SAUL EWING
LLP

Courtney L. Schultz
Phone: (215) 972-7717
Fax: (215) 972-1839
Courtney.Schultz@saul.com
www.saul.com

June 13, 2025

Via E-File
Matthew L. Homsher, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street
Harrisburg, PA 17105

Re: Application of Aqua Pennsylvania, Inc.
Docket No. A-2024-3049015

Dear Secretary Homsher:

On behalf of Aqua Pennsylvania, Inc. ("Aqua"), please accept this filing made in connection with the above-referenced Application, filed with the Commission on April 25, 2025 pursuant to Sections 1102, 1329, and 507 of the Public Utility Code, 66 Pa. C.S. §§ 1102, 1329, and 507, for approvals related to the acquisition by Aqua of the water system assets of the Municipal Authority of the Borough of Greenville ("GWA"). The Bureau of Technical Utility Services is reviewing the Application and asked via letter dated May 14, 2025 that we address certain requests for additional information.[1] Those requests are addressed herein.

Please do not hesitate to contact me if you have any questions.

Sincerely,

Courtney L. Schultz

Encls.
Cc: Per Certificate of Service

[1] Aqua requested an extension of time to respond to these requests on May 23, 2025, which request was granted providing Aqua until June 13, 2025 to respond.

Information Request No. 1:

Checklist Item No. 7 – The Application's Section 62 indicated that Exhibits T1 and T2 included the valuation service agreements and all associated invoices for payment to the Utility Valuation Experts (UVEs). However, it appears that these exhibits only contained the valuation service agreements. Please provide copies of all associated invoices supporting the $73,030 balance paid to the UVEs.

RESPONSE:

Included with this letter are the UVE invoices supporting the balances paid.

Information Request No. 2:

Checklist Item Nos. 12 and 18.a. – The Application's Exhibit H included a copy of Municipal Authority of the Borough of Greenville (GWA) Resolution 01-25, dated February 12, 2025, which identified a rate for customers with a meter size of 5/8 inch x 3/4 inch in the Resolution's Appendix A. However, the Application's Exhibit G included a copy of Aqua Pennsylvania, Inc.'s (Aqua's) *pro forma* tariff supplement (Pro Forma Tariff), which did not include a rate for this meter size. Please provide an amended Pro Forma Tariff containing a rate equal to GWA's existing rates at the time of acquisition, including rates for customers with a meter size of 5/8 inch x 3/4 inch.

RESPONSE:

The 5/8 x 3/4 inch meter size is included in Application Exhibit G under "Multiple Meter Fire Service Customer Charge".

Information Request No. 3:

Checklist Item Nos. 12 and 18.a. – The Application's Section 30 indicated that GWA provides bulk water truck filling at the WTP under separate individual one-off agreements that are valid only for the single use. Also, the Application's Exhibit Q included a copy of a document titled, "[GWA] 2023 Water System Annual Report & 2024 Operating Budget" as Exhibit 23, Pages 130-157, which appears to indicate on Page 150 that GWA's bulk water sale rate is $9.94 per thousand gallons (billed monthly), metered bulk water use throughout the system is billed with a $25 minimum, and bulk water obtained at the water treatment plant has a $5 service fee applied per load unless waived by GWA. Please respond to each of the following:

a. Provide an amended Exhibit H that includes a copy of GWA's current rates for bulk water service; and

b. Provide an amended Pro Forma Tariff containing a rate equal to the seller's existing rates at the time of acquisition, including any bulk water rates of the seller.

RESPONSE:

Included with this letter is an updated Pro Forma Tariff (Application Exhibit G) with the bulk rate included. The GWA will be passing a resolution at its next regular or special meeting, and Aqua will provide the resolution as soon as it is available.

Information Request No. 4:

Checklist Item Nos. 12 and 18.a. – The Application's Exhibit H included a copy GWA Resolution 01-25, dated February 12, 2025, which identified a PA DEP Safe Drinking Water Fee rate of $0.30 in the Resolution's Appendix A. However, Aqua's Pro Forma Tariff did not include this rate. Please provide an amended Pro Forma Tariff containing a rate equal to GWA's existing rates at the time of acquisition, including any PA DEP Safe Drinking Water Fee rate of the seller

RESPONSE:

Included with this letter is the GWA resolution confirming that the PA DEP Safe Drinking Water Fee will be eliminated at the time of closing.

Information Request No. 5:

Checklist Item No. 14.c. – The Application's Exhibit Y, Direct Testimony of William C. Packer, Page 27 indicated that at least two public meetings were held by GWA prior to signing the Asset Purchase Agreement (APA) in September 2023, and that because the public meetings were held before the entry of the Commission's 2024 Final Supplemental Implementation Order (FSIO), response to public input was not required at the time of those hearings. However, Checklist Item No. 14.c. requires that the Applicant identify in buyer direct testimony the ways in which the buyer has responded to input received at the public hearings referenced in Checklist Item 26, if any. Please provide revised buyer direct testimony that identifies the ways in which Aqua has responded to the input received at the public hearings referenced in Checklist Item 26, if any. If no input was received at the public hearings, or if Aqua or GWA do not possess a record of the input received at the public hearings, please provide a verified statement to that effect

RESPONSE:

Please see the response to Information Request No. 6, which includes the updated Direct Testimony of William C. Packer, Aqua Statement No. 1 (Application Exhibit Y), at page 27.

Information Request No. 6:

Checklist Item No. 15.a. – The Application's Exhibit D included a copy of the Engineering Assessment (Engineering Assessment). The Engineering Assessment did not include the original cost of water meters. However, Exhibit AA, Direct Testimony of Scott Steffy, P.E., Page 4 indicated that the system includes 2,689 active meters. Please provide a revised Engineering Assessment that includes the water meters, and revised UVE valuations and testimony as necessary to reflect the value of the water meters in the GWA system

RESPONSE:

Included with this letter are updated copies of the Application, Engineering Assessment (Application Exhibit D), UVE Appraisals (Application Exhibits Q and R, along with updated confidential workpapers), and Direct Testimony: GWA Statement No. 3, Aqua Statement No. 1, Aqua Statement No. 2, and Aqua Statement No. 6.

Information Request No. 7:

Checklist Item Nos. 15.b. and 24.d. – The Engineering Assessment, Attachment 1 – Asset Inventory, Account No. 303 Land and Land Rights included approximately 40 easements. However, Schedule 4.09 of the APA, included as the Application's Exhibit B, listed approximately 105 easements. Please provide a revised APA and/or Engineering Assessment to correct this discrepancy.

RESPONSE:

Please see the response to Information Request No. 6, which includes an updated Engineering Assessment (Application Exhibit D).

Information Request No. 8:

Checklist Item No. 19.c. - The Application's Exhibit K included a copy of GWA's 2023 Annual Report filed with the Commonwealth's Department of Community and Economic Development (DCED). However, Checklist Item No. 19.c. requires a copy of the seller's most recent annual report filed with DCED. Please provide a copy of GWA's 2024 Annual Report filed with DCED

RESPONSE:

Included with this letter is GWA's 2024 DCED Annual Report.

Information Request No. 9:

Checklist Item No. 23.a. – Aqua's response for Application Checklist Item No. 23 specified that the Application's Page 7 included a verification statement that water sources and customers are metered in accordance with 52 Pa. Code § 65.7. However, the Application's Pages 7-8 only included a verification that all customers are metered, and Aqua did not verify that water sources are metered. Please provide a verification statement that water sources and customers are metered in accordance with 52 Pa. Code § 65.7.

RESPONSE:

Included with this letter is a verified statement that all customers are metered.

Information Request No. 10:

Checklist Item No. 26.a. – Aqua's response for Application Checklist Item No. 26.a. identified that the Application's Page 18 and Exhibit II contained a verification statement that public hearings described the acquisition's potential rate impacts. However, neither the Application's Page 18 nor Exhibit II included this verification. Please provide an amended response for Application Checklist Item No. 26.a. to identify the document, section, and page number of either the verification statement that public hearings described the acquisition's potential rate impacts, or of Aqua's detailed explanation of why this verification statement is not provided.

RESPONSE:

A verification was provided in Application Exhibit II that at least two public meetings were held prior to the execution of the APA. The requirement that the public meetings include a discussion of potential rate impacts was not a requirement at the time the public meetings were held as the Commission's Final Supplemental Implementation Order ("FSIO") was entered on July 2, 2024, and the public meetings at which the transaction or the APA were discussed were held on January 31, 2023, April 12, 2023, August 9, 2023, and September 13, 2023, with the signing of the APA on September 26, 2023. The Commission's FSIO states that "[t]he public hearing, rate impact notice, and default appraisal weight provisions of the *2024 FSIO* will go into effect 30 days after the entry of this Order with respect to all acquisitions where an APA has not been executed." FSIO, at 114. As such, since the APA was executed on August 26, 2023 the public hearing requirement in the FSIO and the checklist is inapplicable to this transaction.

VERIFICATION

I, William C. Packer, Vice President, Rates, Regulatory & Regional Controller of Aqua Pennsylvania, Inc., hereby state that the facts set forth in the letters of Counsel of Aqua Pennsylvania, Inc., dated June 13, 2025, addressing information requests of the Bureau of Technical Utility Services in the matter at Docket No. A-2024-3049015, are true and correct to the best of my knowledge, information and belief and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa. C.S. § 4904 (relating to unsworn falsification to authorities).

William C. Packer
Vice President, Rates, Regulatory &
Regional Controller
Aqua Pennsylvania, Inc.

Dated: June 13, 2025

CERTIFICATE OF SERVICE

I, Courtney L. Schultz, hereby certify that a true and correct copy of the foregoing Deficiency Responses in connection with the above-referenced docket, were served on the following individuals on this 13th day of June, 2025, as indicated below.

PA PUC – VIA E-FILE
Matthew L. Homsher, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street
Harrisburg, PA 17105
mahomsher@pa.gov

TUS

Daniel Searfoorce, Manager
dsearfoorc@pa.gov

Sean Donnelly
sdonnelly@pa.gov

Clinton McKinley
cmckinley@pa.gov

Paul Zander
pzander@pa.gov

OSBA

Rebecca Lyttle, Esq.
relyttle@pa.gov

I&E

Carrie Wright, Esq.
Prosecutor
carwright@pa.gov

OCA

Harrison W. Breitman, Esq.
hbreitman@paoca.org

Katherine Kennedy, Esq.
kkennedy@paoca.org

Melanie El Atieh, Esq.
ra-oca@paoca.org

Aqua

Alexander Stahl, Esq.
astahl@aquaamerica.com

Courtney L. Schultz, Esq.
courtney.schultz@saul.com

Kruti B. Patel, Esq.
kruti.patel@saul.com

/s/ Courtney L. Schultz
Courtney L. Schultz, Esq.
Saul Ewing Arnstein & Lehr LLP
1500 Market Street
Centre Square West, 38th Floor
Philadelphia, PA 19102
(215) 972-7717
Courtney.schultz@saul.com
Counsel for Aqua Pennsylvania, Inc.

Information Request No. 1

UVE Invoices

scottmadden
MANAGEMENT CONSULTANTS

INVOICE

ScottMadden, Inc.
2626 Glenwood Ave
Suite 480
Raleigh, NC 27608-1367
Tax ID: 56-1445505

Invoice Number: PS-INV106006
Invoice Date: 8/26/2024

Greenville Municipal Water Authority
44 Clinton Street
Greenville, PA 16125
USA

In Reference To: Professional services provided in July 2024, June 2024 for project 100551-1001
Greenville Municipal Water Valuation Study

	Date	Quantity	Rate	Total Price
Dylan D'Ascendis - Testimony	07/31/24	2.5	475.00	1,187.50
Dylan D'Ascendis - Partner		**2.5**		**1,187.50**
Sara Derstine - Proofread testimony for Aqua PA	07/24/24	1	65.00	65.00
Sara Derstine - Proofread testimony for Aqua PA	07/25/24	1	65.00	65.00
Sara Derstine - Administrative		**2**		**130.00**
Matthew Howard - Testimony	07/22/24	1.5	385.00	577.50
Matthew Howard - Testimony	07/24/24	2	385.00	770.00
Matthew Howard - Testimony	07/25/24	2	385.00	770.00
Matthew Howard - Director		**5.5**		**2,117.50**
Actual Meals	06/19/24	1	29.32	29.32
Airfare	06/19/24	1	216.20	216.20
Car Rental	06/19/24	1	162.06	162.06
Hotel	06/19/24	1	159.10	159.10
Hotel Tax	06/19/24	1	17.51	17.51
Actual Meals	06/20/24	1	21.62	21.62
Fuel	06/20/24	1	34.39	34.39
Matthew Howard - Expenses		**7**		**640.20**
Douglas Ott - Testimony	07/05/24	4	275.00	1,100.00
Douglas Ott - Testimony	07/08/24	3.5	275.00	962.50
Douglas Ott - Testimony	07/09/24	7.5	275.00	2,062.50
Douglas Ott - Assoc		**15**		**4,125.00**
Valuation Study		1	35,000.00	35,000.00
Valuation Study		**1**		**35,000.00**

Total Fees:	**42,560.00**
Support Fee:	**0.00**
Total Expenses:	**640.20**
Tax:	**0.00**
Total USD:	**43,200.20**

By ACH (Preferred) or Bank Wire transfer as follows:

BANK INFORMATION

Wells Fargo Checking
Transit# 121000248
Account Name: ScottMadden, Inc.
Account# 2073089967283

If by Check, Payable To:

ADDRESS

ScottMadden, Inc.
PO Box 935955
Atlanta , GA 31193-5955

GANNETT FLEMING

Check Payment Information:
Gannett Fleming Valuation and Rate Consultants, LLC
PO Box 829160, Philadelphia, PA 19182-9160 **Federal EIN:** 46-4413705
ACH/EFT Payment Information:
Account Name: Gannett Fleming Companies **ABA:** 031312738
Account No.: 5003165655
Send Remit Info: AccountsReceivable@gfnet.com
Send Audit Inquiries: GovtContractAudit@gfnet.com
All Other Inquires Contact the Project Team

Attention: Accounts Payable
Aqua Pennsylvania, Inc.
762 Lancaster Avenue
Bryn Mawr, PA 19010
UNITED STATES

Invoice : 0000035715
Invoice Date : 5/9/2024
Due Date: 6/8/2024
Project : 079769
Project Name : Aqua Pennsylvania-FMV-Greenville Water
Bill Term : 01

For Professional Services Rendered Through 4/26/2024

Contract : GFC750519
Contract Name : Aqua Pennsylvania, Inc.-GFC750519
Contract Date : 4/19/2024

"Vendor No. 4000001913
Company - 5500
Account - 5831000
Internal Order Number (Work Order) - 5500M00169
Aqua Contact - Thomas R. Rafferty - TFRafferty@aquaamerica.com
GF Contact - Cheryl Rutter
Preferred Email Address - crutter@gfnet.com"

	Current Billings
000 - Fair Market Value - Greenville Water Assets	9,260.00
Total :	9,260.00

Current Billings		9,260.00
Amount Due This Bill	**US**	9,260.00

Harold Walker III

000 - Fair Market Value - Greenville Water Assets

Rate Labor

Class	*Hours*	*Rate*	*Amount*
Harold Walker III	30.00	290.000	8,700.00
Support Staff	4.00	140.000	560.00
Total Rate Labor	34.00		***9,260.00***
Total Bill Task : 000 - Fair Market Value - Greenville Water Assets			**9,260.00**

Total Project : 079769 - Aqua Pennsylvania-FMV-Greenville Water **9,260.00**

GANNETT FLEMING

Check Payment Information:
Gannett Fleming Valuation and Rate Consultants, LLC
PO Box 829160, Philadelphia, PA 19182-9160 **Federal EIN:** 46-4413705
ACH/EFT Payment Information:
Account Name: Gannett Fleming Companies **ABA:** 031312738
Account No.: 5003165655
Send Remit Info: AccountsReceivable@gfnet.com
Send Audit Inquiries: GovtContractAudit@gfnet.com
All Other Inquires Contact the Project Team

Attention: Accounts Payable
Aqua Pennsylvania, Inc.
762 Lancaster Avenue
Bryn Mawr, PA 19010
UNITED STATES

Invoice : 0000038384
Invoice Date : 7/11/2024
Due Date: 8/10/2024
Project : 079769
Project Name : Aqua Pennsylvania-FMV-Greenville Water
Bill Term : 01

For Professional Services Rendered For 4/27/2024 Through 6/28/2024

Contract : GFC750519
Contract Name : Aqua Pennsylvania, Inc.-GFC750519
Contract Date : 4/19/2024

Vendor No. 4000001913
Company - 5500
Account - 5381000
Profit Center - P5500000
Internal Order Number (Work Order) - 5500M00169
Aqua Contact - Thomas R. Rafferty - TFRafferty@aquaamerica.com
GF Contact - Cheryl Rutter
Preferred Email Address - crutter@gfnet.com

	Current Billings
000 - Fair Market Value - Greenville Water Assets	5,200.00
Total :	5,200.00

Current Billings		5,200.00
Amount Due This Bill	**US**	5,200.00

Harold Walker III

000 - Fair Market Value - Greenville Water Assets

Rate Labor

Class	*Hours*	*Rate*	*Amount*
Harold Walker III	16.00	290.000	4,640.00
Senior Analyst	1.00	210.000	210.00
Support Staff	2.50	140.000	350.00
Total Rate Labor	19.50		***5,200.00***
Total Bill Task : 000 - Fair Market Value - Greenville Water Assets			**5,200.00**

Total Project : 079769 - Aqua Pennsylvania-FMV-Greenville Water **5,200.00**

GANNETT FLEMING

Check Payment Information:
Gannett Fleming Valuation and Rate Consultants, LLC
PO Box 829160, Philadelphia, PA 19182-9160 **Federal EIN:** 46-4413705
ACH/EFT Payment Information:
Account Name: Gannett Fleming Companies **ABA:** 031312738
Account No.: 5003165655
Send Remit Info: AccountsReceivable@gfnet.com
Send Audit Inquiries: GovtContractAudit@gfnet.com
All Other Inquires Contact the Project Team

Attention: Accounts Payable
Aqua Pennsylvania, Inc.
762 Lancaster Avenue
Bryn Mawr, PA 19010
UNITED STATES

Invoice : 0000039885
Invoice Date : 8/14/2024
Due Date: 9/13/2024
Project : 079769
Project Name : Aqua Pennsylvania-FMV-Greenville Water
Bill Term : 01

For Professional Services Rendered For 6/29/2024 Through 7/26/2024

Contract : GFC750519
Contract Name : Aqua Pennsylvania, Inc.-GFC750519
Contract Date : 4/19/2024

Vendor No. 4000001913
Company - 5500
Account - 5381000
Profit Center - P5500000
Internal Order Number (Work Order) - 5500M00169
Aqua Contact - Thomas R. Rafferty - TFRafferty@aquaamerica.com
GF Contact - Cheryl Rutter
Preferred Email Address - crutter@gfnet.com

	Current Billings
000 - Fair Market Value - Greenville Water Assets	14,140.00
Total :	14,140.00

Current Billings		14,140.00
Amount Due This Bill	**US**	14,140.00

Harold Walker III

Outstanding Receivables

Invoice Number	Date	Amount	Balance Due
0000038384	7/11/2024	5,200.00	5,200.00
			5,200.00

000 - Fair Market Value - Greenville Water Assets

Rate Labor

Class	*Hours*	*Rate*	*Amount*
Harold Walker III	43.00	290.000	12,470.00
Senior Technician	8.00	130.000	1,040.00
Support Staff	4.50	140.000	630.00
Total Rate Labor	55.50		***14,140.00***
Total Bill Task : 000 - Fair Market Value - Greenville Water Assets			**14,140.00**

Total Project : 079769 - Aqua Pennsylvania-FMV-Greenville Water **14,140.00**

GANNETT FLEMING

Check Payment Information:
Gannett Fleming Valuation and Rate Consultants, LLC
PO Box 829160, Philadelphia, PA 19182-9160 **Federal EIN:** 46-4413705
ACH/EFT Payment Information:
Account Name: Gannett Fleming Companies **ABA:** 031312738
Account No.: 5003165655
Send Remit Info: AccountsReceivable@gfnet.com
Send Audit Inquiries: GovtContractAudit@gfnet.com
All Other Inquires Contact the Project Team

Attention: Accounts Payable
Aqua Pennsylvania, Inc.
762 Lancaster Avenue
Bryn Mawr, PA 19010
UNITED STATES

Invoice : 0000041605
Invoice Date : 9/19/2024
Due Date: 10/19/2024
Project : 079769
Project Name : Aqua Pennsylvania-FMV-Greenville Water
Bill Term : 01

For Professional Services Rendered For 7/27/2024 Through 9/13/2024

Contract : GFC750519
Contract Name : Aqua Pennsylvania, Inc.-GFC750519
Contract Date : 4/19/2024

Vendor No. 4000001913
Company - 5500
Account - 5381000
Profit Center - P5500000
Internal Order Number (Work Order) - 5500M00169
Aqua Contact - Thomas R. Rafferty - TFRafferty@aquaamerica.com
GF Contact - Cheryl Rutter
Preferred Email Address - crutter@gfnet.com

	Current Billings
000 - Fair Market Value - Greenville Water Assets	1,230.00
Total :	1,230.00

Current Billings		1,230.00
Amount Due This Bill	**US**	1,230.00

Harold Walker III

000 - Fair Market Value - Greenville Water Assets

Rate Labor

Class	*Hours*	*Rate*	*Amount*
Harold Walker III	4.00	290.000	1,160.00
Support Staff	0.50	140.000	70.00
Total Rate Labor	4.50		***1,230.00***
Total Bill Task : 000 - Fair Market Value - Greenville Water Assets			**1,230.00**

Total Project : 079769 - Aqua Pennsylvania-FMV-Greenville Water **1,230.00**

Information Request No. 3

Updated pro forma tariff supplement (Application Exhibit G)

EXHIBIT G
(Updated)

SUPPLEMENT NO. XX
TARIFF WATER-PA P.U.C. NO. 4

AQUA PENNSYLVANIA, INC.
(hereinafter referred to as the "Company")

RATES, RULES, AND REGULATIONS

GOVERNING THE DISTRIBUTION AND SALE OF

WATER SERVICE

IN PORTIONS OF

ADAMS, BERKS, BRADFORD, BUCKS, CARBON, CHESTER, CLARION, CLEARFIELD, COLUMBIA, CRAWFORD, CUMBERLAND, DELAWARE, FOREST, JUNIATA, LACKAWANNA, LAWRENCE, LEHIGH, LUZERNE, MERCER, MCKEAN, MONROE, MONTGOMERY, NORTHHAMPTON, NORTHUMBERLAND, PIKE, SCHUYLKILL, SUSQUEHANNA, SNYDER, VENANGO, WARREN, WAYNE, AND WYOMING COUNTIES

IN THE COMMONWEALTH OF PENNSYLVANIA

ISSUED: MMMM DD, 202Y
By:
Marc Lucca, President
Aqua Pennsylvania, Inc.
762 Lancaster Avenue
Bryn Mawr, Pennsylvania 19010

EFFECTIVE: MMMM DD, 202Y

NOTICE

THIS TARIFF ESTABLISHES WATER RATES FOR THE CUSTOMERS OF THE BOROUGH OF GREENVILLE TOWNSHIP AND PORTIONS OF THE TOWNSHIPS OF HEMPFIELD, WEST SALEM, AND SUGAR GROVE IN MERCER COUNTY, PENNSYLVANIA.

LIST OF CHANGES MADE BY THIS TARIFF

Changes: This tariff makes changes to reflect the acquisition of the water assets of the Greenville Water Authority, which services the Borough of Greenville and portions of the Townships of Townships of Hempfield, West Salem, and Sugar Grove in Mercer County, Pennsylvania. Closing on the acquisition took place on xx/xx/202x, with the effective date of ownership occurring at 12:01AM on xx/xx/202x. (See pages 12.9 and 12.10)

This tariff is made pursuant to the Commission's Order adopted xx/xx/202x at Docket No. A-2024-3049015, which authorizes the issuance of the Certificate of Public Convenience.

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DESCRIPTION OF TERRITORIES SERVED

RATE ZONE 2 – All territories subject to Rate Zone 2 rates unless otherwise noted

Chalfont Division
The Township of New Britain in Bucks County

Concord Park Division
The Township of Bensalem in Bucks County

Superior Division
The Townships of Washington in Berks County, North Coventry in Chester County, and Douglass, New Hanover, Lower Pottsgrove, Upper Frederick, Upper Pottsgrove, and Worcester in Montgomery County

Treasure Lake Division
The Township of Sandy in Clearfield County

RATE ZONE 3 – All territories subject to Rate Zone 3 rates unless otherwise noted

Oakland Beach Division
The Townships of Sadsbury and Summit in Crawford County

CS Water (Masthope) Division
The Township of Lackawaxen in Pike County

Eagle Rock Division
The Townships of Black Creek and Hazle in Luzerne County, Tobyhanna in Monroe County, and East Union and North Union in Schuylkill County

BUNKER HILL DIVISION
The Township of Clinton in Wyoming County

PHOENIXVILLE DIVISION
A portion of Upper Providence Township in Montgomery County and portions of East Pikeland and Schuylkill Townships in Chester County

GREENVILLE DIVISION
The Borough of Greenville and portions of the Townships of Hempfield, West Salem, and Sugar Grove in Mercer County **(C)**

SCHEDULE OF RATES

The rates under this schedule apply to all customer classes in the territories served subject to the Greenville Division as noted in the Description of Territories Served section under this tariff unless otherwise specifically identified below.

MONTHLY SERVICE CHARGE

Customer Charge ($)	Greenville Division
Fixed (per Unit)	
Meter Size:	
5/8 inch	$ 22.59
3/4 inch	37.64
1 inch	60.23
1-1/2 inch	127.03
2 inch	201.37
3 inch	403.65
4 inch	586.59
6 inch	1,540.48

Customers assigned more than one unit will be billed multiple service fees as determined by the Greenville Water Authority at the time of acquisition. Units to be charged to new customers will be determined by the Company.

MONTHLY CONSUMPTION CHARGE : Rate Per 1,000 Gallons

	Greenville Division	
All Classes		
1,000 Gallons or less	$ 6.710	per 1,000 gallons
2,000 - 5,000 Gallons	$ 9.620	per 1,000 gallons
6,000 - 199,000 Gallons	$ 10.070	per 1,000 gallons
200,000 Gallons or more	$ 7.830	per 1,000 gallons

Consumption will be billed at the volumetric rate based on the customer's total consumption within the bands shown above. Consumption will be truncated and billed based on the last full 1000 gallons used. Any gallons used between increments of 1000 gallons that are not billed on the current bill will be recognized and accounted for in the following billing period.

SCHEDULE OF RATES

The rates under this schedule apply to all customer classes in the territories served subject to the Greenville Division as noted in the Description of Territories Served section under this tariff unless otherwise specifically identified below.

	Greenville Division
MONTHLY PRIVATE FIRE	
Customer Charge ($)	
Meter Size:	
2 inch	$ 11.18
4 inch	47.00
6 inch	61.84
8 inch	106.46
Consumption Charge: Rate per 1,000 gallons	$ 0.00

Multiple Meter Fire Service Customer Charge ($)

Domestic Meter Size:	Fire Meter Size:	
5/8 inch	3/4 inch	$ 22.59

Consumption Charges will be billed at the appropriate metered water rates.

MONTHLY SERVICE CHARGE FOR EACH PRIVATE FIRE HYDRANT	
Private Hydrants	$ 61.84
MONTHLY SERVICE CHARGE FOR EACH PUBLIC FIRE HYDRANT	
Public Fire Hydrant	$ 0.00

Bulk Sales: ($25 minimum is required for all purchases)

Service Fee Per Load	$ 5.00	
Rate per 1,000 gallons		$ 9.940

The DSIC surcharge shall not be applied to bills of water customers in the Greenville Division; this will remain effective until an amended Long-Term Infrastructure Improvement Plan (LTIIP) is filed and approved which includes Greenville. Following the approval of an amended LTIIP, the DSIC surcharge shall be applicable to water customers in the Greenville Division.

Information Request No. 4

GWA Safe Drinking Water Fee Resolution

RESOLUTION NO. 02-25

A RESOLUTION OF THE GREENVILLE WATER AUTHORITY, MERCER COUNTY, PENNSYLVANIA, ELIMINATING THE PA DEP SAFE DRINKING WATER FEE THE DAY BEFORE THE DATE OF THE ASSET OWNERSHIP TRANSFER TO AQUA PENNSYLVANIA.

WHEREAS, the Board of the Greenville Water Authority adopts Resolutions to establish fees for certain services provided by the Authority, including the PA DEP Safe Drinking Water Fee; and

WHEREAS, it is the desire of the Authority to eliminate the PA DEP Safe Drinking Water Fee the day before the closing date and ownership transfer of the Greenville Water Authority to Aqua Pennsylvania, Inc.

RESOLVED AND ENACTED by the Greenville Water Authority this 11th day of June, 2025.

ATTEST: GREENVILLE WATER AUTHORITY

Walter C. Sankey
Secretary

By: Thomas C. Strahler
Chairman

(SEAL)

Information Request No. 6

Updated Application

Updated Engineering Assessment (Application Exhibit D)

Updated UVE Appraisals (Application Exhibits Q and R)

Updated Direct Testimony (GWA Statement No. 3, Aqua Statement Nos. 1, 2, and 6)

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Application of Aqua Pennsylvania, Inc. (hereinafter referred to as "Aqua", "Company" or "Applicant") pursuant to Sections 1102 and 1329 of the Public Utility Code for:	:	**Docket No. A-2024-3049015**
(1) approval of the acquisition by Aqua of the water system assets of the Municipal Authority of the Borough of Greenville ("GWA") situated within the Borough of Greenville, Hempfield Township, Sugar Grove Township, and West Salem Township, Mercer County, Pennsylvania;	:	
(2) approval of the right of Aqua to begin to offer, render, furnish and supply water service to the public in the Borough of Greenville, Hempfield Township, Sugar Grove Township, and West Salem Township, Mercer County, Pennsylvania; and	:	
(3) an order approving the acquisition that includes the ratemaking rate base of the GWA water system assets pursuant to Section 1329(c)(2) of the Public Utility Code.	:	
Request for Approval of Contracts, including Assignments of Contracts, between Aqua and the GWA, Pursuant to Section 507 of the Public Utility Code	:	

APPLICATION

To the Pennsylvania Public Utility Commission ("PUC" or the "Commission"):

1. Applicant respectfully requests that the Commission issue an *Order* and *Certificates of Public Convenience* approving and addressing the items requested in this Application.

2. An **Application Filing Checklist** identifying topics addressed and the section, paragraph, and page number where they can be found is included with this Application.

I. BACKGROUND

3. The name and address of Applicant is:

Aqua Pennsylvania, Inc.
762 W. Lancaster Avenue
Bryn Mawr, PA 19010

4. The name, address, and contact information for Applicant's counsel is:

Courtney L. Schultz, Esq.
Kruti B. Patel, Esq.
Saul Ewing LLP
1500 Market Street
Centre Square West, 38th Floor
Philadelphia, PA 19102
Tel. No. (215) 972-7717
Tel. No. (215) 972-7735
courtney.schultz@saul.com
kruti.patel@saul.com

5. Pursuant to Sections 1102 and 1329 of the Pennsylvania Public Utility Code, 66 Pa.C.S. §§ 1102 and 1329, Applicant hereby requests that the Commission: (1) approve Aqua's acquisition of the water system assets of the GWA; (2) approve the right of Aqua to begin providing water service in the requested territory, as shown in the area outlined in red on the map attached hereto as **Exhibit A** (the "**Requested Territory**");[1] and (3) include, in its Order approving the acquisition, the ratemaking rate base of the Acquired Assets as determined under Section 1329(c)(2) of the Public Utility Code, 66 Pa.C.S. § 1329(c)(2). As discussed in Section XI *infra*, Aqua also requests that the Commission, to the extent necessary, issue certificates for filing, pursuant to Section 507 of the

[1] A CONFIDENTIAL facilities map is included with the Asset Inventory as addressed *infra*.

Public Utility Code, 66 Pa.C.S. § 507, for certain municipal contracts that Aqua has included in the Application.

6. The map of the Requested Territory includes a north arrow depicting map orientation, a graphic scale, the municipal boundaries of the Borough of Greenville ("**Greenville**"), Hempfield Township ("**Hempfield**"), Sugar Grove Township ("**Sugar Grove**"), and West Salem Township ("**West Salem**") and identification and depiction of all private and public roads relative to the Requested Territory. A bearing and angle description of the Requested Territory is included on **Exhibit A**.[2] The Requested Territory is approximately 4.18 square miles (2,675 acres).

7. Aqua and the GWA have reached an agreement regarding the acquisition of the water system assets, as evidenced by the *Asset Purchase Agreement*, dated as of September 26, 2023, and attached hereto as **Exhibit B** (the "**Agreement**").

II. AFFECTED ENTITIES

8. Aqua is a regulated public utility company, duly organized and existing under the laws of the Commonwealth of Pennsylvania. Aqua is engaged in the water service business and furnishes water service to approximately 458,000 customer accounts, as reflected in documents already on file with the Commission. Aqua's existing service territories cover various counties throughout Pennsylvania with water operations in Mercer County, including Aqua's Western Division office in Sharon, Mercer County, Pennsylvania.

9. The GWA is a duly organized and validly existing municipal authority organized and existing under the Municipal Authorities Act of 1945. The GWA owns the water distribution and treatment system which provides drinking water service to approximately 2,731 customers in Greenville, Hempfield, Sugar Grove, and West Salem.

[2] The Requested Territory map is being filed in PUBLIC and CONFIDENTIAL formats.

10. Applicant incorporates into this Application other information on file with the Commission that establishes the fact that Aqua is qualified to provide adequate public water service. Aqua will supplement this Application with all additional information the Commission may require. Balance Sheet and Income Statement reports from Aqua's financial system for calendar year 2024 are attached hereto as **Exhibit C**.

III. PLANT-IN-SERVICE

11. Aqua will acquire the GWA water distribution and treatment system assets as defined in the Agreement (the "**Acquired Assets**"). The Acquired Assets are located in Greenville, Hempfield, Sugar Grove, and West Salem.

12. An Engineer's Assessment of the Acquired Assets, prepared by Entech Engineering, Inc. ("**Asset Inventory**"), is attached hereto as **Exhibit D**. The facilities maps included with the Asset Inventory, as Exhibits 1 and 3 thereto, are considered CONFIDENTIAL.

13. The Asset Inventory explains that the GWA distribution and treatment system has: (i) one water treatment plant ("**WTP**"); (ii) approximately 48 miles of distribution mains, in sizes ranging from 3/4 inches to 16 inches in diameter; (iii) one booster pump station; and (iv) five storage tanks.

14. A list of non-depreciable property is presented in Attachment 1 of the Asset Inventory. The GWA System has five parcels that have been classified as property held for future use included in the Asset Inventory.

15. All component facilities are installed. The approximate time of installation of component facilities is addressed in Attachment 1 of the Asset Inventory and in Mr. Steffy's Direct Testimony (Application **Exhibit Y**, Aqua Statement No. 3).

16. The GWA owns the WTP located in Greenville, which treats water for customers of the System. Pursuant to Pennsylvania Department of Environmental Protection ("**DEP**") Water

Allocation Permit issued on February 16, 1989, attached hereto as **Exhibit E**, GWA is authorized to withdraw up to 1.65 gallons per day ("**gpd**") from the Shenango River. The WTP produced on average approximately 765,000 gpd in 2024 and is at an elevation ("**EL**") between EL 937 and 946.

17. For customers of the GWA, wastewater service is provided by Aqua Pennsylvania Wastewater, Inc. ("**APW**")[3] in Greenville and parts of Hempfield and West Salem. Wastewater service is also provided by Hempfield Township Municipal Authority ("**HTMA**") in Hempfield and by West Salem Township Municipal Sewage Authority ("**WSTMSA**") in West Salem. In addition, private septic systems serve parts of Hempfield, West Salem, and Sugar Grove.

18. Elevation of the GWA collection system and the service area varies:

EL 957 to EL 1,220 along the western boundary.

EL 933 to EL 1,190 along the southern boundary.

EL 946 to EL 1,190 along the northern boundary.

EL 1,037 to EL 1,268 along the eastern boundary.

19. The original cost, by year and major plant category, of the GWA's used and useful plant in service is $27,382,498 with a related calculated depreciation reserve of $7,013,534.

20. Tentative journal entries to record the transaction are presented in Section IV.

IV. ASSET PURCHASE AGREEMENT

21. The Agreement is dated September 26, 2023. The purchase price is Eighteen Million Dollars ($18,000,000).

[3] APW acquired the wastewater system assets of the Greenville Sanitary Authority ("GSA") pursuant to Commission approval. *See Application of APW, pursuant to 66 Pa. C.S.A. §§ 1102, 1329, and 507 for Approval of the Acquisition by APW of the GSA*, Docket No. A-2023-3041695, Opinion and Order dated December 20, 2024.

22. The purchase price is based on arm's length negotiations. Aqua and the GWA are not affiliated with each other.

23. Aqua will use short-term debt initially for the purchase of the Acquired Assets, with the expectation that the short-term debt will be converted to long-term debt and equity capital at a later date.

24. The water system assets to be transferred are the "Acquired Assets" and have the meaning specified in Section 2.01 of the Agreement. The Acquired Assets include the assets, properties and rights of the GWA used in the system and all water treatment, transportation, and distribution facilities, and all pipes, services, valves, hydrants, pumping stations, reservoirs, dams, storage tanks, improvements, fixtures, manholes, and pipelines and any billing and collections related assets necessary to run the system.

25. Acquired Assets also include the three contracts identified on Schedule 4.15 of the Agreement to which the GWA is a party (the "**Assigned Contracts**"). The Assigned Contracts will either be assigned at closing or Aqua will enter into new railroad crossing agreements with the railroad companies. The current contracts are attached hereto as **Exhibit F1**, **Exhibit F2**, and **Exhibit F3**, respectively:

F1: Agreement between Bessemer & Lake Erie Railroad Company and the Municipal Authority of the Borough of Greenville, dated June 4, 1952

F2: Easement Agreement between Bessemer & Lake Erie Railroad Company and the Municipal Authority of the Borough of Greenville, dated October 15, 1985

F3: Erie Railroad Company and the Municipal Authority of the Borough of Greenville, dated 1944

26. The Acquired Assets also include all Authorizations and Permits of, or held by, the GWA (to the extent transferrable to Aqua under applicable law), including all Authorizations and

Permits, which are environmental permits, other operating permits, and those items listed or described on Schedule 4.14 of the Agreement.

27. "Excluded Assets," which are those assets not being transferred to Aqua, has the meaning specified in Section 2.02 of the Agreement, and the assets, properties, and rights set forth in Schedule 2.02(g) of the Agreement.

28. "Assumed Liabilities" has the meaning specified in Section 2.04(a) of the Agreement and includes all liabilities and obligations arising out of or relating to Aqua's ownership or operation of the water system and the Acquired Assets on or after Closing.

29. The tentative journal entries to record the transfer in Aqua's accounts are:

	Debit	Credit
Utility Plant Purchased	$18,000,000	
Cash/Short Term Debt		$18,000,000

V. CUSTOMERS

30. The GWA provides water service to approximately 2,731 customers, which are comprised of 2,401 residential, 251 commercial, 3 industrial, 21 public, and 55 private fire customers within the Requested Territory. The GWA also occasionally provides bulk water truck filing at the WTP under separate individual one-off agreements that are valid only for the single use.

