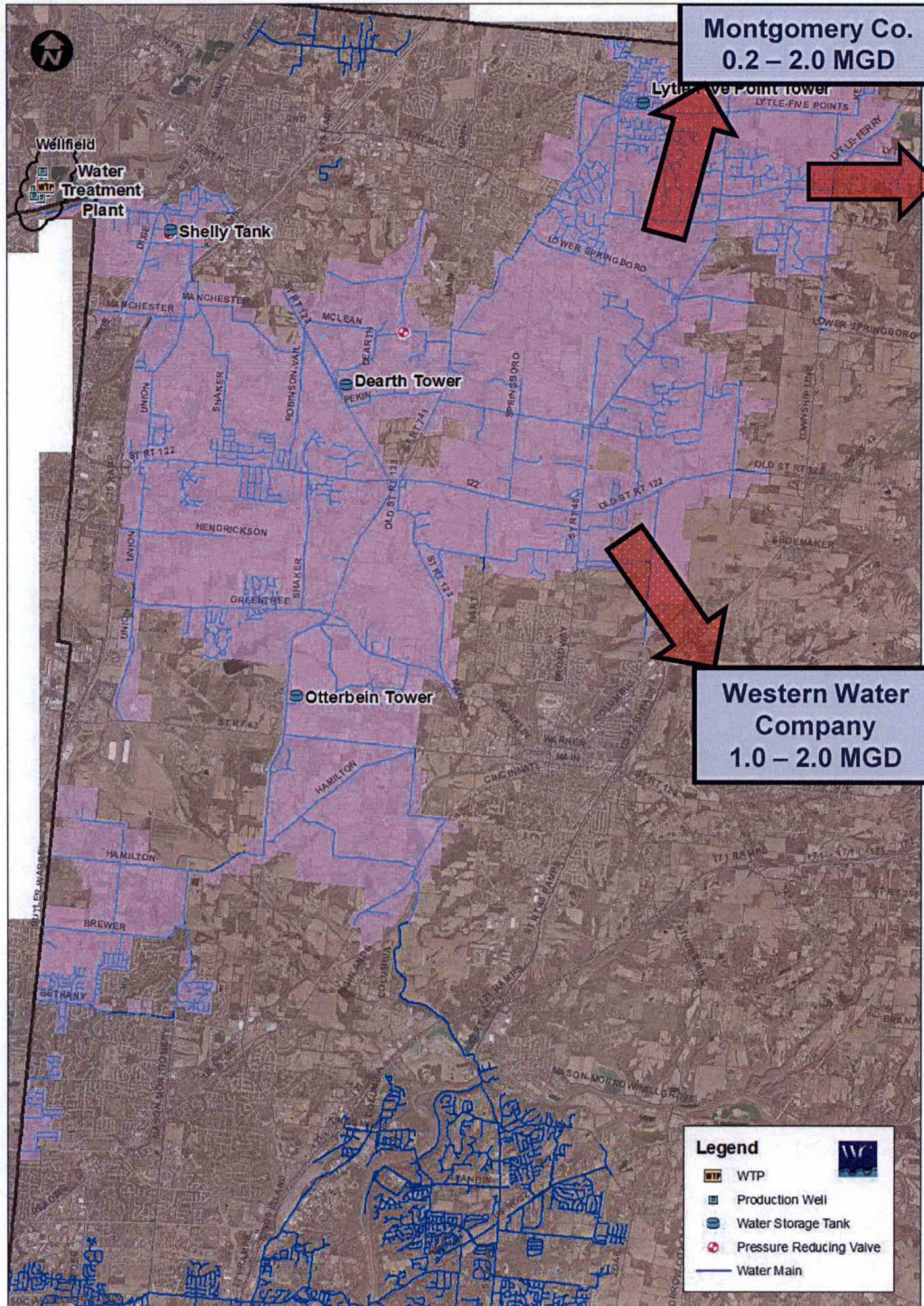


Approximately  
50% of  
customers  
soften their  
water.





## Issues & Challenges



**Softened Water**  
Wholesale water to neighboring communities becomes viable with softening facilities.



# **Fiscal Responsibility**

**Warren County stays fiscally strong by monitoring income, expenses, and risk.**

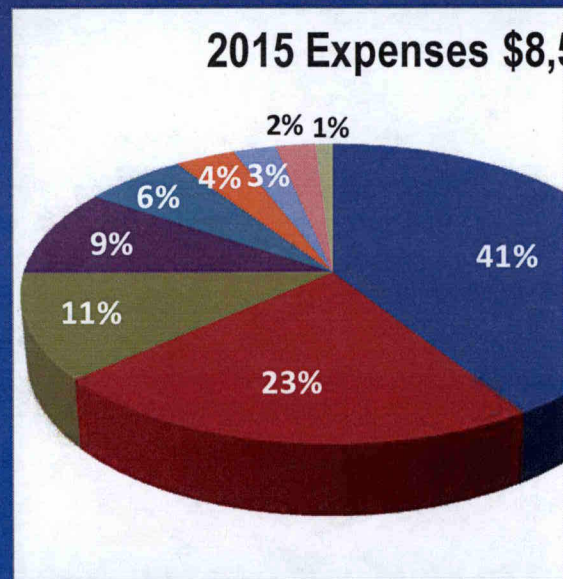
## Fiscal Risk “Things-to-Do” List

- 1. Cincinnati MSD Sewer Contract** –  
sewer services for Polk Run
- 2. Cincinnati Water Works Contract** –  
Wholesale water for Socialville area customers.
- 3. Butler County Sewer Contract** –  
sewer services for northern Deerfield Township
- 4. ~~Waynesville Sewer Services~~**
- 5. Franklin Regional WWTP** – Hunter  
Area sewer service