31. Water gallons billed for customers within the GWA's service area was approximately 145,085,000 gallons for 2024. A breakdown of gallons billed by customer class is presented in Mr. Steffy's testimony.

32. There are 212 hydrants in the GWA system: 183 public hydrants and 29 private hydrants.

33. The GWA projects growth of 5 customers over the next five years within the GWA service territory.

34. All customers in the Requested Territory are metered.

VI. RATES

35. After Closing, Aqua will implement the GWA's water rates in effect at Closing, as reflected on Schedule 7.04(a) of the Agreement. The GWA presently bills on a monthly basis to its customers. Aqua will continue to bill the GWA customers on a monthly basis. A schedule of rates tariff page implementing monthly rates for the GWA customers post-Closing is attached hereto as **Exhibit G**.

36. The GWA bills its customers a monthly service fee and a consumption charge per 1,000 gallons based on water usage, as shown below:

Meter Size	2025 Service Fee per unit	DEP Safe Drinking Water Fee
5/8"	$22.59	$0.30
5/8" X 3/4"	$22.59	$0.30
3/4"	$37.64	$0.30
1"	$60.23	$0.30
1 1/2"	$127.03	$0.30
2"	$201.37	$0.30
3"	$403.65	$0.30
4"	$586.59	$0.30
6"	$1,540.48	$0.30
Customers assigned more than one unit will be billed multiple service fees as designated by the Authority.		

Monthly Consumption Charges Block Rate, Per Thousand	
Volume Consumed	Cost per 1000 gallons
1,000 gallons or less	$6.71
2,000 – 5,000 gallons	$9.62
6,000 – 199,000 gallons	$10.07
200,000 gallons or more	$7.83
Consumption will be billed at the volumetric rate based on the customer's total consumption within the bands shown above. Consumption will be truncated and billed based on the last full 1,000 gallons used. Any gallons between increments of 1,000 gallons that are not billed on the current bill will be recognized and accounted for in the following billing period.	

Private Fire Protection	
Private Hydrant	$61.84
Sprinklers – 2" line	$11.18
Sprinklers – 4" line	$47.00
Sprinklers – 6" line	$61.84
Sprinklers – 8" line	$106.46

GWA also has a bulk filling rate of $9.94 per 1,000 gallons, with a $25 minimum and a $5 service fee per load. A copy of the GWA's currently effective Rate Ordinance is attached hereto as **Exhibit H**. Aqua will not be implementing the DEP Safe Drinking Water Fee.

37. Upon Commission approval of this Application and completion of the proposed transaction, Aqua will begin to provide water service in its name to the customers in the Requested Territory. It will implement its *Rules and Regulations* to govern the provision of water service in the Requested Territory, as those *Rules and Regulations* are in effect from time to time for Aqua.

38. Copies of the notices that will be sent to customers of Aqua and to customers of the GWA describing the filing and the anticipated effect on rates are attached hereto as **Exhibit I1** and **Exhibit I2**.

VII. COST OF SERVICE

39. Copies of GWA's Annual Financial Report for 2022 and 2023 are attached hereto as **Exhibit J1** and **Exhibit J2**, respectively. For the year ended December 31, 2023, the GWA had approximately $6,713,192 of long-term debt, and the details of its long-term debt obligations are described in Note D in **Exhibit J2**.

40. Copies of the GWA's Adopted Annual Budgets for 2024 and 2025 are attached hereto as **Exhibit J3** and **Exhibit J4**, respectively.

41. A copy of the GWA's most recent annual report filed with the Department of Community and Economic Development is attached hereto as **Exhibit K**.

42. Aqua projects annual revenue of $2,177,623 from the GWA customers based on the GWA's current rate schedule, calculated as follows:

Address Type	*Service*	*Billed Dollars*	*Monthly Meter Size Charge ^*	*Avg. Rate per Kgal**	*Customers*	*Total Usage*
Residential	Water	$1,516,269	$23.02	$9.72	2,400	87,793,000
Domestic/Residential Total		**$1,516,269**			**2,400**	**87,793,000**
Commercial	Water	$470,168	$42.71	$9.34	247	36,796,000
Commercial Total		**$470,168**			**247**	**36,796,000**
Industrial	Water	$84,725	$397.20	$8.00	3	8,805,000
Industrial Total		**$84,725**			**3**	**8,805,000**
Public	Water	$51,513	$89.29	$10.11	17	3,293,300
Public Total		**$51,513**			**17**	**3,293,300**
Private Fire	Water	$54,948	N/A	N/A	55	
Bulk Total		**$54,948**			**55**	**0**
Other/Inactive	Water	$0	N/A	N/A	9	8,398,000
Bulk Total		**$0**			**9**	**8,398,000**
Total Service Revenue		**$2,177,623**			**2,731**	**145,085,300**

** Estimated Average Consumption Rate based upon billed gallons in 2024*
^ Weighted Average Rate by Class & Meter Size

43. Aqua estimates annual operating and maintenance expenses of $1,405,465 based on GWA's operating expenses presented in the 2023 financial statements, as adjusted by Aqua.

VII. PROOF OF COMPLIANCE

44. Aqua will operate and manage the GWA water system as a standalone distribution system, but within Aqua's footprint, from its Western Division Office in Sharon, Pennsylvania with operations and management support from Aqua PA's Southeastern Division Office in Bryn Mawr, Pennsylvania. The system is approximately 14 miles from Aqua's Western Division Office. Jessica Micco will be the assigned Certified Water Operator for the System. Ms. Micco's currently effective Water Operator's License is attached hereto as **Exhibit L**.

45. The Public Water Supply ("**PWS**") Permits for the WTP and system are attached as **Exhibit M**. The National Pollution Discharge Elimination System ("**NPDES**") Permit for the WTP is attached hereto as **Exhibit N**, along with the GWA's NPDES permit renewal application. The Water Allocation Permit for the GWA system, as stated above is included in Exhibit E. Copies of Consumer Confidence Reports for 2019-2023, are attached hereto as **Exhibit N2**.

46. A list of violations ("**NOVs**") issued to the GWA are attached hereto as **Exhibit O**. Compliance was achieved by the GWA for each of these events. **Exhibit P is held for future use**.

47. Aqua is a Class A utility. It is in good standing with DEP and in general compliance with the DEP requirements with regard to the provision of water service.

48. The web address for the Greenville and Hempfield Joint Comprehensive Plan is: https://greenvilleborough.com/joint-comprehensive-plan. The web address for the Mercer County Comprehensive Plan is: https://www.mcrpc.com/mercer-countys-comprehensive-plan/. Aqua is not requesting to extend the GWA's service territory beyond the existing plant footprint. West Salem does not have a comprehensive plan, and despite best efforts, Applicant was not able to obtain information from Sugar Grove as to whether it has a comprehensive plan or not.

49. Aqua has an existing operational presence and water professionals in close proximity to the Requested Territory. Aqua provides water service in Mercer County with Aqua's

Western Division office only 10 miles away from the Requested Territory. The acquisition will easily fold into Aqua's existing water operations. A listing of Aqua's nearby territories and facilities are as follows:

Aqua Facilities	Location	Distance from the System
Shenango Water System	Sharon, PA	10 miles
Lake Latonka (Water) System	Mercer, PA	12 miles
Western Division Office	Sharon, PA	14 miles

50. Aqua is not anticipating any physical, operational, or managerial changes at Aqua's Southeastern Office as a result of the acquisition. Aqua also does not anticipate any physical, operation, or managerial changes at its Western Division Office. Aqua will be offering employment to 11 operational staff from GWA to address the day-to-day operations of the GWA system.

51. Planned capital improvements are addressed in Mr. Steffy's Direct Testimony (Application **Exhibit AA**, Aqua Statement No. 3).

VIII. AFFECTED PERSONS

52. No corporation or entity, except the GWA, is now furnishing or has corporate or franchise rights to furnish water service in the Requested Territory. No competitive condition will be created by approval of this Application. Water and wastewater service providers abutting or within one mile of the Requested Territory are as follows:

i. Within neighboring Hempfield, water service is provided by GWA, and private wells. Wastewater service is provided by HTMA, APW, and private septic systems.

ii. Within neighboring West Salem, water service is provided by GWA, and private wells. Wastewater service is provided by WSTMSA, APW, and private septic systems.

iii. Within neighboring Sugar Grove, water service is provided by private wells. Wastewater service is provided by private septic systems.

IX. REASONS SUPPORTING THIS APPLICATION

53. Approval of this Application is necessary or proper for the service, accommodation, convenience or safety of the public. As summarized below and discussed further in the testimonies of Mr. Packer, Mr. Martin, Mr. Steffy, Mr. Nair, and Ms. Black which, as identified in Section X below, are attached hereto as **Exhibit Y**, **Exhibit Z**, **Exhibit AA**, **Exhibit BB**, and **Exhibit CC**:

a. Aqua has the technical, regulatory, financial and legal fitness to operate the Acquired Assets of the GWA, and to maintain the operations and make improvements to meet continuing and future customer needs.[4] The proposed transaction will not have an adverse effect on the service provided to existing customers of Aqua;

b. The GWA has agreed to sell its assets. The public interest and need will be served by allowing Aqua, in lieu of the GWA, to provide water service in the Requested Territory and to address the issues of regulatory requirements and capital expenditures. The GWA system will benefit from the support of water professionals throughout Aqua's organization;

c. The acquisition is consistent with the Commission's long-standing policy supporting the consolidation/regionalization of water/wastewater systems. Through consolidation/regionalization, the utility industry has a better chance to realize the benefits of better management practices, economies of scale, and the resulting greater environmental/economic benefits. The Commission has previously stated that "acquisitions of smaller systems by larger more viable systems will likely improve the overall long-term viability of the water and

[4] As a certificated provider of utility service, Aqua's fitness is presumed. *See Re Pennsylvania-American Water Company,* 85 PA PUC 548 (1995).

wastewater industry."[5] The benefits of consolidation/regionalization, ultimately, inure to customers both existing and acquired;

d. Aqua provides utility service to approximately 458,000 water customers and has years of experience operating water treatment and collection systems in a safe, reliable and efficient manner. Aqua has the managerial, technical, and financial resources to improve the operations of the GWA;

e. In *McCloskey v. Pa. P.U.C.*, 195 A.3d 1055 (Pa. Cmwlth. 2018), *petition for allowance of appeal denied* No. 703 MAL 2018 (April 23, 2019), the Commonwealth Court held that Commission findings: (i) that Aqua, as the owner of numerous water and wastewater systems has sufficient operational expertise and ability to raise capital to support system operations; and (ii) that the Commission has a policy of consolidation/regionalization of wastewater system assets that allows for increased maintenance, upgrade and expansion of public sewer and water facilities, are substantial evidence, consistent with *Popowsky v. Pa. P.U.C.*, 937 A.2d 1040 (Pa. 2007), to support a conclusion that there is a public benefit to a transaction such as the one that is the subject of this proceeding;

f. The acquisition of the GWA system will increase Aqua's customer base by approximately 0.6%. With a larger customer base, future infrastructure investments, Statewide, will be shared at a lower incremental cost per customer for all Aqua customers; and

g. The acquisition will not have any immediate impact on the rates of either existing customers of Aqua or the GWA. As discussed in the testimony of Mr. Packer and

[5] Pennsylvania Public Utility Commission, Final Policy Statement on Acquisitions of Water and Wastewater Systems, Docket No. M-00051926, Final Order at 18 (Aug. 17, 2006).

presented in the Notice to customers, the increase in rate base may ultimately require an increase in revenue. The hypothetical impact on rates is outweighed by the recognized benefits of Aqua's ownership including its expertise and ability to raise capital; the furtherance of consolidation/regionalization of water services; and the spreading of costs over a larger customer base. Perhaps more significantly, the acquisition furthers the objective of the General Assembly with the enactment of Section 1329. While *McCloskey* concludes that rate impact should be addressed, it recognizes that it is not dispositive in the Commission's determination of substantial affirmative benefits.

X. ADDITIONAL INFORMATION REQUIRED BY SECTION 1329 OF THE CODE AND THE COMMISSION'S 1329 CHECKLIST

54. Aqua and the GWA have agreed to use the process presented in Section 1329 of the Code, 66 Pa. C.S. § 1329, to determine the fair market value of the Acquired Assets and the ratemaking rate base.

55. As required by Section 1329(d)(1)(i), copies of the Fair Market Value Appraisal Reports of the Utility Valuation Experts ("**UVE**") Gannett Fleming Valuation and Rate Consultants, LLC ("**Gannett**") and ScottMadden, Inc. ("**ScottMadden**") are attached hereto as **Exhibit Q** and **Exhibit R**, respectively. Confidential and Proprietary Work Paper Files, in Excel Format, of Gannett and ScottMadden are provided with the Application. Aqua's verified statement that it selected Gannett as its UVE is attached hereto as **Exhibit S1**. The GWA's verified statement that it selected ScottMadden as its UVE is attached hereto as **Exhibit S2**.

56. Applicant states that the purchase price of the Acquired Assets of the selling utility as agreed to by Aqua and the GWA is $18,000,000.

57. The ratemaking rate base determined pursuant to Section 1329(c)(2) of the Public Utility Code is $18,000,000, being the lesser of the purchase price of $18,000,000 negotiated by Aqua and the GWA and the average of the fair market value appraisals which is $27,016,292 – determined by $33,497,679 presented in the appraisal of Gannett and $20,534,906 presented in the appraisal of ScottMadden.

58. The Company is not requesting a deviation from the default weightings established in the Commission's July 2, 2024 Final Supplemental Implementation Order ("**2024 FISO**").

59. Aqua will incur transaction and closing costs of approximately $359,019, which it will include in its rate base.

60. A schedule of rates tariff page implementing rates equal to the rates of the GWA at the time of closing is attached hereto as **Exhibit G**, as previously stated.

61. Applicant verifies that Gannett was selected by Aqua, the acquiring public utility, and that ScottMadden was selected by the GWA, the selling municipal authority.

62. The UVEs were paid $73,030 for the completed Fair Market Value Appraisal Reports. Documentation of the fees paid to Gannett and ScottMadden, including the valuation service agreements and all associated invoices, are attached hereto as **Exhibit T1** and **Exhibit T2**, respectively. Fees paid to the UVEs did not exceed 5% of the fair market value of the selling utility.

63. Statements of Gannett and of ScottMadden verifying that they have no affiliation with Aqua or the GWA as specified in Section 1329; that their Appraisals determined fair market value in compliance with the most recent edition of the Uniform Standards of Professional Appraisal Practice as of the date of their report, employing the cost, market and income

approaches; and that they applied applicable jurisdictional exceptions to their submitted Appraisal are attached hereto as **Exhibit U1** and **Exhibit U2**, respectively.

64. GWA Statement No. 1, the Direct Testimony of Thomas Strahler, GWA Chairman, in support of the Application is attached hereto as **Exhibit V**.

65. GWA Statement No. 2, the Direct Testimony of Jasson Urey, Greenville Manager, in support of the Application is attached here to as **Exhibit W**.

66. GWA Statement No. 3, the Direct Testimony of Dylan W. D'Ascendis, in support of the ScottMadden Appraisal, is attached hereto as **Exhibit X**.

67. Aqua Statement No. 1, the Direct Testimony of William C. Packer, in support of this Application, is attached hereto as **Exhibit Y**.[6]

68. Aqua Statement No. 2, the Direct Testimony of Zach Martin, in support of this Application, is attached hereto as **HIGHLY CONFIDENTIAL Exhibit Z**.

69. Aqua Statement No. 3, the Direct Testimony of Scott Steffy, in support of this Application, is attached hereto as **Exhibit AA**.

70. Aqua Statement No. 4, the Direct Testimony of Sumit Nair, in support of this Application, is attached hereto as **HIGHLY CONFIDENTIAL Exhibit BB**.

71. Aqua Statement No. 5, the Direct Testimony of Rita Black, in support of this Application, is attached hereto as **Exhibit CC**.

72. Aqua Statement No. 6, the Direct Testimony of Harold Walker, III, in support of the Gannett Appraisal, is attached hereto as **Exhibit DD**.

73. Answers to the Section 1329 Application Standard Data Requests are attached hereto as **Exhibit EE.**

[6] Electronic workpapers of Appendix A to Aqua Statement No. 1 are being submitted to the Commission under CONFIDENTIAL cover.

74. The Verification of William C. Packer stating that the Company did not provide GWA with estimated rates and supporting documentation prior to execution of the Agreement as described in the Commission's 2024 FSIO, because the Agreement was executed prior to the Commission issuing its 2024 FSIO, is attached hereto as **Exhibit FF.**

75. The Verification of Thomas Strahler stating that (1) the GWA is aware of the potential rate impacts the transaction may have on the GWA customers, including overall dollar and percentage rate impacts implicated from stand-alone rates that recover Aqua's estimated annual gross revenue requirement for the acquired system from the GWA customers and (2) that the GWA understands that the Commission may shift rate allocations in a manner that is different from the any commitments made in the underlying Application, is attached hereto as **Exhibit GG**.

76. The Verification of William C. Packer stating that the Company understands that the Commission may shift rate allocations in a manner that is different from the any commitments made in the underlying Application, is attached hereto as **Exhibit HH**

77. The Verification of Thomas Strahler stating that (i) the Agreement was executed prior to the Commission issuing its 2024 FSIO, but that two public meetings were held, one on January 31, 2023, where the Company presented to GWA regarding the Proposed Transaction, and one on April 12, 2023, where the GWA Board voted to pursue the sale; and (ii) the Agreement was discussed at two public meetings, one on August 9, 2023 and one on September 13, 2023, is attached hereto as **Exhibit II.**

XI. SECTION 507 APPROVAL OF ASSIGNMENT OF CONTRACTS

78. Section 507 of the Code, 66 Pa.C.S. § 507, provides that, except for contracts between a public utility and a municipal corporation to furnish service at tariff rates, no contract or agreement between a public utility and a municipal corporation shall be valid unless filed with the Commission at least 30 days prior to its effective date.

79. Aqua requests that the Commission, to the extent necessary, issue certificates for filing, pursuant to Section 507, for the following contracts, which will be assigned or new agreements entered into by Aqua at with the railroad companies.

i. F1: Agreement between Bessemer & Lake Erie Railroad Company and the Municipal Authority of the Borough of Greenville, dated June 4, 1952

ii. F2: Easement Agreement between Bessemer & Lake Erie Railroad Company and the Municipal Authority of the Borough of Greenville, dated October 15, 1985

iii. F3: Erie Railroad Company and the Municipal Authority of the Borough of Greenville, dated 1944

XII. OTHER APPROVALS, CERTIFICATES, REGISTRATIONS AND RELIEF, IF ANY

80. Aqua asks that the Commission issue such other approvals, certificates, registrations and relief, if any, that may be required with respect to Aqua's acquisition of the Acquired Assets.

XIII. CONCLUSION

WHEREFORE, Aqua requests that the Commission approve this Application, filed pursuant to Sections 1102, 1329, and 507 of the Public Utility Code, and:

a. Issue *Certificates of Public Convenience* under §1102 of the Code:

(1) Authorizing Aqua to acquire, by purchase, the water system assets of the GWA; and

(2) Authorizing Aqua to begin to offer, render, furnish and supply water service to the public in the Requested Territory covered by this Application.

b. Authorize Aqua to file tariff revisions, effective upon one day's notice, to:

(1) Include within its territory all the Requested Territory covered by this Application;

(2) Adopt and apply the GWA's rates as set forth in this Application as Aqua's Base Rates within the Requested Territory; and

(3) Apply Aqua's *Rules and Regulations* within the Requested Territory.

c. Enter an *Order* approving this Application and Aqua's acquisition of the Acquired Assets and, as part of that *Order* include the ratemaking rate base of the GWA as $18,000,000 pursuant to Section 1329(c)(2) of the Code;

d. Approve the Agreement between Aqua and the GWA and the Assigned Contracts pursuant to Section 507 of the Public Utility Code; and

e. Issue such other approvals, certificates, registrations and relief, if any, under the Code that may be required with respect to Aqua's acquisition of the Acquired Assets.

Respectfully submitted,

AQUA PENNSYLVANIA, INC.

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Counsel for Aqua Pennsylvania, Inc.

Date: June 13, 2025

VERIFICATION

I, William C. Packer, Vice President, Rates, Regulatory and Regional Controller of Aqua Pennsylvania, Inc., hereby state that the facts set forth in the foregoing Application of Aqua Pennsylvania, Inc., pursuant to Sections 1102, 1329, and 507 of the Public Utility Code, for approvals and an order relating to the acquisition of the water system assets of the Municipal Authority of the Borough of Greenville are true and correct to the best of my knowledge, information and belief and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa. C.S. § 4904 (relating to unsworn falsification to authorities).



William C. Packer
Vice President, Rates, Regulatory
and Regional Controller
Aqua Pennsylvania, Inc.

Dated: June 12, 2025

EXHIBIT D
(Updated)

THE MUNICIPAL AUTHORITY OF THE BOROUGH OF GREENVILLE

GREENVILLE BOROUGH, PENNSYLVANIA

ENGINEERING ASSESSMENT



Prepared by: Eric Moore, PE, Macy E. Divens, PE, and Alyssa Kenthack

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Project No.: 5511.112

Report Dated: May 28, 2025

5/28/2025

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
ERIC JULIAN MOORE
ENGINEER
056852-E

The Municipal Authority of the Borough of Greenville

Engineering Assessment

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1.0 Introduction

The Municipal Authority of the Borough of Greenville (Authority) owns, operates, and maintains the water system treatment plant, distribution piping, booster pump station, and storage tanks in Greenville Borough, part of Hempfield Township, part of West Salem Township, and part of Sugar Grove Township in Mercer County, Pennsylvania.

Act 12 of 2016 amended Title 66 of the Pennsylvania Consolidated Statutes added §1329 for valuation of acquired water and wastewater systems. Section 1329(a)(4) of the Act requires, "The acquiring public utility or entity and selling utility shall engage the services of the same licensed engineer to conduct an assessment of the tangible assets of the selling utility." Accordingly, this Engineering Assessment was prepared by Entech Engineering, Inc. (Entech) for the purchase of the Authority system by Aqua Pennsylvania, Inc. (Aqua). This Engineering Assessment will be utilized by the Utility Valuation Experts (UVEs) retained by the Authority and Aqua to perform the system valuation required for the sale of the system.

Entech has been the Authority's retained engineer. Entech has knowledge of the system and the improvements completed by the system throughout the working relationship.

2.0 Methodology

This Engineering Assessment was developed to assess the tangible assets of the Authority. Sources of information included historical engineering records, system maps, drawings, Geographic Information System (GIS) data, input from the Authority, contract documents, annual reports, system walkthroughs, and other sources. The information from these sources was used to develop an inventory of the existing drinking water system assets and property for future use. An estimate of years of construction or acquisition and original construction costs have also been included. A complete list of assets and original construction costs, based on the information available for the system, is contained in Attachment 1. It includes property owned by the Authority, easements, a filter plant, a booster station, storage tanks, vehicles, and noted equipment. Five properties will be held for future use after the sale. These properties have been identified in Attachment 1. Distribution system information has been inventoried from the GIS data current at the time this report was prepared. Any replacements or additions to the distribution system occurring subsequent to April 2024 are not included in the data set employed in this report. Upgrades to the treatment plant have been accounted for in one of two ways. If the upgrade constitutes a replacement of an old piece of equipment, the cost of the upgrade has been deducted from the original cost of the plant. If the upgrade constitutes an addition or expansion beyond the original plant layout, the cost of the upgrade has not been deducted from the original cost of the plant.

The previously mentioned documents and sources were used to obtain the original cost of the assets in the system, if available. For the assets for which the original costs were unavailable, present-day costs were developed, and the costs were indexed back to original costs using historical construction cost indices published by the Engineering News-Record (ENR), included in Attachment 1.

3.0 System Description

The Authority drinking water system includes a filter water treatment plant, one booster station, five storage tanks or facilities, distribution mains, valves, hydrants, service lines, vehicles, and noted equipment. These items and their costs are described in the sections below. Detailed asset descriptions are included in Attachment 1. Systems maps begin with Exhibit 1 and end with Exhibit 3.

3.1 Property & Easements

The Authority owns the land on which the treatment plant, storage tanks, and the municipal office building are built. Easements for water line rights of way are listed in Attachment 1. The cost of each easement was assumed at $1.00 based on information available at the time of this report.

Local developers have placed bids on the Hadley Road Pump Station property. The sale will be completed after the decommissioning of the pump station but before the system's purchase. The sale of the property has yet to be finalized at the time of this report.

3.2 Water Treatment Plant

The Authority Water Treatment Plant (WTP) was initially built in the 1990s. The WTP's intake draws from the Shenango River with a permitted capacity of 2.016 MGD. The pumping capacity of the raw and finished water is 1,400 gallons per minute (GPM). Various chemicals are used on-site for pre-treatment, iron and manganese suspension, and disinfection.

In 1995, an upgrade was made to the WTP to treat backwash water from the clarifiers and filters. Treated water from the system is reintroduced to the Shenango River. Sludge cake from the belt filter press is hauled away for land application.

The plant was originally designed to operate as a Super Pulsator Plant, but it does not operate as designed. Early in the plant's operation, there were difficulties establishing and maintaining the sludge blanket necessary for the Super Pulsator to function properly. The plant instead operates as an up-flow clarifier system. The plant has met the necessary treatment requirements by operating in this way. It is also worth noting that as a result of the flow arrangement in the plant, the Combined Filter Effluent samples are taken as an average. The most recent Filter Plant Performance Evaluation (FPPE) suggests that, when possible, alterations be made to the system to gather a true Combined Filter Effluent sample.

3.3 Booster Stations

The Authority is constructing a new booster station with two pumps with a capacity of 500 GPM and 140 feet of total dynamic head (TDH). After installing the new station, the existing booster station will be taken offline and decommissioned. The booster station relocation project has been captured in the Booster Station portion of the specific accounts. The new pump station will be delivered in February 2024, with an anticipated start-up date in late spring or early summer 2024.

3.4 Distribution System

The system consists of pipes ranging in installation dates from the late 1880s to the new mains replaced in the 2022 project. The average percentage of non-revenue water over the past eight years is 26.4%. The system contains a variety of materials of pipe including C900 PVC, C909 PVC, ductile iron pipe, and cast-iron pipe mains. Service line materials include plastic, galvanized steel, lead, copper, and others. The system has 212 fire hydrants; 183 are public hydrants, and 29 are private.

3.5 Meters

There are 2,689 meters active in the system. The majority of the meters are Sensus model SR II, in sizes 5/8", 3/4", and 5/8"X3/4", with 2,597 of the meters in those three size categories. The rest of the meters are Sensus Omni meters from 1" to 4".

3.6 Storage Tanks

There are five storage tanks associated with the Authority. Three are on one parcel on the west side of town, and two tanks are on the east.

3.7 Vehicles

The vehicles that The Authority owns have been valued using Kelly Blue Book prices, which utilized the VIN associated with the vehicle to give a current estimate. The dump truck values were found on Bumper.com, using the vehicle's VIN to search for the original MSRP. In the case of the 2018 truck, the original sale price was used.

4.0 Condition of System

This section summarizes the overall structural condition of the various components of the Authority's water system based on information provided by the Authority and other sources. The descriptive terms used are general in nature, good being average, fair being below average, etc. for the age of the system. These assessments below do not take into account any operational aspects of the treatment plant or other components.

4.1 Water Treatment Plant

The Water Treatment Plant is in overall fair condition. A breakdown of the assessment can be found in Attachment A. Entech conducted a plant walkthrough accompanied by a representative from the Authority to visually inspect the condition of the WTP and its component parts. The plant is clean, well-maintained, and in overall fair condition. The structural components of the plant appear to be in good condition. The equipment in the plant has been well-maintained. However, many pieces of equipment are beyond their typical lifespans and are therefore considered to be in fair condition. The main treatment systems are in fair condition, but some ancillary components show wear. The electrical system operates as expected but is beyond its typical lifespan. The HVAC system is exhibiting signs of aging and is in fair condition. The chemical dosing systems are less than three years old and well-maintained. The Polyaluminum Chloride (PAC) Tank was replaced in 2022 and is in excellent condition. The SCADA system is relatively new; computers will be replaced in 2025. Cameras are located around the property for security and monitoring purposes.

One noteworthy observation at the plant is the condition of the filter media. Although the filter media was replaced in 2022, fouling has occurred as a build-up of calcium deposits. The underdrain could not be observed during this walkthrough and is therefore considered to be in fair condition. Filter valves, piping, and compliance monitoring equipment for the plant are housed in a confined space and are therefore assumed to be in fair condition. Components not explicitly identified in this report were not observed at the time of the walkthrough but have been in place since the plant opened and are, therefore, considered to be in fair condition. It is also worth noting that the plant was designed and originally constructed to operate without backwash pumps. The pressure for the backwash is dependent on the head pressure available from the clearwell. Filter Plant Performance Evaluations recommend the addition of backwash pumps or a water tower to provide reliable pressure for backwashing filters.

A portion of the ground North of the plant just outside the clearwell is occasionally saturated. It is unclear at this time where the water comes from. Operators have not seen any signs of water loss from the plant during periods of time when the ground is saturated.

4.2 Distribution System

The distribution system is in good condition, with 84% of mains being in good or excellent condition, however some pipe from the original system remains in the distribution network. Two key factors were taken into consideration for this assessment: the presumed condition of mains in the distribution system and the metered ratio of water sold in the system. For the sake of this report, the condition of a distribution main was determined by its estimated age. The materials in the system were assumed to have an anticipated lifespan of 100 years. Mains that are 25 years old or newer are considered in excellent

condition. Mains that are between 26 and 75 years of age are considered in good condition. Mains that are between 76 and 100 years of age are considered in fair condition. Any mains over 100 years old are considered to be in poor condition. A summary of the condition of the distribution system is summarized in Table 1 below.

Table 1: Distribution System Summary

Age of Main	Condition Assessment	Approximate Linear Footage	Percent of System
25 Years or Less	Excellent	115,900	49.0%
26 – 75 Years	Good	82,000	34.7%
76 – 100 Years	Fair	19,800	8.4%
101 Years or More	Poor	18,700	7.9%

The Metered Ratio was taken as the volume of water measured by meters in the system divided by the volume of water measured by the Water Treatment Plant's effluent meter. It is a means of estimating the water loss in a system. See Table 2 for a breakdown of metered water usage in 2023.

Table 2: 2023 Metered Consumption (Thousand Gallons)

User Type	Residential	Commercial	Industrial	Public	Bulk	TOTAL
January	8,573	3,326	263	1,089	0	13,251
February	6,380	2,813	175	1,063	0	10,431
March	6,693	3,278	128	1,076	0	11,175
April	7,928	3,822	207	1,102	0	13,059
May	6,989	3,545	204	919	178	11,835
June	7,657	3,130	118	1,024	518	12,447
July	7,957	3,064	125	1,039	217	12,402
August	6,662	2,974	95	768	112	10,611
September	8,733	3,673	428	1,232	43	14,109
October	6,955	3,083	309	1,063	2	11,412
November	7,504	3,063	334	1,184	9	12,094
December	7,857	2,964	318	830	2	11,971
TOTAL	89,888	38,735	2,704	12,389	1,081	144,797

The average total monthly metered water consumption for 2023 was 12.1 MG. In 2023, the plant ran for a total of 5,602 hours, pulling 286 MG from the Shenango River and producing 212 MG of finished water for consumption. The total metered water in 2023 was 145 MG. The metered ratio in 2023 was 0.68. In 2023, non-revenue water totaled 46.1 MG, or 21.8 percent.

4.2 Meters

The majority of the system's meters were installed in 2008. Although there are some older and newer meters within the system, the average age of a meter is 17 years. Typically, meters are replaced at the 20-year mark due to inconsistent readings in the turbine section. While the meter body itself may be in good condition, the internal components have reached the end of their usable life.

4.3 Booster Pump Station

At the time of this report, a new booster pump station is under construction. Prior to the sale of the system, the new booster pump station will be brought online, and the old booster pump station will be decommissioned. Therefore, for the sake of this report, the booster pump station is new and in excellent condition.

4.4 Storage Tanks

All storage tanks are considered to be in fair condition. The tanks are well-maintained and function as expected.

5.0 Conclusion

Water system assets include land and rights-of-way, WTP structures and improvements, booster station land, structures and improvements, equipment, vehicles, service lines, valves, curb stops, and storage facilities. With the information available at the time of this report, original costs total $27,382,497.83.

Attachment 1
Asset Inventory

Greenville Municipal Water Authority
Original Cost of Water System - REVISION 2
May 2025

Account No.	Description	Original Cost
103	Land Held for Future Use	$ 38,001.00
303	Land and Land Rights	$ 143.00
304	Structures and Improvements	$ 7,077,004.32
331	Transmission and Distribution Mains	$ 14,526,526.45
331-1	Transmission and Distribution Mains - Valves	$ 1,035,088.27
335	Hydrants	$ 603,842.72
311	Pumping Equipment	$ 749,500.00
330	Distribution Reservoirs and Standpipes	$ 1,459,207.16
333	Services	$ 1,321,627.52
341	Transportation Equipment	$ 174,634.00
310	Power Generation Equipment	$ 95,646.72
Meters	Meters active in System	$ 301,276.67
	TOTAL	**$ 27,382,497.83**

Greenville Municipal Water Authority, Mercer County, Pennsylvania
Original Cost of Water System
March 2024
Account No. 103 Property Held for Future Use

Account No.	Notes	Description	Year Acquired	Quantity	Units	Unit Price	Current ENR Construction Cost Index	Old ENR Construction Cost Index	Original Cost
103		**Property Held for Future Use**							
103	1,2	**Property for Future Use 43 S. Race Street (Tax Parcel ID No. 55 516 098)**	2019	1	Property	$ -	---	---	$ 35,000.00
103	1,2	**Property for Future Use 51. S. Race Street (Tax Parcel ID No. 55 516 099)**	2021	1	Property	$ -	---	---	$ 1,250.00
103	1,2	**Property for Future Use 1 State Street (55 516 100)**	2018	1	Property	$ -	---	---	$ 1,000.00
103	1,2	**Property for Future Use 22 S. Front Street (55 516 081)**	2013	1	Property	$ -	---	---	$ 750.00
103	1,2	**Property for Future Use 24 S. Front Street (55 516 082)**	2014	1	Property	$ -	---	---	$ 1.00
									$ -
						TOTAL Account No. 103 Property Held for Future Use			**$ 38,001.00**

Notes:

1. Year Acquired according to Mercer County GIS Records.

2. No current value estimated, original purchase price is provided

Greenville Municipal Water Authority, Mercer County, Pennsylvania
Original Cost of Water System
May 2025
Account No. 303 Land and Land Rights

Account No.	Notes	Description	Year Acquired	Quantity	Units	Unit Price	Current ENR Construction Cost Index	Old ENR Construction Cost Index	Original Cost
303		**Land and Land Rights**							
303	1	**Greenville Water Treatment Plant Property (Tax Parcel ID No. 19 0815 550 and 19 0815 551**	2000	1	Property	$ -	---	---	$ -
303	1	**Greenville Municipal Water Authority Building (Tax Parcel ID No. 55 516 045**	2000	1	Property	$ -	---	---	$ -
303	1,2,3	**Greenville East Tanks Property (Tax Parcel ID No. 09 044 141)**	2000	1	Property	$ -	---	---	$ -
303	1	**Greenville West Tanks Property (Tax Parcel ID No. 31 055 121)**	2000	1	Property	$ -	---	---	$ -
303	4	**Greenville Booster Pump Station Site**	2020	1	Easement	$ -	---	---	$ -
303	5,6	**Easement (Tax Parcel ID No. 55 519 005)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 09 044 102)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 09 044 116)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 09 044 002 002)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 09 043 150)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 09 043 151)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 09 044 102 001)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 09 044 141)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 09 044 141)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 09 043 155 006 011)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 09 044 141 001)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 09 043 124)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 09 056 303)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 09 056 235 001)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 516 088 001)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 09 496.A 010)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 511 072 001)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 516 081)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 516 022 001)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 516 023)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 516 088)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 516 023 001)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 518 108)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 31 055 121)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 31 055 123)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 31 055 124)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 31 055 125)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 31 055 122)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 09 043 123)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 09 043 135)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 525 039)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 525 040)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 525 046)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 525 047)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 09 056 053)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 09 056 054)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 529 075)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 529 072)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 506 002)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 09 056 053 001)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 523 019)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 534 038)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 524 077)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 536 041)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 508 004)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 525 033)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 531 027)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 509 119)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 523 152)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 529 126)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 536 036)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 523 149)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 522 044)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 529 121)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 525 050)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 531 029)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 531 0320)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No.55 531 025)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 531 024)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 531 026)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 527 043)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 525 051)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 511 023)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 518 071)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 516 014)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 516 015)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 516 022)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 516 039)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 518 026)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 516 024)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 529 081)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 510 074)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 516 071)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 516 110)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 511 074)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 501 001)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 501 002)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 516 056 001 001 004)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 510 053)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 510 086)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 510 092)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 020 004)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 515 035)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 516 063)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 516 064)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 517 078)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 517 084)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 517 085)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 518 108)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 535 026)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 510 091)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 521 001)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 513 003)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 513 005 001)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 536 023)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 521 017)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 529 103)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 523 150)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 511 073)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 513 007)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 509 124)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 510 015)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 510 032)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 515 023)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 529 134)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 529 135)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 529 137)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 520 113)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 520 111)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 510 027)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 520 087)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 523 136)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 531 008)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 499 025)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 499 026)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 507 021)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 509 066)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 509 086)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 510 041)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 517 002 001)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 517 003)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 520 046)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 520 086)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 521 047)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 522 104)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 523 082)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 523 120)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No.55 529 005)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 529 039)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 530 010)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 521 081)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 523 151)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 536 027)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 509 119 001)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 500 020)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 525 048)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 509 110)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 510 056)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 510 057)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 510 035)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 516 023)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 516 088)**		1	Easement	$ 1.00	---	---	$ 1.00
303	5,6	**Easement (Tax Parcel ID No. 55 516 209)**		1	Easement	$ 1.00	---	---	$ 1.00
					TOTAL Account No. 303 Land and Land Rights				**$ 143.00**

Notes:

1. Year Acquired according to Mercer County GIS Records.

2. Greenville Municipal Water Authority is investigating subdividision and sale of a portion of this property.

3. The Greenville East Tanks Property shall be subdivieded between Aqua and GMWA to allow Aqua to have access from Hadley Road and Methodist Road.

4. Booster Pump Station construction incomplete at the time of this report.

5. Easements identified by overlaying main and valve GIS data on county tax parcel GIS. Each overlapping parcel has been identified as an easement. Additional records may be necessary to determine whether an easement agreement was established.