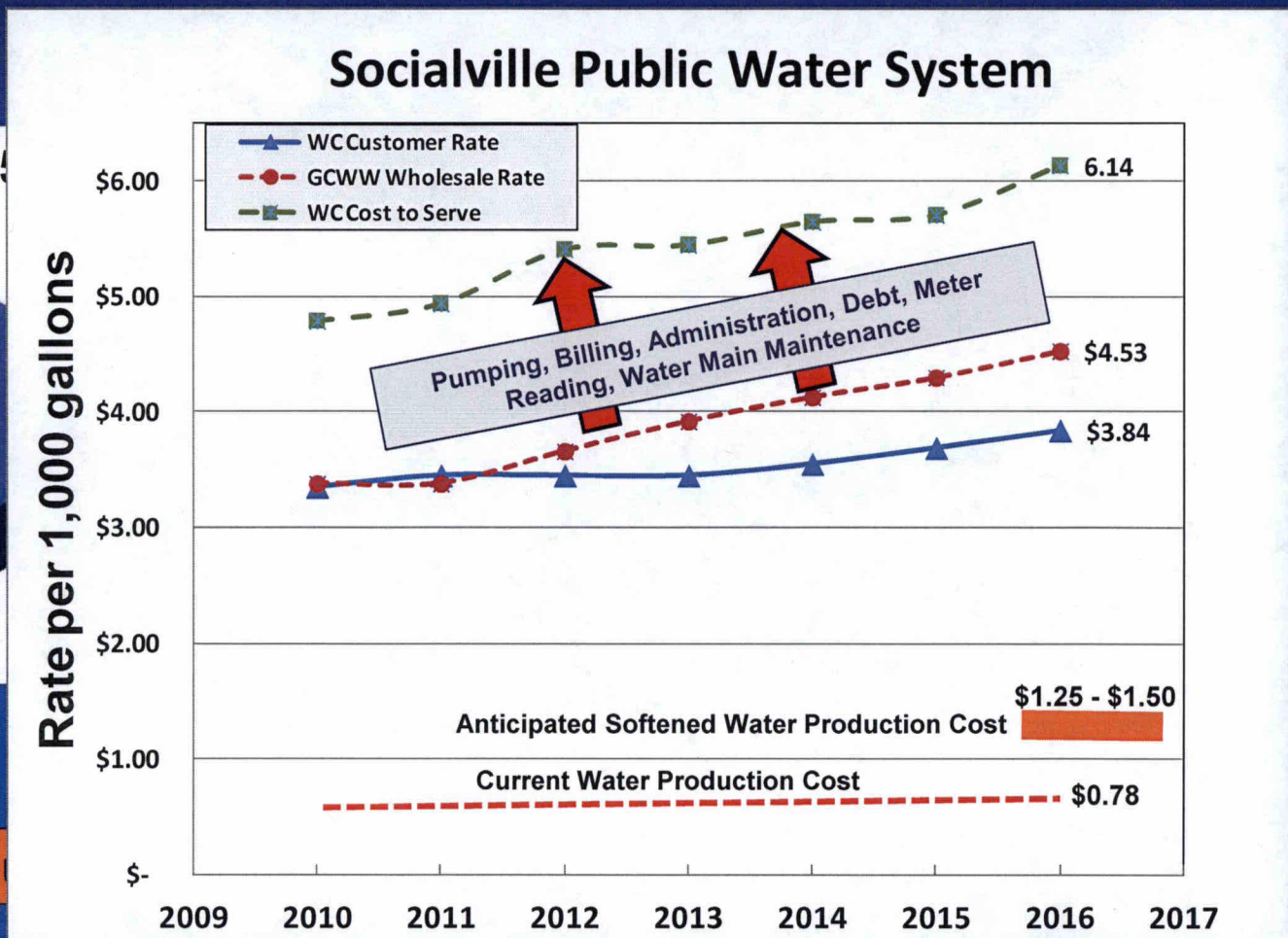


# Fiscal Responsibility

Purchased water from GCWW for the Socialville water system is the largest single expenditure for the Department and our biggest concern to fiscal stability.



Over 40% of o





# Fiscal Responsibility

Purchased water from GCWW for the Socialville water system is the largest single expenditure for the Department and our biggest concern to fiscal stability.

## WARREN COUNTY WATER AREA CONTRACT

THIS CONTRACT, entered into as of this 14<sup>th</sup> day of Feb., 1995, between the City of Cincinnati, hereinafter designated "Cincinnati," acting through its City Manager, and the Board of County Commissioners of Warren County, Ohio, hereinafter designated "County Commissioners" or "County," acting pursuant to Chapter 307 and 6103 of the Revised Code.

### WITNESSETH:

WHEREAS, Cincinnati has been supplying surplus water and water service to Warren County pursuant to a contract entered into on February 28, 1967 as extended by Warren County Resolution 84-784 and enacted on December 18, 1984 and Ordinance No. 562-1984 passed by Cincinnati City Council on December 19, 1984; and

WHEREAS, the County Commissioners desire to continue to receive surplus water and water service from the City pursuant to this contract, on behalf of the consumers which they represent and the City is willing to sell surplus water to consumers in the Warren County Water Area subject to the terms and conditions of this agreement; and

WHEREAS, the County Commissioners pursuant to Chapter 307 and 6103 of the Ohio Revised Code have the power to contract for the purchase of surplus water and water service from Cincinnati; and Cincinnati, pursuant to the Constitution of the State of Ohio and the relevant provisions of the Ohio Revised Code, the Cincinnati Municipal Code and Charter, has the power to sell such surplus water and water service to the County Commissioners;

NOW, THEREFORE, for and in consideration of the mutual promises, covenants and agreements contained herein, Cincinnati and the County Commissioners do hereby agree as follows:

Section 1. **Definitions.** For the purpose of this contract, the terms defined in this section shall have the meanings therein ascribed to them, unless, in any particular part of the contract, a different meaning shall be clearly indicated.

a) **City Water System.** The water supply, production, treatment transmission, storage, distribution and related facilities owned and/or operated by the City of Cincinnati for itself, its inhabitants, the Warren County Retail Water Area and Wholesale Water area and for all other areas served, in accordance with powers conferred upon municipalities by the Constitution and the laws of the State of Ohio.

b) **Warren County Retail Water Area** (hereinafter sometimes referred to as the Retail Area). The Warren County Retail Water Area means the area delineated on the plats attached hereto and made a part hereof and designated "Appendix C".

c) **Warren County Wholesale Water Area** (hereinafter sometimes referred to as the

## 1995 Wholesale Contract

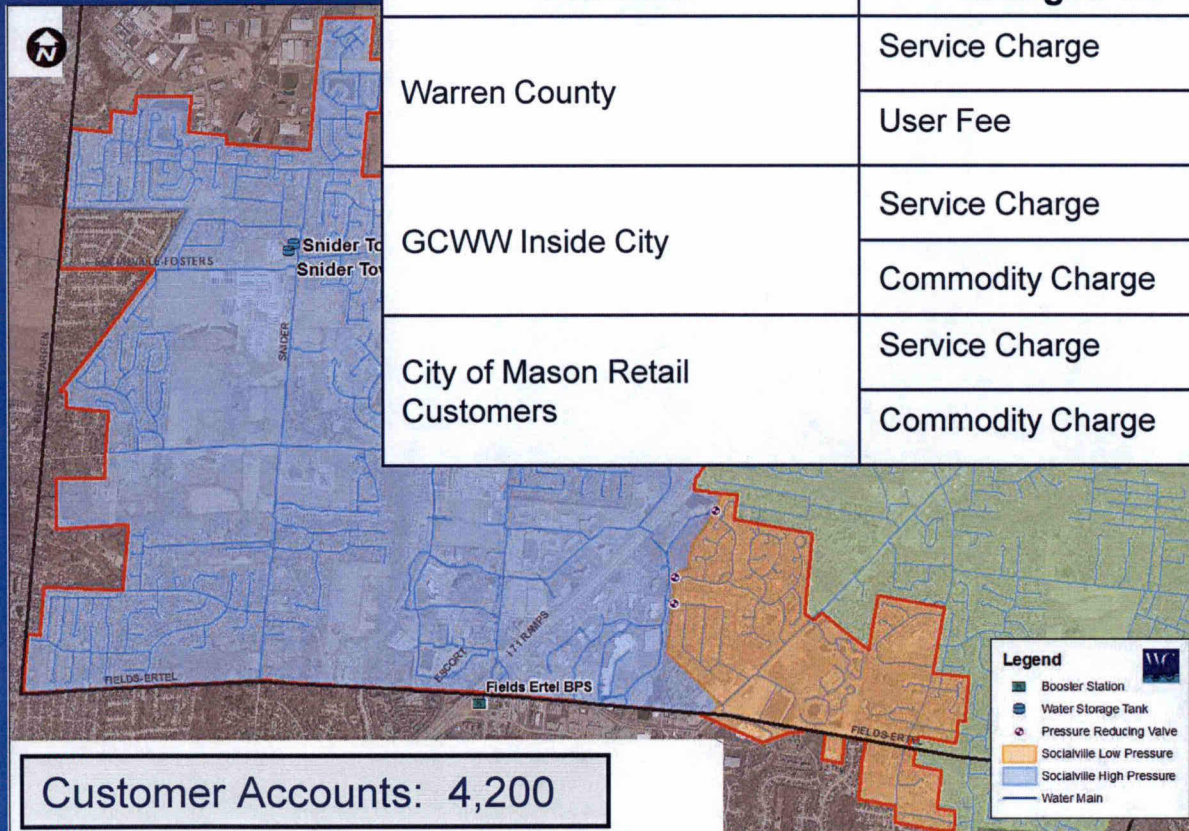
- Contract ends on 12/31/2025.
- County rate is 1.62 times the rate paid in Cincinnati in the second highest monthly consumption bracket.
- County can buy back the Socialville ground storage tank by giving notice on 12/31/2023.