6. Cost of easements assumed to be $1.00 each at the time of acquisition.

Greenville Municipal Water Authority, Mercer County, Pennsylvania
Original Cost of Water System
March 2024
Account No. 304 Structures and Improvements

Account No.	Notes	Description	Year Constructed	Condition Assessment	Quantity	Units	Unit Price	Current Evaluation	Current ENR Construction Cost Index	Old ENR Construction Cost Index	Original Cost
304		**Structures and Improvements**									
304		**Greenville Water Treatment Plant**		Fair							
	1,2	Original Construction	1990	Good	1	LS	$ -	---	---	---	$ 6,784,447.05
	3	Raw Water Holding Tank	1990	Fair	1		$ -	---	---	---	$ -
	3,4	Raw Water Pumps (Vertical Turbine)	1990	Good	1		$ -	---	---	---	$ -
	3	Super Pulsator	1990	Poor	2		$ -	---	---	---	$ -
	3	Upflow Clarifier	1990	Fair	2		$ -	---	---	---	$ -
	3	Multimedia Filters	1990	Fair	4		$ -	---	---	---	$ -
	3	Finished Water Wet Well	1990	Good	1		$ -	---	---	---	$ -
	3	High Service Pumps	1990	Fair	2		$ -	---	---	---	$ -
	3	Blowers	1990	Fair	2		$ -	---	---	---	$ -
	3	Chlorine Feed System	1990	Fair	1		$ -	---	---	---	$ -
	3	PAC Feed System	1990	Fair	1		$ -	---	---	---	$ -
	3	Caustic Feed System	1990	Fair	1		$ -	---	---	---	$ -
	3	Potassium Permanganate Feed System	1990	Fair	1		$ -	---	---	---	$ -
	3	Fluoride Feed System	1990	Fair	1		$ -	---	---	---	$ -
	3	Filter Polymer Feed System	1990	Fair	1		$ -	---	---	---	$ -
	3	Sludge Polymer Feed System	1990	Fair	1		$ -	---	---	---	$ -
	3	Sludge Holding Tank	1990	Fair	1		$ -	---	---	---	$ -
	3	Aqua Mag Feed System	1990	Fair	1		$ -	---	---	---	$ -
	3	Ammonia Feed System	1990	Fair	1		$ -	---	---	---	$ -
	3	Backwash Sludge Tank	1990	Fair	1		$ -	---	---	---	$ -
	3	HVAC System	1990	Fair	1		$ -	---	---	---	$ -
	1,4	Raw Water Pumps (Vertical Turbine)	2023	Excellent	1	LS	$ -	---	---	---	$ 45,263.00
	1,5	PAC Tank	2022	Excellent	1	LS	$ -	---	---	---	$ 23,700.00
	1,6	SCADA System	2010	Fair	1	LS	$ 100,000.00	$ 100,000.00	13515	4732	$ 35,012.95
	1	Sludge Holding Tank	1995	Good	1	LS	$ 200,000.00	$ 200,000.00	13515	4732	$ 70,025.90
	1	Filter Press Building	1995	Fair	1	LS	$ 50,000.00	$ 50,000.00	13515	4732	$ 17,506.47
	1	Filter Press	1995	Fair	1	LS	$ 100,000.00	$ 100,000.00	13515	4732	$ 35,012.95
	1,5	Filter media replaced	2022	Fair	1	LS	$ -	---	---	---	$ 66,036.00
										TOTAL Account No.304 Structures and Improvements	**$ 7,077,004.32**

Notes:

1. LS - Lump Sum

2. Cost provided represents the original construction cost of the plant. No current evaluation has been prepared.

3. Item is from the original construction of the plant and has been accounted for in the original construction price.

4. One Raw Water Pump was refurbished in 2023, and another was replaced. The cost for the refurbishment AND replacement has been deducted from the original plant cost, and accounted for with the new raw pump.

5. Cost provided is from the time of replacement and represents original cost. No current evaluation has been prepared.

6. SCADA System install approximated to the nearest decade.

Greenville Municipal Water Authority, Mercer County, Pennsylvania
Original Cost of Water System
March 2024
Account No. 331 Transmission & Distribution Mains

Account No.	Notes	ID	Length (LF)	Diameter (in)	Pipe Material	Year Constructed	Condition Assessment	Pipe Cost	Current Evaluation	Current ENR Construction Cost Index	Old ENR Construction Cost Index	Original Cost
331		**Transmission & Distribution Mains**										
331		0.75	4.0	0.75	PVC	2013	Excellent	$ 176.00	$ 176.00	13515	9547	$ 124.33
331		0.75	142.0	0.75	Copper	1940	Poor	$ 22,720.00	$ 22,720.00	13515	242	$ 406.83
331		0.75	82.0	0.75	Copper	1970	Fair	$ 13,120.00	$ 13,120.00	13515	1381	$ 1,340.64
331		1	416.0	1	PVC	2013	Excellent	$ 18,304.00	$ 18,304.00	13515	9547	$ 12,929.95
331		1	257.0	1	PVC	2015	Excellent	$ 11,308.00	$ 11,308.00	13515	10031	$ 8,392.94
331		1	337.0	1	Cast Iron	1920	Poor	$ 21,905.00	$ 21,905.00	13515	251	$ 406.82
331		1	543.0	1	Cast Iron	1940	Poor	$ 35,295.00	$ 35,295.00	13515	242	$ 631.99
331		1	169.0	1	Cast Iron	1970	Fair	$ 10,985.00	$ 10,985.00	13515	1381	$ 1,122.48
331		1	149.0	1	Ductile Iron	2001	Good	$ 11,473.00	$ 11,473.00	13515	6343	$ 5,384.63
331		1	266.0	1	PVC	2001	Good	$ 11,704.00	$ 11,704.00	13515	6343	$ 5,493.04
331		2	4133.0	2	C900	2013	Excellent	$ 268,645.00	$ 268,645.00	13515	9547	$ 189,770.91
331		2	2929.0	2	C900	2018	Excellent	$ 190,385.00	$ 190,385.00	13515	11062	$ 155,829.74
331		2	375.8	2	C900	2020	Excellent	$ 24,427.00	$ 24,427.00	13515	11466	$ 20,723.64
331		2	153.5	2	C900	2022	Excellent	$ 9,977.50	$ 9,977.50	13515	13007	$ 9,602.47
331		2	1426.2	2	Cast Iron	1920	Poor	$ 141,193.02	$ 141,193.02	13515	251	$ 2,622.23
331		2	465.9	2	Cast Iron	1930	Poor	$ 46,125.79	$ 46,125.79	13515	203	$ 692.83
331		2	1699.6	2	Cast Iron	1940	Poor	$ 168,257.63	$ 168,257.63	13515	242	$ 3,012.83
331		2	474.0	2	Cast Iron	1950	Fair	$ 46,923.74	$ 46,923.74	13515	510	$ 1,770.71
331		2	195.2	2	Cast Iron	1960	Fair	$ 19,323.37	$ 19,323.37	13515	824	$ 1,178.13
331		2	1134.4	2	Cast Iron	1970	Fair	$ 112,301.21	$ 112,301.21	13515	1381	$ 11,475.25
331		2	90.5	2	Ductile Iron	1990	Good	$ 10,492.71	$ 10,492.71	13515	4732	$ 3,673.81
331		2	15.7	2	Ductile Iron	2008	Good	$ 1,816.64	$ 1,816.64	13515	8310	$ 1,117.00
331		2	59.3	2	Galvanized	1970	Fair	$ 5,873.38	$ 5,873.38	13515	1381	$ 600.16
331		2	1287.1	2	HDPE	2022	Excellent	$ 84,947.57	$ 84,947.57	13515	13007	$ 81,754.57
331		2	1228.5	2	HDPE	2023	Excellent	$ 81,080.81	$ 81,080.81	13515	13358	$ 80,138.92
331		2	21.0	2	Cast Iron	1940	Poor	$ 2,077.05	$ 2,077.05	13515	242	$ 37.19
331		2	5.3	2	Copper	2003	Good	$ 618.26	$ 618.26	13515	6694	$ 306.22
331		2	555.1	2	PVC	1980	Good	$ 36,080.98	$ 36,080.98	13515	3237	$ 8,641.82
331		2	419.7	2	PVC	1985	Good	$ 27,283.24	$ 27,283.24	13515	4195	$ 8,468.60
331		2	1240.2	2	PVC	1990	Good	$ 80,611.60	$ 80,611.60	13515	4732	$ 28,224.50
331		2	441.3	2	PVC	2000	Good	$ 28,681.62	$ 28,681.62	13515	6221	$ 13,202.25
331		2	904.7	2	PVC	2003	Good	$ 58,808.28	$ 58,808.28	13515	6694	$ 29,127.83
331		3	46.7	3	C900	2015	Excellent	$ 3,037.85	$ 3,037.85	13515	10031	$ 2,254.73
331		3	284.8	3	Cast Iron	1920	Poor	$ 37,302.46	$ 37,302.46	13515	251	$ 692.78
331		4	29.6	4	C909	2022	Excellent	$ 3,191.95	$ 3,191.95	13515	13007	$ 3,071.97
331		4	149.1	4	C-900 PVC	2013	Excellent	$ 16,106.86	$ 16,106.86	13515	9547	$ 11,377.89
331		4	42.3	4	C-900 PVC	2015	Excellent	$ 4,566.36	$ 4,566.36	13515	10031	$ 3,389.21
331		4	93.7	4	C909	2018	Excellent	$ 10,123.57	$ 10,123.57	13515	11062	$ 8,286.12
331		4	661.6	4	C909	2020	Excellent	$ 71,454.51	$ 71,454.51	13515	11466	$ 60,621.34
331		4	392.1	4	C909	2022	Excellent	$ 42,344.44	$ 42,344.44	13515	13007	$ 40,752.80
331		4	34.3	4	C909	2023	Excellent	$ 3,707.05	$ 3,707.05	13515	13358	$ 3,663.99
331		4	4714.0	4	Cast Iron	1920	Poor	$ 763,663.60	$ 763,663.60	13515	251	$ 14,182.73
331		4	3905.9	4	Cast Iron	1930	Poor	$ 632,756.47	$ 632,756.47	13515	203	$ 9,504.22
331		4	5673.7	4	Cast Iron	1940	Poor	$ 919,143.67	$ 919,143.67	13515	242	$ 16,458.21
331		4	513.1	4	Cast Iron	1950	Fair	$ 83,124.51	$ 83,124.51	13515	510	$ 3,136.77
331		4	3072.6	4	Cast Iron	1970	Fair	$ 497,757.03	$ 497,757.03	13515	1381	$ 50,862.19
331		4	1533.3	4	Ductile Iron	1980	Good	$ 289,793.72	$ 289,793.72	13515	3237	$ 69,408.97
331		4	168.6	4	Ductile Iron	1996	Good	$ 31,874.06	$ 31,874.06	13515	5620	$ 13,254.32
331		4	185.8	4	Ductile Iron	2001	Good	$ 35,122.36	$ 35,122.36	13515	6343	$ 16,483.99
331		4	25.6	4	Ductile Iron	2007	Good	$ 4,846.35	$ 4,846.35	13515	7966	$ 2,856.53
331		4	551.8	4	Ductile Iron	2008	Good	$ 104,293.06	$ 104,293.06	13515	8310	$ 64,126.92
331		4	17.4	4	Cast Iron	1920	Poor	$ 2,813.31	$ 2,813.31	13515	251	$ 52.25
331		4	38.0	4	C909	2013	Excellent	$ 4,106.28	$ 4,106.28	13515	9547	$ 2,900.68
331	1	4	4003.5	4	Cast Iron	1890	Poor	$ 648,566.95	$ 648,566.95	13515	97	$ 4,654.90
331		6	18855.0	6	C-900 PVC	2013	Excellent	$ 2,130,617.84	$ 2,130,617.84	13515	9547	$ 1,505,069.08
331		6	23.1	6	C-900 PVC	2015	Excellent	$ 2,608.75	$ 2,608.75	13515	10031	$ 1,936.25
331		6	1326.9	6	C909	2018	Excellent	$ 149,940.25	$ 149,940.25	13515	11062	$ 122,725.79
331		6	1632.8	6	C909	2020	Excellent	$ 184,508.82	$ 184,508.82	13515	11466	$ 156,535.56
331		6	2690.2	6	C909	2022	Excellent	$ 303,992.71	$ 303,992.71	13515	13007	$ 292,566.27
331		6	407.5	6	C909	2023	Excellent	$ 46,046.43	$ 46,046.43	13515	13358	$ 45,511.52
331		6	2335.7	6	Cast Iron	1920	Poor	$ 397,072.66	$ 397,072.66	13515	251	$ 7,374.42
331		6	1329.5	6	Cast Iron	1930	Poor	$ 226,008.33	$ 226,008.33	13515	203	$ 3,394.72
331		6	5394.7	6	Cast Iron	1940	Poor	$ 917,093.40	$ 917,093.40	13515	242	$ 16,421.50
331		6	1190.9	6	Cast Iron	1950	Fair	$ 202,453.07	$ 202,453.07	13515	510	$ 7,639.74
331		6	7660.1	6	Cast Iron	1960	Fair	$ 1,302,212.17	$ 1,302,212.17	13515	824	$ 79,394.96
331		6	18005.7	6	Cast Iron	1970	Fair	$ 3,060,975.29	$ 3,060,975.29	13515	1381	$ 312,778.90
331		6	43.8	6	Cast Iron	2022	Excellent	$ 7,438.80	$ 7,438.80	13515	13007	$ 7,159.19
331		6	1488.3	6	Ductile Iron	1980	Good	$ 294,681.52	$ 294,681.52	13515	3237	$ 70,579.66
331		6	3198.9	6	Ductile Iron	1996	Good	$ 633,386.03	$ 633,386.03	13515	5620	$ 263,383.61
331		6	1161.9	6	Ductile Iron	1999	Good	$ 230,050.93	$ 230,050.93	13515	6059	$ 103,135.67
331		6	46.1	6	Ductile Iron	2001	Good	$ 9,125.39	$ 9,125.39	13515	6343	$ 4,282.82
331		6	10.7	6	Ductile Iron	2004	Good	$ 2,117.31	$ 2,117.31	13515	6538	$ 1,024.27
331		6	1211.6	6	Ductile Iron	2008	Good	$ 239,900.79	$ 239,900.79	13515	8310	$ 147,508.37
331		6	232.8	6	Ductile Iron	2010	Good	$ 46,089.34	$ 46,089.34	13515	8799	$ 30,006.67
331	1	6	314.9	6	Cast Iron	1890	Poor	$ 53,528.76	$ 53,528.76	13515	97	$ 384.19
331		6	142.0	6	Cast Iron	1920	Poor	$ 24,138.56	$ 24,138.56	13515	251	$ 448.30
331		6	63.7	6	Cast Iron	1930	Poor	$ 10,837.08	$ 10,837.08	13515	203	$ 162.78
331		6	73.0	6	Cast Iron	1940	Poor	$ 12,416.41	$ 12,416.41	13515	242	$ 222.33
331		6	27.8	6	Cast Iron	1950	Fair	$ 4,733.96	$ 4,733.96	13515	510	$ 178.64
331		6	89.5	6	Cast Iron	1960	Fair	$ 15,216.51	$ 15,216.51	13515	824	$ 927.74
331		6	198.8	6	Cast Iron	1970	Fair	$ 33,798.00	$ 33,798.00	13515	1381	$ 3,453.57
331		6	96.3	6	Ductile Iron	1980	Good	$ 19,059.78	$ 19,059.78	13515	3237	$ 4,565.04
331		6	40.0	6	Ductile Iron	1990	Good	$ 7,919.13	$ 7,919.13	13515	4732	$ 2,772.72
331		6	47.7	6	Ductile Iron	1996	Good	$ 9,447.58	$ 9,447.58	13515	5620	$ 3,928.63
331		6	169.7	6	Ductile Iron	1999	Good	$ 33,596.21	$ 33,596.21	13515	6059	$ 15,061.74
331		6	10.0	6	C900	2001	Good	$ 1,129.83	$ 1,129.83	13515	6343	$ 530.26
331		6	40.3	6	C900	2003	Good	$ 4,555.65	$ 4,555.65	13515	6694	$ 2,256.42
331		6	6.8	6	C900	2004	Good	$ 767.20	$ 767.20	13515	7115	$ 403.89
331		6	20.7	6	C900	2008	Good	$ 2,340.36	$ 2,340.36	13515	8310	$ 1,439.02
331		6	14.2	6	C900	2010	Good	$ 1,607.52	$ 1,607.52	13515	8799	$ 1,046.58
331		6	290.9	6	C900	2013	Excellent	$ 32,870.33	$ 32,870.33	13515	9547	$ 23,219.61
331		6	19.6	6	C909	2014	Excellent	$ 2,217.43	$ 2,217.43	13515	9807	$ 1,609.05
331		6	3.4	6	C909	2015	Excellent	$ 381.76	$ 381.76	13515	10031	$ 283.34
331		6	112.6	6	C909	2018	Excellent	$ 12,729.19	$ 12,729.19	13515	11062	$ 10,418.82
331		6	43.5	6	C909	2020	Excellent	$ 4,920.62	$ 4,920.62	13515	11466	$ 4,174.61
331		6	99.1	6	C909	2022	Excellent	$ 11,197.74	$ 11,197.74	13515	13007	$ 10,776.84
331		6	34.8	6	C909	2023	Excellent	$ 3,931.55	$ 3,931.55	13515	13358	$ 3,885.88
331		6	10.0	6	Cast Iron	1970	Fair	$ 1,699.98	$ 1,699.98	13515	1381	$ 173.71
331		8	5394.2	8	C-900 PVC	2003	Good	$ 636,509.92	$ 636,509.92	13515	6694	$ 315,264.33
331		8	9050.1	8	C-900 PVC	2013	Excellent	$ 1,067,913.61	$ 1,067,913.61	13515	9547	$ 754,374.49
331		8	2964.4	8	C-900 PVC	2014	Excellent	$ 349,795.16	$ 349,795.16	13515	9807	$ 253,824.73
331		8	1441.1	8	C-909 PVC	2015	Excellent	$ 170,054.77	$ 170,054.77	13515	10031	$ 126,216.75
331		8	4834.3	8	C-909 PVC	2018	Excellent	$ 570,441.52	$ 570,441.52	13515	11062	$ 466,905.22
331		8	2739.9	8	C-909 PVC	2020	Excellent	$ 323,310.40	$ 323,310.40	13515	11466	$ 274,293.53
331		8	6633.1	8	C-909 PVC	2022	Excellent	$ 782,711.50	$ 782,711.50	13515	13007	$ 753,291.05
331		8	1864.3	8	C-909 PVC	2023	Excellent	$ 219,988.51	$ 219,988.51	13515	13358	$ 217,432.97
331		8	1315.9	8	Cast Iron	1920	Poor	$ 232,920.77	$ 232,920.77	13515	251	$ 4,325.79
331		8	276.6	8	Cast Iron	1930	Poor	$ 48,966.82	$ 48,966.82	13515	203	$ 735.50
331		8	1838.0	8	Cast Iron	1950	Fair	$ 325,333.18	$ 325,333.18	13515	510	$ 12,276.72
331		8	1532.7	8	Cast Iron	1960	Fair	$ 271,290.49	$ 271,290.49	13515	824	$ 16,540.39
331		8	11750.8	8	Cast Iron	1970	Fair	$ 2,079,895.39	$ 2,079,895.39	13515	1381	$ 212,529.45
331		8	1751.9	8	Ductile Iron	1980	Good	$ 362,643.24	$ 362,643.24	13515	3237	$ 86,857.28
331		8	2862.3	8	Ductile Iron	1990	Good	$ 592,500.74	$ 592,500.74	13515	4732	$ 207,451.98
331		8	60.5	8	Ductile Iron	1996	Good	$ 12,520.35	$ 12,520.35	13515	5620	$ 5,206.39
331		8	2220.8	8	Ductile Iron	1999	Good	$ 459,715.27	$ 459,715.27	13515	6059	$ 206,098.03
331		8	1516.1	8	Ductile Iron	2001	Good	$ 313,829.72	$ 313,829.72	13515	6343	$ 147,289.82
331		8	21.6	8	Ductile Iron	2007	Good	$ 4,471.42	$ 4,471.42	13515	7966	$ 2,635.54
331		8	79.5	8	Ductile Iron	2008	Good	$ 16,456.34	$ 16,456.34	13515	8310	$ 10,118.55
331		8	21.3	8	Cast Iron	1930	Poor	$ 3,771.25	$ 3,771.25	13515	203	$ 56.65
331		8	111.8	8	Cast Iron	1970	Fair	$ 19,793.59	$ 19,793.59	13515	1381	$ 2,022.56
331		8	31.5	8	Ductile Iron	1980	Good	$ 6,518.49	$ 6,518.49	13515	3237	$ 1,561.26
331		8	11.4	8	Ductile Iron	1990	Good	$ 2,353.01	$ 2,353.01	13515	4732	$ 823.86
331		8	10.0	8	Ductile Iron	2003	Good	$ 2,069.97	$ 2,069.97	13515	6694	$ 1,025.26
331		8	52.1	8	C-900 PVC	2010	Good	$ 6,153.63	$ 6,153.63	13515	8799	$ 4,006.35
331		8	46.3	8	C-900 PVC	2013	Excellent	$ 5,457.84	$ 5,457.84	13515	9547	$ 3,855.42
331		8	10.0	8	C-909 PVC	2015	Excellent	$ 1,180.01	$ 1,180.01	13515	10031	$ 875.82
331		8	191.1	8	C-909 PVC	2018	Excellent	$ 22,550.54	$ 22,550.54	13515	11062	$ 18,457.57
331		8	27.5	8	C-909 PVC	2023	Excellent	$ 3,243.83	$ 3,243.83	13515	13358	$ 3,206.14
331	1	8	1952.8	8	Cast Iron	1890	Poor	$ 345,643.27	$ 345,643.27	13515	97	$ 2,480.75
331		8	1766.9	8	Ductile Iron	1980	Good	$ 365,755.32	$ 365,755.32	13515	3237	$ 87,602.66
331		10	60.1	10	C-900 PVC	2020	Excellent	$ 8,358.77	$ 8,358.77	13515	11466	$ 7,091.51
331		10	257.0	10	C-900 PVC	2022	Excellent	$ 35,729.21	$ 35,729.21	13515	13007	$ 34,386.22
331		10	1887.7	10	C-900 PVC	2023	Excellent	$ 262,390.74	$ 262,390.74	13515	13358	$ 259,342.62
331		10	26.6	10	Cast Iron	1930	Poor	$ 5,552.40	$ 5,552.40	13515	203	$ 83.40
331		10	1678.0	10	Cast Iron	1970	Fair	$ 350,710.46	$ 350,710.46	13515	1381	$ 35,836.56
331		10	10.0	10	Ductile Iron	1970	Fair	$ 22,439.95	$ 22,439.95	13515	1381	$ 2,292.98
331		10	10.0	10	C-900 PVC	2004	Good	$ 1,389.83	$ 1,389.83	13515	7115	$ 731.68
331		12	1739.9	12	C-900 PVC	2003	Good	$ 247,063.74	$ 247,063.74	13515	6694	$ 122,371.05
331		12	638.2	12	C-900 PVC	2010	Good	$ 90,624.99	$ 90,624.99	13515	8799	$ 59,001.80
331		12	3465.4	12	C-900 PVC	2013	Excellent	$ 492,085.56	$ 492,085.56	13515	9547	$ 347,609.39
331		12	1964.0	12	C-900 PVC	2015	Excellent	$ 278,881.44	$ 278,881.44	13515	10031	$ 206,989.25
331		12	1069.3	12	C-900 PVC	2016	Excellent	$ 151,839.19	$ 151,839.19	13515	10339	$ 116,157.26
331		12	1717.1	12	C-900 PVC	2018	Excellent	$ 243,831.75	$ 243,831.75	13515	11062	$ 199,575.79
331		12	1666.2	12	C-900 PVC	2020	Excellent	$ 236,601.22	$ 236,601.22	13515	11466	$ 200,730.27
331		12	2353.7	12	C-900 PVC	2022	Excellent	$ 334,226.47	$ 334,226.47	13515	13007	$ 321,663.61
331		12	5346.6	12	C-900 PVC	2023	Excellent	$ 759,219.67	$ 759,219.67	13515	13358	$ 750,400.03
331		12	1851.3	12	Cast Iron	1920	Poor	$ 394,329.62	$ 394,329.62	13515	251	$ 7,323.47
331		12	119.0	12	Cast Iron	1930	Poor	$ 25,351.78	$ 25,351.78	13515	203	$ 380.79
331		12	14.2	12	Cast Iron	1960	Fair	$ 3,032.99	$ 3,032.99	13515	824	$ 184.92
331		12	233.5	12	Cast Iron	1970	Fair	$ 49,730.94	$ 49,730.94	13515	1381	$ 5,081.65
331		12	3096.7	12	Ductile Iron	1980	Good	$ 771,087.01	$ 771,087.01	13515	3237	$ 184,684.33
331		12	3057.3	12	Ductile Iron	1996	Good	$ 761,260.58	$ 761,260.58	13515	5620	$ 316,558.23
331		12	6846.3	12	Ductile Iron	1999	Good	$ 1,704,727.86	$ 1,704,727.86	13515	6059	$ 764,257.94
331		12	2648.2	12	Ductile Iron	2001	Good	$ 659,404.13	$ 659,404.13	13515	6343	$ 309,478.38
331		12	8131.4	12	Ductile Iron	2004	Good	$ 2,024,708.67	$ 2,024,708.67	13515	7115	$ 1,065,912.11
331		12	557.0	12	Ductile Iron	2007	Good	$ 138,681.32	$ 138,681.32	13515	7966	$ 81,741.43
331		12	1503.1	12	Ductile Iron	2008	Good	$ 374,277.96	$ 374,277.96	13515	8310	$ 230,133.17
331		12	1597.0	12	Ductile Iron	2010	Good	$ 397,645.12	$ 397,645.12	13515	8799	$ 258,888.60
331		12	10.0	12	Ductile Iron	1999	Good	$ 2,489.96	$ 2,489.96	13515	6059	$ 1,116.29
331		12	20.0	12	Ductile Iron	2003	Good	$ 4,980.00	$ 4,980.00	13515	6694	$ 2,466.60
331		12	20.0	12	Ductile Iron	2004	Good	$ 4,979.23	$ 4,979.23	13515	7115	$ 2,621.33
331		12	144.0	12	Ductile Iron	2010	Good	$ 35,861.26	$ 35,861.26	13515	8799	$ 23,347.63
331		16	12.9	16	C-900 PVC	2023	Excellent	$ 1,836.13	$ 1,836.13	13515	13358	$ 1,814.80
331		16	31.1	16	Cast Iron	1950	Fair	$ 6,631.60	$ 6,631.60	13515	510	$ 250.25
331		16	222.9	16	Ductile Iron	2018	Excellent	$ 55,500.31	$ 55,500.31	13515	11062	$ 45,426.89
											TOTAL Account No. 331 Transmission & Distribution Mains	**$ 14,526,526.45**

Notes:
1. Mains from 1890 use the 1908 ENR number. ENR only extends back to 1908.

Greenville Municipal Water Authority, Mercer County, Pennsylvania
Original Cost of Water System
March 2024
Account No. 331-1 Transmission & Distribution Mains - Valves

Account No.	Notes	ID	Quantity	Year Constructed	Current Evaluation	Current ENR Construction Cost Index	Old ENR Construction Cost Index	Original Cost
331-1		**Transmission & Distribution Mains - Valves**						
331-1	1	0.75	1	1940	$ 850.00	13515	242	$ 15.22
331-1	1	0.75	1	1970	$ 850.00	13515	1381	$ 86.86
331-1	1	1	2	1940	$ 1,700.00	13515	242	$ 30.44
331-1	1	1	1	1970	$ 850.00	13515	1381	$ 86.86
331-1	1	1	1	2001	$ 850.00	13515	6343	$ 398.93
331-1	1	1	1	2013	$ 850.00	13515	9547	$ 600.44
331-1	1	2	5	1920	$ 5,600.00	13515	251	$ 104.00
331-1	1	2	1	1930	$ 1,120.00	13515	203	$ 16.82
331-1	1	2	6	1940	$ 6,720.00	13515	242	$ 120.33
331-1	1	2	4	1960	$ 4,480.00	13515	824	$ 273.14
331-1	1	2	6	1970	$ 6,720.00	13515	1381	$ 686.67
331-1	1	2	1	1980	$ 1,120.00	13515	3237	$ 268.25
331-1	1	2	3	1985	$ 3,360.00	13515	4195	$ 1,042.93
331-1	1	2	4	1990	$ 4,480.00	13515	4732	$ 1,568.58
331-1	1	2	3	2000	$ 3,360.00	13515	6221	$ 1,546.62
331-1	1	2	3	2003	$ 3,360.00	13515	6694	$ 1,664.21
331-1	1	2	24	2013	$ 26,880.00	13515	9547	$ 18,988.04
331-1	1	2	11	2018	$ 12,320.00	13515	11062	$ 10,083.89
331-1	1	2	2	2020	$ 2,240.00	13515	11466	$ 1,900.40
331-1	1	2	3	2022	$ 3,360.00	13515	13007	$ 3,233.70
331-1	1	2	2	2023	$ 2,240.00	13515	13358	$ 2,213.98
331-1	1	3	1	1920	$ 1,400.00	13515	251	$ 26.00
331-1	1	3	1	2015	$ 1,400.00	13515	10031	$ 1,039.10
331-1	1,2	4	8	1890	$ 15,200.00	13515	97	$ 109.09
331-1	1	4	14	1920	$ 26,600.00	13515	251	$ 494.01
331-1	1	4	11	1930	$ 20,900.00	13515	203	$ 313.93
331-1	1	4	13	1940	$ 24,700.00	13515	242	$ 442.28
331-1	1	4	1	1950	$ 1,900.00	13515	510	$ 71.70
331-1	1	4	10	1970	$ 19,000.00	13515	1381	$ 1,941.47
331-1	1	4	4	1980	$ 7,600.00	13515	3237	$ 1,820.29
331-1	1	4	1	1996	$ 1,900.00	13515	5620	$ 790.09
331-1	1	4	2	2001	$ 3,800.00	13515	6343	$ 1,783.46
331-1	1	4	1	2007	$ 1,900.00	13515	7966	$ 1,119.90
331-1	1	4	4	2008	$ 7,600.00	13515	8310	$ 4,673.03
331-1	1	4	2	2013	$ 3,800.00	13515	9547	$ 2,684.32
331-1	1	4	1	2015	$ 1,900.00	13515	10031	$ 1,410.20
331-1	1	4	3	2018	$ 5,700.00	13515	11062	$ 4,665.44
331-1	1	4	5	2020	$ 9,500.00	13515	11466	$ 8,059.71
331-1	1	4	8	2022	$ 15,200.00	13515	13007	$ 14,628.66
331-1	1	4	1	2023	$ 1,900.00	13515	13358	$ 1,877.93
331-1	1,2	6	1	1890	$ 2,200.00	13515	97	$ 15.79
331-1	1	6	18	1920	$ 39,600.00	13515	251	$ 735.45
331-1	1	6	8	1930	$ 17,600.00	13515	203	$ 264.36
331-1	1	6	18	1940	$ 39,600.00	13515	242	$ 709.08
331-1	1	6	6	1950	$ 13,200.00	13515	510	$ 498.11
331-1	1	6	15	1960	$ 33,000.00	13515	824	$ 2,011.99
331-1	1	6	42	1970	$ 92,400.00	13515	1381	$ 9,441.69
331-1	1	6	5	1980	$ 11,000.00	13515	3237	$ 2,634.63
331-1	1	6	3	1996	$ 6,600.00	13515	5620	$ 2,744.51
331-1	1	6	6	1999	$ 13,200.00	13515	6059	$ 5,917.78
331-1	1	6	2	2001	$ 4,400.00	13515	6343	$ 2,065.05
331-1	1	6	5	2008	$ 11,000.00	13515	8310	$ 6,763.60
331-1	1	6	2	2010	$ 4,400.00	13515	8799	$ 2,864.64
331-1	1	6	83	2013	$ 182,600.00	13515	9547	$ 128,988.69
331-1	1	6	2	2014	$ 4,400.00	13515	9807	$ 3,192.81
331-1	1	6	1	2015	$ 2,200.00	13515	10031	$ 1,632.87
331-1	1	6	16	2018	$ 35,200.00	13515	11062	$ 28,811.13
331-1	1	6	8	2020	$ 17,600.00	13515	11466	$ 14,931.68
331-1	1	6	21	2022	$ 46,200.00	13515	13007	$ 44,463.44
331-1	1	6	3	2023	$ 6,600.00	13515	13358	$ 6,523.33
331-1	1	8	2	1890	$ 5,600.00	13515	97	$ 40.19
331-1	1	8	3	1920	$ 8,400.00	13515	251	$ 156.00
331-1	1	8	3	1930	$ 8,400.00	13515	203	$ 126.17
331-1	1	8	4	1950	$ 11,200.00	13515	510	$ 422.64
331-1	1	8	4	1960	$ 11,200.00	13515	824	$ 682.86
331-1	1	8	22	1970	$ 61,600.00	13515	1381	$ 6,294.46
331-1	1	8	6	1980	$ 16,800.00	13515	3237	$ 4,023.80
331-1	1	8	7	1990	$ 19,600.00	13515	4732	$ 6,862.54
331-1	1	8	2	1996	$ 5,600.00	13515	5620	$ 2,328.67
331-1	1	8	5	1999	$ 14,000.00	13515	6059	$ 6,276.43
331-1	1	8	7	2001	$ 19,600.00	13515	6343	$ 9,198.88
331-1	1	8	10	2003	$ 28,000.00	13515	6694	$ 13,868.44
331-1	1	8	1	2007	$ 2,800.00	13515	7966	$ 1,650.37
331-1	1	8	2	2008	$ 5,600.00	13515	8310	$ 3,443.29
331-1	1	8	39	2013	$ 109,200.00	13515	9547	$ 77,138.91
331-1	1	8	8	2014	$ 22,400.00	13515	9807	$ 16,254.30
331-1	1	8	6	2015	$ 16,800.00	13515	10031	$ 12,469.17
331-1	1	8	26	2018	$ 72,800.00	13515	11062	$ 59,586.65
331-1	1	8	12	2020	$ 33,600.00	13515	11466	$ 28,505.93
331-1	1	8	18	2022	$ 50,400.00	13515	13007	$ 48,505.57
331-1	1	8	6	2023	$ 16,800.00	13515	13358	$ 16,604.84
331-1	1	10	1	1930	$ 3,300.00	13515	203	$ 49.57
331-1	1	10	1	1970	$ 3,300.00	13515	1381	$ 337.20
331-1	1	10	1	2022	$ 3,300.00	13515	13007	$ 3,175.96
331-1	1	10	5	2023	$ 16,500.00	13515	13358	$ 16,308.32
331-1	1	12	9	1920	$ 41,400.00	13515	251	$ 768.88
331-1	1	12	4	1930	$ 18,400.00	13515	203	$ 276.37
331-1	1	12	1	1960	$ 4,600.00	13515	824	$ 280.46
331-1	1	12	3	1970	$ 13,800.00	13515	1381	$ 1,410.12
331-1	1	12	6	1980	$ 27,600.00	13515	3237	$ 6,610.52
331-1	1	12	3	1996	$ 13,800.00	13515	5620	$ 5,738.51
331-1	1	12	12	1999	$ 55,200.00	13515	6059	$ 24,747.08
331-1	1	12	3	2001	$ 13,800.00	13515	6343	$ 6,476.76
331-1	1	12	3	2003	$ 13,800.00	13515	6694	$ 6,835.16
331-1	1	12	6	2004	$ 27,600.00	13515	7115	$ 14,530.08
331-1	1	12	4	2007	$ 18,400.00	13515	7966	$ 10,845.31
331-1	1	12	7	2008	$ 32,200.00	13515	8310	$ 19,798.89
331-1	1	12	8	2010	$ 36,800.00	13515	8799	$ 23,958.80
331-1	1	12	4	2013	$ 18,400.00	13515	9547	$ 12,997.77
331-1	1	12	6	2015	$ 27,600.00	13515	10031	$ 20,485.06
331-1	1	12	4	2016	$ 18,400.00	13515	10339	$ 14,076.03
331-1	1	12	3	2018	$ 13,800.00	13515	11062	$ 11,295.27
331-1	1	12	9	2020	$ 41,400.00	13515	11466	$ 35,123.37
331-1	1	12	14	2022	$ 64,400.00	13515	13007	$ 61,979.34
331-1	1	12	11	2023	$ 50,600.00	13515	13358	$ 50,012.19
331-1	1	16	2	2018	$ 11,000.00	13515	11062	$ 9,003.48
331-1	1	16	1	2023	$ 5,500.00	13515	13358	$ 5,436.11
							TOTAL Account No. 331-1 Transmission & Distribution Mains - Valves	**$ 1,035,088.27**

Notes:

1. Install year for valves has been estimated based on the approximate age of the main.

2. Valves from 1890 use the 1908 ENR number. ENR only extends back to 1908.

Greenville Municipal Water Authroity, Mercer County, Pennsylvania
Original Cost of Water System
March 2024
Account No. 335 Hydrants

Account No.	Notes	Description	Count	Year Constructed	Hydrant Cost	Current Evaluation	Current ENR Construction Cost Index	Old ENR Construction Cost Index	Original Cost
335		**Hydrants**							
335	1,2	Hydrants	8	1890	$ 6,400.00	$ 51,200.00	13515	97	$ 367.47
335	1	Hydrants	13	1920	$ 6,400.00	$ 83,200.00	13515	251	$ 1,545.19
335	1	Hydrants	5	1930	$ 6,400.00	$ 32,000.00	13515	203	$ 480.65
335	1	Hydrants	8	1940	$ 6,400.00	$ 51,200.00	13515	242	$ 916.79
335	1	Hydrants	3	1950	$ 6,400.00	$ 19,200.00	13515	510	$ 724.53
335	1	Hydrants	8	1960	$ 6,400.00	$ 51,200.00	13515	824	$ 3,121.63
335	1	Hydrants	29	1970	$ 6,400.00	$ 185,600.00	13515	1381	$ 18,965.12
335	1	Hydrants	11	1980	$ 6,400.00	$ 70,400.00	13515	3237	$ 16,861.62
335	1	Hydrants	5	1990	$ 6,400.00	$ 32,000.00	13515	4732	$ 11,204.14
335	1	Hydrants	4	1996	$ 6,400.00	$ 25,600.00	13515	5620	$ 10,645.36
335	1	Hydrants	10	1999	$ 6,400.00	$ 64,000.00	13515	6059	$ 28,692.27
335	1	Hydrants	1	2001	$ 6,400.00	$ 6,400.00	13515	6343	$ 3,003.71
335	1	Hydrants	9	2003	$ 6,400.00	$ 57,600.00	13515	6694	$ 28,529.37
335	1	Hydrants	4	2004	$ 6,400.00	$ 25,600.00	13515	7115	$ 13,477.17
335	1	Hydrants	5	2008	$ 6,400.00	$ 32,000.00	13515	8310	$ 19,675.92
335	1	Hydrants	5	2010	$ 6,400.00	$ 32,000.00	13515	8799	$ 20,833.74
335	1	Hydrants	37	2013	$ 6,400.00	$ 236,800.00	13515	9547	$ 167,275.59
335	1	Hydrants	4	2014	$ 6,400.00	$ 25,600.00	13515	9807	$ 18,576.34
335	1	Hydrants	4	2015	$ 6,400.00	$ 25,600.00	13515	10031	$ 19,000.64
335	1	Hydrants	2	2016	$ 6,400.00	$ 12,800.00	13515	10339	$ 9,792.02
335	1	Hydrants	17	2018	$ 6,400.00	$ 108,800.00	13515	11062	$ 89,052.58
335	1	Hydrants	4	2020	$ 6,400.00	$ 25,600.00	13515	11466	$ 21,718.80
335	1	Hydrants	11	2022	$ 6,400.00	$ 70,400.00	13515	13007	$ 67,753.81
335	1	Hydrants	5	2023	$ 6,400.00	$ 32,000.00	13515	13358	$ 31,628.26
								TOTAL Account No. 335 Hydrants	**$ 603,842.72**