# Fiscal Responsibility

Transferring customers and assets to GCWW for retail water service would resolve the financial concern but may not be favorable to Socialville residents.

Provider	Charge/Fee	Rate (\$/1,000 gallons)
Warren County	Service Charge	\$0.00 per month
	User Fee	\$3.84 per 1,000 gal
GCWW Inside City	Service Charge	\$12.02 per month
	Commodity Charge	\$3.32 per 1,000 gal
City of Mason Retail Customers	Service Charge	\$13.15 per month
	Commodity Charge	\$3.61 per 1,000 gal



Customer Accounts: 4,200

Customer's typical monthly cost would increase from Warren County's \$23 to somewhere around \$35



# Future Options

## Option 1 –

- Construct Softening Facilities
- Minimize the wholesale purchase of water

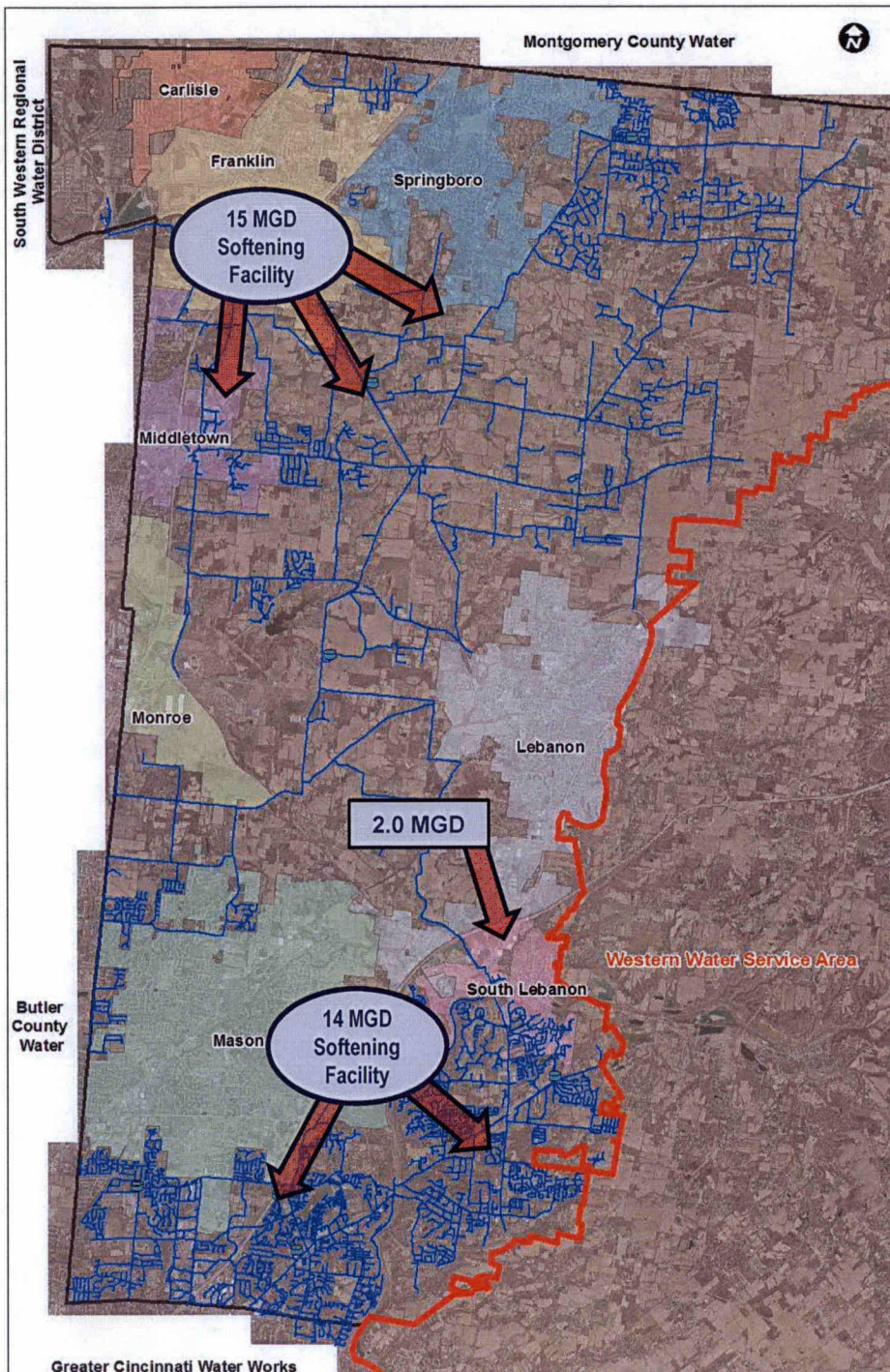
## Option 2 –

- Construct Softening Facilities
- Continue purchasing GCWW water for Socialville

## Option 3 –

- Construct North Water Treatment Softening Facility
- Retire South Treatment Plant and use it as a Booster Pump Station
- Purchase GCWW water for Socialville, Hamilton & Deerfield Twp





## Future Options

# OPTION 1

**ARMY.  
BE ALL YOU CAN BE.**

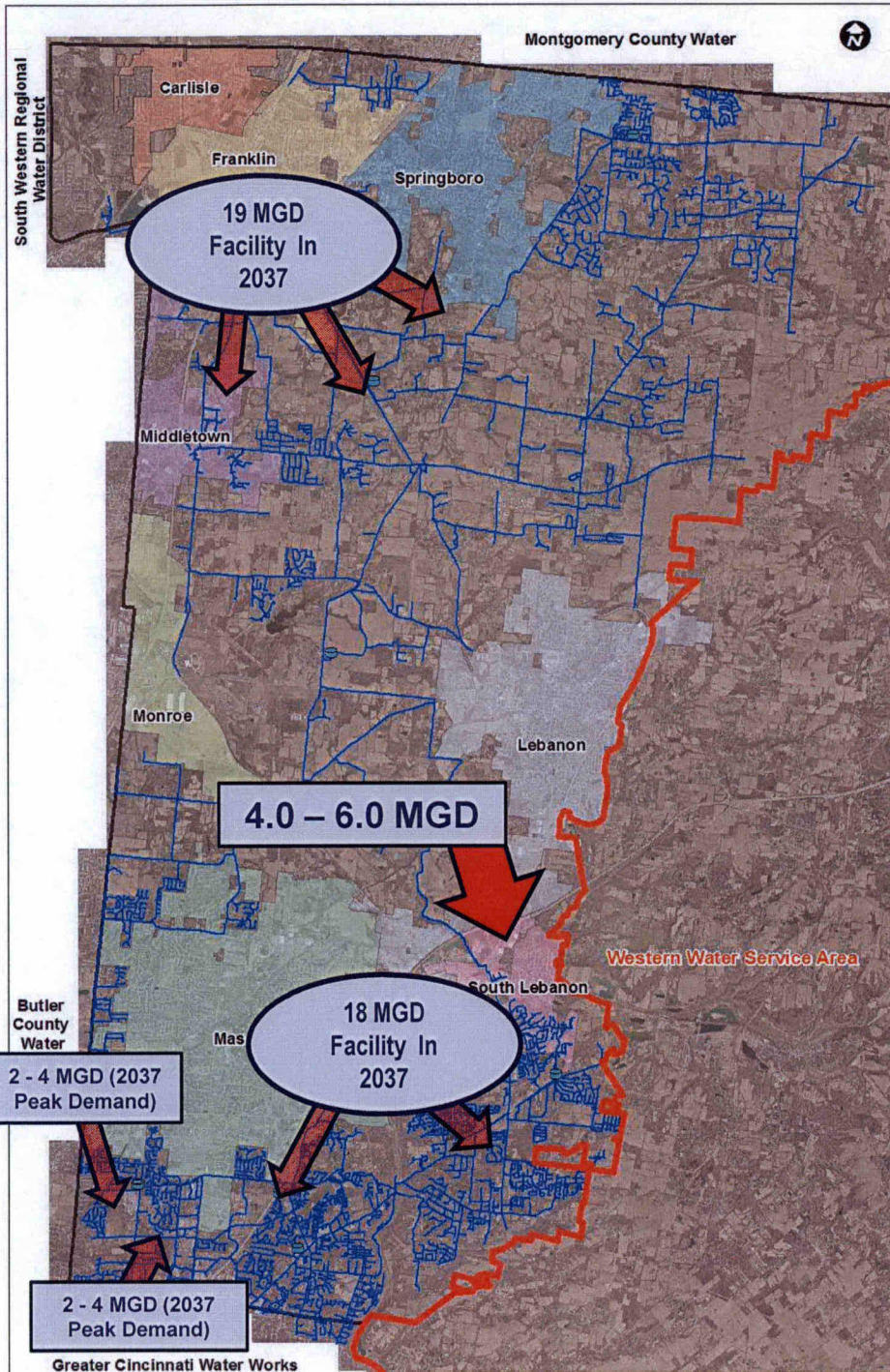
## Finances

- Cash: \$20 Million
- Loan: \$42 Million in 2020
- Annual Service Payment: \$3M

## Customer Fees

- User Rate: 3% Increases
- Capital Fee: \$3.75/month
- Capital Fee Period: 2017-2026





## Future Options

# OPTION 1

**ARMY.  
BE ALL YOU CAN BE.**

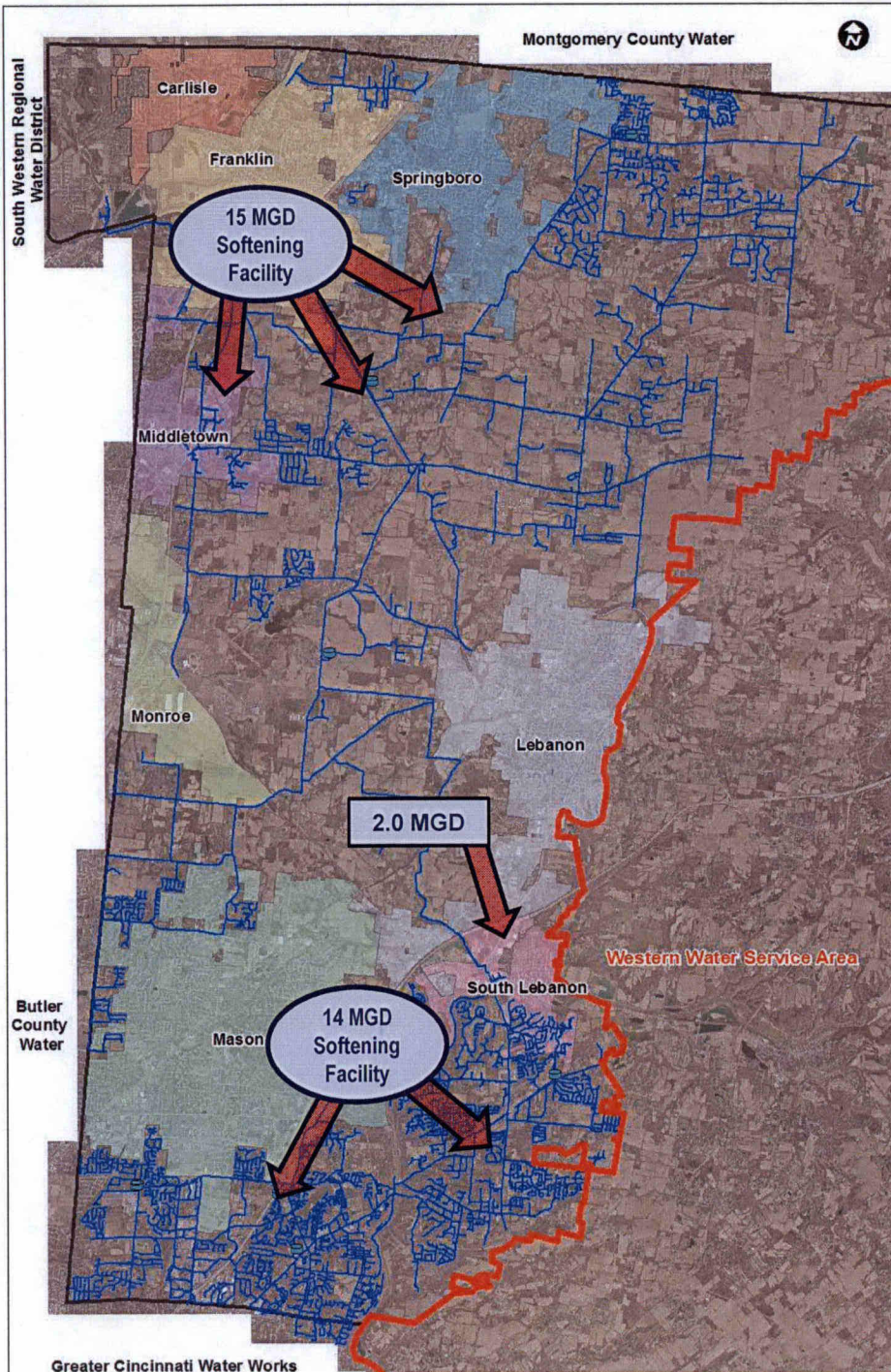
## Long Term (2027-2037)

- South Peak Summer Demand

## Long Term Options (2027-2037)

1. Purchase peak water from GCWW or Butler County
2. Expand South Treatment Plant
3. Expand North Treatment Plant and push more water South





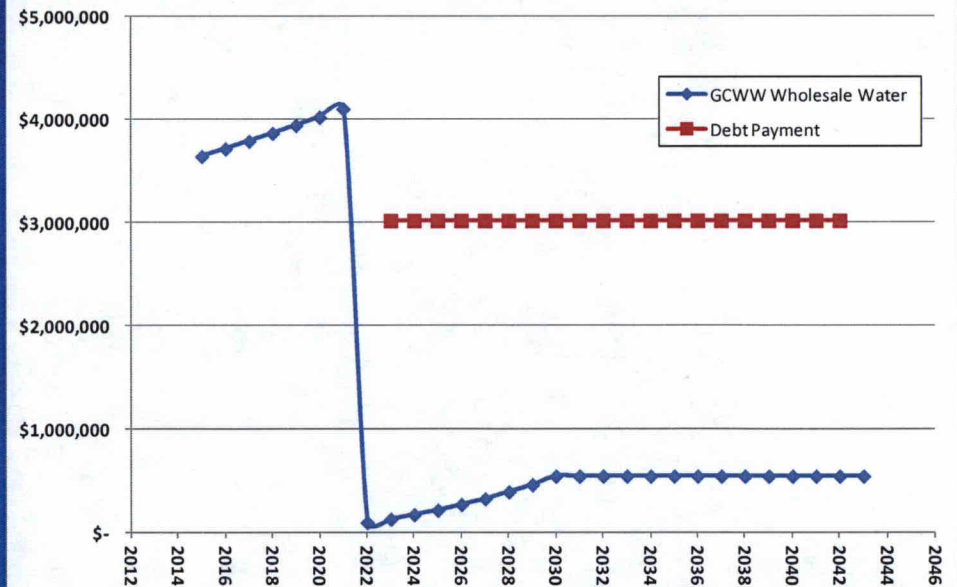
Greater Cincinnati Water Works

## Future Options

# OPTION 1

**ARMY.  
BE ALL YOU CAN BE.**

This option invests in Warren County assets instead of GCWW wholesale water.