Notes:

1. Install year for hydrants has been estimated based on the approximate age of the main.

2. Hydrants from 1890 use the 1908 ENR number. ENR only extends back to 1908.

Greenville Municipal Water Authority, Mercer County, Pennsylvania
Original Cost of Water System
March 2024
Account No. 311 Pumping Equipment

Account No.	Notes	Description	Year Constructed	Quantity	Units	Unit Price	Current Evaluation	Current ENR Construction Cost Index	Old ENR Construction Cost Index	Original Cost
311		**Pumping Equipment**								
311	1	Booster Station Relocation	2024	1	EA	$ -	$ -	---	---	$ 749,500.00
									TOTAL Account No. 311 Pumping Equipment	**$ 749,500.00**

Notes:

1. No current value estimated, original purchase price is provided.

Greenville Municipal Water Authority, Mercer County, Pennsylvania
Original Cost of Water System
March 2024
Account No. 330 Distribution Reservoirs & Standpipes

Account No.	Notes	Description	Year Constructed	Quantity	Units	Unit Price	Current Evaluation	Current ENR Construction Cost Index	Old ENR Construction Cost Index	Original Cost
330		**Distribution Reservoirs & Standpipes**								
330		**East Tank #1 (0.250 MG)**								
	1	Constructed	1977	1	EA	$ 696,383.00	$ 696,383.00	13515	2576	$ 132,732.71
	1	Tideflex Mixer	2014	1	EA			13515	9807	
330		**East Tank #2 (1.0 MG)**								
	1	Constructed	2011	1	EA	$ 1,679,288.00	$ 1,679,288.00	13515	9070	$ 1,126,980.55
	1	GridBee Mixer	2018	1	EA			13515	11062	
330		**West Tank (0.255 MG)**								
	1	Constructed	1914	1	EA	$ 515,867.00	$ 515,867.00	13515	89	$ 3,397.13
330		**South Tank (0.750 MG)**								
	1	Constructed	1953	1	EA	$ 1,074,744.00	$ 1,074,744.00	13515	600	$ 47,713.39
	1	GridBee Mixer	2018	1	EA			13515	11062	
330		**North Tank (0.750 MG)**					$ -			
	1	Constructed	1953	1	EA	$ 1,074,744.00	$ 1,074,744.00	13515	600	$ 47,713.39
	1	GridBee Mixer	2018	1	EA			13515	11062	
								TOTAL Account No. 330 Distribution Reservoirs & Standpipes		**$ 1,358,537.16**

Notes:

1. EA - Each

Greenville Municipal Water Authority, Mercer County, Pennsylvania
Original Cost of Water System
March 2024
Account No.333 Service Lines

Account No.	Notes	ID	Length (LF)	Diameter (in)	Pipe Material	Count	Year Constructed	Estimated Installation Cost per Linear Foot	Current Evaluation	Current ENR Construction Cost Index	Old ENR Construction Cost Index	Original Cost
333		**Services**										
333	1,2,3	0.75	1350	0.75	Lead	90	1890	$ -	$ -	13515	97	$ -
333	1,2	0.75	1650	0.75	Lead	110	1920	$ -	$ -	13515	251	$ -
333	1,2	0.75	90	0.75	Lead	6	1930	$ -	$ -	13515	203	$ -
333	1,4,6	0.75	1230	0.75	Copper	82	1930	$ 66.00	$ 81,180.00	13515	203	$ 1,219.35
333	1,4,6	0.75	3120	0.75	Copper	208	1940	$ 66.00	$ 205,920.00	13515	242	$ 3,687.21
333	1,4,6	0.75	1230	0.75	Copper	82	1950	$ 66.00	$ 81,180.00	13515	510	$ 3,063.40
333	1,4,6	0.75	1170	0.75	Copper	78	1960	$ 66.00	$ 77,220.00	13515	824	$ 4,708.05
333	1,4,6	0.75	5700	0.75	Copper	380	1970	$ 66.00	$ 376,200.00	13515	1381	$ 38,441.15
333	1,4,6	0.75	1995	0.75	Copper	133	1980	$ 66.00	$ 131,670.00	13515	3237	$ 31,536.50
333	1,4,6	0.75	45	0.75	Copper	3	1985	$ 66.00	$ 2,970.00	13515	4195	$ 921.88
333	1,4,6	0.75	465	0.75	Copper	31	1990	$ 66.00	$ 30,690.00	13515	4732	$ 10,745.47
333	1,4,6	0.75	660	0.75	Copper	44	1996	$ 66.00	$ 43,560.00	13515	5620	$ 18,113.74
333	1,4,6	0.75	150	0.75	Copper	10	1999	$ 66.00	$ 9,900.00	13515	6059	$ 4,438.34
333	1,4,6	0.75	135	0.75	Copper	9	2000	$ 66.00	$ 8,910.00	13515	6221	$ 4,101.30
333	1,4,6	0.75	225	0.75	Copper	15	2001	$ 66.00	$ 14,850.00	13515	6343	$ 6,969.56
333	1,4,6	0.75	630	0.75	Copper	42	2003	$ 66.00	$ 41,580.00	13515	6694	$ 20,594.64
333	1,4,6	0.75	360	0.75	Copper	24	2004	$ 66.00	$ 23,760.00	13515	7115	$ 12,508.50
333	1,4,6	0.75	1725	0.75	Copper	115	2008	$ 66.00	$ 113,850.00	13515	8310	$ 70,003.22
333	1,4,6	0.75	9105	0.75	Copper	607	2013	$ 66.00	$ 600,930.00	13515	9547	$ 424,497.13
333	1,4,6	0.75	345	0.75	Copper	23	2015	$ 66.00	$ 22,770.00	13515	10031	$ 16,900.18
333	1,4,6	0.75	1275	0.75	Copper	85	2018	$ 66.00	$ 84,150.00	13515	11062	$ 68,876.60
333	1,4,6	0.75	1155	0.75	Copper	77	2020	$ 66.00	$ 76,230.00	13515	11466	$ 64,672.82
333	1,4,6	0.75	2895	0.75	Copper	193	2022	$ 66.00	$ 191,070.00	13515	13007	$ 183,888.09
333	1,4,6	0.75	2010	0.75	Copper	134	2023	$ 66.00	$ 132,660.00	13515	13358	$ 131,118.93
333	5	0.75	3	0.75	Poly	1	1999	$ 44.00	$ 132.00	13515	6059	$ 59.18
334	5,6	1	15	1	Poly	1	2016	$ 44.00	$ 660.00	13515	10339	$ 504.90
335	5	1	397	1	Poly	3	2020	$ 44.00	$ 17,468.00	13515	11466	$ 14,819.69
336	5	2	33.5	2	Poly	1	2018	$ 66.00	$ 2,211.00	13515	11062	$ 1,809.70
337	5	2	76.5	2	Poly	2	2022	$ 66.00	$ 5,049.00	13515	13007	$ 4,859.22
338	5	2	2	2	Poly	5	2023	$ 66.00	$ 132.00	13515	13358	$ 130.47
333	5,6	0.75	15	0.75	Black Plastic	1	2013	$ 44.00	$ 660.00	13515	9547	$ 466.22
333	5	2	2	2	Brass	1	1950	$ 99.00	$ 198.00	13515	510	$ 7.47
333	5	4	4	4	C900	2	2020	$ 108.00	$ 432.00	13515	11466	$ 366.50
333	5	6	4	6	C900	2	2013	$ 113.00	$ 452.00	13515	9547	$ 319.29
333	5,6	8	15	8	C900	1	2013	$ 139.00	$ 2,085.00	13515	9547	$ 1,472.84
333	5,6	8	15	8	C900	1	2015	$ 139.00	$ 2,085.00	13515	10031	$ 1,547.51
333	5,6	8	15	8	C900	1	2023	$ 139.00	$ 2,085.00	13515	13358	$ 2,060.78
333	5,6	6	15	6	C909	1	2022	$ 113.00	$ 1,695.00	13515	13007	$ 1,631.29
333	5	2	48	2	Cast Iron	2	1920	$ 99.00	$ 4,752.00	13515	251	$ 88.25
333	5,6	4	30	4	Cast Iron	2	2001	$ 162.00	$ 4,860.00	13515	6343	$ 2,280.95
333	5	6	19	6	Cast Iron	2	1940	$ 170.00	$ 3,230.00	13515	242	$ 57.84
333	5,6	6	30	6	Cast Iron	2	1970	$ 170.00	$ 5,100.00	13515	1381	$ 521.13
333	5,6	6	30	6	Cast Iron	2	2001	$ 170.00	$ 5,100.00	13515	6343	$ 2,393.58
333	5,6	8	15	8	Cast Iron	1	1970	$ 177.00	$ 2,655.00	13515	1381	$ 271.30
333	5,6	8	15	8	Cast Iron	1	2015	$ 177.00	$ 2,655.00	13515	10031	$ 1,970.57
333	5,6	8	15	8	Cast Iron	1	2020	$ 177.00	$ 2,655.00	13515	11466	$ 2,252.48
333	3,5	0.75	55	0.75	Copper	2	1890	$ 66.00	$ 3,630.00	13515	97	$ 26.05
333	5	0.75	1110	0.75	Copper	75	1920	$ 66.00	$ 73,260.00	13515	251	$ 1,360.58
333	5	0.75	12	0.75	Copper	1	1930	$ 66.00	$ 792.00	13515	203	$ 11.90
333	5	0.75	42	0.75	Copper	4	1940	$ 66.00	$ 2,772.00	13515	242	$ 49.64
333	5	0.75	99	0.75	Copper	7	1950	$ 66.00	$ 6,534.00	13515	510	$ 246.57
333	5	0.75	55	0.75	Copper	1	1970	$ 66.00	$ 3,630.00	13515	1381	$ 370.92
333	5	0.75	77	0.75	Copper	7	1980	$ 66.00	$ 5,082.00	13515	3237	$ 1,217.20
333	5	0.75	18	0.75	Copper	3	1990	$ 66.00	$ 1,188.00	13515	4732	$ 415.95
333	5	0.75	55	0.75	Copper	3	1996	$ 66.00	$ 3,630.00	13515	5620	$ 1,509.48
333	5	0.75	155	0.75	Copper	7	1999	$ 66.00	$ 10,230.00	13515	6059	$ 4,586.28
333	5	0.75	32	0.75	Copper	1	2001	$ 66.00	$ 2,112.00	13515	6343	$ 991.23
333	5	0.75	81	0.75	Copper	10	2008	$ 66.00	$ 5,346.00	13515	8310	$ 3,287.11
333	5	0.75	215	0.75	Copper	7	2013	$ 66.00	$ 14,190.00	13515	9547	$ 10,023.82
333	5	0.75	132	0.75	Copper	3	2015	$ 66.00	$ 8,712.00	13515	10031	$ 6,466.15
333	5	0.75	142	0.75	Copper	2	2016	$ 66.00	$ 9,372.00	13515	10339	$ 7,169.60
333	5	0.75	4	0.75	Copper	2	2018	$ 66.00	$ 264.00	13515	11062	$ 216.08
333	5	0.75	194	0.75	Copper	11	2020	$ 66.00	$ 12,804.00	13515	11466	$ 10,862.79
333	5	0.75	53	0.75	Copper	2	2022	$ 66.00	$ 3,498.00	13515	13007	$ 3,366.52
333	5	0.75	152	0.75	Copper	8	2023	$ 66.00	$ 10,032.00	13515	13358	$ 9,915.46
333	5	1	298	1	Copper	22	1920	$ 80.00	$ 23,840.00	13515	251	$ 442.76
333	5,6	1	15	1	Copper	1	1930	$ 80.00	$ 1,200.00	13515	203	$ 18.02
333	5	1	49	1	Copper	3	1950	$ 80.00	$ 3,920.00	13515	510	$ 147.92
333	5	1	122	1	Copper	15	1970	$ 80.00	$ 9,760.00	13515	1381	$ 997.30
333	5	1	66	1	Copper	3	1980	$ 80.00	$ 5,280.00	13515	3237	$ 1,264.62
333	5	1	77	1	Copper	4	1990	$ 80.00	$ 6,160.00	13515	4732	$ 2,156.80
333	5	1	86	1	Copper	2	1996	$ 80.00	$ 6,880.00	13515	5620	$ 2,860.94
333	5	1	201	1	Copper	14	1999	$ 80.00	$ 16,080.00	13515	6059	$ 7,208.93
333	5	1	22	1	Copper	7	2001	$ 80.00	$ 1,760.00	13515	6343	$ 826.02
333	5	1	194	1	Copper	7	2008	$ 80.00	$ 15,520.00	13515	8310	$ 9,542.82
333	5,6	1	30	1	Copper	2	2016	$ 80.00	$ 2,400.00	13515	10339	$ 1,836.00
333	5	1	3	1	Copper	1	2018	$ 80.00	$ 240.00	13515	11062	$ 196.44
333	5	1	433	1	Copper	23	2020	$ 80.00	$ 34,640.00	13515	11466	$ 29,388.25
333	5	1	28	1	Copper	2	2023	$ 80.00	$ 2,240.00	13515	13358	$ 2,213.98
333	5,6	1.5	15	1.5	Copper	1	2016	$ 90.00	$ 1,350.00	13515	10339	$ 1,032.75
334	3,5	2	3	2	Copper	5	1890	$ 120.00	$ 360.00	13515	97	$ 2.58
333	5	2	24	2	Copper	2	1920	$ 120.00	$ 2,880.00	13515	251	$ 53.49
333	5,6	2	45	2	Copper	3	1970	$ 120.00	$ 5,400.00	13515	1381	$ 551.79
333	5,6	2	60	2	Copper	4	1999	$ 120.00	$ 7,200.00	13515	6059	$ 3,227.88
333	5,6	2	15	2	Copper	1	2015	$ 120.00	$ 1,800.00	13515	10031	$ 1,335.98
333	5	2	37	2	Copper	1	2020	$ 120.00	$ 4,440.00	13515	11466	$ 3,766.85
333	5,6	6	15	6	Ductile Iron	1	1999	$ 198.00	$ 2,970.00	13515	6059	$ 1,331.50
333	5	6	6	6	Ductile Iron	2	2020	$ 198.00	$ 1,188.00	13515	11466	$ 1,007.89
333	3,5,6	8	15	8	Ductile Iron	1	1890	$ 207.00	$ 3,105.00	13515	97	$ 22.29
333	5,6	8	90	8	Ductile Iron	6	1999	$ 207.00	$ 18,630.00	13515	6059	$ 8,352.14
333	5,6	8	15	8	Ductile Iron	1	2001	$ 207.00	$ 3,105.00	13515	6343	$ 1,457.27
333	5	0.75	27	0.75	Galvanized	1	1920	$ 65.00	$ 1,755.00	13515	251	$ 32.59
333	5,6	3	105	3	Galvanized	7	1970	$ 131.00	$ 13,755.00	13515	1381	$ 1,405.52
333	5,6	2	15	2	HDPE	1	2015	$ 66.00	$ 990.00	13515	10031	$ 734.79
333	5,6	2	15	2	Iron Pipe	1	2020	$ 116.00	$ 1,740.00	13515	11466	$ 1,476.20
333	1,2	1	61	0.625	Lead	5	1920	$ -	$ -	13515	251	$ -
333	1,2	1	33	0.75	Lead	6	1920	$ -	$ -	13515	251	$ -
333	1,2	1	37	1	Lead	1	1920	$ -	$ -	13515	251	$ -
333	1,2	2	38	2	Lead	2	1920	$ -	$ -	13515	251	$ -
333	5,6	2	0	2	PVC	1	2016	$ 66.00	$ -	13515	10339	$ -
333	5,6	4	15	4	PVC	1	2020	$ 108.00	$ 1,620.00	13515	114666	$ 13,744.65
											TOTAL Account No. 333 Services	**$ 1,121,006.04**

Notes:

1. Service line age has been approximated by the age of the main to which the service connects, except where appropriate based upon known material of construction.

2. Lead services have been identified as having no installation cost as their installation is no longer allowed.

3. Services from 1890 use the 1908 ENR number. ENR only extends back to 1908.

4. Where material is unknown, residential services have been assumed to be 3/4" Copper Services.

5. Service line serves an industrial or commercial user.

6. Where total linear footage was unavailable, an average service length of 15' has been assumed.

Greenville Municipal Water Authority, Mercer County, Pennsylvania
Original Cost of Water System
March 2024
Account No. 341 Transportation Equipment

Account No.	Notes	Description	VIN	Year Constructed	Quantity	Units	Unit Price	Original Cost
		Transportation Equipment						
341	1	F-150 Super Cab 4X4 Pickup Truck-68,000 miles	1FTEX1EM6DFC36383	2013	1	EA	$ 12,899.00	$ 30,000
341	1	F-150 Super Cab 4X4 Pickup Truck-57,000 miles	1FTEX1EP6HFB90361	2017	1	EA	$ 19,083.00	$ 37,080.00
341	1	F-150 Super Cab 4X4 Pickup Truck-10,800 miles	1FTEX1EP3MKD59219	2021	1	EA	$ 33,066.00	$ 39,834.00
341	1,2	F-550 Dump Truck	1FDAF56S8XEB25409	1999	1	EA		$ 27,170.00
341	1,2	F-550 Dump Truck	1FDUF5HY0JEC10623	2018	1	EA		$ 37,550.00
341	1,3	Parker Trailer	13ZHS101181001086	2007	1	EA		$ 3,000.00
							TOTAL Account No. 341 Transportation Equipment	**$ 174,634.00**

Notes:

1. EA -Each

2. No current cost estimated, original MSRP listed

3. Estimated original MSRP based on comparable trailers on the market. Tow behind, single axle, 2,995 GVWR

Greenville Municipal Water Authority, Mercer County, Pennsylvania
Original Cost of Water System
March 2024
Account No. 310 Power Generation Equipment

Account No.	Notes	Description	Year Constructed	Quantity	Units	Unit Price	Current Evaluation	Current ENR Construction Cost Index	Old ENR Construction Cost Index	Original Cost
		Power Generation Equipment								
310	1	John Deere 200 KW Tagalong Diesel Generator	2020	1	EA	$ 112,739.00	$ 112,739.00	13515	11,466	$ 95,646.72
									TOTAL Account No. 310 Power Generation Equipment	**$ 95,646.72**

Notes:

1. EA - Each

Greenville Municipal Water Authority, Mercer County, Pennsylvania
Original Cost of Water System
May 2025
Meters

Account No.	Notes	Description	Year Purchased	Quantity	Units	Unit Price	Current Cost	Current ENR Index	Old ENR Index	Original Cost
		Transportation Equipment								
5/8"	1	5/8" Meter Sensus Sr II	2008	2140	EA	$ 496,480.00	$ 232.00	6257	2891	$ 229,395
3/4"	1	3/4" Meter Sensus Sr II	2008	33	EA	$ 7,656.00	$ 232.00	6257	2891	$ 3,537
5/8" X 3/4"	1	5/8" X 3/4" Meter Sensus SR II	2008	424	EA	$ 98,368.00	$ 232.00	6257	2891	$ 45,450
1"	1	1" Omni Meter	2008	60	EA	$ 13,200.00	$ 220.00	6257	2891	$ 6,099
1 1/2"	1	1 1/2" Omni	2008	9	EA	$ 8,550.00	$ 950.00	6257	2891	$ 3,950
2"	1	2" Omni	2008	18	EA	$ 19,800.00	$ 1,100.00	6257	2891	$ 9,148
3"	1	3" Omni	2008	4	EA	$ 5,600.00	$ 1,400.00	6257	2891	$ 2,587
4"	1	4" Omni	2008	1	EA	$ 2,400.00	$ 2,400.00	6257	2891	$ 1,109
						TOTAL meters				**$ 301,276.67**

Notes:

1. EA -Each

ENR'S CONSTRUCTION COST INDEX HISTORY (1990-2024)

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
1990	4680	4685	4691	4693	4707	4732	4734	4752	4774	4771	4787	4777	**4732**
1991	4777	4773	4772	4766	4801	4818	4854	4892	4891	4892	4896	4889	**4835**
1992	4888	4884	4927	4946	4965	4973	4992	5032	5042	5052	5058	5059	**4985**
1993	5071	5070	5106	5167	5262	5260	5252	5230	5255	5264	5278	5310	**5210**
1994	5336	5371	5381	5405	5405	5408	5409	5424	5437	5437	5439	5439	**5408**
1995	5443	5444	5435	5432	5433	5432	5484	5506	5491	5511	5519	5524	**5471**
1996	5523	5532	5537	5550	5572	5597	5617	5652	5683	5719	5740	5744	**5620**
1997	5765	5769	5759	5799	5837	5860	5863	5854	5851	5848	5838	5858	**5826**
1998	5852	5874	5875	5883	5881	5895	5921	5929	5963	5986	5995	5991	**5920**
1999	6000	5992	5986	6008	6006	6039	6076	6091	6128	6134	6127	6127	**6059**
2000	6130	6160	6202	6201	6233	6238	6225	6233	6224	6259	6266	6283	**6221**
2001	6281	6272	6279	6286	6288	6318	6404	6389	6391	6397	6410	6390	**6343**
2002	6462	6462	6502	6480	6512	6532	6605	6592	6589	6579	6578	6563	**6538**
2003	6581	6640	6627	6635	6642	6694	6695	6733	6741	6771	6794	6782	**6694**
2004	6825	6862	6957	7017	7065	7109	7126	7188	7298	7314	7312	7308	**7115**
2005	7297	7298	7309	7355	7398	7415	7422	7479	7540	7563	7630	7647	**7446**
2006	7660	7689	7692	7695	7691	7700	7721	7722	7763	7883	7911	7888	**7751**
2007	7880	7880	7856	7865	7942	7939	7959	8007	8050	8045	8092	8089	**7966**
2008	8090	8094	8109	8112	8141	8185	8293	8362	8557	8623	8602	8551	**8310**
2009	8549	8533	8534	8528	8574	8578	8566	8564	8586	8596	8592	8641	**8570**
2010	8660	8672	8671	8677	8761	8805	8844	8837	8836	8921	8951	8952	**8799**
2011	8938	8998	9011	9027	9035	9053	9080	9088	9116	9147	9173	9172	**9070**
2012	9176	9198	9268	9273	9290	9291	9324	9351	9341	9376	9398	9412	**9308**
2013	9437	9453	9456	9484	9516	9542	9552	9545	9552	9689	9666	9668	**9547**
2014	9664	9681	9702	9750	9796	9800	9835	9846	9870	9886	9912	9936	**9807**
2015	9972	9962	9972	9992	9979	10039	10037	10039	10065	10128	10092	10092	**10031**
2016	10133	10182	10242	10280	10315	10337	10379	10385	10403	10435	10442	10530	**10339**
2017	10542	10559	10667	10678	10692	10703	10789	10826	10823	10817	10870	10873	**10737**
2018	10878	10889	10959	10972	11013	11069	11116	11124	11170	11183	11184	11186	**11062**
2019	11206	11213	11228	11228	11230	11268	11293	11311	11311	11326	11381	11381	**11281**
2020	11392	11396	11397	11412	11418	11436	11439	11455	11499	11539	11579	11626	**11466**
2021	11628	11699	11750	11849	11990	12112	12237	12463	12464	12464	12467	12481	**12134**
2022	12556	12684	12791	12899	13004	**13111**	**13168**	**13171**	**13173**	**13175**	**13175**	13175	**13007**
2023	13175	13176	13176	13230	13288	13345	13425	13473	13486	13498	13511	13515	**13358**
2024	13515												

ENR ANNUAL AVERAGE (1908-2023)

YEAR	AVG	YEAR	AVG	YEAR	AVG	YEAR	AVG	YEAR	AVG
1908	97	**1934**	198	**1960**	824	**1986**	4295	**2012**	9308
1909	91	**1935**	196	**1961**	847	**1987**	4406	**2013**	9547
1910	96	**1936**	206	**1962**	872	**1988**	4519	**2014**	9807
1911	93	**1937**	235	**1963**	901	**1989**	4615	**2015**	10031
1912	91	**1938**	236	**1964**	936	**1990**	4732	**2016**	10339
1913	100	**1939**	236	**1965**	971	**1991**	4835	**2017**	10737
1914	89	**1940**	242	**1966**	1019	**1992**	4985	**2018**	11062
1915	93	**1941**	258	**1967**	1074	**1993**	5210	**2019**	11281
1916	130	**1942**	276	**1968**	1155	**1994**	5408	**2020**	11466
1917	181	**1943**	290	**1969**	1269	**1995**	5471	**2021**	12134
1918	189	**1944**	299	**1970**	1381	**1996**	5620	**2022**	13007
1919	198	**1945**	308	**1971**	1581	**1997**	5826	**2023**	13358
1920	251	**1946**	346	**1972**	1753	**1998**	5920	**2024**	
1921	202	**1947**	413	**1973**	1895	**1999**	6059	**2025**	
1922	174	**1948**	461	**1974**	2020	**2000**	6221	**2026**	
1923	214	**1949**	477	**1975**	2212	**2001**	6343	**2027**	
1924	215	**1950**	510	**1976**	2401	**2002**	6538	**2028**	
1925	207	**1951**	543	**1977**	2576	**2003**	6694	**2029**	
1926	208	**1952**	569	**1978**	2776	**2004**	7115	**2030**	
1927	206	**1953**	600	**1979**	3003	**2005**	7446	**2031**	
1928	207	**1954**	628	**1980**	3237	**2006**	7751	**2032**	
1929	207	**1955**	660	**1981**	3535	**2007**	7966	**2033**	
1930	203	**1956**	692	**1982**	3825	**2008**	8310	**2034**	
1931	181	**1957**	724	**1983**	4066	**2009**	8570	**2035**	
1932	157	**1958**	759	**1984**	4146	**2010**	8799	**2036**	
1933	170	**1959**	797	**1985**	4195	**2011**	9070	**2037**	

HOW ENR BUILDS THE INDEX: 200 hours of common labor at the 20-city average of common labor rates, plus 25 cwt of standard structural steel shapes at the mill price prior to 1996 and the fabricated 20-city price from 1996, plus 1.128 tons of portland cement at the 20-city price, plus 1,088 board ft of 2 x 4 lumber at the 20-city price.

Exhibit 1
Water Service Area Map

PUBLIC COPY

SYSTEM MAPS – REMOVED FOR CONFIDENTIALITY.

SYSTEM MAPS WILL BE FILED WITH THE CONFIDENTIAL DOCUMENTS.

Exhibit 2
Metes and Bounds

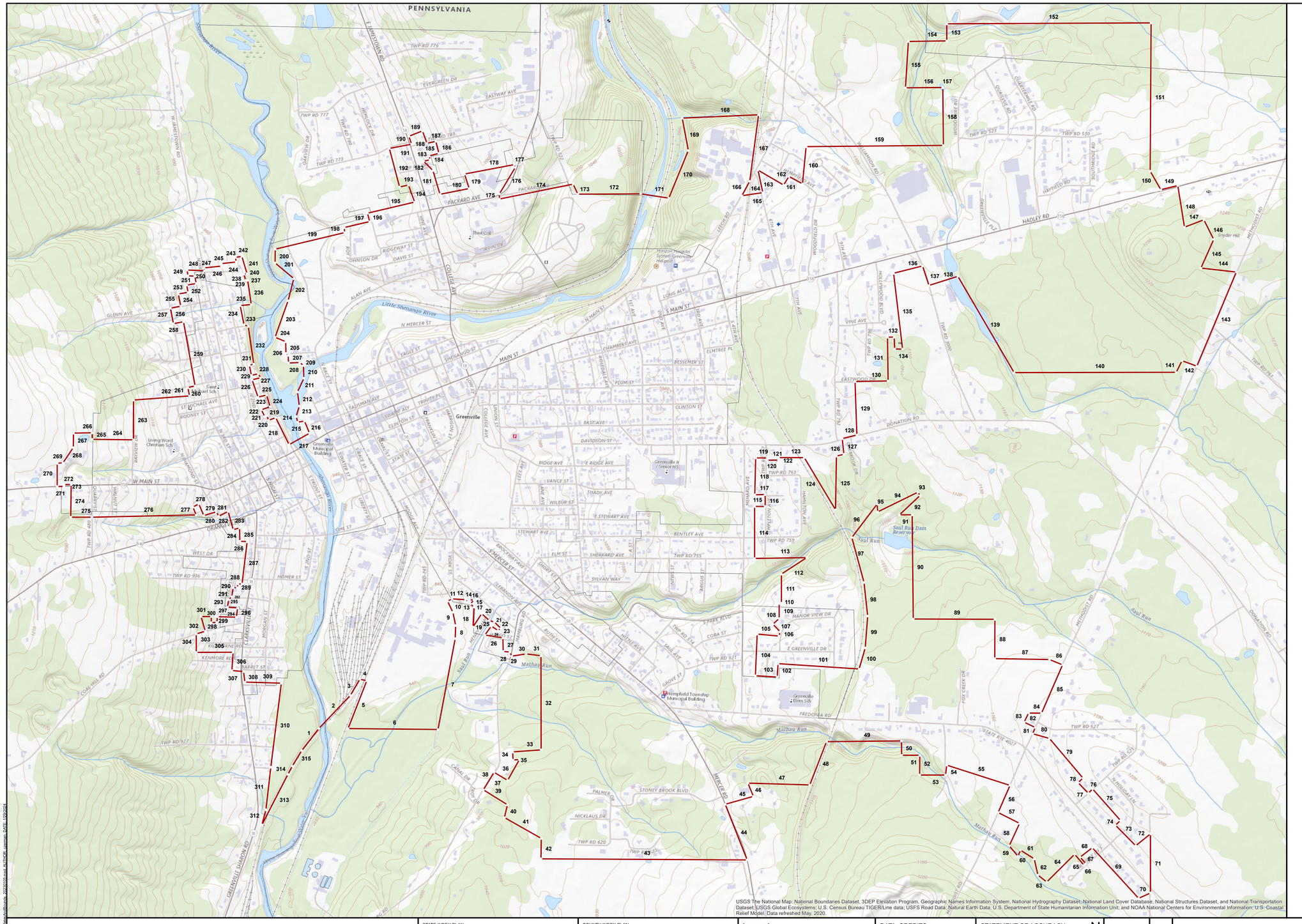

PENNSYLVANIA
Shenango River
Little Shenango River
Greenville
W MAIN ST
MAIN ST
N MERCER ST
COLLEGE AVE
PACKARD AVE
HADLEY RD
Thiel Coll
Saint Michael Sch
Living Word Christian Sch
Greenville Municipal Building
Greenville Jr/Senior HS
Horizon Hospital System-Greenville Hollgwood
Hempfield Township Municipal Building
Greenville Elem Sch
Saul Run Dam Reservoir
Saul Run
Mathay Run
Little Shenango River
Shenango River Lake
Greenville Diamond Rd
Coal Hill Rd
Methodist Rd
Donation Rd
Mercer Rd
Hollywood Rd
Woodfield Dr
Williamson Rd
Leech Rd
Fox Creek Dr
Manor View Dr
Stoney Brook Blvd
Canal Rd
Fredonia Rd
Hartfield Rd
Southridge Rd
Guilford Rd
Twp Rd 922
Twp Rd 763
Twp Rd 759
Twp Rd 620
Twp Rd 527
Twp Rd 523
Twp Rd 530
Twp Rd 574
Twp Rd 921
Twp Rd 927
Twp Rd 936
Twp Rd 925
Twp Rd 779
Twp Rd 777
Twp Rd 783
Twp Rd 773
Twp Rd 760
Twp Rd 755
Twp Rd 2000
State Rte 4027
Evergreen Dr
Fastway Ave
Oakview Dr
Ridgeway St
Johnson Dr
Davis St
Irvin Dr
Alan Ave
Glenn Ave
Eagle St
Shenango St
Rooney St
Michael St
Talisman Alley
Tributy Pl
Clinton St
Harrison St
Franklin St
Union St
Lee Ave
Baker St
Smith St
Jefferson St
Grant St
Lincoln St
Jackson St
Madison St
Monroe St
Harvey Ave
Hamilton St
Grandview Ave
Chestnut St
West Dr
Homer St
Morgan St
Larkspur Ln
Kenmore Rd
Garrett St
Ridge Ave
Vance St
Wilbur St
Shady Ave
E Stewart Ave
Stewart Ave
Bentley Ave
Elm St
Sherrard Ave
Sylvan Way
Sport St
Rush St
Hamburg Rd
Cora St
Park Blvd
Grove St
Sale Ave
Hillside Dr
Manor View Dr
E Greenville Dr
Fredonia Rd
Chambers Ave
Rosedale Ave
Plum St
Bessemer St
Elmtree Pl
Vine Ave
Long Alley
S Main St
E Main St
Eastwood Dr
Donation Rd
Clinton St
East Ave
Davidson

Exhibit 3

Water System Map with Municipal Boundaries

PUBLIC COPY

SYSTEM MAPS – REMOVED FOR CONFIDENTIALITY.

SYSTEM MAPS WILL BE FILED WITH THE CONFIDENTIAL DOCUMENTS.

EXHIBIT Q
(Updated)

GREENVILLE MUNICIPAL WATER AUTHORITY

WATER SYSTEM ASSETS

FAIR MARKET VALUE APPRAISAL

AT

MARCH 31, 2024

REFLECTING THE MAY 2025 INVENTORY REVISION

Prepared by:

GANNETT FLEMING

Gannett Fleming
Valuation and Rate Consultants, LLC

300 Sterling Parkway, Suite 200
Mechanicsburg, PA 17050

June 12, 2025

Via email to WCPackerJr@essential.co

Mr. William C. Packer
Vice President Controller
Aqua Pennsylvania, Inc.
762 W. Lancaster Ave
Bryn Mawr, PA 19010

Dear Mr. Packer:

Fair Market Value Appraisal

In accordance with your request, we have prepared a fair market value appraisal of the Greenville Municipal Water Authority's water system assets ("Water System") consistent with the date of the Engineer's Assessment and reflecting the May 2025 inventory revision.

Fair market value is defined as "the price, expressed in terms of cash equivalents, at which property would change hands between a hypothetical willing and able buyer and a hypothetical willing and able seller, acting at arm's length in an open and unrestricted market, when neither is under compulsion to buy or sell and when both have reasonable knowledge of the relevant facts." (The International Glossary of Business Valuation Standards)

Based on our analysis, as described in the attached appraisal report, we are of the opinion that the fair market value of the Water System is $33.5 million ($33,497,679 rounded), as of March 31, 2024.

Our appraisal was developed consistent with the Uniform Standards of Professional Appraisal Practices. Our fair market value appraisal of the Water System was based on the Cost, Market, and Income Approaches to valuation. We used seven methods under the Cost, Market, and Income Approaches to valuation: Original Cost Method, Replacement Cost Method, Capitalization of Earnings Method, Market Multiple Discounted Cash Flow Method, Capitalization Discounted Cash Flow Method, Market Multiples Method, and the Selected Transactions Method.

The attached narrative appraisal presents our findings and opinion regarding the fair market value of the Water System's assets of March 31, 2024. The report describes the valuation methodologies employed and the Exhibits that present the valuation results.

The results of the analyses and calculations completed for each applicable approach are detailed throughout the report and the Exhibits and are summarized below.

Valuation Approach	Indicated Value
Cost Approach	$46,212,970
Income Approach	26,079,251
Market Approach	28,200,815

We thank Aqua for this opportunity to provide valuation services in connection with the fair market value appraisal of the Water System's assets.

Respectfully Submitted,

GANNETT FLEMING VALUATION
AND RATE CONSULTANTS, LLC

HAROLD WALKER, III
Manager, Financial Studies

HW:mle

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INTRODUCTION

Introduction and Summary. The following narrative report presents our findings and opinion regarding the fair market value of the water system assets of the Greenville Municipal Water Authority ("GMWA") as of March 31, 2024, reflecting the Engineers Assessment's May 2025 inventory revision. This report describes the valuation methodologies employed and the Exhibits that present the valuation results. Our conclusion of value is based upon the values indicated by the Cost, Income, and Market approaches to valuation. During our analysis we found measures of value that ranged from $26.1 million to $46.2 million. Based upon our analyses, we are of the opinion that the fair market value of GMWA's water system assets is $33.5 million ($33,497,679 rounded), as of March 31, 2024.

Description of the Assignment. Gannett Fleming Valuation and Rate Consultants, LLC was retained by Aqua Pennsylvania, Inc. ("Aqua") to estimate the fair market value of the GMWA's water system assets ("Water System"), as of March 31, 2024, in compliance with the Uniform Standards of Professional Appraisal Practices ("USPAP"), considering the cost, market, and income approaches to valuation reflecting the Engineers Assessment's May 2025 inventory revision.

Intended Use of the Valuation. The intended use of the valuation is to comply with 66 Pa. C.S. Section 1329, Valuation of Acquired Water and Wastewater Systems and conduct a fair market value appraisal of the Water System in compliance with the USPAP, employing the cost, market, and income approaches. Although our appraisal is intended to estimate fair market value, we assume no responsibility for the inability of the seller or buyer to obtain a sale or purchase contract at that price.

Standard and Premise of Value. The standard of value for this engagement is fair market value.[1] Fair market value is defined as "the price, expressed in terms of cash equivalents, at which property would change hands between a hypothetical willing and able buyer and a hypothetical willing and able seller, acting at arm's length in an open and unrestricted market, when neither is under compulsion to buy or sell and when both have reasonable knowledge of the relevant facts."[2]

As stated, the standard of value for this engagement is fair market value. The premise of value is the going concern. The going concern premise of business value assumes that the business will continue running normally using all its assets to produce income and will continue running normally as a viable entity for the foreseeable future (i.e., not liquidated).

We valued the Water System's assets as a group under the premise that the assets collectively comprise an ongoing operating business enterprise. Additionally, in accordance with 66 Pa. C.S. Section 1329, the original source of funding for any part of the Water System's assets was not relevant to the determination of the value of said assets.

Subject Interest. This subject is fee simple interest, is marketable but is not a liquid interest. The binding agreement governing this transaction is the asset purchase agreement.

Effective Date. The valuation date or effective date is the date on which the appraisal of the Water System applies. The effective date is March 31, 2024.

Date of Report. The date of the report is the date on which the appraisal is transmitted to the client. The date of the report is June 12, 2025.

1 Pratt, Shannon P. "Defining Standards of Value." Valuation 34, no. 2, June 1989. http://www.appraisers.org/docs/default-source/college-of-fellows-articles/defining-standards-of-value.pdf .
2 National Association of Certified Valuators and Analysts, s.v. "Fair Market Value," *The International Glossary of Business Valuation Terms*

Client and Users. The client is Aqua Pennsylvania, Inc. The intended users of the valuation are Aqua Pennsylvania, Inc., and the Pennsylvania Public Utility Commission ("PUC").

Type of Property. The Water System is a potable public water system permitted by the Commonwealth of Pennsylvania as a public water system that provides potable water service in Greenville Borough, part of Hempfield Township, part of West Salem Township, and part of Sugar Grove Township in Mercer County, Pennsylvania. The Water System is a special purpose property.