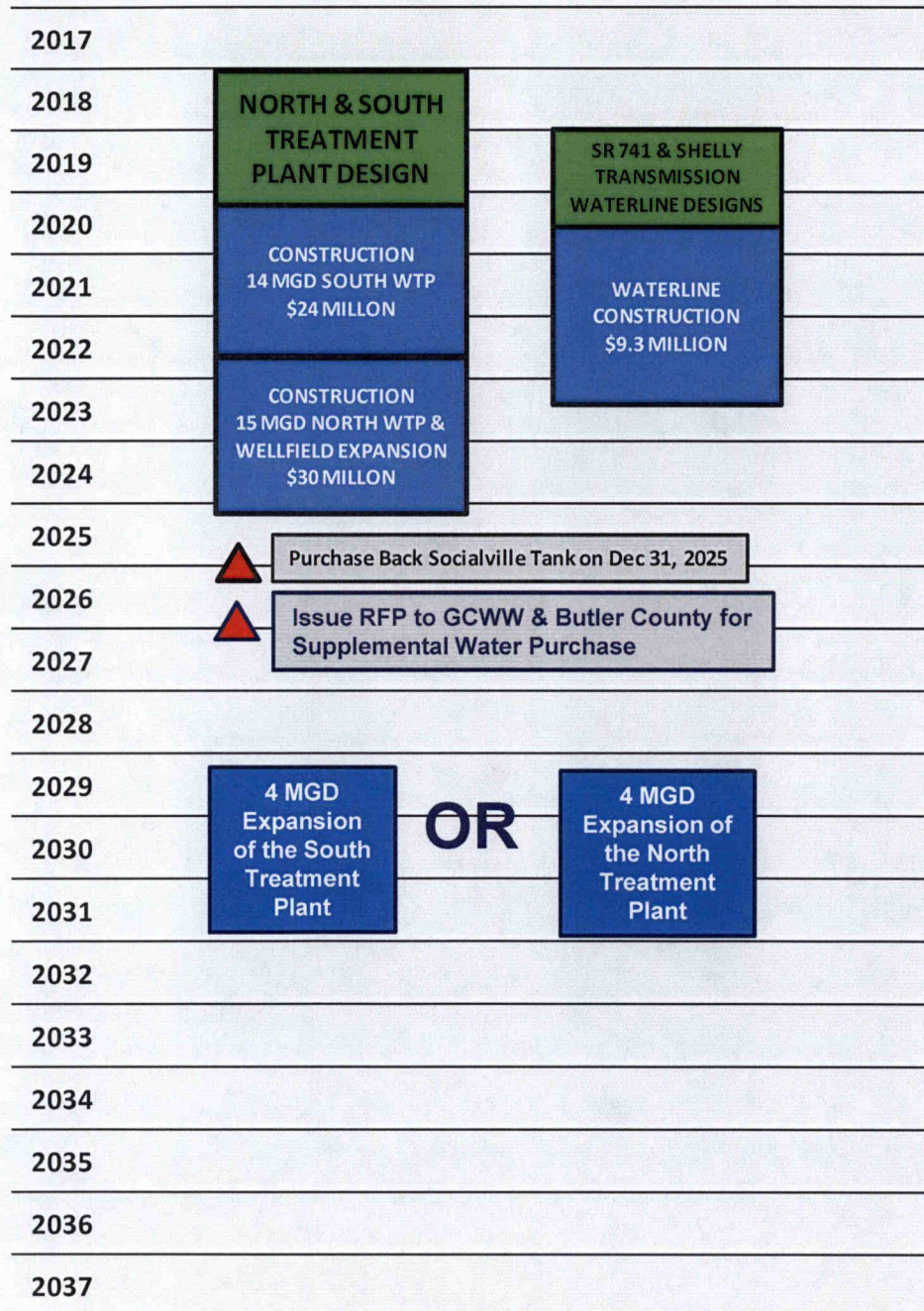
**KEY ADVANTAGE:** Financially strong in the long term. Annual surplus of \$2-3 million after 2024 can be reinvested in the Water System.



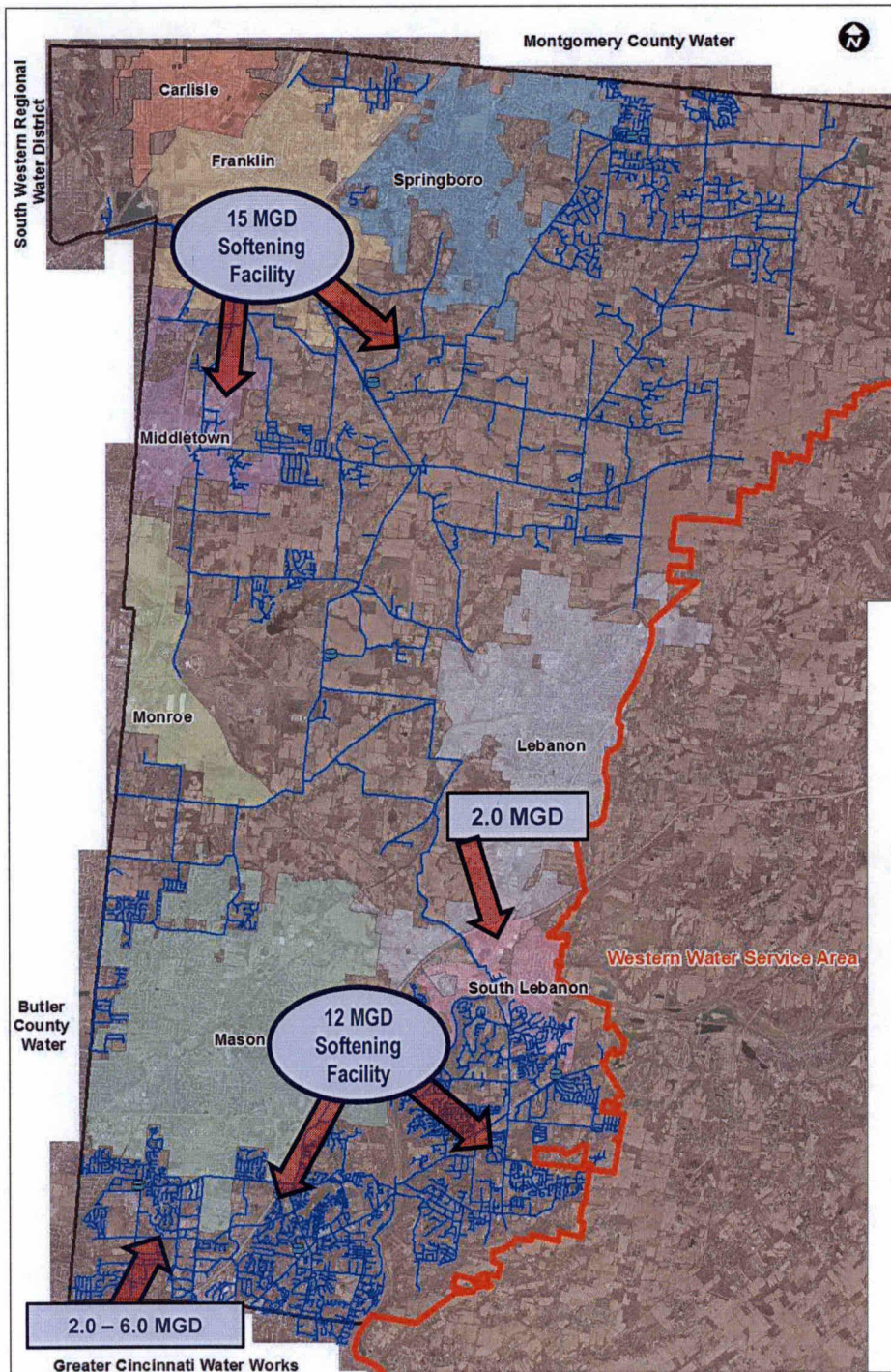
*Future Options*

# OPTION 1

**ARMY.  
BE ALL YOU CAN BE.**

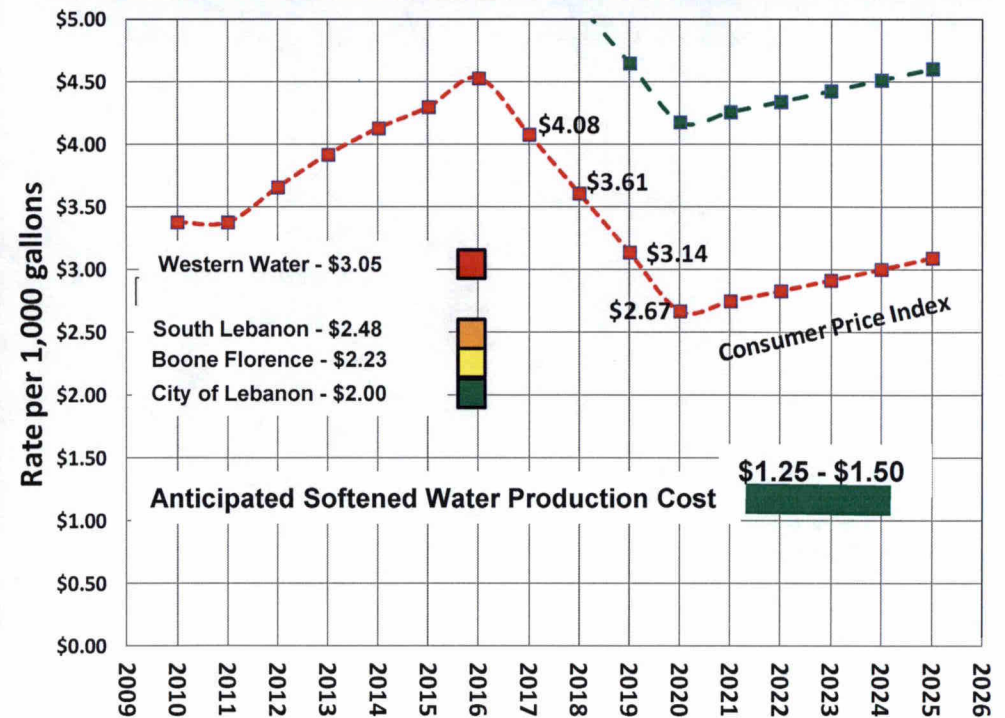




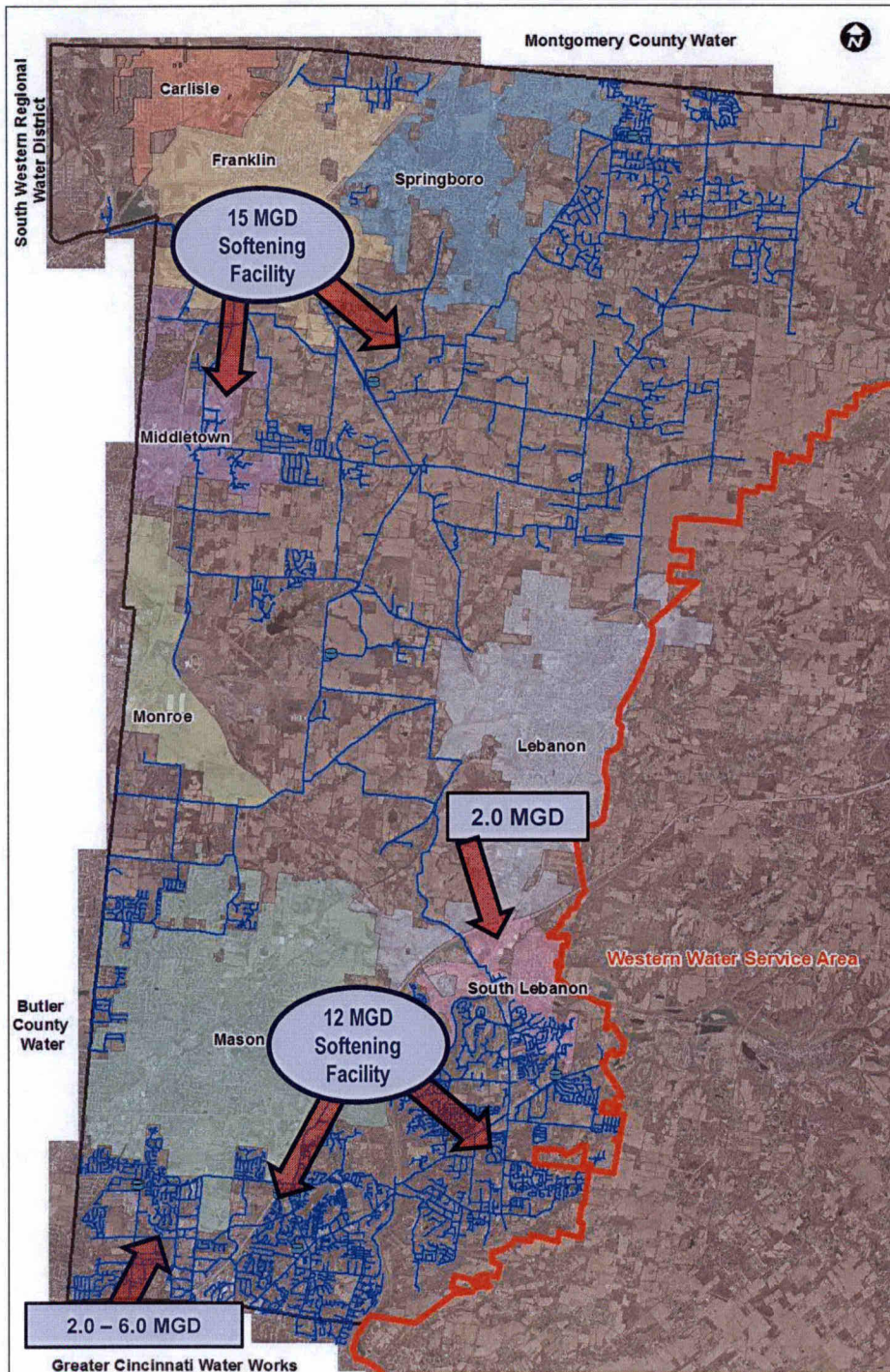


## Future Options

# OPTION 2







## Future Options

# OPTION 2



## Finances

- Cash: \$20 Million
- Loan: \$32 Million in 2020
- Annual Service Payment: \$2.3M