Special Purpose Property. The Water System is considered a special purpose property. Special purpose property is property that has limited use, is uniquely designed, or has other features that limit the property's use for purposes other than the one for which it was built and has no widespread market for the type of property. Examples of special purpose property include churches, schools, and public utilities.[3] Special purpose property often have special process-related equipment installed (e.g., filters, pumps, chemical systems, etc.) that cannot be removed without significantly altering the property's improvements. The function of the Water System is the filtration and treatment process of raw, untreated water into potable water for delivery to customers in Mercer County, Pennsylvania. The Water System was specially built for the specific purposes for which it was designed and continues to be used for those purposes.

Highest and Best Use. The highest and best use for the Water System is as a public water system. Since the property is specifically designed, configured, and constructed solely as a public water system, no alternate highest and best use was considered.

3 "Special-Purpose Property Law and Legal Definition," *USLegal, Inc.* Accessed 6/1/23. https://definitions.uslegal.com/s/special-purpose-property/#:~:text=This%20type%20of%20property%20has,for%20which%20it%20was%20built.

Market Participants. The market participants expected to be a buyer in a fair and open negotiation to purchase the Water System are assumed to include large investor-owned utilities ("IOU") and larger regional municipal authorities ("MUNI") that are involved in owning and/or operating other water and/or wastewater systems.

Market Exposure. The time duration of market exposure for a sale, or asset purchase agreement, is estimated at one year.

Condition. Gannett Fleming relied on the engineering assessment of the Water System's facilities report, "The Municipal Authority of The Borough of Greenville, Greenville Borough, Pennsylvania, Engineering Assessment," dated May 28, 2025, and related files prepared by Entech Engineering, Inc., ("Engineering Assessment"), to confirm the condition of the Water System's property and equipment. According to the Engineering Assessment, Entech Engineering, Inc. found the Water System to be in excellent to fair condition.

Jurisdictional Exceptions. In accordance with 66 Pa. C.S. Section 1329, and PUC rules, the acquiring public utility and selling utility jointly retain a licensed engineer to conduct an assessment of the tangible assets of the system (i.e., Engineering Assessment) to be acquired. The Engineering Assessment is required to be used by the appraiser in determining fair market value. The Engineering Assessment provides both a condition assessment and original cost inventory of the assets. Additionally, the PUC requires the results of each valuation approach to be weighed evenly in reaching a conclusion of value unless good cause is given.

Extraordinary Assumptions. There were no extraordinary assumptions required for this appraisal.

Hypothetical Conditions. There were no hypothetical conditions assumed for this appraisal.

Limiting Conditions. We accepted all information and data provided by Aqua and or GMWA as it pertains to this assignment "as is" after a limited review. That is, we neither audited nor verified any data, engineering assessment, financial record or operating data provided for this assignment. We assumed all title to all assets included in the appraisal is good and marketable, no hidden defects in the property or soil and no hazardous conditions or materials exist which could affect the assets. We are not an environmental consultant or auditor, and we take no responsibility for any actual or potential environmental liabilities. We have not made a specific compliance survey or analysis of the subject property to determine whether it is subject to, or in compliance with, the American Disabilities Act of 1990, and this valuation does not consider the effect, if any, of noncompliance.

The economic and industry information and data included in this report have been obtained from various printed or electronic reference sources that we believe to be reliable. We have not performed any corroborating procedures to substantiate that information and data.

Site Inspection. We viewed or observed the Water System's facilities on July 2, 2024. We also relied on Engineering Assessment of the Water System to confirm the condition of the Water System's property and equipment.

Fiduciary Duty. Gannett Fleming has a fiduciary duty to, and does provide a thorough, objective, and fair market valuation using the cost, market, and income approaches in accordance with 66 Pa. C.S. Section 1329 and Pennsylvania laws.

Gannett Fleming attests that it does not derive any material financial benefit from the sale of, or purchase of, a selling utility other than fees for services rendered. Gannett Fleming also verifies it does not have any immediate family members who are directors, officers, or employees of either an acquiring public utility, entity or selling utility within a 12-month period of the date

of hire to perform this appraisal. We further affirm that Gannett Fleming is not directly or indirectly owned, partnered or in any way affiliated with a water/wastewater distribution company.

Sources of Information. The following sources of information were reviewed during the assignment:

"The Municipal Authority of The Borough of Greenville, Greenville Borough, Pennsylvania, Engineering Assessment," dated May 28, 2025, and related files prepared by Entech Engineering, Inc.;

GMWA provided electronic files (e.g., PDF and/or Excel);

GMWA's Audited Financials (2020-2023);

GMWA's Budget (2024);

Asset Purchase Agreement;

GMWA's Customer List;

GMWA's Maps;

The Municipal Authority of The Borough Of Greenville, Mercer County, Pennsylvania, 2023 Water System Annual Report & 2024 Operating Budget;

GMWA's water quality reports (2022 and 2023);

GMWA's Primary Facility Reports (2021 and 2022);

GMWA's Fee Schedule;

Blue Chip Financial Forecasts;

US Census Bureau, various data files;

Value Line Investment Survey; and

S&P Capital IQ.

Description of the Borough of Greenville. The Borough of Greenville is in northwestern Mercer County, near the western border of Pennsylvania. The Borough of Greenville is bordered by West Salem Township on its west and Hempfield Township on its north, east and south, and is bisected by the Shenango River. The Borough of Greenville is the 38th largest land mass of Mercer County's 48 municipalities and was the 4th most populous with 5,272 people (2019) and 2,243 housing units (2018). The Borough of Greenville consists of 1.9 square miles and lies approximately 80 miles north-northwest of Pittsburgh, Pennsylvania. According to U.S. Census figures, the Borough of Greenville's population shrank 6.4% from 2010 to 2020, while population in Pennsylvania grew 2.4% and Mercer County's population shank 5.1%.

Description of the Greenville Municipal Water Authority. The Greenville Municipal Water Authority was incorporated in 1942 pursuant to an Ordinance of the Borough of Greenville. The GMWA is not a component unit of the Borough of Greenville. The GMWA operates under a five member board of directors appointed by appointed by the Borough of Greenville Council.

Description of the Water System. The GMWA owns, operates, and maintains the Water System which consists of a water treatment plant ("WTP"), a booster pump station, five storage tanks, about 40 miles of distribution mains, over 200 fire hydrants, associated infrastructure and appurtenances, and related land and land rights. The Water System directly serves 2,951 existing customer in the Borough of Greenville, part of Hempfield Township, part of West Salem Township, and part of Sugar Grove Township in Mercer County, Pennsylvania.

The Water System's WTP, located in the Borough of Greenville, was initially built in the 1990s. The WTP's intake draws from the Shenango River with a permitted capacity of 2.016 million gallons per day ("MGD"). The pumping capacity of the raw and finished water is 1,400 gallons per minute ("GPM"). Various chemicals are used on-site for pre-treatment, iron and

manganese suspension, and disinfection. In 1995, an upgrade was made to the WTP to treat backwash water from the clarifiers and filters. Treated water from the system is reintroduced to the Shenango River. Sludge cake from the belt filter press is hauled away for land application.

The booster pump station, constructed in 2024, has two pumps with a capacity of 500 GPM and a generator. The booster pump station is in the Borough of Greenville.

The Water System's five water storage tanks include the West Tank 237,000-gallon ground storage tank (installed 1914), the South Tank 750,000-gallon ground storage tank (installed 1953), the North Tank 750,000-gallon ground storage tank (installed 1953), the East Tank #1 250,000-gallon standpipe storage tank (installed 1977), and the East Tank #2 1,000,000-gallon standpipe storage tank (installed 2011). The Water System's West Tank, South Tank, and North Tank are located on one parcel on the west side of the Borough of Greenville and the East Tank #1 and East Tank #2 are located on one parcel on the east side of the Borough of Greenville.

The Water System's 236,360 linear feet of water mains was installed between 1890 to 2023. About 20% of the mains are 4-inch or less, 57% are 6-inch or 8-inch, and 23% 10-inch or more. About 3% of the mains were installed in 1890, 8% were installed in the 1920s and 1930s, 7% were installed in the 1940s and 1950s, 19% were installed in the 1960s and 1970s, 14% were installed in the 1980s and 1990s, and 49% were installed since 2000. About 42% of the mains consist of polyvinyl chloride (PVC), 21% ductile iron pipe (DIP), and 21% cast iron pipe (CIP). The Water System also has 212 public and private fire hydrants, 601 valves, and 2,951 customer services and meters.

The Water System's unaccounted for water averaged 27% between 2017 and 2021 and decreased to 22% in 2022 and 2023 because of the 2022 and 2023 main replacement programs.

Regardless of this fact, the Water System's unaccounted for water is slightly above typical water system water loss.

The GMWA utilizes a proprietary fund type measurement to account for the Water System's operations. The GMWA's financial statements reflect the use of full accrual accounting, which measures revenues when earned and expenses when a liability is incurred, regardless of the timing of related cash flows.

During our analysis, we used GMWA's audited financial statements which encompassed the years 2020 to 2023. For the year ended December 31, 2023 (shown on Exhibit 1) the Water System reported revenues of $2.227 million and expenses of $1.837 million. At the same point in time, the Water System was capitalized with $14.110 million of fund equity and $6.713 million of debt. At the same point in time, the Water System had total assets of $20.800 million, including $18.606 million of net utility plant.

The Water System is exempt from PUC regulation as a municipal utility. The Water System's rate requirements are established by the needed funds to run the system. Most municipalities, including Water System, use a Government Accounting Standards Board ("GASB") process of accounting or the Pennsylvania Department of Community and Economic Development ("DCED") versus Financial Accounting Standards Board ("FASB") method of accounting used by IOUs. Municipalities are not typically concerned with the return on and the return of their investments of their utility systems since they deem, they are providing a public service to their taxpayers. Municipalities typically expense (i.e., maintenance expense) renewals replacement, and customer collection services capital expenditures and they do not typically fully account for the replacement of all capital assets which are all typically capitalized (i.e., construction of capital asset, construction expenditure, etc.) and "booked" at original cost by IOUs.

For these reasons, we do not believe Water System's financial statements should be fully relied upon without recognizing their limitations.

As shown on Exhibit 2, the Water System provides service directly to 2,951 customers (active), sold 144,798,000 gallons (2023) and serviced approximately 3,326 Equivalent Dwelling Units ("EDU"). The Water System provides service to a population of 7,256 people.

Demographics and Growth for the Water System. As shown on Exhibit 3, Table 3.1, according to U.S. Census figures, the U.S. population grew 7.4% from 2010 to 2020, and the population in Pennsylvania grew 2.4%. During this same period, Mercer County's population decreased by 5.1%, and the population of the municipalities that are provided service by the Water System decreased by 5.4% (Exhibit 3, Table 3.2). The population for the municipalities that are provided service by the Water System's population growth would be ranked 1,731 of the 2,572 municipalities in Pennsylvania.

The Census Bureau and planning agencies provide population projections for future time periods. Population projections are a primary indicator of expected future growth, and they help determine predictable demand for utility services, housing, roads, business services and facilities. The Pennsylvania Department of Environmental Protection ("DEP") publishes population projections for the Borough of Greenville, Hempfield Township, and West Salem Township which comprise most of the Water System's service area.[4]

As shown on Page 2 of Exhibit 3, Table 3.3, the municipalities that are provided service by the Water System's population growth is projected to decrease 8.6% from 2020 through 2040. The growth rate of the population for the municipalities that are provided service by the Water

4 Only two Water System customers are in Sugar Grove Township.

System would be ranked 1,866 of the 2,572 municipalities, equal to the lower 27 percent, or 27th percentile of the 2,572 municipalities analyzed by DEP.

Currently, there are approximately 13,466 people (Exhibit 2) in the Water System's service area and 12,358 people in households. There are 5,464 occupied housing units in the Water System's service area, and the ratio of people to households is 2.26 persons per household. The Water System's service area density is 2.5 people per customer based on an estimated service area population of 7,256 and 2,951 customers. The Water System's service area density is lower than the 3.4 per customer density of water and water systems (see Table 2 in this report) indicating higher market penetration.

HISTORY AND NATURE OF THE BUSINESS

Economic Outlook. The valuation date (March 31, 2024) is the specific date at which the value of the Water System is based. Generally, only the circumstances existing at the valuation date and events occurring up to the valuation date are considered. Events which could affect the value may occur after the valuation date.

In the valuation of any company, the general economic outlook as of the valuation date is important since it influences how investors perceive alternative investment opportunities at that point in time. As part of our analysis, we considered the forecasts for the U.S. economy that prevailed as of March 31, 2024. We focused on the forecasts and economic commentary presented in Blue Chip Financial Forecasts in the March 1, 2024, edition. Some of these economic forecasts are presented in Table 1.

Economic Indicators

	Latest Qtr	Consensus Forecasts	
	4Q 2023	1Q 2024	2Q 2024
Key Assumptions			
Real GDP	3.2	2.0	1.4
GDP Price Index	1.6	2.2	2.3
Consumer Price Index	2.7	2.9	2.6
Interest Rates			
3-mo. Treasury Bills	5.52	5.4	5.2
10 Year Notes	4.44	4.2	4.1
30 Year Notes	4.58	4.4	4.3
Aaa Corporate Bond Yield	5.45	5.0	5.0
Baa Corporate Bond Yield	6.07	5.9	5.9
State & Local Bonds	4.52	4.2	4.2
Home Mortgage Rate	7.29	6.8	6.7

Table 1

Industry Review. A review of the industry in which the company operates is important in determining value. The trends and stability of the specific economic environment affecting operations need to be reviewed to gain further insight regarding the prospects and risks associated with the industry and each company.

The water utility industry has a Standard Industrial Classification ("SIC") code of 4941 (Water Supply), has water utilities, and includes establishments primarily engaged in distributing water for sale for residential, commercial, and industrial uses. Government controlled establishments such as municipal service districts and public utilities dominate the industry. Private companies or IOUs are active in the construction and improvement of water supply facilities and infrastructure. There are currently 11,283 U.S. Businesses with a SIC code of 4941.

The water supply industry is the most fragmented of the major utility industries with more than 53,000 community water systems in the U.S. (82% of which serve less than 3,300 customers).

The nation's water systems range in size from large municipally owned systems, such as the New York City water system that serves approximately 9 million people, to small systems, where a few customers share a common well.

A comparative industry to the water supply industry is the wastewater utility industry. The wastewater utility industry has a Standard Industrial Classification ("SIC") code of 4952 (Sewerage Systems), has sewer utilities, and includes establishments primarily engaged in the collection and disposal of wastes conducted through a sewer system, including such treatment processes as may be provided. There are currently 2,104 U.S. Businesses with a SIC code of 4952.

The wastewater utility industry is a fragmented industry, although not as fragmented as the water supply industry. According to the U.S. Environmental Protection Agency's ("EPA") most recent survey of publicly owned wastewater treatment facilities in 2012, there are approximately 15,000 such facilities in the nation, serving approximately 76% of the U.S. population. Eighty percent of domestic wastewater systems are government owned rather than IOUs. Currently, there are no wastewater utility companies that have actively traded stock.

An estimated 14% of all water suppliers are managed or owned by IOUs. IOUs consist of companies with common stock that are either actively traded or inactively traded, as well as companies that are closely held, or not publicly traded. Currently (March 31, 2024), there are only about nine investor-owned water utility companies with publicly traded stock in the U.S.

The water utility industry and wastewater utility industry's increased compliance with state and federal water purity levels and large infrastructure replacements are driving consolidation of the water utility and wastewater utility industries. Because many water utility and wastewater utility operations do not have the means to finance the significant capital expenditures needed to comply with these requirements, many have been selling their operations to larger, financially

stronger operations.

The larger IOUs have been following an aggressive acquisition program to expand their operations by acquiring smaller water and wastewater systems. They enter a new market by acquiring one or several water or wastewater utilities. After their initial entry into a new market, the larger investor-owned water utility companies continually seek to expand their market share and services through the acquisition of water and wastewater utility businesses and operations that can be integrated with their existing operations. Such acquisitions may allow a company to expand market share and increase asset utilization by eliminating duplicate management, administrative, and operational functions. Acquisitions of small, independent utilities can often add earning assets without necessarily incurring the costs associated with the Safe Drinking Water Act ("SDWA") if such acquisitions are contiguous to the potential purchaser.

In summary, the result of increased capital spending, to meet the SDWA and CWA requirements[5] and to replace the aging infrastructure of many systems, has moved the water and wastewater industries toward consolidation. Moreover, Federal and State regulations and controls concerning water quality are still in the process of being developed and it is not possible to predict the scope or the enforceability of regulations or standards which may be established in the future, or the cost and effect of existing and potential regulations and legislation upon the water and wastewater systems. However, as a small to medium sized water system, the Water System faces the cost of compliance with significantly limited financial resources, competing for financial needs

5 The SDWA, or Safe Drinking Water Act, is the principal federal law in the United States intended to ensure safe drinking water for the public. Pursuant to the act, the EPA is required to set standards for drinking water quality and oversee all states, localities, and water suppliers who implement these standards. The CWA, or Clean Water Act, is the primary federal law in the United States governing water pollution. The CWA's objective is to restore and maintain the chemical, physical, and biological integrity of the nation's waters by preventing point and nonpoint pollution sources, providing assistance to publicly owned treatment works for the improvement of wastewater treatment, and maintaining the integrity of wetlands.

against other municipal services and the general unwillingness of elected officials to raise taxes when compared to larger IOU water utilities.

QUANTITATIVE AND QUALITATIVE ANALYSIS

Comparison Review. The comparison review considers the financial and operating statistics for the Water System, and a group of companies ("Comparable Group") that operate in the same basic or similar industry as the Water System. Since no marketplace exists for the common stock of the Water System, an alternative to estimate the value of the Water System is to analyze the price investors are willing to pay for the publicly traded common stock of companies that are similar to the Water System. We list the Comparable Group chosen for study in Table 2.

The companies in the Comparable Group were selected based upon: (1) the availability of financial information; (2) inclusion in the S&P Capital IQ database; (3) a March 31, 2024 market value of common stock, the product of multiplying the closing stock price by the number of common shares outstanding, greater than $350.0 million; (4) a March 31, 2024 total enterprise value (the sum of market value, preferred stock and total debt) greater than $500.0 million; (5) were not the subject of a known acquisition at March 31, 2024; (6) with a Standard Industrial Classification (SIC) of 4941 (i.e., Water Supply Facilities and Infrastructure) and (7) with a North American Industry Classification System (NAICS) of 221310 (i.e., Water Supply and Irrigation Systems). The eight companies ("Comparable Group") that met the criteria for selection are listed in Table 2.

Acquisition Date Size Statistics

	Revenues (Mill. $)	Customers	Population	Customer Density
Greenville Municipal Water Authority	$2.221	2,951	7,256	2.5
Comparable Group				
American States Water Co	$595.699	288,870	1,000,000	3.5
American Water Works Co Inc	4,234.000	3,486,000	14,000,000	4.0
Artesian Resources -CL A	98.861	106,640	325,740	3.1
California Water Service Gp	794.632	553,600	2,000,000	3.6
Essential Utilities, Inc.	2,053.824	1,857,461	5,500,000	3.0
Middlesex Water Co	166.274	125,300	500,000	4.0
SJW Corp	670.363	405,350	1,544,000	3.8
York Water Co	71.031	77,893	209,000	2.7
Median	$633.031	347,110	1,272,000	3.4

Table 2

We believe that similar economic, industry and business risks have affected the Comparable Group as those faced by the Water System. However, consideration must be given to the fact that no two companies are exactly alike. Table 2 presents comparative statistics regarding total revenues, customers, population of the area served, and customer density (population ÷ customers). On average, the Comparable Group is larger than the Water System. The relative size difference between the group and the Water System suggests that the risk of the Water System is greater than the Comparable Group. We discuss the difference in risk resulting from size later in this report.

Financial Review. We conducted a financial review that considered the financial and operating statistics for the Water System and the Comparable Group for the three-year period, 2021 to 2022. It is our opinion that the economic, industry and business risks affecting the Comparable Group selected are similar to those faced by the Water System. However, consideration must be given to the fact that no two companies are exactly alike.

The determination of reasonable water rates and sewer rates for the Comparable Group is subject to rate regulation. For the Comparable Group, rate regulation serves as a substitute for competition in the marketplace since utility companies are precluded from exercising complete control over the price to be charged their customers. Under rate regulation, a cost of service formula is used to set the price for service charged to customers. The cost of service formula equates revenues to the sum of annual operating expenses, taxes other than income, depreciation expense, income taxes, and the product of the rate base times a fair rate of return.

It is the responsibility of the utility seeking changes in rates to present sufficient evidence to their regulators in support of their request. Historically, the Water System's rates have not considered a fair rate of return nor taxes. That is, the Water System's rates would have been higher, and their financial results would have been healthier if they included a provision for a fair rate of return and taxes. Consequently the results of the Water System's historical financial performance shown in Exhibits 4 and 6 should be viewed with this knowledge.

Financial Benchmark Analysis. To gain insight into the risk differences between the Water System and the Comparable Group, we reviewed financial ratios and coverages. Unfortunately, there is no single measure that best indicates investment risk from an investor's perspective. However, from a creditor's viewpoint, the best measure of investment risk is debt rating. The debt rating process generally provides a good measure of investment risk for common

stockholders because the factors considered in the debt rating process are usually relevant factors that a common stock investor would consider in assessing the risk of an investment.

The types of financial benchmarks applied by credit rating agencies such as Standard and Poor's ("S&P") for rating IOU public utility debt are broader than the traditional measure of financial risk, leverage. Besides reviewing the amounts of leverage employed (i.e., percentage of debt used in the capital structure), S&P also focuses on earnings protection and cash flow adequacy. During the period 2021-2023, the Water System's financial benchmark ratios mostly show (Exhibit 4) higher investment risk than the Comparable Group based on coverage and cash flow.

Risk Analysis. A basic premise of finance is the tradeoff between risk and return. That is, the higher the perceived risk, the higher the required return. Conversely, the lower the perceived risk, the lower the required return. From an operations standpoint, the Water System and the Comparable Group are indistinguishable. Both are required to meet SDWA and CWA requirements and are also required to provide safe and reliable services to their customers. However, based on size, the Water System's risk is higher than the Comparable Group given Water System's relatively small size. Table 2 details the size difference between the Water System and the Comparable Group. As shown in Table 2, the Water System is many times smaller than the Comparable Group.

Size is a determinant of risk because the loss of a large customer impacts a small company much more than a large company because a large customer of a small company usually accounts for a larger percentage of the small company's sales. Further, a larger company has much more diversification in customer mix, economic conditions, source of supplies, weather, demographic, and financing than the Water System. Because the larger Comparable Group has a more diverse

geographic operation than the Water System, it enables them to sustain earnings fluctuations caused by adverse weather conditions in one portion of its service territory. Further, the larger Comparable Group has a more diverse customer base and is less susceptible to local downturns associated with regional economic conditions than the Water System.

Exhibit 5, Table 5.1, provides an illustration which shows company size has been inversely related to returns and the volatility of their common stock. Specifically, Ibbotson Associates sorted 2,966 publicly traded common stocks based on size of market value (market price multiplied by the number of shares) and placed them into four different portfolios (quartiles). The common stock quartile return, and the resultant size premium, column B, increased at an increasing rate as you move from a larger stock quartile to a smaller stock quartile. Similarly, the total risk, or standard deviation of annual returns (a measure of risk), also increased with decreasing company size (column C).

The Comparable Group's market value on March 31, 2024, ranged from $380 million to $23,801 million as shown on Table 5.2 of Exhibit 5. Based on their market value, the Comparable Group's median market quartile was 3. Since the largest company in quartile 4 on Table 5.1 had a market value of $452 million, Water System's market value would place it in quartile 4.

The change in risk adjusted common stock return rate between quartile 3 and quartile 4 (column J) is 108 basis points (3.57%- 2.49%). The results of the illustration shown on Exhibit 5 suggest the Water System's common equity cost rate could be about 1.08 percentage points higher than the Comparable Group. The history of common stock returns indicates small company stocks are riskier than large company stocks because as one moves from the larger to smaller quartiles, the standard deviation (a measure of risk) of returns increases. Historically, common stock

investors have been compensated for taking on this additional risk by the higher returns provided by small company stocks.

In general, it is reasonable to expect small companies to be more risky than large ones. Exhibit 5 shows small company stocks have been riskier over a long period of time than larger company stocks due to the various advantages that larger companies have over smaller companies. For example, small capitalized firms generally have less access to capital and, overall, not as many financial resources. Further, small capitalized stocks have lower trading liquidity than larger ones.

The bond market, particularly the corporate bond market, also differentiates between large and small bond issues, where many large institutional investors such as pension funds and insurance companies require large blocks of bonds for liquidity and performance. Because of this size preference, smaller bond issuers often pay a cost rate premium when compared to larger bond issuers.

A higher return requirement for companies the size of Water System translates into a higher capitalization rate. All else being equal, a higher capitalization rate will produce a lower value. However, all things are seldom equal as shown by the array of market multiples for the companies that comprise the Comparable Group (Exhibit 18, page 2). As shown in Exhibit 18, the Comparable Group's current market multiples do not suggest a higher capitalization rate due to size as there are numerous other risks affecting the Comparable Group's market values.

Property Plant and Equipment Analysis. The Water System can best be characterized as a fully integrated water system ("integrated").[6] The Water System does not have the number of large treatment facilities that the Comparable Group. The Water System's gross property, plant

6 A fully integrated water system is characterized as having both distribution assets and treatment assets.

and equipment is in relatively good condition given its age (Exhibit 6, Table 6.1) with 74% of their gross property, plant and equipment remaining undepreciated while 79% of the Comparable Group's gross property, plant and equipment remained undepreciated.[7]

Property Plant and Equipment Analysis for Contributions. Most regulatory commissions determine rates for utilities based on a cost of service formula reflective of gross plant, property, and equipment less accumulated depreciation (i.e., net property, plant, and equipment) being roughly equal to investor provided capital (i.e., debt and equity capital) plus "cost free" capital such as customer contributions. Under 66 Pa. C.S. Section 1329 (Valuation of Acquired Water and Wastewater Systems), the original source of funding for any part of the assets of a selling utility is not relevant to determining the value of a selling utility's assets.

We found an 15% (100% - 85%) difference between the Comparable Group's net property, plant and equipment and the Comparable Group's investor provided capital on the valuation date (Exhibit 6, page 1, Table 6.2). The difference between the Comparable Group's net property, plant and equipment and the Comparable Group's investor provided capital is comprised of "cost free" capital such as customer contributions.[8] This is evidenced by the 15% difference in the Comparable Group's net property, plant and equipment and the Comparable Group's investor provided capital (Exhibit 6, page 1, Table 6.2). Additionally, we verified known components of the Comparable Group's "cost free" capital by reviewing their individual balance sheets (Exhibit 6, page 1, Table 6.2) at year-end 2023.

7 The Water System's gross and net property, plant and equipment is developed on Exhibit 7.
8 Under rate regulation "cost free" capital, such as customer contributions, is subtracted from plant assets in determining the dollar amount of property on which a utility may earn a "fair rate of return" and therefore, "cost free" capital has no economic value to investors.

We did not analyze the Water System's property, plant, and equipment for "cost free" capital, or customer contributions, because the original source of funding for any part of the assets of a selling utility is irrelevant to the valuation process under 66 Pa. C.S. Section 1329.

Capital Expenditures Analysis. The level of capital expenditure required for business purposes is an indicator of risk. Over the last four years, the Comparable Group has had annual capital expenditures of about 9% of net plant (Exhibit 6, page 2, Table 6.3). During this same time, 2020-23, the Water System had annual capital expenditures of about 10% of net plant. Therefore, the Water System historical capital spending was slightly higher than the Comparable Group's median.

Growth Rate Analyses. Higher growth rates are an indication of less risk. A review of the growth rates in revenue and operating income plus depreciation reveal that the Water System has been growing less than the Comparable Group (Exhibit 6, page 4, Table 6.4) over the last three years, but operating income has been growing more. Prospectively, the Water System's growth rates should lag the Comparable Group's without increased rates and a higher level of planned capital additions.

Profit Margin Analyses. Higher profit margins are an indication of less risk. We compared earnings before interest and taxes ("EBIT") to revenues to see how successful the Water System's management has been at generating income from the operation of the business. We also compared operating profitability or earnings before interest, tax, depreciation, and amortization ("EBITDA") divided by total revenue to gain a clearer view of the Water System's core profitability. The Water System's EBITDA profit margins are higher than the Comparable Group's, indicating less risk. However, the Water System's EBIT profit margins are lower indicating more risk (Exhibit 6, page 5, Table 6.5).

VALUATION

The purpose of this valuation is to comply with 66 Pa. C.S. Section 1329 (Valuation of Acquired Water and Wastewater Systems) and conduct a fair market value appraisal of the Water System's assets as of March 31, 2024, in compliance with the USPAP. There are three primary approaches to valuation including the cost, income, and market approaches. Each approach to valuation has its strengths and weaknesses and one may be more appropriate to use than another approach depending on the asset(s) being valued, the information available and/or the purpose of the valuation or intended use. USPAP requires consideration be given the cost, market and income approaches to valuation or an explanation for the basis of their exclusion, if any. Consequently, three basic valuation approaches were considered in this analysis: the cost approach, the income approach, and the market approach.

The Cost Approach. In general terms, the cost approach measures value by determining the amount of money required to replace the future service capability of an asset.[9] The cost approach is based on the premise that an informed purchaser will not pay more for a property than the cost of constructing an equally desirable substitute property, minus applicable depreciation, and assuming no undue delay.

Generally, the cost approach can be established using the trended original cost method, reproduction cost method, or replacement cost method after the calculated accrued depreciation (accumulated depreciation) is subtracted. The trended original cost method requires the determination of the original cost method.

The original cost method begins with establishing the original cost new ("OCN") measure

9 American Society of Appraisers, s.v. "Cost Approach," *ASA Business Valuation Standards,* 2009.

of the cost of the assets when first constructed.[10] The OCN is based on (1) a review and summary of the utility's accounting records, contractors' invoices and bid tabulations to determine the most appropriate data sources of each type of asset; (2) and the "pricing out" of assets using unit costs for each vintage year that property was placed in service.

Under the trended cost method, the trended original cost ("TOC") measures the reproduction cost by multiplying the OCN by specific cost indices.[11] The TOC is based on (1) a review and summary of the OCN at each location to determine those elements that would be replaced-in-kind, those that would be replaced with current methods and technologies and those that would not be replaced; (2) the selection of cost indexes and the calculation of trended original cost for those elements that would be replaced-in-kind; and (3) the estimation of the cost to purchase or construct those elements that would be replaced with current methods and technologies. The TOC is a procedure for estimating reproduction cost new of property and is sometimes used as a substitute for reproduction cost method and may be considered a form of the reproduction cost method, though not as precise.

The reproduction cost method begins with determining the reproduction cost new ("RPCN") by determining the current cost of constructing identical new property.[12] The replacement cost method begins with estimating the replacement cost new ("RCN") based on approximating the current cost of replacing service of existing property with similar new property having the nearest equivalent utility to the property being valued.[13]

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10 International Association of Assessing Officers, s.v. "Original Cost," *Glossary for Property Appraisal and Assessment*, Second Edition, 2013.
11 International Association of Assessing Officers, s.v. "Trended Original Cost," *Glossary for Property Appraisal and Assessment*, Second Edition, 2013.
12 American Society of Appraisers, s.v. "Reproduction Cost," *ASA Business Valuation Standards,* 2009.
13 American Society of Appraisers, s.v. "Replacement Cost," *ASA Business Valuation Standards,* 2009.

The RPCN and the RCN methods include the research and verification of the inventory of a company's tangible personal property. Upon verification of the inventory, current material costs, current construction costs, engineering costs, administration costs, interest during construction, and entrepreneurial profit[14] are applied to the inventory listing in order to determine the RPCN and to determine the RCN.

The RPCN method assumes the assets would be recreated under the conditions existing at the date certain or valuation date, using the exact materials, standards, design, layout, and quality of workmanship used to create the original assets. The RCN assumes the assets would be recreated under the conditions existing at the date certain or valuation date, using similar materials, current standards, under current conditions with similarly functional property.

From these cost bases (i.e., OCN, TOC, RPCN and RCN), the calculated accrued depreciation (accumulated depreciation) is subtracted ("LD"). The calculated accrued depreciation is based on the assets' attained ages, and the service life of the assets. The cost bases of depreciable assets are reduced annually by the accumulated depreciation to reflect the loss in the service value of the assets since being constructed.

Depreciation represents the loss in property value from: physical deterioration; functional obsolescence; and external obsolescence. The accrued depreciation represents the sum of the annual depreciation amounts that would have been charged for depreciation at a point in time. Accrued depreciation is a calculated amount that would be in the book reserve account at a point in time using the current depreciation parameters (i.e., average service life). The average service lives of depreciable assets are based on the materials used for construction and how long the

14 The administration costs and entrepreneurial profit are those of the contractors and engineers. The cost of overhead of the entity having the assets constructed can also be included. Generally overhead costs are allocated as part of an asset's cost, and usually represent at least 10% to 20% of infrastructure asset total costs.

depreciable assets are likely to meet service demands.

The range of survivor characteristics usually experienced by utility and industrial properties is encompassed by a system of generalized "survivor curves" known as the Iowa type curves. The accrued depreciation ratio from a survivor curve is a concept that is used to estimate the consumed service capacity of plant at a point in time. The survivor curve is used to find the applicable accrued depreciation factors of the assets to result in the total accumulated depreciation.

The Original Cost Method. For this report, Aqua provided us a copy of the Engineering Assessment, the "The Municipal Authority of The Borough Of Greenville, Mercer County, Pennsylvania, 2023 Water System Annual Report & 2024 Operating Budget", the Water System's water quality reports, and the Water System's Primary Facility Reports, to confirm the condition of the Water System's property and equipment. We utilized the Engineering Assessment, calculated the Original Cost, and Related Accrued Depreciation of the Water System as of March 31, 2024 ("OCNLD Study") shown on Exhibit 7.

Page 1 of Exhibit 7 summarizes the original cost and related accrued depreciation by account for the Water System as of March 31, 2024. The original cost was brought forward from page 2 of Exhibit 7 and the accrued depreciation from page 3 of Exhibit 7.

The original cost of the Water System was determined from the Engineering Assessment and is summarized on page 2 of Exhibit 7. A summarizing analysis of the original cost of the Water System by account and vintage year is shown on Exhibit 8.

The accrued depreciation calculation, shown on page 3 of Exhibit 7, was based on recognized methods using estimated survivor characteristics and the straight-line depreciation method. The estimated survivor curves are those used by other Pennsylvania regulated water companies and the material and age of the assets. The average service life procedure was used to

apply the methods of depreciation to group properties for which a survivor curve was used to recognize the existence of life dispersion. The detailed calculations of accrued depreciation applicable to original cost by account and vintage are included in Exhibit 8.

The results of the OCNLD Study established that the OCN of the Water System's utility plant in service as of March 31, 2024, was not less than $27.4 million ($27,382,498 rounded). The OCNLD Study also determined a theoretical calculated accrued depreciation reserve of the utility plant in service of $7.0 million ($7,013,534 rounded) as of March 31, 2024. After factoring in the OCNLD Study's accrued depreciation reserve, the OCNLD of Water System's utility plant in service as of March 31, 2024, was determined to be $20.4 million ($27,382,498 - $7,013,534 = $20,368,964).

The Replacement Cost Method. We utilized the OCN to calculate the trended original cost (TOC) measures, or the replacement cost of the depreciable assets (RCN), by multiplying the OCN by specific preliminary transition factors.[15] The transition factors included both cost changes measured during TOC process and preliminary obsolescence, so all RPCN values were valued on an RCN basis. The result of this analysis is shown in the Replacement Cost and Related Accrued Depreciation of the Water System as of March 31, 2024 ("RCNLD Study") shown on Exhibit 9.

Page 1 of Exhibit 9 summarizes the replacement cost new and related accrued depreciation by account for the Water System as of March 31, 2024. The replacement cost new was brought forward from page 2 of Exhibit 9 and the accrued depreciation from page 3 of Exhibit 9.

The replacement cost new of the Water System (see Exhibit 10) was calculated by trending the original cost measures by multiplying the OCN by Handy-Whitman indices and preliminary

15 We used the TOC method because the mandated use of the Engineering Assessment's original cost essentially dictates the use of TOC over the reproduction cost or the replacement cost methods.

obsolescence factors.[16] A summarizing analysis of the replacement cost new of the Water System by account and vintage year and related preliminary transition factors is shown on Exhibit 10.[17]

The accrued depreciation calculation, shown on page 3 of Exhibit 9, was based on recognized methods using estimated survivor characteristics and the straight-line depreciation method. The estimated survivor curves are those used in the OCNLD Study. The average service life procedure was used to apply the methods of depreciation to group properties for which a survivor curve was used to recognize the existence of life dispersion. The detailed calculations of accrued depreciation applicable to replacement cost new by account and vintage are included in Exhibit 11.

The results of the RCNLD Study established that the RCN of the Water System's utility plant in service as of March 31, 2024, was not less than $87.2 million ($87,234,331 rounded). The RCNLD Study also determined a theoretical calculated accrued depreciation reserve of the utility plant in service of $37.6 million ($37,585,878 rounded) as of March 31, 2024. After factoring in the RCNLD Study's accrued depreciation reserve, the preliminary RCNLD of Water System's utility plant in service as of March 31, 2024, was determined to be $49.6 million ($87,234,331 - $37,585,878 = $49,648,453).

The results of the OCNLD and preliminary RCNLD Cost Approaches show a range of value for the Water System of $20.4 million to $49.6 million and collectively, indicated a preliminary value of $49.6 million ($49,648,453 rounded) for the Water System based on the results of the preliminary RCNLD.

16 See the Accrued Depreciation and Obsolescence section of this report for a further discussion.
17 All land and land rights were valued at original cost.

Benchmark Metrics. Besides providing an indication of value based upon a cost method, the OCN and OCNLD can also be used to calculate meaningful benchmark metrics. These benchmark metrics are utilized to evaluate the reasonableness of other indications of value produced by alternative valuation methods, including the cost method itself. For example, the Comparable Group's market value of common equity plus minority interest, preferred stock, and total debt net of cash and cash equivalents ("Enterprise Value") is currently 1.37-times (Exhibit 18, page 2) their OCNLD or net property, plant, and equipment. Similarly, the Comparable Group's Enterprise Value is currently 1.09-times (Exhibit 18, page 2) their OCN or gross property, plant and equipment.

The above-mentioned property, plant and equipment "multiples" may understate the multiple applicable to the Water System because some of the Comparable Group's property, plant and equipment includes assets that were originally financed with "cost free" capital such as customer contributions.[18] Subtracting customer contributions ("CIAC") from the Comparable Group's property, plant and equipment (Exhibit 18, page 3) based on differences between investor provided capital and OCN results in CIAC adjusted multiples of 1.53-times OCNLD and 1.22-times OCN for the Comparable Group.

Multiplying the Water System's OCN of $27.4 million by the Comparable Group's 1.09-times OCN multiple or the 1.22-times contributions adjusted OCN multiple indicates a range of market value of $29.9 million to $33.4 million for the Water System, dissimilar to the preliminary RCNLD of $49.6 million. Further, multiplying the Water System's OCNLD of $20.4 million by the Comparable Group's 1.37-times OCNLD multiple or the 1.53-times contributions adjusted

18 Under rate regulation "cost free" capital, such as customer contributions, is subtracted from plant assets in determining the dollar amount of property on which a utility may earn a "fair rate of return" and therefore, "cost free" capital has no economic value to investors.