## Customer Fees

- User Rate: 3% Increases
- Capital Fee: \$3.75/month
- Capital Fee Period: 2017-2026



## Future Options

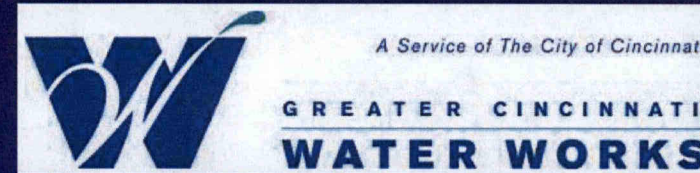
# OPTION 2



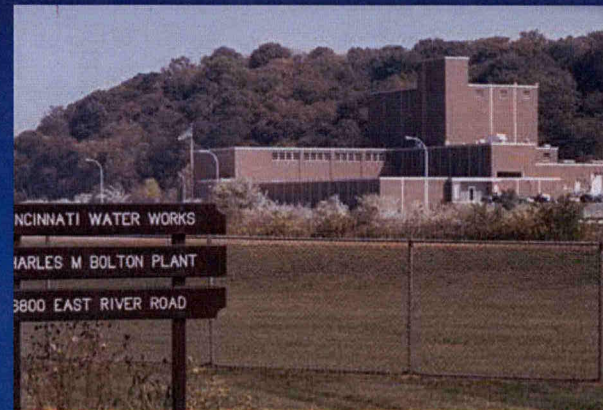
2017		
2018	<b>NORTH &amp; SOUTH TREATMENT PLANT DESIGN</b>	<b>SR 741 &amp; SHELLY TRANSMISSION WATERLINE DESIGNS</b>
2019		
2020		
2021	<b>CONSTRUCTION 12 MGD SOUTH WTP \$20.8 MILLION</b>	<b>WATERLINE CONSTRUCTION \$9.3 MILLION</b>
2022	<b>CONSTRUCTION 15 MGD NORTH WTP &amp; WELLFIELD EXPANSION \$30 MILLION</b>	
2023		
2024		
2025		
2026		
2027		
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2037		



## Option 3

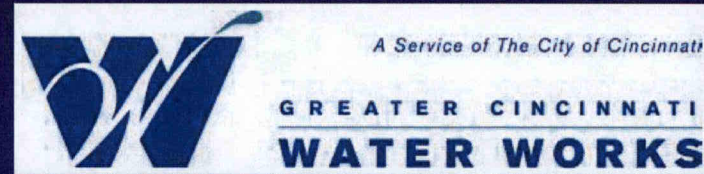


- Current treatment capacity of 260 to 280 MGD.
- Average daily production 126 MGD.
- Conventional treatment, plus GAC treatment and UV Disinfection, of the Ohio River Water at the Richard Miller Treatment Plant.
- Lime softening of Great Miami River aquifer water at the Charles M. Bolton Plant.





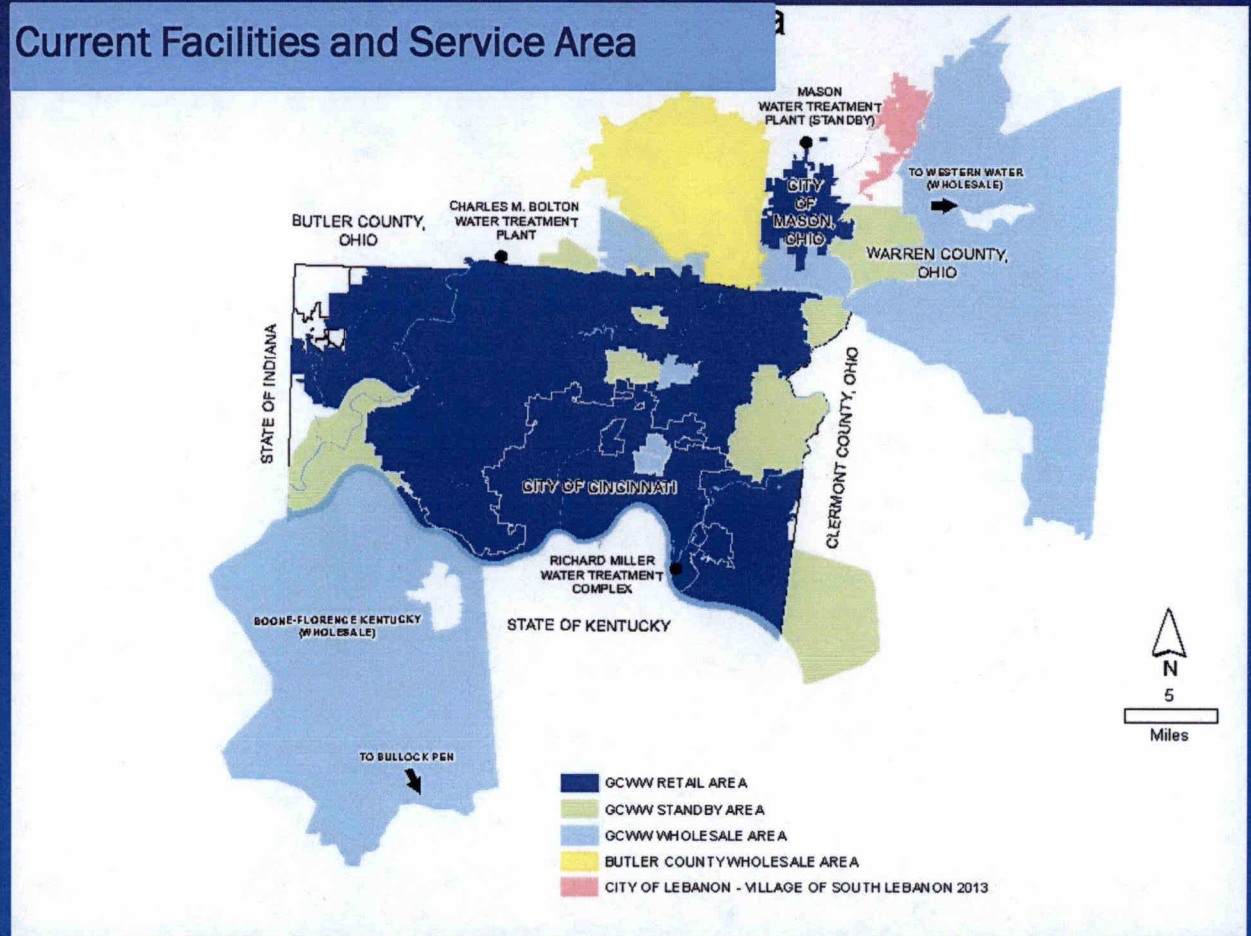
# Option 3



## Utility Service Area and Customer Base

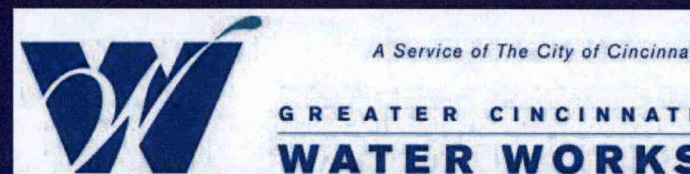
- Service area in 1998 = 350 square miles
- Service area in 2015 = 830 square miles
- GCWW Supplies over 45 billion gallons of water per year.