OCNLD multiple indicates a range of market value of $27.9 million to $31.2 million for the Water System, dissimilar to the preliminary RCNLD of $49.6 million.[19] Using a similar technique, we multiplied the Water System's number of customers of 2,951 by the Comparable Group's $9,137-times customer multiple and produced a market value of $27.0 million, which is dissimilar to the preliminary RCNLD of $49.1 million.

Accrued Depreciation and Obsolescence. The accrued depreciation reflects the total loss in value from RCN due to physical deterioration, functional and economic obsolescence. The physical deterioration was accounted for with our determination of average service lives of depreciable assets. The average service lives used in determining the preliminary RCNLD reflect the materials used for construction, age, and the average length of time the depreciable assets are likely to meet service demands.

Functional obsolescence ("FO") is a "form of deterioration due to a feature in the property that is no longer useful or functional, resulting in a loss of value for the entire property."[20] FO is sometimes evident due to increased operating costs, increased maintenance costs, lost profits and for a water utility, excess unaccounted for water. According to the Engineering Assessment, the WTP is in overall fair condition, distribution system is in good condition, the meters bodies are in good condition but the internal components have reached the end of their usable life, the booster pump station is in excellent condition, and the storage tanks are in fair condition.[21] Additionally, the Engineering Assessment did not find any utility assets that were no longer useful or functional.

19 The range of benchmark metrics values suggested for the Water System are not a substitute for an appraisal. However, the referenced range of market values for the Water System can be a meaningful metric to evaluate the reasonableness of other indication of value produced by other valuation methods.

20 "Physical Deterioration: The loss in value of a real estate property due to the physical wearing out of a building," *Corporate Finance Institute*, Updated October 3, 2021. Accessed 6/20/22. https://corporatefinanceinstitute.com/resources/knowledge/other/physical-deterioration/

21 "The Municipal Authority of The Borough of Greenville, Greenville Borough, Pennsylvania, Engineering Assessment," dated May 28, 2025, at pages 5 to 7.

We previously discussed the Water System's excess unaccounted for water. The source of the Water System's excess unaccounted for water has not been identified to date, and therefore, the cost of remedying the unaccounted for water is not specifically known. Additionally, the Water System's treatment and pumping costs limit the economic justification of correcting the problem. The Water System's power, chemical and pumping budgeted costs totaled $245,200 and $224,000 for 2024 and 2025. In 2023, the Water System had 21.8% unaccounted for water, which equates to an annual cost of $53,454 and $48,832 for unaccounted for water for 2024 and 2025.[22] Using the range of capitalization rates we use in our Income Approach, discussed later in this report, of 4.26% to 11.00% we determined the value of the Water System's unaccounted for water to be in the range of $795,109 to $870,361. Therefore, the maximum economical cost of resolving unaccounted for water is currently in the range of $795,109 to $870,361 and we conclude $833,000 for FO for the unaccounted for water. Based on this FO analysis, we reduced the preliminary RCNLD of $49.6 million by $0.8 million and produced preliminary RCNLD after FO of $48.8 million (Exhibit 9 page 4).

Economic obsolescence ("EO") refers to the loss of value that is caused by factors that are external to the property.

> Economic obsolescence (EO) is the loss of value resulting from external economic factors to an asset or group of assets. EO is often encountered in valuation work performed for financial reporting purposes, bankruptcy emergence and in other practice areas when dealing with companies in capital-intensive industries. Identifying, measuring and **applying the adjustment for EO can be a complex and iterative process**, requiring expertise and interaction across multiple valuation disciplines, including real property, personal property, business valuation and

22 Unaccounted for water rate of 21.8% from 2023 was assumed for 2024 and 2025.

intangible asset valuation.[23] (Emphasis added)

> EO manifests itself in the profit margin of business. If the operating margin of an asset or group of assets is below what provides a sufficient economic return to the supporting assets, and there is a difference between the existing operating level/capacity and a sufficient operating/level capacity, EO may be an issue.[24]

To evaluate EO we compared our preliminary RCNLD value of $49.6 million to the maximum economic values calculated in our Income and Market Approaches, discussed later in this report, and conclude EO is suggested (Exhibit 9 page 4). The maximum economic value calculated in our Income and Market Approaches of $45.7 million is $3.9 million less than our preliminary RCNLD value of $49.6 million. In our conclusion of value, discussed later in this report, we give 66.67% weight to the indicated values produced by the two economic approaches, Income and Market. Therefore, we assign 66.67% weighting to the $3.9 million ($49.6 million - $45.7 million = $3.9 million) difference in establishing $2.6 million for EO. Based on our EO analysis, we reduced the preliminary RCNLD after FO value of $48.8 million by $2.6 million and conclude a RCNLD value of $46.2 million (Exhibit 9 page 4).

Cost Approach Conclusion. On page 4 of Exhibit 9 we reduced our RCN indicated value of $87.2 million for accrued depreciation in reaching our RCNLD conclusion. The RCNLD's accrued depreciation reflects the total loss in value from RCN due to physical deterioration, functional and economic obsolescence. We ascribed $37.6 million physical deterioration, $0.8 million functional obsolescence, and $2.6 million economic obsolescence in reaching our $46.2 million RCNLD conclusion. The results of the RCNLD method of $46.2 million ($46,212,970

23 Mickle, Joseph and Sapnas, Charles. "Perspectives, Economic Obsolescence: Discover Loss of Value Caused by External Factors," *Valuation Research Corporation*. Accessed 6/20/22. https://www.valuationresearch.com/pure-perspectives/economic-obsolescence-determining-loss-value-caused-external-factors/#:~:text=Economic%20obsolescence%20(EO)%20is%20the,companies%20in%20capital%2Dintensive%20industries.

24 "Perspectives, Economic Obsolescence: Discover Loss of Value Caused by External Factors".

rounded) form the basis for our Cost Approach conclusion, shown on Exhibit 9, page 4. Based on this result, the Cost Approach to valuation indicates a value of $46.2 million for the Water System's based on the RCNLD method.

The Income Approach. Capitalizing or discounting a future income stream to a present value provides an indication of the value of a security or asset. The capitalization or discount rate reflects future growth, business risk, economic factors, financial risk, and industry risk of the assets. The theory behind the income approach is that the value of a business is the future economic benefit that ownership will provide. The income approach is defined as, "a general way of determining a value indication of a business, business ownership interest, security, or intangible asset by using one or more methods that convert anticipated economic benefits into a present single amount."[25]

The two most common methods of the income approach to valuation are the capitalization of earning or cash flow method and the discounted cash flow method ("DCF"). The capitalization of earning method converts a single base economic income number to a value by dividing it by a capitalization rate. The capitalization of earnings is best suited when the future earnings, or cash flow, can be predicted. The implicit assumption in the capitalization of earning method is that the cash flow is a perpetuity, and the capitalization rate is a constant.

The DCF method uses estimates of future free cash flow and discounts them to arrive at a present value or price of the cash flow. Generally, the DCF analysis begins with an estimate of the Debt Free Net Cash Flow over the next five to twenty years along with a terminal value. In each year, the Debt Free Net Cash Flow is comprised of projected EBIT, minus income taxes, plus

25 American Society of Appraisers, s.v. "Income Approach," ASA Business Valuation Standards, 2009.

projected depreciation, and amortization, minus projected changes in net cash working capital, and minus projected capital expenditures. The second element of the DCF analysis is the determination of an appropriate discount rate.

The capitalization rate used in the capitalization of earnings method and the discount rate used in the DCF method are related. The discount rate is the market participant's opportunity cost rate related to the risk of the cash flows. For the Water System, the market participants are assumed to include IOU and MUNI. For the Water System, the appropriate discount rate is the current municipal revenue bond yield on March 31, 2024, of 4.26%. The appropriate IOU discount rate is the current net of tax overall cost of capital (weighted average cost of capital) on March 31, 2024, and ranges from 8.25% to 11.00%.[26] The capitalization rate is simply the discount rate minus the expected growth rate. If no growth is assumed, the capitalization rate is equal to the discount rate.

The capitalization of earnings method is generally a reasonable approach for valuing the Water System as it is currently owned (i.e., non-IOU) and operated. However, change in ownership of the Water System to a MUNI or IOU produces a myriad of problems for both the capitalization of earnings method and the DCF Method because any future cash flow estimates would be hypothetical or estimated due to the uncertain nature that would accompany new ownership including future rates, future expenses, future capital expenditures, taxes, and regulation.

For a MUNI, the appropriate discount rate is the current municipal revenue bond, 4.26%, because debt is the only major source of capital available to finance an acquisition (Exhibit 23, pages 2-6). Although a MUNI likely carries equity on their books (balance sheet), all existing

26 Both the American Society of Appraisers, ASA Business Valuation Standards, 2009, and the National Association of Certified Valuation Analysts, Professional Standards, 2007, use the same definition: "Weighted Average Cost of Capital (WACC). The cost of capital (discount rate) determined by the weighted average, at market values, of the cost of all financing sources in the business enterprise's capital structure."

equity is already invested in other assets and therefore, cannot be used to finance an acquisition.[27] For valuation purposes, an embedded cost of debt, or the historical cost of all debt issuances outstanding is not used because this capital is already invested in assets. Whereas the marginal cost of debt, 4.26%, at the valuation date is used in accordance with accepted valuation practices and used for market valuation purposes.

As discussed previously, for an IOU, the appropriate discount rate is the net of tax overall cost of capital (weighted average cost of capital), 8.25% to 11.00% (Exhibit 23, pages 2-8). In this instance, the net of tax overall cost of capital (weighted average cost of capital) is based on the Comparable Group's market value capital structure of 30.4% debt and 69.6% equity, a market cost of debt of 5.50% and a range of market cost of equity of 10.12% to 14.07%.[28] The Comparable Group's net of tax overall cost of capital (weighted average cost of capital) is used as a proxy to conform to the "hypothetical buyer" or "hypothetical seller" of fair market valuation. Use of the buyer's net of tax overall cost of capital (weighted average cost of capital) would produce an investment valuation, not a fair market valuation.[29]

We began the Income Approach for the Water System by first determining the Debt Free Net Cash Flow to be capitalized or discounted. The Debt Free Net Cash Flow is comprised of EBIT, minus income taxes, plus depreciation and amortization, plus or minus projected changes

27 For example, when a municipal or government entity, such as the Commonwealth of Pennsylvania, finance construction of a road or bridge, they only consider the marginal debt cost despite having "equity" reflected on their books (balance sheet).

28 For example, see http://www.investinganswers.com/financial-dictionary/financial-statement-analysis/weighted-average-cost-capital-wacc-2905. Also see http://www.wallstreetmojo.com/weighted-average-cost-capital-wacc/ , or http://accountingexplained.com/misc/corporate-finance/wacc .

29 We did not use the 6.79% Comparable Group's DSIC (distribution system improvement charge) related net of tax overall cost of capital in our valuation because a "hypothetical buyer" cannot finance an acquisition at such a rate and therefore, its use would provide a meaningless result. Where the 6.79% DSIC related cost was determined based the Comparable Group's book value capital structure of 50.3% debt and 49.6% equity, a cost of debt of 5.50% and a DSIC cost of equity of 9.65%. We note the 6.79% Comparable Group's DSIC related net of tax overall cost of capital falls below the 8.25% to 11.00% range of discount rates used in our Income Approach.

in net cash working capital, less projected capital expenditures. The development of Water System's Debt Free Net Cash Flow begins on Exhibit 1 and ends on Exhibits 12 through 16.

Differences in accounting practices exist between GASB, DCED and FASB because there are differences in their purpose. The GASB's and DCED's impetuses are to make sure government entities are accountable for the money they receive from the public or taxpayers, while the FASB's focus is to help investors and creditors make decisions. These differences in accounting objectives between GASB, DCED and FASB can present a problem when it comes to comparing the financial statements of entities that are either publicly or privately owned, such as the Water System and the Comparable Group.

Exhibit 1 presents the Water System's financial information contained in their financial statements, so it is more consistent with the Comparable Group and more practical for valuation purposes. The information on Exhibit 1 was used to develop Exhibits 12 through 16. As noted previously, the Water System's financial statements and their rates did not include taxes nor a fair rate of return. Accordingly, on Exhibits 13 through 16 we adjusted the Water System's post-2025 financial information for pro forma expenses and returns to be reflective of a MUNI or IOU ownership.

The Capitalization of Earnings Method. The capitalization of earnings method begins with an estimate of the income or cash flow producing capabilities of the business (Exhibit 12) for a recent time period and assumes current ownership and operations. We began the capitalization of earnings method for the Water System by first determining the Debt Free Net Cash Flow to be capitalized. The Debt Free Net Cash Flow is comprised of current EBIT, minus income taxes, plus current depreciation and amortization, minus projected changes in net cash working capital, and minus projected capital expenditures. Specifically, our capitalization of earnings method

capitalizes Water System's current (budget 2024) Debt Free Net Cash Flow. The second element of the capitalization of earnings method is the determination of an appropriate capitalization rate. Our analysis uses the current municipal revenue bond yield on March 31, 2024, of 4.26% (Exhibit 12, line 24) as the capitalization rate. We typically do a second capitalization of earnings calculation based on a capitalization rate reflective of some growth. However, in this instance we did not assume any growth due to the demographics of the service area and our quantitative and qualitative analysis.

We computed the Water System's indicated value based on the capitalization of earnings method by dividing the projected Debt Free Net Cash Flow by the capitalization factor. The capitalization factor is equal to the discount rate minus assumed growth in projected Debt Free Net Cash Flow. Based upon the demographics of the service area and our quantitative and qualitative analysis, we assumed no growth for the Water System based on current ownership and operations.

For pro forma 2024, we adjusted the Water System's Debt Free Net Cash Flow (Exhibit 12, lines 23 and 28) to include the average 2021-2024 capital expenditure to get a clearer picture of Debt Free Net Cash Flow. Exhibit 12 shows the results of the capitalization of earnings method. For the Water System, the capitalization of earnings method using a 4.26% capitalization rate (no growth) indicates a value of $6.6 million, and -$23.1 million based on pro forma 2024 results. Collectively, for the Water System, we believe the no growth scenario is the most probable result based on current ownership and operations and therefore, the capitalization of earnings method suggests a value of -$23.1 million (negative) based on pro forma 2024 results due to the existence of negative debt free net cash flow. Negative debt free net cash flow is indicative of a system which requires adjustments to their rates if they plan to remain operational.

The DCF Method. For the Water System, the DCF method considers two types of discounted cash flow analyses, the EBIT and EBITDA terminal value model ("Market Multiple DCF") and the capitalization of terminal value model ("Capitalization DCF"). We show the results of these models on Exhibits 13 through 16.

The DCF method begins with an estimate of the income or cash flow producing capabilities of the business. Specifically, our DCF methods use estimates of the results of the Water System's operations over the next 20 years. We use two different assumptions for the Water System's future operations in the DCF methods: MUNI ownership shown on Exhibits 13 and 15; and IOU ownership shown on Exhibits 14 and 16.

Under the MUNI ownership the discount rate is the current 4.26% municipal revenue bond yield and under the IOU ownership the discount rate is the current net of tax overall cost of capital, reflecting the upper and lower range of the net of tax overall cost of capital for the Comparable Group of 8.25% to 11.00%. For the Capitalization DCF, the capitalization rate reflects only a scenario of no additional growth (i.e., discount rate = capitalization rate) under MUNI ownership and no growth under IOU ownership due to the demographics of the service area.

We computed the Market Multiple DCF terminal values by multiplying the Water System's projected EBITDA and EBIT by the Comparable Group's adjusted multiples of 13.9-times and 20.7-times, respectively. We computed the Capitalization DCF terminal value by dividing the projected Debt Free Net Cash Flow by the capitalization factor. The capitalization factor is equal to the discount rate minus assumed growth in projected Debt Free Net Cash Flow.

Exhibit 13 shows the results of the DCF method under the MUNI ownership scenario. The results of the Capitalization DCF shown on Exhibit 13 show a value for the Water System of $20.5 million. The results of the Market Multiple DCF shown on Exhibit 13 show a value of $20.0

million. Collectively, the DCF method based on the MUNI ownership scenario indicates a value of $20.3 million for the Water System based on the no growth assumption.

Exhibit 14 shows the results of the DCF method under the IOU ownership scenario. The results of the Capitalization DCF shown on Exhibit 14 show a range of value for Water System of $14.2 million to $19.7 million. The results of the Market Multiple DCF shown on Exhibit 14 show a range of value of $18.0 million to $24.6 million. Collectively, the DCF method based on the IOU ownership scenario and a no growth assumption indicates a value of $18.8 million for the Water System.[30]

The DCF method based on the MUNI ownership scenario indicates a value of $20.3 million and the DCF method based on the IOU ownership scenario indicates a value of $18.8 million. Collectively, the DCF method indicates a value of $19.5 million based on OCNLD.

Change in ownership of the Water System to a MUNI or an IOU produces a myriad of problems for the DCF Method. Under a MUNI purchase, future cash flow estimates are uncertain because they would reflect the actual price paid for the acquisition. Under an IOU purchase and the associated regulation by the PUC, future cash flow estimates are uncertain since regulation by the PUC would result in an unknown determination of rate base and the related depreciation and authorized/achieved earning levels. In the current instance, we know the Market Approach and the Cost Approach (RCNLD) indicate values higher than the OCNLD value.

30 If we used the 6.79% Comparable Group's DSIC (distribution system improvement charge) related net of tax overall cost of capital in our valuation shown on Exhibit 14, the results of the Capitalization DCF would show a value for Water System of $24.4 million. Further, the results of the Market Multiple DCF would show a value of $29.5 million and collectively, the DCF method based on the IOU ownership scenario and a no growth assumption indicates a value of $26.9 million for the Water System. The DCF method based on the MUNI ownership scenario indicates a value of $20.5 million and the DCF method based on the IOU ownership scenario indicates a value of $26.9 million. Collectively, the DCF method indicates a value of $23.6 million when DSIC is considered.

Therefore, Exhibits 13 and 14 are recalculated on Exhibits 15 and 16 to reflect revenues and cash flows derived from an earnings base between the values indicated by the RCNLD and the Market Approach. Exhibit 15 shows the results of the DCF method under the MUNI ownership scenario. The results of the Capitalization DCF shown on Exhibit 15 show a value for the Water System of $29.6 million. The results of the Market Multiple DCF shown on Exhibit 15 show a value of $28.3 million. Collectively, the DCF method based on the MUNI ownership scenario indicates a value of $28.9 million for the Water System based on the no growth assumption.

Exhibit 16 shows the results of the DCF method under IOU ownership. The results of the Capitalization DCF shown on Exhibit 16 show a range of value for Water System of $17.1 million to $24.2 million. The results of the Market Multiple DCF shown on Exhibit 16 show a range of value of $22.3 million to $31.0 million. Collectively, the DCF method based on the IOU ownership scenario and a no growth assumption indicates a value of indicates a value of $23.2 million for the Water System.[31]

The DCF method based on the MUNI ownership scenario indicates a value of $28.9 million and the DCF method based on the IOU ownership scenario indicates a value of $23.2 million. Collectively, the DCF method indicates a value of $26.1 million ($26,079,251 rounded) as summarized on Exhibit 17.

The Market Approach. The market approach determines the value of an asset based on the recent selling price of similar assets. The market approach entails analyzing certain public

31 If we used the 6.79% Comparable Group's DSIC (distribution system improvement charge) related net of tax overall cost of capital in our valuation shown on Exhibit 16, the results of the Capitalization DCF would show a value for Water System of $30.5 million. Further, the results of the Market Multiple DCF would show a value of $37.4 million and collectively, the DCF method based on the IOU ownership scenario and a no growth assumption indicates a value of $34.0 million for the Water System. The DCF method based on the MUNI ownership scenario indicates a value of $28.9 million and the DCF method based on the IOU ownership scenario using DSIC indicates a value of $34.0 million. Collectively, the DCF method indicates a value of $31.4 million when DSIC is considered.

information relating to transactions involving the purchase or sales of businesses involved in the same or similar business line as the subject entity (e.g., the Water System). The market approach is defined as, "a general way of determining a value indication of a business, business ownership interest, security or intangible asset by using one or more methods that compare the subject to similar businesses, business ownership interests, securities or intangible assets that have been sold."[32] There are two methods of doing the Market Approach to valuation: the market multiples method; and the selected transaction method. We developed both the market multiples method and the selected transaction method in our valuation analysis.

The Market Multiples Method. The market multiples method valuation begins by reviewing market price data of corporations engaged in the same or a similar line of business as the Water System. We relied upon market data for the Comparable Group for these purposes since they are equally affected by similar economic, industry, and business risks as is the Water System. Since no marketplace exists for the common stock of the Water System, an alternative to estimate the value of the Water System is to analyze the price investors are willing to pay for the publicly traded common stock of companies that are similar to the Water System. The specific market price data reviewed includes the market value of common equity plus minority interest, preferred stock, and total debt net of cash and cash equivalents (i.e., Enterprise Value). Where the market value of common equity is the product of multiplying the closing stock price by the number of common shares outstanding. Enterprise Value provides an indication of the value of the entire business. The Enterprise Value multiples ("Market Multiples") are shown on Exhibit 18. For the Comparable

32 American Society of Appraisers, *ASA Business Valuation Standards,* theory 12.

Group, the Market Multiples were calculated as of March 31, 2024, based on the latest twelve months of financial data available at the appraisal date (Exhibit 18, page 2).

We used the Comparable Group's Enterprise Value on March 31, 2024, and calculated Market Multiples of: revenue ("Revenue"); EBITDA; EBIT; gross property plant and equipment ("GPPE"); net property plant and equipment ("NPPE"); investor provided capital ("ICAP"); utility customers ("Customers"); and population of the area served ("Population").

The next step in the market multiples method valuation was applying the Comparable Group's Market Multiples to corresponding financial and operating statistics of the Water System. The Comparable Group's Market Multiples reflect their capitalization rate of each financial and operating statistic. For example, a Market Multiple of EBIT of 16.14 times equates to a capitalization of EBIT of 6.20% (1 ÷ 16.14 = 6.20%). Each capitalization rate is, unique to the entity and the statistic being evaluated, and reflects the growth and investment risk of the entity.

We believe that similar economic, industry and business risks have affected the Comparable Group as those faced by the Water System. However, consideration must be given to the fact that no two companies are exactly alike. On average, the utilities in the Comparable Group are larger than the Water System. The relative size difference between the Comparable Group and Water System suggests that the risk to investors of the Water System is higher than the Comparable Group. Further, based upon our quantitative and qualitative analysis, we concluded that the Water System has more risk than the Comparable Group.

Accordingly, the Comparable Group's Market Multiples are not directly applicable to the Water System. We assumed the higher risk due to the Water System's size is added to the higher risk found in our quantitative and qualitative analysis. This combined risk was assumed to result in the Water System being 15% more risky than the Comparable Group and produces an 85%

(100% - 15%) base risk adjustment to the Comparable Group's Market Multiples. We applied the 85% base risk adjustment to all financial multiples. For example, the Comparable Group's ICAP multiple was multiplied by 85% to produce a lower multiple applicable to the Water System to account for risk differences.

The Comparable Group's Market Multiples of Revenue, EBITDA, and EBIT were adjusted for the base risk adjustment to produce multiples applicable to the Water System (Exhibit 18, page 3). The Comparable Group's Market Multiples of GPPE and NPPE were adjusted for the base risk adjustment and for their percentage of property plant and equipment (Exhibit 18, page 3) financed with "cost free" capital such as contributions because "cost free" capital should not be part of this valuation process. The Comparable Group's Market Multiples of Customers and Population were adjusted for the type of assets of the Water System, earnings rate, and growth.

The net risk adjustments applied to the Comparable Group's Market Multiples are shown on page 1 of Exhibit 18. The adjustments to the Comparable Group's Market Multiples are: 85% of ICAP (more risk/less growth); 95% of GPPE (more risk/lower growth and contributions); 95% of NPPE (more risk/lower growth and contributions); 85% of Revenue (more risk/lower growth); 85% of EBIT; 85% EBITDA (more risk/lower growth); 96% of Customers (growth, earning rate, and contributions); and 96% Population (growth, earning rate, and contributions). The calculation of the net risk adjustments that are applied to the Comparable Group's Market Multiples are shown on page 3 of Exhibit 18.

Page 1 of Exhibit 18 shows the market multiples method indicated values based on: Revenue, EBIT and EBITDA (collectivity called "Income Statement Items"); ICAP, GPPE and NPPE (collectivity called "Capital Items"); and Customers and Population (collectivity called "Demographics Items"). For most municipal utilities, the indicated values based on Income

Statement Items are far below the indicated values that are based on Capital Items and those based on Demographics Items. We attribute this to the fact that the dollars of Revenue, EBIT and EBITDA do not reflect any provision for taxes while the multiples for the Comparable Group do.[33] Consequently, we do not believe the results of the multiples of Revenue, EBIT and EBITDA are meaningful and should not be used for municipal utilities.

In the market multiples method, the meaningful Market Multiples of the Comparable Group are used to develop an indicated value of the Water System. This is accomplished by multiplying the Water System's financial and operating data by the Comparable Group's median Market Multiples (Exhibit 18, page 1). The results of the market multiples method (Exhibit 18, page 1) show a range of value for the Water System of $22.1 million to $27.5 million and collectively, indicate value of $24.8 million ($24,787,628 rounded).

The Selected Transactions Method. The selected transactions method entails analyzing certain public information relating to selected transactions involving the purchase or sales of businesses involved in the same or similar business line. The number of selected transactions available for review is limited because most acquisitions in the water and wastewater industry involve small acquisitions for which no public information exists. Additionally, not all transactions are comparable since some purchase prices may only involve the acquisition of the common stock, purchase prices may be net of cash and others may only involve assets. In any of these instances, the derived multiples (e.g., purchase price as a multiple of: Revenues; EBITDA; EBIT; etc.) would understate (overstate) the multiples involving a purchase price for an entire business enterprise (common stock) or business assets.

33 The Revenue, EBIT and EBITDA for the Water System also do not include a fair rate of return.

The selected transactions method provides a valuation of a business, or assets, at the time the acquisition of that business was completed, rather than the appraisal date market value (March 31, 2024). Because of the rapid rise in valuation multiples since early 2016 we limited our search for selected transactions to: (1) those that occurred in 2016 or later; (2) purchases of water or sewer systems; (3) assets being purchased; and (4) those that did not discount "cost free" capital/customer contributions in the valuation. The selected transactions that met the stated selection criteria are shown on pages 2 and 3 of Exhibit 19.

Using certain public information, we calculated sales price multiples of selected transactions involving the purchase or sale of businesses that met the stated selection criteria. The calculated sales price multiples included transactions multiples of: ICAP; GPPE; NPPE; Revenue; EBITDA; EBIT; Customers; and Population. As shown on pages 2 and 3 of Exhibit 19, the selected transactions method indicated values based on the Income Statement Items are far different than the Water System's selected transactions method indicated values based on Capital Items and those based on Demographics Items. We attribute this to the fact the selling utilities' dollars of Income Statement Items do not reflect any provision for taxes.[34] Consequently, we do not believe the results of the multiples of Income Statement Items are meaningful.

The selected transaction method relies on and reflects information that was known, ex-ante, at the time the winning purchase bid (price) was offered, and the metrics used are time period sensitive. For example, bids made in 2016 only reflect metrics from 2015 since the results of 2016 could not be known at the time of the bids. The selected transaction method ex-ante information (metrics) is shown on page 2 of Exhibit 19. Complete information only exists for a few of the

34 Further, Revenue, EBIT and EBITDA for the Water System also do not include a fair rate of return.

transactions, with only Customers and the Population having ample data for all transactions as is evident from the information shown (Exhibit 19, page 2). Therefore, we supplemented the ex-ante data with ex-post information of GPPE and NPPE (collectivity called "Asset Items") as shown on page 3 of Exhibit 19.

The selected transactions method's multiples reflect the price or valuation at the time the winning purchase bid (price) was agreed to rather than the appraisal date's market value (March 31, 2024). The change in the Comparable Group's market multiples of GPPE, NPPE, Customers and Population, shown in Figure 1, illustrates the change in the Comparable Group's market valuation since 2016. In Figure 1, the Comparable Group's market multiples of GPPE, NPPE, Customers and Population were indexed to the March 31, 2024 valuation multiples so that the March 31, 2024 valuation multiples have an index value of 1.0. In viewing the indexed market multiples shown in Figure 1 it is important to remember the selected transactions' multiples lag the Comparable Group's indexed market multiples and recognize the Comparable Group's Demographics Items have increased in value relative to their Asset Items since 2016.

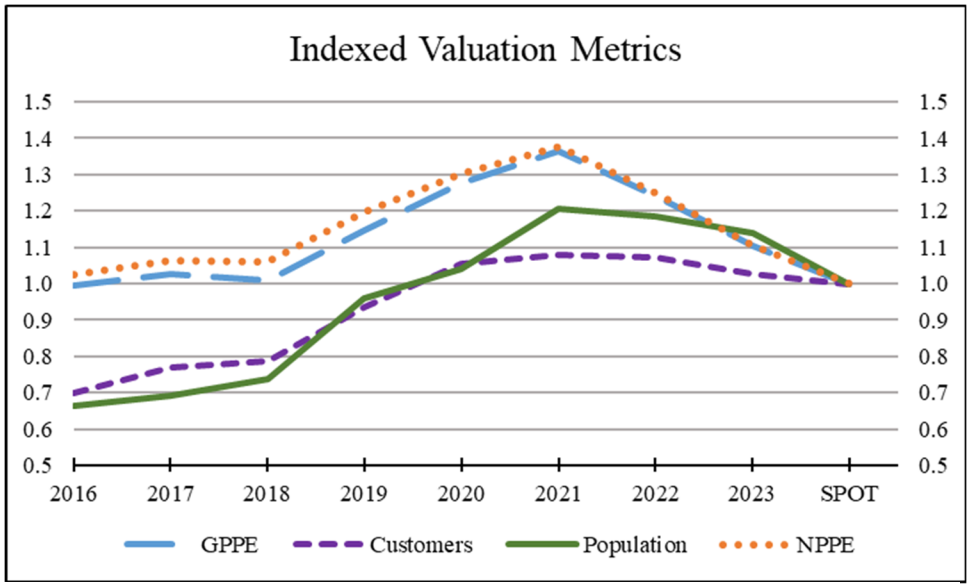


Figure 1

In the selected transactions method, the significant selected transactions multiples of the selling utilities are used to develop an indicated value of the Water System. This process is accomplished by multiplying the Water System's financial and operating data by the selling utilities' transactions multiples (Exhibit 19, pages 2 and 3).

The results of the selected transactions method (Exhibit 19, page 1) show a range of value for the Water System of $22.6 million to $41.4 million when all transactions are considered and a range of value of $28.7 million to $37.8 million when fully integrated assets (excluding wholesale) are solely considered. We determined an indicated value of $31.6 million ($31,614,001 rounded) for the Water System using the selected transactions method based on the results of the fully integrated assets (excluding wholesale) transactions after adjusting for the changes in market conditions that are depicted in Figure 1.

Wall Street Transactions. In 2018 two IOUs, Connecticut Water Service, Inc. ("Connecticut Water") and SJW Group, announced a planned merger with Connecticut Water being acquired by SJW through a stock purchase (stock swap). SJW Group's purchase of Connecticut Water was approved in late 2019. Similarly, in 2021 two IOUs were involved in another transaction which involved Aquarion Company, parent of Aquarion Water Company, completing its acquisition of the New England Service Company, Inc. ("NESC") through a stock purchase (stock swap). Again in 2022, two IOUs, were involved in another transaction which involved Aquarion Company, parent of Aquarion Water Company, announcing its acquisition of The Torrington Water Company, Inc. ("TORW") through a stock purchase (stock swap). Connecticut Water, NESC and TORW were publicly traded as was the stock they received in the transactions.

Although these acquisitions are not directly applicable to the Water System, they do provide a range of indicated values for the Water System (Exhibit 20, page 1) which we relied on as checks. In these selected transactions, the significant selected transactions multiples of the selling utilities (i.e., Connecticut Water, NESC, and TORW) are used to develop an indicated value of the Water System. This is accomplished by multiplying the Water System's financial and operating data by the selling utilities' transactions multiples.

The results of the Connecticut Water selected transactions (Exhibit 20, page 2) show a range of value for the Water System of $28.6 million when the reported significant selected transactions multiples are considered and a value of $37.0 million when the reported significant selected transactions multiples have been adjusted for "cost free" capital. The results of the NESC selected transactions (Exhibit 20, page 3) show a range of value for the Water System of $23.0 million when the reported significant selected transactions multiples are considered and a value of $33.2 million when the reported significant selected transactions multiples have been adjusted for "cost free" capital. The TORW selected transactions (Exhibit 20, page 4) show a range of value for the Water System of $33.8 million when the reported significant selected transactions multiples are considered and a value of $49.8 million when the reported significant selected transactions multiples have been adjusted for "cost free" capital. Collectively, the Wall Street selected transactions indicate values of $33.2 million to $49.8 million, are higher than the values found by the market multiples method of $24.8 million (Exhibit 18) and the selected transaction method of $31.6 million (Exhibit 19) for the Water System.[35]

35 We note Connecticut Water, NECS and TORW were fully integrated companies, as is Water System. Additionally, they were publicly traded, which the Water System is not, and therefore, may overstate the value for the Water System. However, these transactions were stock transactions, which may understate the value for the Water System's asset purchase.

The Market Approach is summarized on Exhibit 21. The results of the market multiples method (Exhibit 18) indicate a value of $24.8 million. The results of the selected transactions method (Exhibit 19) indicate a value of $31.6 million. Based on the aforesaid results, the Market Approach to valuation indicates a value of $28.2 million ($28,200,815 rounded) for the Water System based on the results of the market multiples method and the selected transactions method, as shown on Exhibit 21.

Conclusion. Each approach to valuation has its strengths and weaknesses and one may be more appropriate to use than another approach depending on the asset(s) being valued, the information available and/or the purpose of the valuation or intended use. USPAP requires consideration be given the Cost, Market and Income approaches to valuation or an explanation for the basis of their exclusion, if any. Consequently, three basic valuation approaches were considered in this analysis: the cost approach, the income approach, and the market approach.

We summarize our findings for the Water System on Exhibit 22. Our fair market value conclusion and our opinion of the value of the Water System is based on the Cost, Market, and Income Approaches to valuation. We used seven methods under the Cost, Market, and Income Approaches to valuation: Original Cost Method, Replacement Cost Method, Capitalization of Earnings Method, Market Multiple Discounted Cash Flow Method, Capitalization Discounted Cash Flow Method, Market Multiples Method, and the Selected Transactions Method.

The results from the market multiple discounted cash flow method and the capitalization discounted cash flow method form the basis for our Income Approach. Our Market Approach is supported by the market multiples method and selected transactions method. The results from the original cost method form the basis for our replacement cost method, and both methods form the basis for our Cost Approach.

We considered the results of each approach as an indicator of value individually, or as independent indicators of value. Therefore, all three approaches to valuation were given consideration in arriving at our opinion of the fair market value. The PUC requires the results of each valuation approach to be weighed evenly in reaching a conclusion of value unless good cause is given. Based on these facts, our opinion regarding the fair market value is $33.5 million. Our conclusion regarding the fair market value can be described by the weights and the specific results of the three approaches to valuation that are shown on Exhibit 22. The results of our analyses, shown on Exhibit 22, show a range of value of $26.1 million to $46.2 million and collectively support our opinion of a fair market value for the Water System of $33,497,679, as of March 31, 2024.

APPENDIX A - QUALIFICATIONS

APPENDIX A

Professional Qualifications
of
Harold Walker, III
Manager, Financial Studies
Gannett Fleming Valuation and Rate Consultants, LLC.

EDUCATION

Mr. Walker graduated from Pennsylvania State University in 1984 with a Bachelor of Science Degree in Finance. His studies concentrated on securities analysis and portfolio management with an emphasis on economics and quantitative business analysis. He has also completed the regulation and the rate-making process courses presented by the College of Business Administration and Economics Center for Public Utilities at New Mexico State University. Additionally, he has attended programs presented by The Institute of Chartered Financial Analysts (CFA).

Mr. Walker was awarded the professional designation "Certified Rate of Return Analyst" (CRRA) by the Society of Utility and Regulatory Financial Analysts. This designation is based upon education, experience, and the successful completion of a comprehensive examination. He is also a member of the Society of Utility and Regulatory Financial Analysts (SURFA) and has attended numerous financial forums sponsored by the Society. The SURFA forums are recognized by the Association for Investment Management and Research (AIMR) and the National Association of State Boards of Accountancy for continuing education credits.

Mr. Walker obtained a license as a licensed Municipal Advisor Representative (Series 50) by the Municipal Securities Rulemaking Board (MSRB) and the Financial Industry Regulatory Authority (FINRA).

BUSINESS EXPERIENCE

In 1996, Mr. Walker joined Gannett Fleming Valuation and Rate Consultants, LLC. In his capacity as Manager, Financial Studies and for the past 25 years, he has continuously studied rates of return requirements for regulated firms. In this regard, he supervised the preparation of rate of return studies in connection with his testimony and in the past, for other individuals. He also assisted and/or developed dividend policy studies, nuclear prudence studies, calculated fixed charge rates for avoided costs involving cogeneration projects, financial decision studies for capital budgeting purposes and developed financial models for determining future capital requirements and the effect of those requirements on investors and ratepayers, valued utility property and common stock for acquisition and divestiture, and assisted in the private placement of fixed capital securities for public utilities.

Head, Gannett Fleming GASB 34 Task Force responsible for developing Governmental Accounting Standards Board (GASB) 34 services and educating Gannett Fleming personnel and

Gannett Fleming clients on GASB 34 and how it may affect them. The GASB 34 related services include inventory of assets, valuation of assets, salvage estimation, annual depreciation rate determination, estimation of depreciation reserve, asset service life determination, asset condition assessment, condition assessment documentation, maintenance estimate for asset preservation, establishment of condition level index, geographic information system (GIS) and data management services, management discussion and analysis (MD&A) reporting, required supplemental information (RSI) reporting, auditor interface, and GASB 34 compliance review.

In 2004, Mr. Walker was elected to serve on the Board of Directors of SURFA. Previously, he served as an ex-officio directors as an advisor to SURFA's existing President. In 2000, Mr. Walker was elected President of SURFA for the 2001-2002 term. Prior to that, he was elected to serve on the Board of Directors of SURFA during the period 1997-1998 and 1999-2000. He also previously served on the Pennsylvania Municipal Authorities Association, Electric Deregulation Committee.

Prior to joining Gannett Fleming Valuation and Rate Consultants, LLC., Mr. Walker was employed by AUS Consultants - Utility Services. He held various positions during his eleven years with AUS, concluding his employment there as a Vice President. His duties included providing and supervising financial and economic studies on behalf of investor owned and municipally owned water, wastewater, electric, natural gas distribution and transmission, oil pipeline and telephone utilities as well as resource recovery companies.

Mr. Walker was also the Publisher of C.A. Turner Utility Reports from 1988 to 1996 while employed at AUS Consultants - Utility Services. C.A. Turner Utility Reports is a financial publication which provides financial data and related ratios and forecasts covering the utility industry. From 1993 to 1994, he became a contributing author for the Fortnightly, a utility trade journal while employed at AUS Consultants - Utility Services. His column was the Financial News column and focused on the natural gas industry.