Current Facilities and Service Area





## Option 3



## GCWW System Growth

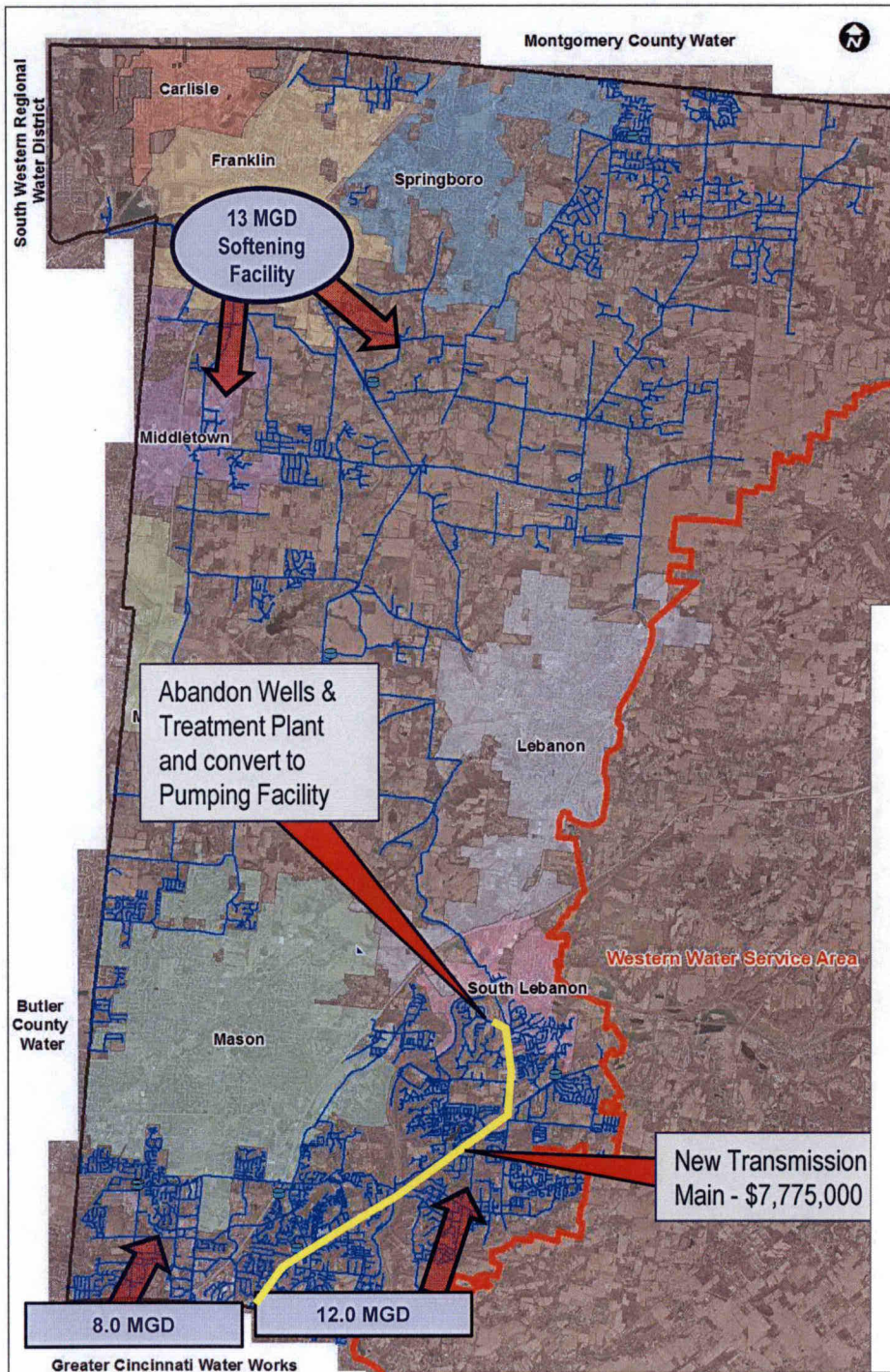
- ABUNDENT WATER SUPPLY GCWW has an abundant raw water supply and excess water treatment capacity that can accommodate additional growth.
- ADVANCED TREATMENT Advanced processes like GAC and UV treatment are best available technologies to produce high quality water.
- STABLE WATER Finished water is stable and can be transported over great distances.
- RELIABLE SUPPLIER System and source water redundancy and reliability ensure a continuous water service during all conditions.



# Technological Leadership

- The quality of GCWW's water is excellent and meets all current federal and state standards
- GCWW has never had a violation of any regulated maximum contaminant level
- GCWW is proactive in following rule development by participating in regulatory workgroups and working closely with Ohio Environmental Protection Agency, USEPA and professional organizations representing utilities' interests





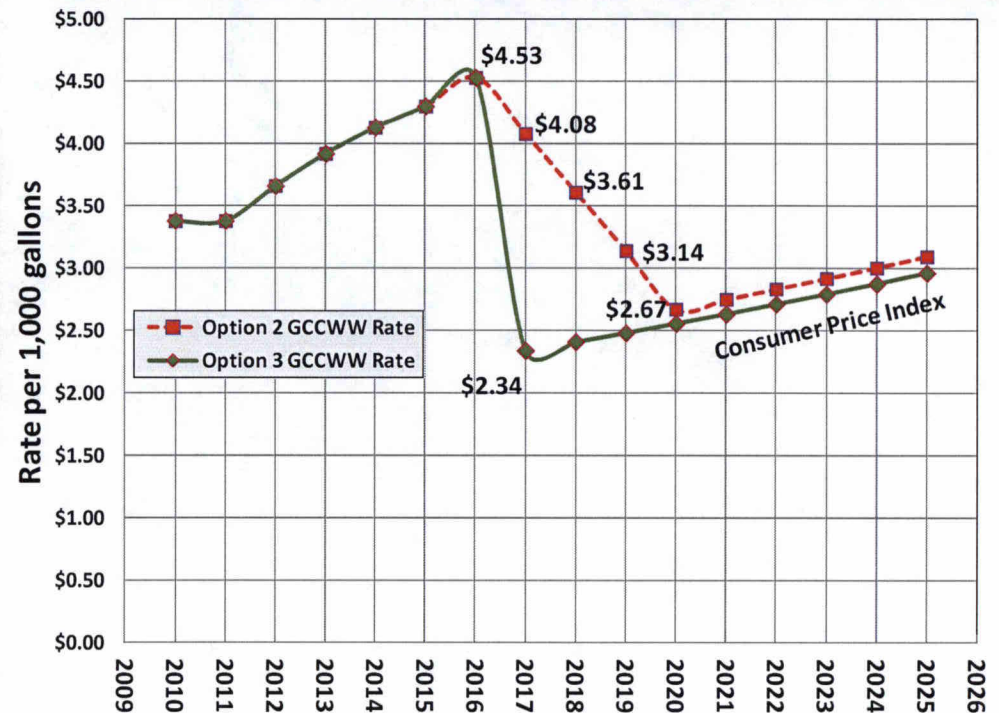
## Future Options

# OPTION 3



## Improvements

- 2017 Improvements: \$7,775,000
- 2022 Improvements: \$10,160,000
- 2030 Improvements: \$8,755,000





# Recommendations

1. Proceed forward with Option 1.
2. Issue an Request for Qualifications for design of softening facilities for both the North and South Water Treatment Plants.
3. Continue Discussions with GCWW.
4. Continue Discussions with Butler County.