EXPERT TESTIMONY

Mr. Walker has submitted testimony or been deposed on various topics before regulatory commissions and courts in 29 states including: Alaska, Arizona, California, Colorado, Connecticut, Delaware, Hawaii, Idaho, Illinois, Indiana, Iowa, Kentucky, Maryland, Massachusetts, Michigan, Missouri, New Hampshire, Nevada, New Jersey, New York, North Carolina, Oklahoma, Pennsylvania, Rhode Island, South Carolina, Tennessee, Vermont, Virginia, and West Virginia.. His testimonies covered various subjects including: fair market value, the taking of natural resources, appropriate capital structure and fixed capital cost rates, depreciation, fair rate of return, purchased water adjustments, synchronization of interest charges for income tax purposes, valuation, cash working capital, lead-lag studies, financial analyses of investment alternatives, benchmarking, and fair value.

PROFESSIONAL AFFILIATIONS

Society of Utility and Regulatory Financial Analysts
- Board of Directors, 1996-2000, 2005-2008
- President, 2000-2002
- Treasurer, 1996-1998

National Association of Water Companies
Pennsylvania Municipal Authorities Association
- Electric Deregulation Committee

TECHNICAL PUBLICATIONS & PRESENTATIONS

Walker, Harold. Panelist "Now is the Time to Maximize Your Utility's Value." Presented at the Pennsylvania Association of Township Supervisors 97th Annual State Convention, April 2019.

Walker, Harold. Panelist "Fair Market Acquisitions Debate." Presented at National Association of Regulatory Utilities Commissioners Winter Policy Summit, February 2019.

Walker, Harold. Panelist "Fair Market Value Legislation." Presented at the National Association of Water Companies Water Summit, October 2018.

Walker, Harold. Panelist "Leveraging Water & Sewer to Address Roads, Schools, and Pension Obligations." Presented at the Maryland Association of Counties 2018 Summer Conference, August 2018.

Walker, Harold. Panelist "Is the Glass Half Full or Half Empty? Valuing Municipal Water Acquisitions." Presented at the Mid-Atlantic Conference of Regulatory Utilities Commissioners 23rd Annual Education Conference, June 2018.

Walker, Harold. "Valuation and Inventory of Governmental Assets Under GASB 34." Presented at the Society of Depreciation Professionals 21st Annual Conference, September 2007.

Walker, Harold. "The Paradox of State Regulatory Opinions and Investor Behavior." Presented at the National Association of Water Companies New England Chapter conference, November 2006.

Walker, Harold. "Valuation and Inventory Under GASB 34." Presented at the Government Finance Officers Association South Central Pennsylvania Regional Chapter conference, August 2003.

Walker, Harold. "Valuation and Inventory under GASB 34." Presented at the Government Finance Officers Association Southeastern Pennsylvania Regional Chapter conference, April 2002.

Walker, Harold. "GASB 34 & Your Infrastructure." *The Authority,* August 2001, Volume XXXII, No. 4, pages 10-13.

Walker, Harold. "Managing Risk." Conference Chairperson, presented at the Society of Utility & Regulatory Financial Analysts 33rd Financial Forum, April 2001.

Walker, Harold. "Paying for Your MSW System - Waste Generation Fees." Presented at the Federation of New York Solid Waste Association Solid Waste/Recycling Conference and Trade Show, May 2001.

Walker, Harold. "Statement No. 34 of the Government Accounting Standards Board." Presented at the Pennsylvania Association of Township Supervisors 79th Annual State Convention, April 2001.

Walker, Harold. "Cost of Capital Issues." Presented at the National Association of Water Companies New England Chapter conference, October 2000.

Walker, Harold, Timothy Hartman, and Mark Everett. "Waste Generation Study: Life After Flow Control." Presented at Waste Con 2000, October 1999.

Walker, Harold, and Timothy Hartman. "The Enhancement of Revenues Through a Waste Generation Study." Presented at SWANA's Planning and Management Symposium, July 1999.

COMPLIANCE & APPRAISAL CERTIFICATION

Compliance with Uniform Standards of Professional Appraisal Practice (USPAP) 2024*

Fulfillment of Requirements for a Personal Property Appraisal and Report

- **State the identity of the client and any intended users, by name or type:**

  The client is Aqua Pennsylvania, Inc. The intended users of the valuation are Aqua Pennsylvania, Inc., and the Pennsylvania Public Utility Commission ("PUC").

- **State the intended use of the appraisal**

  The intended use of the valuation is to comply with 66 Pa. C.S. Section 1329, Valuation of Acquired Water and Wastewater Systems and conduct a fair market value appraisal of the Greenville Municipal Water Authority water system assets ("Water System") in compliance with the Uniform Standards of Professional Appraisal Practices, employing the cost, market, and income approaches.

- **Describe information sufficient to identify the property, real, personal, and intangible, involved in the appraisal, including the physical and economic property characteristics relevant to the assignment.**

  The Greenville Municipal Water Authority ("GMWA") was incorporated in 1942 pursuant to an Ordinance of the Borough of Greenville. The GMWA is not a component unit of the Borough of Greenville. The GMWA operates under a five member board of directors appointed by appointed by the Borough of Greenville Council.

  The Borough of Greenville is located in northwestern Mercer County, near the western border of Pennsylvania. The Borough of Greenville is bordered by West Salem Township on its west and Hempfield Township on its north, east and south, and is bisected by the Shenango River.

  The GMWA owns, operates, and maintains the Water System which consists of a water treatment plant ("WTP"), a booster pump station, five storage tanks, about 40 miles of distribution mains, over 200 fire hydrants, associated infrastructure and appurtenances, and related land and land rights. The Water System directly serves 2,951 existing customer in the Borough of Greenville, part of Hempfield Township, part of West Salem Township, and part of Sugar Grove Township in Mercer County, Pennsylvania.

  The Water System's WTP, located in the Borough of Greenville, was initially built in the 1990s. The WTP's intake draws from the Shenango River with a permitted capacity of 2.016 million gallons per day ("MGD"). The pumping capacity of the raw and finished water is 1,400 gallons per minute ("GPM"). Various chemicals are used on-site for pre-treatment, iron and manganese suspension, and disinfection. In 1995, an upgrade was made to the WTP to treat backwash water from the clarifiers and filters. Treated water from the system is reintroduced to the

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Shenango River. Sludge cake from the belt filter press is hauled away for land application.

The booster pump station, constructed in 2024, has two pumps with a capacity of 500 GPM and a generator. The booster pump station is located in the Borough of Greenville.

The Water System's five water storage tanks include the West Tank 255,000-gallon ground storage tank (installed 1914), the South Tank 750,000-gallon ground storage tank (installed 1953), the North Tank 750,000-gallon ground storage tank (installed 1953), the East Tank #1 250,000-gallon standpipe storage tank (installed 1977), and the East Tank #2 1,000,000-gallon standpipe storage tank (installed 2011). The Water System's West Tank, South Tank, and North Tank are located on one parcel on the west side of the Borough of Greenville and the East Tank #1 and East Tank #2 are located on one parcel on the east side of the Borough of Greenville.

The Water System's 236,360 linear feet of water mains was installed between 1890 to 2023. About 20% of the mains are 4-inch or less, 57% are 6-inch or 8-inch, and 23% 10-inch or more. About 3% of the mains were installed in 1890, 8% were installed in the 1920s and 1930s, 7% were installed in the 1940s and 1950s, 19% were installed in the 1960s and 1970s, 14% were installed in the 1980s and 1990s, and 49% were installed since 2000. About 42% of the mains consist of polyvinyl chloride (PVC), 21% ductile iron pipe (DIP), and 21% cast iron pipe (CIP). The Water System also has 212 public and private fire hydrants, 601 valves, and 2,951 customer services and meters.

The Water System's unaccounted for water averaged 27% between 2017 and 2021 and decreased to 22% in 2022 and 2023 because of the 2022 and 2023 main replacement programs. Regardless of this fact, the Water System's unaccounted for water is slightly above typical water system water loss.

The Water System's land and land rights include land used for a water treatment plant, a pump station, five storage tanks, over 40 miles of mains, approximately 212 hydrants, associated infrastructure and appurtenances and multiple easements and rights-of-way necessary to operate the Water System.

- **State the real property interests appraised**

  The Water System's plant assets include land and land rights agreements necessary to access its property.

- **State the type and definition of value and cite the source of the definition,**

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including whether the opinion of value is in terms of cash or of financing terms equivalent to cash, or based on non-market financing or financing with unusual conditions or incentives

Fair market value is defined as:

> "The price, expressed in terms of cash equivalents, at which property would change hands between a hypothetical willing and able buyer and a hypothetical willing and able seller, acting at arm's length in an open and unrestricted market, when neither is under compulsion to buy or sell and when both have reasonable knowledge of the relevant facts." The International Glossary of Business Valuation Standards

- **State the effective date of the appraisal and the date of the report**

  The effective date of the appraisal is as of March 31, 2024, and the appraisal report date is June 12, 2025.

- **Describe sufficient information to disclose to the client and any other intended users of the appraisal the scope of work used to develop the appraisal**

  Gannett Fleming Valuation and Rate Consultants, LLC was retained by Aqua Pennsylvania, Inc. ("Aqua") to estimate the fair market value of the GMWA's water system assets ("Water System"), as of March 31, 2024, in compliance with the Uniform Standards of Professional Appraisal Practices ("USPAP"), considering the cost, market, and income approaches to valuation reflecting the Engineers Assessment's inventory.

  The intended use of the valuation is to comply with 66 Pa. C.S. Section 1329, Valuation of Acquired Water and Wastewater Systems and conduct a fair market value appraisal of the Water System in compliance with the Uniform Standards of Professional Appraisal Practices, employing the cost, market, and income approaches.

  As stated, the standard of value for this engagement is fair market value. The premise of value is the going concern. The going concern premise of business value assumes that the business will continue running normally using all its assets to produce income and will continue operating beyond the valuation date.

  We valued the Water System's assets as a group under the premise that the assets collectively comprise an ongoing operating business enterprise. Additionally, in

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accordance with 66 Pa. C.S. Section 1329, the original source of funding for any part of the Water System's assets was not relevant to the determination of the value of said assets.

We accepted all information and data provided by Aqua/GMWA as it pertains to this assignment "as is" after a limited review. That is, we neither audited nor verified any data, engineering assessment, financial record or operating data provided for this assignment. We assumed all title to all assets included in the appraisal is good and marketable, no hidden defects in the property or soil and no hazardous conditions or materials exist which could affect the assets.

The appraisal considered all three approaches to value: the cost, income, and market. Briefly the scopes of work for each are as follows:

The cost approach utilized the original cost method and replacement cost method. The reproduction cost method was calculated by trending (trended cost method) the asset inventory developed by Entech Engineering, Inc. from its original cost new inventory. The original cost method determined the original cost new measure of the cost of the assets when first constructed. The original cost new inventory was trended using the Handy Whitman Index of Public Utility Construction Costs for the water industry to produce the reproduction cost new and converted to replacement cost new after obsolescence was factored. The calculated accrued depreciation was determined for the original cost new and for the replacement cost new. The calculated accrued depreciation was based on the assets' attained ages, and the service life of the assets. The cost basis of depreciable assets was reduced annually by the accumulated depreciation to reflect the loss in the service value of the assets since being constructed. All land and land rights were valued at original cost.

Income Approach - The income approach utilized the capitalization of earning (cash flow) method and the discounted cash flow method. The capitalization of earning method converted a single base economic income number to a value by dividing it by a capitalization rate. The discounted cash flow method used estimates of future debt free net cash flow and discounted them to arrive at a present value or price of the cash flows. The capitalization rate and the discount rate were developed based on market debt and equity rates at the appraisal date. The discounted cash flow method reflected two types of discounted cash flow analyses, the EBIT and EBITDA terminal value model and a capitalization of terminal value model.

Market Approach - The market approach was developed based on the market multiples method and the selected transaction method. The market multiples method was based on the market price data of publicly traded corporations engaged

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in the same or a similar line of business as the Water System. The market price data of these comparable publicly traded corporations was used to calculate the market multiples for the comparable publicly traded corporations at the appraisal date. The selected transactions method used certain public information relating to the purchase or sales of businesses involved in the same or a similar business line as the Water System to calculate market multiples at the time of transaction (sale/purchase). The calculated market multiples determined by the market multiples method and the selected transaction method were then multiplied by the corresponding Water System financial and operating statistic to produce an indicated value for the Water System.

Reconciliation of the Valuation Approaches - The fair market value conclusion was based on reconciliation of each of the three approaches to value and the intended purpose of the appraisal.

- **Clearly and conspicuously:**
  - **State all extraordinary assumptions and hypothetical conditions;**

    There were no extraordinary assumptions required or hypothetical conditions in this appraisal.

  - **State that their use might have affected the assignment results**

    Not applicable.

- **Clearly and accurately disclose all assumptions, extraordinary assumptions, hypothetical conditions, and limiting conditions used in the assignment**

  Not applicable.

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Compliance with Uniform Standards of Professional Appraisal Practice (USPAP) 2024*

Fulfillment of Requirements for a Personal Property Appraisal and Report

- **Describe the information analyzed, the appraisal procedures followed, and the reasoning that supports the analyses, opinions, and conclusions**

  See scope of work above. Data collection on this assignment involved requests for records of the Water System, and site visit. The process utilized was confirming the valuation assignment, gathering the necessary information for the report activities, conducting, evaluating, and considering the cost approach, the income approach, and the market approach. Following the consideration of each distinct approach, Mr. Walker weighed the approaches utilizing his training, experience, and knowledge of the special purpose property market and the subject system. Following the reconciliation of the approaches, an Opinion of Value was determined and reported in the appraisal report.

- **State the use of the real estate existing as of the date of value and the use of the real estate reflected in the appraisal**

  The Water System's land and land rights include land used for a water treatment plant, a pump station, five storage tanks, over 40 miles of mains, approximately 212 hydrants, associated infrastructure and appurtenances and multiple easements and rights-of-way necessary to operate the Water System.

  The Water System's land and land rights were assumed to be used for the operation of the Water System for the appraisal.

- **State and describe the support and rationale for the appraiser's opinion of the highest and best use of the real estate**

  All land and land rights were assumed to be used for the operation of the Water System for the appraisal, were valued at original cost, and not at highest and best use of the real estate.

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Compliance with Uniform Standards of Professional Appraisal Practice (USPAP) 2024*

Fulfillment of Requirements for a Personal Property Appraisal and Report

- **State and explain any permitted departures from specific requirements of STANDARD 1 and the reason for excluding any of the usual valuation approaches. The appraisal then becomes a limited appraisal - a limited appraisal report must contain a prominent section that clearly identifies the extent of the appraisal process performed and the departures taken**

  No departures for Standard 1 were made.

- **Include a signed certification in accordance with Standards Rule 2-3**

  See attached for signed certification.

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APPRAISAL CERTIFICATION

Mercer County, Pennsylvania

Greenville Municipal Water Authority

Water System Assets

Fair Market Value Appraisal Report

As of March 31, 2024

Gannett Fleming Valuation and Rate Consultants, LLC certify that, to the best of its knowledge and belief:

- The statements of fact contained in this report are true and correct.

- The reported analyses, opinions, and conclusions are limited only by the reported assumptions and limiting conditions, and are our personal, impartial, and unbiased professional analyses, opinions, and conclusions.

- Gannett Fleming Valuation and Rate Consultants, LLC has not performed an appraisal of the Greenville Municipal Water Authority's Water System prior to this current appraisal.

- Gannett Fleming Valuation and Rate Consultants, LLC, nor its professional staff has any present or prospective interest in the property that is the subject of this report and has no interest or bias with respect to the parties involved.

- We have no bias with respect to the property that is the subject of this report or to the parties involved with this assignment.

- Our engagement in this assignment is not contingent upon developing or reporting predetermined results.

- Our compensation for completing this assignment is not contingent upon the development or reporting of a predetermined value or direction in value that favors the cause of the client, the amount of the value opinion, the attainment of a stipulated result, or the occurrence of a subsequent event directly related to the intended use of this appraisal.

- Our analyses, opinions, and conclusions were developed, and this report has been prepared, in conformity with the Uniform Standards of Professional Appraisal Practice (2024)

APPRAISAL CERTIFICATION
Mercer County, Pennsylvania
Greenville Municipal Water Authority
Water System Assets
Fair Market Value Appraisal Report
As of March 31, 2024

— The signers of this report relied upon Entech Engineering, Inc., who inspected the property that is the subject of this report. The signers of this report also relied on John Zagotti, Water Designer, Water, at Gannett Fleming, Inc., who viewed or observed the property that is the subject of this report.

— Individuals providing significant appraisal assistance to the person signing this certification include: John J. Spanos, President, Joanna Lappin, Depreciation Analyst and Gregory R. Herbert, Rate Analyst at Gannett Fleming Valuation and Rate Consultants, LLC.

Gannett Fleming Valuation and Rate Consultants, LLC

By,



HAROLD WALKER, III

Manager, Financial Studies

EXHIBITS

Greenville Municipal Water Authority Water System Assets
Selected Audited Financial Information

	12-Months Ended December 31:			
	2020	2021	2022	2023
Gross property, plant & equipment	20,589,628	20,948,737	28,385,927	30,733,353
Accumulated depreciation	7,449,700	7,800,832	12,488,701	12,127,189
Net property, plant & equipment	13,139,928	13,147,905	15,897,226	18,606,164
Assets	15,305,849	15,339,148	17,965,808	20,799,944
Debt Current	565,940	571,446	579,576	606,264
Debt	5,040,015	4,686,464	4,105,609	6,106,928
Equity	9,627,115	9,959,192	12,718,340	14,110,326
Total Capital	15,233,070	15,217,102	17,403,525	20,823,518
OPERATING REVENUES				
Charges for services	1,937,648	1,948,448	2,111,110	2,184,059
Other operating income	43,379	35,163	29,233	42,448
TOTAL OPERATING REVENUES	1,981,027	1,983,611	2,140,343	2,226,507
Expenses	1,180,115	1,359,687	1,594,861	1,475,349
Depreciation	347,516	369,597	393,673	361,512
TOTAL OPERATING EXPENSES	1,527,631	1,729,284	1,988,534	1,836,861
CAPX	651,253	329,699	2,740,347	2,959,807
Interest	87,111	79,164	68,465	68,790
Principal	558,377	564,208	571,446	579,575

Source of Information: Audited/DCED Financial Statements (2020-2023)

Elizabeth Borough MA Wastewater System Assets
Population, Housing Units, Customer Count, and Sales

	Total
Population in Houses (2023)	12,358
Occupied Housing Units (2023)	5,464
Average Size	2.26

Population to Customers 2.5

Customers (2023)	Customers	Average Customer Consumption	Total Volume Sold (1,000 Gallons)
Retail Customers			
Residential	2,575	34,908	89,888
Commercial	289	134,031	38,735
Industrial	3	901,333	2,704
Public	28	442,464	12,389
Other	56	19,321	1,082
Total	2,951		144,798

Unaccounted for Water

	2019	2020	2021	2022	2023
Unaccounted for Water	24.6%	26.2%	27.9%	22.3%	21.8%

Population and Housing Units (2023)

	Total Population	Population in Households	Occupied Housing Units	Persons Per Housing Unit	Estimated Population Served
Greenville Borough	5,610	5,014	2,185	2.29	5,610
Hempfield Township	3,657	3,501	1,588	2.20	1,280
West Salem Township	3,278	2,922	1,284	2.28	360
Sugar Grove Twp	921	921	407	2.26	6
Total	13,466	12,358	5,464	2.26	7,256

TABLE 3.1 US Population Census Counts, 2010 & 2020

State	Population 2010	Population 2020	Percentage Change
Alabama	4,779,736	5,024,279	5.1%
Alaska	710,231	733,391	3.3%
Arizona	6,392,017	7,151,502	11.9%
Arkansas	2,915,918	3,011,524	3.3%
California	37,253,956	39,538,223	6.1%
Colorado	5,029,196	5,773,714	14.8%
Connecticut	3,574,097	3,605,944	0.9%
Delaware	897,934	989,948	10.2%
District of Columbia	601,723	689,545	14.6%
Florida	18,801,310	21,538,187	14.6%
Georgia	9,687,653	10,711,908	10.6%
Hawaii	1,360,301	1,455,271	7.0%
Idaho	1,567,582	1,839,106	17.3%
Illinois	12,830,632	12,812,508	-0.1%
Indiana	6,483,802	6,785,528	4.7%
Iowa	3,046,355	3,190,369	4.7%
Kansas	2,853,118	2,937,880	3.0%
Kentucky	4,339,367	4,505,836	3.8%
Louisiana	4,533,372	4,657,757	2.7%
Maine	1,328,361	1,362,359	2.6%
Maryland	5,773,552	6,177,224	7.0%
Massachusetts	6,547,629	7,029,917	7.4%
Michigan	9,883,640	10,077,331	2.0%
Minnesota	5,303,925	5,706,494	7.6%
Mississippi	2,967,297	2,961,279	-0.2%
Missouri	5,988,927	6,154,913	2.8%
Montana	989,415	1,084,225	9.6%
Nebraska	1,826,341	1,961,504	7.4%
Nevada	2,700,551	3,104,614	15.0%
New Hampshire	1,316,470	1,377,529	4.6%
New Jersey	8,791,894	9,288,994	5.7%
New Mexico	2,059,179	2,117,522	2.8%
New York	19,378,102	20,201,249	4.2%
North Carolina	9,535,483	10,439,388	9.5%
North Dakota	672,591	779,094	15.8%
Ohio	11,536,504	11,799,448	2.3%
Oklahoma	3,751,351	3,959,353	5.5%
Oregon	3,831,074	4,237,256	10.6%
Pennsylvania	12,702,379	13,002,700	2.4%
Rhode Island	1,052,567	1,097,379	4.3%
South Carolina	4,625,364	5,118,425	10.7%
South Dakota	814,180	886,667	8.9%
Tennessee	6,346,105	6,910,840	8.9%
Texas	25,145,561	29,145,505	15.9%
Utah	2,763,885	3,271,616	18.4%
Vermont	625,741	643,077	2.8%
Virginia	8,001,024	8,631,393	7.9%
Washington	6,724,540	7,705,281	14.6%
West Virginia	1,852,994	1,793,716	-3.2%
Wisconsin	5,686,986	5,893,718	3.6%
Wyoming	563,626	576,851	2.3%
Total - States & D.C.	308,745,538	331,449,281	7.4%

Source: STATS Indiana, using U.S. Census Bureau data

TABLE 3.2 Pennsylvania Population Census by County and Municipality, 2010 & 2020

Geographic Area	Population 2010	Population 2020	Percentage Change	Municipal Growth Rank
Pennsylvania	12,702,379	13,002,700	2.4%	-
Mercer County	116,638	110,652	-5.1%	-
Greenville Borough	5,919	5,540	-6.4%	1,865 out of 2,572
Hempfield Township	3,741	3,735	-0.2%	1,006 out of 2,572
West Salem Township	3,538	3,216	-9.1%	2,124 out of 2,572
System Total	13,198	12,491	-5.4%	1,731 out of 2,572

Source: U.S. Census Bureau,Census 2020 Redistricting Data (Public Law 94-171) Summary File.

TABLE 3.3 Forecasted Population by Municipality, 2020-2040

	Population			Percentage Change		
	Estimate 2020	Forecast 2030	Forecast 2040	2020 to 2030	2030 to 2040	2020 to 2040
Greenville (D) B	5,519	5,084	4,670	-7.9%	-8.1%	-15.4%
Hempfield T	3,730	3,575	3,502	-4.2%	-2.0%	-6.1%
West Salem T	3,537	3,521	3,513	-0.5%	-0.2%	-0.7%
System Total	12,786	12,180	11,685	-4.7%	-4.1%	-8.6%

Source: Department of Environmental Protection.

Comparison of Credit Market Financial Risk Metrics
For Greenville Municipal Water Authority
And the Comparable Group
2021 - 2023 (1)

	Greenville Municipal Water Authority			Comparable Group		
	2023	2022	2021	2023	2022	2021
Debt Service Coverage	1.2	0.9	1.0	3.2	4.1	2.3
Pre-Tax Interest Coverage - Including AFC(2)(x)	5.7	2.2	3.2	3.5	3.6	4.4
Post-Tax Interest Coverage - Including AFC(2)(x)	5.7	2.2	3.2	3.0	3.1	3.7
GCF / Interest Coverage(3)(x)	10.9	8.0	7.9	4.7	5.1	5.9
GCF / Tot. Debt(4)(%)	10.2	10.2	10.4	14.1	16.2	18.2
GCF / Construction(5)(%)	23.1	17.4	165.2	61.9	68.2	73.2

Notes: (1) Average of the achieved results for each individual company based upon the financials as originally reported.
(2) Represents the number of times available earnings, including AFC, cover all interest charges.
(3) GCF or gross cash flow (sum of net income, depreciation, amortization, net deferred income taxes and investment tax credits, less AFC), plus interest charges, divided by interest charges.
(4) GCF (see note 3) as a percentage of total debt.
(5) The percent of GCF (see note 3) which cover gross construction expenditures.

Source: 2021-23 Annual Reports
S&P Capital IQ
EXHIBIT 1

Greenville Municipal Water Authority
Illustrating the Impact of Size on Risk and Retun
Through Common Stock Returns

TABLE 5.1 Change in Return and Risk for Size-Quartiles Portfolio of the NYSE/AMEX/NASDAQ Common Stocks (1)

	A	B	C	D	E	F	G	H	I	J
									Beta Adjusted	
Market Quartile	Market Quartile Name	Average Quartile Premium 1926-20 (%)	Standard Deviation of Return (%)	Change in Quartile Premium (%)	Largest Market Value in the Quartile (Mill $)	Quartile Beta	Comparison Group Beta	Beta Ratio	Quartile Size Premium (%)	Change in Quartile Premium (%)
(Largest Stocks)										
1	Large-Cap	0.00	19.9	--	1,966,079	1.00	0.78	78%	0.00	
2	Mid-Cap	2.48	24.3	2.48	13,179	1.13	0.78	69%	1.70	1.70
3	Low-Cap	3.95	28.5	1.47	2,446	1.23	0.78	63%	2.49	0.79
4	Mico-Cap	6.21	38.5	2.26	452	1.35	0.78	57%	3.57	1.08
(Smallest Stocks)										

Notes: (1) 2020 Stocks, Bonds, Bills, and Inflation (SBBI) Yearbook

TABLE 5.2 Recent Market Values and Ibbotson Associates Market Quartiles for the Comparable Group

	3/31/2024 Market Value (Mill $)	Market Quartile Name	Market Quartile
Comparable Group			
American States Water Co	2,672	Mid-Cap	2
American Water Works Co Inc	23,801	Large-Cap	1
Artesian Resources -Cl A	380	Mico-Cap	4
California Water Service Gp	2,681	Mid-Cap	2
Essential Utilities, Inc.	10,134	Mid-Cap	2
Middlesex Water Co	936	Low-Cap	3
SJW Corp	1,814	Low-Cap	3
York Water Co	520	Low-Cap	3
Median	2,243	Low-Cap	3

Greenville Municipal Water Authority
Property Plant & Equipment Analysis
Capital Expenditures Analysis
Growth Rate Analyses
Profit Margin Analyses

TABLE 6.1 Property Plant & Equipment Analysis

(Current Know Statistics)

	Gross Property, Plant & Equipment	Net Property, Plant & Equipment	Percentage of Property, Plant & Equipment Not Depreciated
	(Millions of $)		
Greenville Municipal Water Authority *	$27.382	$20.369	74%
Comparable Group			
American States Water Co	$2,532.952	$1,908.480	75%
American Water Works Co Inc	32,275.000	25,524.000	79%
Artesian Resources -CL A	904.705	718.483	79%
California Water Service Gp	4,905.949	3,765.909	77%
Essential Utilities, Inc.	15,014.437	12,134.488	81%
Middlesex Water Co	1,252.689	1,013.049	81%
SJW Corp	4,129.656	3,168.753	77%
York Water Co	612.887	495.273	81%
Median			79%

* - Developed on Exhibit 7.

TABLE 6.2 Property Plant & Equipment Analysis for Contributions

(As of 12/31/2023)

	Net Property, Plant & Equipment	Investor's Capital	Percentage of Property, Plant & Equipment Net of Contributions	2023 Percentage of Known "Cost Free" Capital
	(Millions of $)			
Comparable Group				
American States Water Co	$1,908.480	$1,693.992	89%	20%
American Water Works Co Inc	25,524.000	22,252.000	87%	13%
Artesian Resources -CL A	718.483	411.460	57%	43%
California Water Service Gp	3,765.909	2,677.319	71%	22%
Essential Utilities, Inc.	12,134.488	13,004.949	107%	20%
Middlesex Water Co	1,013.049	837.381	83%	23%
SJW Corp	3,168.753	2,980.571	94%	22%
York Water Co	495.273	401.817	81%	25%
Median			85%	22%

Greenville Municipal Water Authority
Property Plant & Equipment Analysis
Capital Expenditures Analysis
Growth Rate Analyses
Profit Margin Analyses

TABLE 6.3 Capital Expenditures Analysis

	PP&E-Total Net				Capital Expenditures			
	2023	2022	2021	2020	2023	2022	2021	2020
	(Millions of $)				(Millions of $)			
Greenville Municipal Water Authority	$18.606	$15.897	$13.148	$13.140	$2.960	$2.740	$0.330	$0.651
Comparable Group								
American States Water Co	$1,908.480	$1,772.106	$1,676.718	$1,557.936	$188.540	$166.240	$144.515	$130.423
American Water Works Co Inc	25,524.000	23,305.000	21,176.000	19,805.000	2,575.000	2,297.000	1,764.000	1,822.000
Artesian Resources -CL A	718.483	672.238	594.633	563.817	62.177	48.483	40.814	34.277
California Water Service Gp	3,765.909	3,470.882	2,849.059	2,654.027	386.563	335.523	293.194	298.651
Essential Utilities, Inc.	12,134.488	11,172.680	10,300.796	9,573.211	1,199.103	1,062.763	1,020.519	835.642
Middlesex Water Co	1,013.049	935.584	881.299	813.014	90.179	91.335	79.378	105.619
SJW Corp	3,168.753	2,654.825	2,518.530	2,356.988	271.772	218.784	233.933	195.323
York Water Co	495.273	431.901	383.626	344.365	65.265	53.920	46.400	33.299

	Capital Expenditures / PP&E-Total Net			
	2023	2022	2021	2020
Greenville Municipal Water Authority	16%	17%	3%	5%
Comparable Group				
American States Water Co	10%	9%	9%	8%
American Water Works Co Inc	10%	10%	8%	9%
Artesian Resources -CL A	9%	7%	7%	6%
California Water Service Gp	10%	10%	10%	11%
Essential Utilities, Inc.	10%	10%	10%	9%
Middlesex Water Co	9%	10%	9%	13%
SJW Corp	9%	8%	9%	8%
York Water Co	13%	12%	12%	10%
Median	10%	10%	9%	9%

Greenville Municipal Water Authority
Property Plant & Equipment Analysis
Capital Expenditures Analysis
Growth Rate Analyses
Profit Margin Analyses

	Revenues				EBITDA			
	2023	2022	2021	2020	2023	2022	2021	2020
	(Millions of $)				(Millions of $)			
Greenville Municipal Water Authority	$2.227	$2.140	$1.984	$1.981	$0.751	$0.545	$0.624	$0.801
Comparable Group								
American States Water Co	$595.699	$491.528	$498.853	$488.243	$241.422	$175.850	$185.064	$171.044
American Water Works Co Inc	4,234.000	3,792.000	3,930.000	3,777.000	1,306.476	1,154.957	1,102.741	917.849
Artesian Resources -CL A	98.861	98.897	90.859	88.141	433.284	387.423	380.137	340.460
California Water Service Gp	794.632	846.431	790.909	794.307	30.401	25.800	26.382	25.061
Essential Utilities, Inc.	2,053.824	2,288.032	1,878.144	1,462.698	147.867	140.577	127.710	122.709
Middlesex Water Co	166.274	162.434	143.141	141.592	38.056	33.947	35.841	28.720
SJW Corp	670.363	620.698	573.686	564.526	86.302	83.532	68.003	63.335
York Water Co	71.031	60.061	55.119	53.852	25.743	24.780	24.359	21.800

	EBIT			
	2023	2022	2021	2020
	(Millions of $)			
Greenville Municipal Water Authority	$0.390	$0.152	$0.254	$0.453
Comparable Group				
American States Water Co	$198.168	$134.153	$145.090	$133.840
American Water Works Co Inc	1,536.000	1,350.000	1,274.000	1,297.000
Artesian Resources -CL A	28.794	29.784	28.031	27.979
California Water Service Gp	82.135	145.352	139.248	143.065
Essential Utilities, Inc.	695.880	669.275	610.400	459.298
Middlesex Water Co	41.825	46.648	35.241	37.699
SJW Corp	148.205	129.804	107.206	117.296
York Water Co	28.449	23.208	22.182	23.069

Greenville Municipal Water Authority
Property Plant & Equipment Analysis
Capital Expenditures Analysis
Growth Rate Analyses
Profit Margin Analyses

TABLE 6.4 Growth Rate Analyses

	Revenue Growth			EBITDA Growth		
	2023	2022	2021	2023	2022	2021
Greenville Municipal Water Authority	4.1%	7.9%	0.2%	37.8%	-12.7%	-22.1%
Comparable Group						
American States Water Co	21.2%	-1.5%	2.2%	37.3%	-5.0%	8.2%
American Water Works Co Inc	11.7%	-3.5%	4.1%	13.1%	4.7%	20.1%
Artesian Resources -CL A	0.0%	8.8%	3.1%	11.8%	1.9%	11.7%
California Water Service Gp	-6.1%	7.0%	-0.4%	17.8%	-2.2%	5.3%
Essential Utilities, Inc.	-10.2%	21.8%	28.4%	5.2%	10.1%	4.1%
Middlesex Water Co	2.4%	13.5%	1.1%	12.1%	-5.3%	24.8%
SJW Corp	8.0%	8.2%	1.6%	3.3%	22.8%	7.4%
York Water Co	18.3%	9.0%	2.4%	3.9%	1.7%	11.7%
Median	5.2%	8.5%	2.3%	12.0%	1.8%	10.0%

	EBIT Growth		
	2023	2022	2021
Greenville Municipal Water Authority	156.6%	-40.2%	-43.9%
Comparable Group			
American States Water Co	47.7%	-7.5%	8.4%
American Water Works Co Inc	13.8%	6.0%	-1.8%
Artesian Resources -CL A	-3.3%	6.3%	0.2%
California Water Service Gp	-43.5%	4.4%	-2.7%
Essential Utilities, Inc.	4.0%	9.6%	32.9%
Middlesex Water Co	-10.3%	32.4%	-6.5%
SJW Corp	14.2%	21.1%	-8.6%
York Water Co	22.6%	4.6%	-3.8%
Median	8.9%	6.2%	-2.3%

Greenville Municipal Water Authority
Property Plant & Equipment Analysis
Capital Expenditures Analysis
Growth Rate Analyses
Profit Margin Analyses

TABLE 6.5 Profit Margin Analyses

	EBITDA / Revenue - Margin		
	2023	2022	2021
Greenville Municipal Water Authority	33.7%	25.5%	31.5%
Comparable Group			
American States Water Co	40.5%	35.8%	37.1%
American Water Works Co Inc	30.9%	30.5%	28.1%
Artesian Resources -CL A	438.3%	391.7%	418.4%
California Water Service Gp	3.8%	3.0%	3.3%
Essential Utilities, Inc.	7.2%	6.1%	6.8%
Middlesex Water Co	22.9%	20.9%	25.0%
SJW Corp	12.9%	13.5%	11.9%
York Water Co	36.2%	41.3%	44.2%
Median	26.9%	25.7%	26.5%

	EBIT / Revenue - Margin		
	2023	2022	2021
Greenville Municipal Water Authority	17.5%	7.1%	12.8%
Comparable Group			
American States Water Co	33.3%	27.3%	29.1%
American Water Works Co Inc	36.3%	35.6%	32.4%
Artesian Resources -CL A	29.1%	30.1%	30.9%
California Water Service Gp	10.3%	17.2%	17.6%
Essential Utilities, Inc.	33.9%	29.3%	32.5%
Middlesex Water Co	25.2%	28.7%	24.6%
SJW Corp	22.1%	20.9%	18.7%
York Water Co	40.1%	38.6%	40.2%
Median	31.2%	29.0%	30.0%

Source: S&P Capital IQ
EXHIBIT 1

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

SUMMARY OF ORIGINAL COST AND ACCRUED DEPRECIATION
OF WATER SYSTEM AS OF MARCH 31, 2024

ACCOUNT	DESCRIPTION	ORIGINAL COST	ACCRUED DEPRECIATION
(1)	(2)	(3)	(4)
303.00	LAND & LAND RIGHTS	38,144.00	
304.20	STRUCTURES AND IMPROVEMENTS PUMPING	749,500.00	1,499
304.30	STRUCTURES AND IMPROVEMENTS TREATMENT	6,784,447.05	3,242,966
310.00	POWER GENERATION EQUIPMENT	95,646.72	11,956
311.00	PUMPING EQUIPMENT	45,263.00	702
320.00	WATER TREATMENT EQUIPMENT	212,281.32	67,154
330.40	DISTRIBUTION STANDPIPES - TANKS	1,459,207.17	398,146
331.40	TRANS AND DIST MAINS	15,561,614.76	2,688,565
333.40	SERVICES	1,321,627.51	197,905
334.40	METERS	301,276.67	171,728
335.40	HYDRANTS	603,842.72	103,824
341.00	TRANSPORTATION EQUIPMENT	174,634.00	96,994
346.00	COMMUNICATION EQUIPMENT	35,012.95	32,095
	TOTAL COMPANY	**27,382,497.87**	**7,013,534**

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

SUMMARY OF ANALYSIS OF ORIGINAL COST
OF WATER SYSTEM AS OF MARCH 31, 2024

ACCOUNT	DESCRIPTION	ORIGINAL COST
(1)	(2)	(3)
303.00	LAND & LAND RIGHTS	38,144.00
304.20	STRUCTURES AND IMPROVEMENTS PUMPING	749,500.00
304.30	STRUCTURES AND IMPROVEMENTS TREATMENT	6,784,447.05
310.00	POWER GENERATION EQUIPMENT	95,646.72
311.00	PUMPING EQUIPMENT	45,263.00
320.00	WATER TREATMENT EQUIPMENT	212,281.32
330.40	DISTRIBUTION STANDPIPES - TANKS	1,459,207.17
331.40	TRANS AND DIST MAINS	15,561,614.76
333.40	SERVICES	1,321,627.51
334.40	METERS	301,276.67
335.40	HYDRANTS	603,842.72
341.00	TRANSPORTATION EQUIPMENT	174,634.00
346.00	COMMUNICATION EQUIPMENT	35,012.95
	TOTAL COMPANY	**27,382,497.87**

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

SUMMARY OF SERVICE LIFE ESTIMATES AND CALCULATED ACCRUED DEPRECIATION RELATED TO ORIGINAL COST AS OF MARCH 31, 2024

ACCOUNT	DESCRIPTION	SURVIVOR CURVE	ORIGINAL COST	ACCRUED DEPRECIATION
(1)	(2)	(3)	(4)	(5)
303.00	LAND & LAND RIGHTS	NONDEPRECIABLE	38,144.00	
304.20	STRUCTURES AND IMPROVEMENTS PUMPING	60-R3	749,500.00	1,499
304.30	STRUCTURES AND IMPROVEMENTS TREATMENT	65-R3	6,784,447.05	3,242,966
310.00	POWER GENERATION EQUIPMENT	30-S2	95,646.72	11,956
311.00	PUMPING EQUIPMENT	40-R1.5	45,263.00	702
320.00	WATER TREATMENT EQUIPMENT	50-R3	212,281.32	67,154
330.40	DISTRIBUTION STANDPIPES - TANKS	60-R2.5	1,459,207.17	398,146
331.40	TRANS AND DIST MAINS	85-R3	15,561,614.76	2,688,565
333.40	SERVICES	70-R2.5	1,321,627.51	197,905
334.40	METERS	25-L3	301,276.67	171,728
335.40	HYDRANTS	70-R2.5	603,842.72	103,824
341.00	TRANSPORTATION EQUIPMENT	11-S1.5	174,634.00	96,994
346.00	COMMUNICATION EQUIPMENT	15-SQ	35,012.95	32,095
	TOTAL COMPANY		**27,382,497.87**	**7,013,534**

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

SUMMARY OF ORIGINAL COST NEW AND ORIGINAL COST NEW LESS DEPRECIATION
OF WATER SYSTEM AS OF MARCH 31, 2024

	DESCRIPTION (1)		ORIGINAL COST (2)
1.	ORIGINAL COST NEW	$	27,382,498
2.	LESS: ACCRUED DEPRECIATION	–	7,013,534
3.	**OCNLD**	**$**	**20,368,964**

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 303.00 LAND AND LAND RIGHTS

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AT MARCH 31, 2024

YEAR	ORIGINAL COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
NONDEPRECIABLE							
2000	143.00						
2013	750.00						
2014	1.00						
2018	1,000.00						
2019	35,000.00						
2021	1,250.00						
	38,144.00						

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 304.20 STRUCTURES AND IMPROVEMENTS PUMPING

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AT MARCH 31, 2024

YEAR	ORIGINAL COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 60-R3							
NET SALVAGE PERCENT.. 0							
2024	749,500.00	60.00	1.67	12,516.65	59.88	0.0020	1,499
	749,500.00			12,516.65			1,499

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 304.30 STRUCTURES AND IMPROVEMENTS TREATMENT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AT MARCH 31, 2024

YEAR	ORIGINAL COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 65-R3							
NET SALVAGE PERCENT.. 0							
1990	6,784,447.05	65.00	1.54	104,480.48	33.93	0.4780	3,242,966
	6,784,447.05			104,480.48			3,242,966

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 310.00 POWER GENERATION EQUIPMENT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AT MARCH 31, 2024

YEAR	ORIGINAL COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 30-S2							
NET SALVAGE PERCENT.. 0							
2020	95,646.72	30.00	3.33	3,185.04	26.25	0.1250	11,956
	95,646.72			3,185.04			11,956

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 311.00 PUMPING EQUIPMENT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AT MARCH 31, 2024

YEAR	ORIGINAL COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 40-R1.5							
NET SALVAGE PERCENT.. 0							
2023	45,263.00	40.00	2.50	1,131.58	39.38	0.0155	702
	45,263.00			1,131.58			702

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 320.00 WATER TREATMENT EQUIPMENT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AT MARCH 31, 2024

YEAR	ORIGINAL COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 50-R3							
NET SALVAGE PERCENT.. 0							
1995	122,545.32	50.00	2.00	2,450.91	23.86	0.5228	64,067
2022	89,736.00	50.00	2.00	1,794.72	48.28	0.0344	3,087
	212,281.32			4,245.63			67,154

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 330.40 DISTRIBUTION STANDPIPES - TANKS

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AT MARCH 31, 2024

YEAR	ORIGINAL COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 60-R2.5							
NET SALVAGE PERCENT.. 0							
1914	3,397.13	60.00	1.67	56.73	0.46	0.9923	3,371
1953	95,426.78	60.00	1.67	1,593.63	10.21	0.8298	79,188
1977	132,732.71	60.00	1.67	2,216.64	21.63	0.6395	84,883
2011	1,126,980.55	60.00	1.67	18,820.58	48.23	0.1962	221,080
2014	9,500.00	60.00	1.67	158.65	50.94	0.1510	1,434
2018	91,170.00	60.00	1.67	1,522.54	54.61	0.0898	8,190
	1,459,207.17			24,368.77			398,146

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 331.40 TRANS AND DIST MAINS

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AT MARCH 31, 2024

YEAR	ORIGINAL COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 85-R3							
NET SALVAGE PERCENT.. 0							
1890	7,684.91	85.00	1.18	90.68	2.35	0.9724	7,472
1920	39,713.13	85.00	1.18	468.61	10.15	0.8806	34,971
1930	16,058.11	85.00	1.18	189.49	13.46	0.8417	13,515
1940	38,508.23	85.00	1.18	454.40	17.75	0.7912	30,467
1950	26,245.28	85.00	1.18	309.69	23.14	0.7278	19,100
1960	101,474.59	85.00	1.18	1,197.40	29.54	0.6525	66,209
1970	659,855.43	85.00	1.18	7,786.29	36.77	0.5674	374,409
1980	529,258.51	85.00	1.18	6,245.25	44.69	0.4742	250,996
1985	9,511.53	85.00	1.18	112.24	48.88	0.4249	4,042
1990	251,377.99	85.00	1.18	2,966.26	53.20	0.3741	94,046
1996	613,932.96	85.00	1.18	7,244.41	58.55	0.3112	191,044
1999	1,126,610.96	85.00	1.18	13,294.01	61.29	0.2789	314,257
2000	14,748.87	85.00	1.18	174.04	62.21	0.2681	3,954
2001	508,866.02	85.00	1.18	6,004.62	63.13	0.2573	130,926
2003	495,185.52	85.00	1.18	5,843.19	65.00	0.2353	116,512
2004	1,085,223.36	85.00	1.18	12,805.64	65.93	0.2244	243,470
2007	100,849.08	85.00	1.18	1,190.02	68.76	0.1911	19,268
2008	489,121.84	85.00	1.18	5,771.64	69.71	0.1799	87,983
2010	403,121.07	85.00	1.18	4,756.83	71.62	0.1574	63,455
2013	3,092,629.92	85.00	1.18	36,493.03	74.51	0.1234	381,661
2014	274,880.89	85.00	1.18	3,243.59	75.47	0.1121	30,820
2015	387,374.69	85.00	1.18	4,571.02	76.44	0.1007	39,013
2016	130,233.29	85.00	1.18	1,536.75	77.41	0.0893	11,629
2018	1,151,071.80	85.00	1.18	13,582.65	79.36	0.0664	76,374
2020	812,691.55	85.00	1.18	9,589.76	81.32	0.0433	35,181
2022	1,731,011.66	85.00	1.18	20,425.94	83.28	0.0202	35,036
2023	1,464,373.57	85.00	1.18	17,279.61	84.26	0.0087	12,755
	15,561,614.76			183,627.06			2,688,565

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 333.40 SERVICES

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AT MARCH 31, 2024

YEAR	ORIGINAL COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 70-R2.5							
NET SALVAGE PERCENT.. 0							
1890	50.92	70.00				1.0000	51
1920	1,977.67	70.00	1.43	28.28	6.55	0.9064	1,793
1930	1,249.27	70.00	1.43	17.86	8.85	0.8736	1,091
1940	3,794.69	70.00	1.43	54.26	11.54	0.8351	3,169
1950	3,465.36	70.00	1.43	49.55	15.09	0.7844	2,718
1960	4,708.05	70.00	1.43	67.33	19.84	0.7166	3,374
1970	42,559.11	70.00	1.43	608.60	25.75	0.6321	26,903
1980	34,018.32	70.00	1.43	486.46	32.61	0.5341	18,171
1985	921.88	70.00	1.43	13.18	36.33	0.4810	443
1990	13,318.22	70.00	1.43	190.45	40.23	0.4253	5,664
1996	22,484.16	70.00	1.43	321.52	45.11	0.3556	7,995
1999	29,204.25	70.00	1.43	417.62	47.64	0.3194	9,329
2000	4,101.30	70.00	1.43	58.65	48.49	0.3073	1,260
2001	14,918.61	70.00	1.43	213.34	49.34	0.2951	4,403
2003	20,594.64	70.00	1.43	294.50	51.07	0.2704	5,569
2004	12,508.50	70.00	1.43	178.87	51.95	0.2579	3,225
2008	82,833.15	70.00	1.43	1,184.51	55.48	0.2074	17,182
2013	436,779.30	70.00	1.43	6,245.94	60.00	0.1429	62,398
2015	28,955.18	70.00	1.43	414.06	61.83	0.1167	3,379
2016	10,543.25	70.00	1.43	150.77	62.75	0.1036	1,092
2018	71,098.82	70.00	1.43	1,016.71	64.61	0.0770	5,475
2020	142,358.12	70.00	1.43	2,035.72	66.47	0.0504	7,179
2022	193,745.12	70.00	1.43	2,770.56	68.35	0.0236	4,567
2023	145,439.62	70.00	1.43	2,079.79	69.29	0.0101	1,475
	1,321,627.51			18,898.53			197,905

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 334.40 METERS

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AT MARCH 31, 2024

YEAR	ORIGINAL COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 25-L3							
NET SALVAGE PERCENT.. 0							
2008	301,276.67	25.00	4.00	12,051.07	10.75	0.5700	171,728
	301,276.67			12,051.07			171,728

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 335.40 HYDRANTS

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AT MARCH 31, 2024

YEAR	ORIGINAL COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 70-R2.5							
NET SALVAGE PERCENT.. 0							
1890	367.47	70.00				1.0000	367
1920	1,545.19	70.00	1.43	22.10	6.55	0.9064	1,401
1930	480.65	70.00	1.43	6.87	8.85	0.8736	420
1940	916.79	70.00	1.43	13.11	11.54	0.8351	766
1950	724.53	70.00	1.43	10.36	15.09	0.7844	568
1960	3,121.63	70.00	1.43	44.64	19.84	0.7166	2,237
1970	18,965.12	70.00	1.43	271.20	25.75	0.6321	11,989
1980	16,861.62	70.00	1.43	241.12	32.61	0.5341	9,006
1990	11,204.14	70.00	1.43	160.22	40.23	0.4253	4,765
1996	10,645.36	70.00	1.43	152.23	45.11	0.3556	3,785
1999	28,692.27	70.00	1.43	410.30	47.64	0.3194	9,165
2001	3,003.71	70.00	1.43	42.95	49.34	0.2951	887
2003	28,529.37	70.00	1.43	407.97	51.07	0.2704	7,715
2004	13,477.17	70.00	1.43	192.72	51.95	0.2579	3,475
2008	19,675.92	70.00	1.43	281.37	55.48	0.2074	4,081
2010	20,833.74	70.00	1.43	297.92	57.28	0.1817	3,786
2013	167,275.59	70.00	1.43	2,392.04	60.00	0.1429	23,897
2014	18,576.34	70.00	1.43	265.64	60.91	0.1299	2,412
2015	19,000.64	70.00	1.43	271.71	61.83	0.1167	2,218
2016	9,792.02	70.00	1.43	140.03	62.75	0.1036	1,014
2018	89,052.58	70.00	1.43	1,273.45	64.61	0.0770	6,857
2020	21,718.80	70.00	1.43	310.58	66.47	0.0504	1,095
2022	67,753.81	70.00	1.43	968.88	68.35	0.0236	1,597
2023	31,628.26	70.00	1.43	452.28	69.29	0.0101	321
	603,842.72			8,629.69			103,824

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 341.00 TRANSPORTATION EQUIPMENT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AT MARCH 31, 2024

YEAR	ORIGINAL COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 11-S1.5							
NET SALVAGE PERCENT.. 0							
1999	27,170.00	11.00				1.0000	27,170
2007	3,000.00	11.00	9.09	272.70	1.35	0.8773	2,632
2013	30,000.00	11.00	9.09	2,727.00	3.26	0.7036	21,109
2017	37,080.00	11.00	9.09	3,370.57	5.29	0.5191	19,248
2018	37,550.00	11.00	9.09	3,413.30	5.95	0.4591	17,239
2021	39,834.00	11.00	9.09	3,620.91	8.35	0.2409	9,596
	174,634.00			13,404.48			96,994

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 346.00 COMMUNICATION EQUIPMENT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO ORIGINAL COST AT MARCH 31, 2024

YEAR	ORIGINAL COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. 15-SQUARE NET SALVAGE PERCENT.. 0							
2010	35,012.95	15.00	6.67	2,335.36	1.25	0.9167	32,095
	35,012.95			2,335.36			32,095

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

SUMMARY OF REPLACEMENT COST AND ACCRUED DEPRECIATION
OF WATER SYSTEM AS OF MARCH 31, 2024

ACCOUNT	DESCRIPTION	REPLACEMENT COST	ACCRUED DEPRECIATION
(1)	(2)	(3)	(4)
303.00	LAND & LAND RIGHTS	38,144.00	
304.20	STRUCTURES AND IMPROVEMENTS PUMPING	749,500.00	1,499
304.30	STRUCTURES AND IMPROVEMENTS TREATMENT	24,383,953.60	11,655,530
310.00	POWER GENERATION EQUIPMENT	132,634.58	16,579
311.00	PUMPING EQUIPMENT	48,075.27	745
320.00	WATER TREATMENT EQUIPMENT	515,925.29	220,101
330.40	DISTRIBUTION STANDPIPES - TANKS	7,611,143.89	5,060,305
331.40	TRANS AND DIST MAINS	47,836,764.09	18,132,689
333.40	SERVICES	3,074,089.52	1,189,989
334.40	METERS	867,482.96	494,465
335.40	HYDRANTS	1,740,846.32	667,022
341.00	TRANSPORTATION EQUIPMENT	198,162.96	112,479
346.00	COMMUNICATION EQUIPMENT	37,608.44	34,475
	TOTAL COMPANY	**87,234,330.92**	**37,585,878**

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

SUMMARY OF ANALYSIS OF REPLACEMENT COST
OF WATER SYSTEM AS OF MARCH 31, 2024

ACCOUNT	DESCRIPTION	REPLACEMENT COST
(1)	(2)	(3)
303.00	LAND & LAND RIGHTS	38,144.00
304.20	STRUCTURES AND IMPROVEMENTS PUMPING	749,500.00
304.30	STRUCTURES AND IMPROVEMENTS TREATMENT	24,383,953.60
310.00	POWER GENERATION EQUIPMENT	132,634.58
311.00	PUMPING EQUIPMENT	48,075.27
320.00	WATER TREATMENT EQUIPMENT	515,925.29
330.40	DISTRIBUTION STANDPIPES - TANKS	7,611,143.89
331.40	TRANS AND DIST MAINS	47,836,764.09
333.40	SERVICES	3,074,089.52
334.40	METERS	867,482.96
335.40	HYDRANTS	1,740,846.32
341.00	TRANSPORTATION EQUIPMENT	198,162.96
346.00	COMMUNICATION EQUIPMENT	37,608.44
	TOTAL COMPANY	**87,234,330.92**

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

SUMMARY OF SERVICE LIFE ESTIMATES AND CALCULATED ACCRUED DEPRECIATION RELATED TO REPLACEMENT COST AS OF MARCH 31, 2024

ACCOUNT	DESCRIPTION	SURVIVOR CURVE	REPLACEMENT COST	ACCRUED DEPRECIATION
(1)	(2)	(3)	(4)	(5)
303.00	LAND & LAND RIGHTS	NONDEPRECIABLE	38,144.00	
304.20	STRUCTURES AND IMPROVEMENTS PUMPING	60-R3	749,500.00	1,499
304.30	STRUCTURES AND IMPROVEMENTS TREATMENT	65-R3	24,383,953.60	11,655,530
310.00	POWER GENERATION EQUIPMENT	30-S2	132,634.58	16,579
311.00	PUMPING EQUIPMENT	40-R1.5	48,075.27	745
320.00	WATER TREATMENT EQUIPMENT	50-R3	515,925.29	220,101
330.40	DISTRIBUTION STANDPIPES - TANKS	60-R2.5	7,611,143.89	5,060,305
331.40	TRANS AND DIST MAINS	85-R3	47,836,764.09	18,132,689
333.40	SERVICES	70-R2.5	3,074,089.52	1,189,989
334.40	METERS	25-L3	867,482.96	494,465
335.40	HYDRANTS	70-R2.5	1,740,846.32	667,022
341.00	TRANSPORTATION EQUIPMENT	11-S1.5	198,162.96	112,479
346.00	COMMUNICATION EQUIPMENT	15-SQ	37,608.44	34,475
	TOTAL COMPANY		**87,234,330.92**	**37,585,878**

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

SUMMARY OF REPLACEMENT COST NEW AND REPLACEMENT COST NEW LESS DEPRECIATION OF WATER SYSTEM AS OF MARCH 31, 2024

	DESCRIPTION (1)		REPLACEMENT COST (2)
1.	REPLACEMENT COST NEW		$ 87,234,331
2.	LESS: ACCRUED DEPRECIATION	−	37,585,878
3.	PRELIMINARY RCNLD		49,648,453
4.	DETERMINATION OF ECONOMIC OBSOLESCENCE		
5.	MAXIMUM ECONOMIC VALUE	−	45,744,729
6.	DIFFERENCE		3,903,724
7.	WEIGHT GIVEN ECONOMIC VALUES	×	66.67%
8.	ECONOMIC OBSOLESCENCE		$ 2,602,483
9.	DETERMINATION OF RCNLD		
10.	REPLACEMENT COST NEW		$ 87,234,331
11.	LESS: ACCRUED DEPRECIATION (PHYSICAL DETERIORATION)	−	37,585,878
12.	PRELIMINARY RCNLD		49,648,453
13.	LESS: FUNCTIONAL OBSOLESCENCE	−	833,000
14.	ADJUSTED RCNLD AFTER FO		48,815,453
15.	LESS: ECONOMIC OBSOLESCENCE	−	2,602,483
16.	ADJUSTED RCNLD AFTER FO & EO		$ 46,212,970
17.	**CONCLUSION RCNLD**		**$ 46,212,970**

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

SUMMARY OF REPLACEMENT COST AND TRANSITION FACTORS BY ACCOUNT AND VINTAGE YEAR
OF WATER SYSTEM AS OF MARCH 31, 2024

ACCOUNT	DESCRIPTION	VINTAGE YEAR	BASE COST	TRANSITION FACTOR	FACTOR REFERENCE	REPLACEMENT COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)
303.00	LAND & LAND RIGHTS	2000	143.00	1.00000	(1)	143.00
303.00	LAND & LAND RIGHTS	2013	750.00	1.00000	(1)	750.00
303.00	LAND & LAND RIGHTS	2014	1.00	1.00000	(1)	1.00
303.00	LAND & LAND RIGHTS	2018	1,000.00	1.00000	(1)	1,000.00
303.00	LAND & LAND RIGHTS	2019	35,000.00	1.00000	(1)	35,000.00
303.00	LAND & LAND RIGHTS	2021	1,250.00	1.00000	(1)	1,250.00
304.20	STRUCTURES AND IMPROVEMENTS PUMPING	2024	749,500.00	1.00000	(2)	749,500.00
304.30	STRUCTURES AND IMPROVEMENTS TREATMENT	1990	6,784,447.05	3.59410	(2)	24,383,953.60
310.00	POWER GENERATION EQUIPMENT	2020	95,646.72	1.38671	(3)	132,634.58
311.00	PUMPING EQUIPMENT	2023	45,263.00	1.06213	(3)	48,075.27
320.00	WATER TREATMENT EQUIPMENT	1995	122,545.32	3.38095	(4)	414,319.89
320.00	WATER TREATMENT EQUIPMENT	2022	89,736.00	1.13227	(4)	101,605.40
330.40	DISTRIBUTION STANDPIPES - TANKS	1914	3,397.13	308.00000	(5)	1,046,316.04
330.40	DISTRIBUTION STANDPIPES - TANKS	1953	95,426.78	38.50000	(5)	3,673,931.03
330.40	DISTRIBUTION STANDPIPES - TANKS	1977	132,732.71	7.16279	(5)	950,736.62
330.40	DISTRIBUTION STANDPIPES - TANKS	2011	1,126,980.55	1.58559	(5)	1,786,924.12
330.40	DISTRIBUTION STANDPIPES - TANKS	2014	9,500.00	1.67619	(5)	15,923.81
330.40	DISTRIBUTION STANDPIPES - TANKS	2018	91,170.00	1.50611	(5)	137,312.27
331.40	TRANS AND DIST MAINS	1890	7,684.91	129.44444	(6)	994,768.91
331.40	TRANS AND DIST MAINS	1920	39,713.13	52.95455	(6)	2,102,990.75
331.40	TRANS AND DIST MAINS	1930	16,058.11	58.25000	(6)	935,384.91
331.40	TRANS AND DIST MAINS	1940	38,508.23	48.54167	(6)	1,869,253.66
331.40	TRANS AND DIST MAINS	1950	26,245.28	27.09302	(6)	711,063.98
331.40	TRANS AND DIST MAINS	1960	101,474.59	17.13235	(6)	1,738,498.49
331.40	TRANS AND DIST MAINS	1970	659,855.43	13.86905	(6)	9,151,566.38
331.40	TRANS AND DIST MAINS	1980	529,258.51	5.76733	(6)	3,052,406.75
331.40	TRANS AND DIST MAINS	1985	9,511.53	4.58661	(6)	43,625.72
331.40	TRANS AND DIST MAINS	1990	251,377.99	3.87043	(6)	972,941.39
331.40	TRANS AND DIST MAINS	1996	613,932.96	3.43658	(6)	2,109,828.61
331.40	TRANS AND DIST MAINS	1999	1,126,610.96	3.22715	(6)	3,635,738.97
331.40	TRANS AND DIST MAINS	2000	14,748.87	3.09019	(6)	45,576.75
331.40	TRANS AND DIST MAINS	2001	508,866.02	2.97954	(6)	1,516,186.48
331.40	TRANS AND DIST MAINS	2003	495,185.52	2.86241	(6)	1,417,422.93
331.40	TRANS AND DIST MAINS	2004	1,085,223.36	2.69676	(6)	2,926,586.14
331.40	TRANS AND DIST MAINS	2007	100,849.08	2.19811	(6)	221,677.69
331.40	TRANS AND DIST MAINS	2008	489,121.84	1.98129	(6)	969,093.44
331.40	TRANS AND DIST MAINS	2010	403,121.07	1.86699	(6)	752,621.87
331.40	TRANS AND DIST MAINS	2013	3,092,629.92	1.66191	(6)	5,139,677.40
331.40	TRANS AND DIST MAINS	2014	274,880.89	1.59371	(6)	438,079.67
331.40	TRANS AND DIST MAINS	2015	387,374.69	1.57432	(6)	609,853.40
331.40	TRANS AND DIST MAINS	2016	130,233.29	1.54305	(6)	200,956.00
331.40	TRANS AND DIST MAINS	2018	1,151,071.80	1.45081	(6)	1,669,985.86
331.40	TRANS AND DIST MAINS	2020	812,691.55	1.35781	(6)	1,103,479.79
331.40	TRANS AND DIST MAINS	2022	1,731,011.66	1.13437	(6)	1,963,611.08
331.40	TRANS AND DIST MAINS	2023	1,464,373.57	1.05430	(6)	1,543,887.07
333.40	SERVICES	1890	50.92	145.83333	(7)	7,425.83
333.40	SERVICES	1920	1,977.67	72.91667	(7)	144,205.10
333.40	SERVICES	1930	1,249.27	62.50000	(7)	78,079.38
333.40	SERVICES	1940	3,794.69	62.50000	(7)	237,168.13
333.40	SERVICES	1950	3,465.36	31.25000	(7)	108,292.50
333.40	SERVICES	1960	4,708.05	18.22917	(7)	85,823.83
333.40	SERVICES	1970	42,559.11	11.07595	(7)	471,382.55
333.40	SERVICES	1980	34,018.32	5.00000	(7)	170,091.60
333.40	SERVICES	1985	921.88	3.95928	(7)	3,649.98
333.40	SERVICES	1990	13,318.22	3.33969	(7)	44,478.79
333.40	SERVICES	1996	22,484.16	2.72586	(7)	61,288.60
333.40	SERVICES	1999	29,204.25	2.61976	(7)	76,508.14
333.40	SERVICES	2000	4,101.30	2.51437	(7)	10,312.18
333.40	SERVICES	2001	14,918.61	2.47175	(7)	36,875.10
333.40	SERVICES	2003	20,594.64	2.37772	(7)	48,968.23
333.40	SERVICES	2004	12,508.50	2.25515	(7)	28,208.60
333.40	SERVICES	2008	82,833.15	1.70233	(7)	141,009.74
333.40	SERVICES	2013	436,779.30	1.45349	(7)	634,853.63

GREENVILLE MUNICIPAL WATER AUTHORITY
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SUMMARY OF REPLACEMENT COST AND TRANSITION FACTORS BY ACCOUNT AND VINTAGE YEAR
OF WATER SYSTEM AS OF MARCH 31, 2024

ACCOUNT	DESCRIPTION	VINTAGE YEAR	BASE COST	TRANSITION FACTOR	FACTOR REFERENCE	REPLACEMENT COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)
333.40	SERVICES	2015	28,955.18	1.41586	(7)	40,996.41
333.40	SERVICES	2016	10,543.25	1.40224	(7)	14,784.20
333.40	SERVICES	2018	71,098.82	1.30988	(7)	93,130.94
333.40	SERVICES	2020	142,358.12	1.24113	(7)	176,685.61
333.40	SERVICES	2022	193,745.12	1.08831	(7)	210,854.45
333.40	SERVICES	2023	145,439.62	1.02459	(7)	149,016.00
334.40	METERS	2008	301,276.67	2.87936	(8)	867,482.96
335.40	HYDRANTS	1890	367.47	42.11429	(9)	15,475.74
335.40	HYDRANTS	1920	1,545.19	42.11429	(9)	65,074.57
335.40	HYDRANTS	1930	480.65	42.11429	(9)	20,242.23
335.40	HYDRANTS	1940	916.79	42.11429	(9)	38,609.96
335.40	HYDRANTS	1950	724.53	39.83784	(9)	28,863.71
335.40	HYDRANTS	1960	3,121.63	27.29630	(9)	85,208.94
335.40	HYDRANTS	1970	18,965.12	18.42500	(9)	349,432.34
335.40	HYDRANTS	1980	16,861.62	7.12077	(9)	120,067.77
335.40	HYDRANTS	1990	11,204.14	4.06061	(9)	45,495.60
335.40	HYDRANTS	1996	10,645.36	3.52632	(9)	37,538.90
335.40	HYDRANTS	1999	28,692.27	2.90157	(9)	83,252.77
335.40	HYDRANTS	2001	3,003.71	2.67514	(9)	8,035.33
335.40	HYDRANTS	2003	28,529.37	2.58596	(9)	73,775.95
335.40	HYDRANTS	2004	13,477.17	2.51966	(9)	33,957.86
335.40	HYDRANTS	2008	19,675.92	2.08782	(9)	41,079.75
335.40	HYDRANTS	2010	20,833.74	2.02473	(9)	42,182.60
335.40	HYDRANTS	2013	167,275.59	1.87294	(9)	313,296.34
335.40	HYDRANTS	2014	18,576.34	1.74232	(9)	32,365.87
335.40	HYDRANTS	2015	19,000.64	1.59008	(9)	30,212.45
335.40	HYDRANTS	2016	9,792.02	1.51335	(9)	14,818.72
335.40	HYDRANTS	2018	89,052.58	1.43525	(9)	127,812.56
335.40	HYDRANTS	2020	21,718.80	1.31256	(9)	28,507.13
335.40	HYDRANTS	2022	67,753.81	1.07985	(9)	73,164.19
335.40	HYDRANTS	2023	31,628.26	1.02361	(9)	32,375.04
341.00	TRANSPORTATION EQUIPMENT	1999	27,170.00	1.22822	(10)	33,370.69
341.00	TRANSPORTATION EQUIPMENT	2007	3,000.00	1.28934	(10)	3,868.02
341.00	TRANSPORTATION EQUIPMENT	2013	30,000.00	1.18440	(10)	35,532.13
341.00	TRANSPORTATION EQUIPMENT	2017	37,080.00	1.11171	(10)	41,222.20
341.00	TRANSPORTATION EQUIPMENT	2018	37,550.00	1.10313	(10)	41,422.37
341.00	TRANSPORTATION EQUIPMENT	2021	39,834.00	1.07314	(10)	42,747.55
346.00	COMMUNICATION EQUIPMENT	2010	35,012.95	1.07413	(11)	37,608.44
	TOTAL COMPANY		**27,382,497.87**			**87,234,330.92**

NOTES : (1) Not trended
(2) Handy-Whitman Index of Public Utility Costs, 1/1/24, Cost Trends of Water Utility Construction, North Atlantic Region, Line 8
(3) Handy-Whitman Index of Public Utility Costs, 1/1/24, Cost Trends of Water Utility Construction, North Atlantic Region, Line 9
(4) Handy-Whitman Index of Public Utility Costs, 1/1/24, Cost Trends of Water Utility Construction, North Atlantic Region, Line 16
(5) Handy-Whitman Index of Public Utility Costs, 1/1/24, Cost Trends of Water Utility Construction, North Atlantic Region, Line 23
(6) Handy-Whitman Index of Public Utility Costs, 1/1/24, Cost Trends of Water Utility Construction, North Atlantic Region, Line 34
(7) Handy-Whitman Index of Public Utility Costs, 1/1/24, Cost Trends of Water Utility Construction, North Atlantic Region, Line 39
(8) Handy-Whitman Index of Public Utility Costs, 1/1/24, Cost Trends of Water Utility Construction, North Atlantic Region, Line 40
(9) Handy-Whitman Index of Public Utility Costs, 1/1/24, Cost Trends of Water Utility Construction, North Atlantic Region, Line 42
(10) U.S. Bureau of Labor Statistics, Producer Price Index, Series Title: PPI industry data for Automobile, light truck and utility vehicle mfg, not seasonally adjusted
(11) U.S. Bureau of Labor Statistics, Producer Price Index, Series Title: PPI industry group data for Communications equipment mfg, not seasonally adjusted

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 303.00 LAND AND LAND RIGHTS

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO REPLACEMENT COST AT MARCH 31, 2024

	REPLACEMENT	AVG.	--ANNUAL ACCRUAL--			--ACCRUED DEPREC.--	
YEAR	COST	LIFE	RATE	AMOUNT	EXP.	FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
NONDEPRECIABLE							
2000	143.00						
2013	750.00						
2014	1.00						
2018	1,000.00						
2019	35,000.00						
2021	1,250.00						
	38,144.00						

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 304.20 STRUCTURES AND IMPROVEMENTS PUMPING

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO REPLACEMENT COST AT MARCH 31, 2024

YEAR	REPLACEMENT COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 60-R3							
NET SALVAGE PERCENT.. 0							
2024	749,500.00	60.00	1.67	12,516.65	59.88	0.0020	1,499
	749,500.00			12,516.65			1,499

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 304.30 STRUCTURES AND IMPROVEMENTS TREATMENT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO REPLACEMENT COST AT MARCH 31, 2024

YEAR	REPLACEMENT COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 65-R3							
NET SALVAGE PERCENT.. 0							
1990	24,383,953.60	65.00	1.54	375,512.89	33.93	0.4780	11,655,530
	24,383,953.60			375,512.89			11,655,530

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 310.00 POWER GENERATION EQUIPMENT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO REPLACEMENT COST AT MARCH 31, 2024

YEAR	REPLACEMENT COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 30-S2							
NET SALVAGE PERCENT.. 0							
2020	132,634.58	30.00	3.33	4,416.73	26.25	0.1250	16,579
	132,634.58			4,416.73			16,579

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 311.00 PUMPING EQUIPMENT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO REPLACEMENT COST AT MARCH 31, 2024

YEAR	REPLACEMENT COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 40-R1.5							
NET SALVAGE PERCENT.. 0							
2023	48,075.27	40.00	2.50	1,201.88	39.38	0.0155	745
	48,075.27			1,201.88			745

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 320.00 WATER TREATMENT EQUIPMENT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO REPLACEMENT COST AT MARCH 31, 2024

YEAR	REPLACEMENT COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 50-R3							
NET SALVAGE PERCENT.. 0							
1995	414,319.89	50.00	2.00	8,286.40	23.86	0.5228	216,606
2022	101,605.40	50.00	2.00	2,032.11	48.28	0.0344	3,495
	515,925.29			10,318.51			220,101

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 330.40 DISTRIBUTION STANDPIPES - TANKS

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO REPLACEMENT COST AT MARCH 31, 2024

YEAR	REPLACEMENT COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 60-R2.5							
NET SALVAGE PERCENT.. 0							
1914	1,046,316.04	60.00	1.67	17,473.48	0.46	0.9923	1,038,291
1953	3,673,931.03	60.00	1.67	61,354.65	10.21	0.8298	3,048,738
1977	950,736.62	60.00	1.67	15,877.30	21.63	0.6395	607,996
2011	1,786,924.12	60.00	1.67	29,841.63	48.23	0.1962	350,541
2014	15,923.81	60.00	1.67	265.93	50.94	0.1510	2,404
2018	137,312.27	60.00	1.67	2,293.11	54.61	0.0898	12,335
	7,611,143.89			127,106.10			5,060,305

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 331.40 TRANS AND DIST MAINS

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO REPLACEMENT COST AT MARCH 31, 2024

YEAR	REPLACEMENT COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 85-R3							
NET SALVAGE PERCENT.. 0							
1890	994,768.91	85.00	1.18	11,738.27	2.35	0.9724	967,264
1920	2,102,990.75	85.00	1.18	24,815.29	10.15	0.8806	1,851,873
1930	935,384.91	85.00	1.18	11,037.54	13.46	0.8417	787,267
1940	1,869,253.66	85.00	1.18	22,057.19	17.75	0.7912	1,478,916
1950	711,063.98	85.00	1.18	8,390.55	23.14	0.7278	517,484
1960	1,738,498.49	85.00	1.18	20,514.28	29.54	0.6525	1,134,318
1970	9,151,566.38	85.00	1.18	107,988.48	36.77	0.5674	5,192,690
1980	3,052,406.75	85.00	1.18	36,018.40	44.69	0.4742	1,447,573
1985	43,625.72	85.00	1.18	514.78	48.88	0.4249	18,538
1990	972,941.39	85.00	1.18	11,480.71	53.20	0.3741	363,997
1996	2,109,828.61	85.00	1.18	24,895.98	58.55	0.3112	656,536
1999	3,635,738.97	85.00	1.18	42,901.72	61.29	0.2789	1,014,153
2000	45,576.75	85.00	1.18	537.81	62.21	0.2681	12,220
2001	1,516,186.48	85.00	1.18	17,891.00	63.13	0.2573	390,100
2003	1,417,422.93	85.00	1.18	16,725.59	65.00	0.2353	333,505
2004	2,926,586.14	85.00	1.18	34,533.72	65.93	0.2244	656,580
2007	221,677.69	85.00	1.18	2,615.80	68.76	0.1911	42,354
2008	969,093.44	85.00	1.18	11,435.30	69.71	0.1799	174,321
2010	752,621.87	85.00	1.18	8,880.94	71.62	0.1574	118,470
2013	5,139,677.40	85.00	1.18	60,648.19	74.51	0.1234	634,288
2014	438,079.67	85.00	1.18	5,169.34	75.47	0.1121	49,117
2015	609,853.40	85.00	1.18	7,196.27	76.44	0.1007	61,418
2016	200,956.00	85.00	1.18	2,371.28	77.41	0.0893	17,943
2018	1,669,985.86	85.00	1.18	19,705.83	79.36	0.0664	110,804
2020	1,103,479.79	85.00	1.18	13,021.06	81.32	0.0433	47,770
2022	1,963,611.08	85.00	1.18	23,170.61	83.28	0.0202	39,743
2023	1,543,887.07	85.00	1.18	18,217.87	84.26	0.0087	13,447
	47,836,764.09			564,473.80			18,132,689

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 333.40 SERVICES

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO REPLACEMENT COST AT MARCH 31, 2024

YEAR	REPLACEMENT COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 70-R2.5							
NET SALVAGE PERCENT.. 0							
1890	7,425.83	70.00				1.0000	7,426
1920	144,205.10	70.00	1.43	2,062.13	6.55	0.9064	130,712
1930	78,079.38	70.00	1.43	1,116.54	8.85	0.8736	68,208
1940	237,168.13	70.00	1.43	3,391.50	11.54	0.8351	198,069
1950	108,292.50	70.00	1.43	1,548.58	15.09	0.7844	84,948
1960	85,823.83	70.00	1.43	1,227.28	19.84	0.7166	61,499
1970	471,382.55	70.00	1.43	6,740.77	25.75	0.6321	297,980
1980	170,091.60	70.00	1.43	2,432.31	32.61	0.5341	90,853
1985	3,649.98	70.00	1.43	52.19	36.33	0.4810	1,756
1990	44,478.79	70.00	1.43	636.05	40.23	0.4253	18,916
1996	61,288.60	70.00	1.43	876.43	45.11	0.3556	21,792
1999	76,508.14	70.00	1.43	1,094.07	47.64	0.3194	24,439
2000	10,312.18	70.00	1.43	147.46	48.49	0.3073	3,169
2001	36,875.10	70.00	1.43	527.31	49.34	0.2951	10,883
2003	48,968.23	70.00	1.43	700.25	51.07	0.2704	13,242
2004	28,208.60	70.00	1.43	403.38	51.95	0.2579	7,274
2008	141,009.74	70.00	1.43	2,016.44	55.48	0.2074	29,250
2013	634,853.63	70.00	1.43	9,078.41	60.00	0.1429	90,695
2015	40,996.41	70.00	1.43	586.25	61.83	0.1167	4,785
2016	14,784.20	70.00	1.43	211.41	62.75	0.1036	1,531
2018	93,130.94	70.00	1.43	1,331.77	64.61	0.0770	7,171
2020	176,685.61	70.00	1.43	2,526.60	66.47	0.0504	8,910
2022	210,854.45	70.00	1.43	3,015.22	68.35	0.0236	4,970
2023	149,016.00	70.00	1.43	2,130.93	69.29	0.0101	1,511
	3,074,089.52			43,853.28			1,189,989

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 334.40 METERS

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO REPLACEMENT COST AT MARCH 31, 2024

YEAR	REPLACEMENT COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 25-L3							
NET SALVAGE PERCENT.. 0							
2008	867,482.96	25.00	4.00	34,699.32	10.75	0.5700	494,465
	867,482.96			34,699.32			494,465

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 335.40 HYDRANTS

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO REPLACEMENT COST AT MARCH 31, 2024

YEAR	REPLACEMENT COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 70-R2.5							
NET SALVAGE PERCENT.. 0							
1890	15,475.74	70.00				1.0000	15,476
1920	65,074.57	70.00	1.43	930.57	6.55	0.9064	58,986
1930	20,242.23	70.00	1.43	289.46	8.85	0.8736	17,683
1940	38,609.96	70.00	1.43	552.12	11.54	0.8351	32,245
1950	28,863.71	70.00	1.43	412.75	15.09	0.7844	22,642
1960	85,208.94	70.00	1.43	1,218.49	19.84	0.7166	61,058
1970	349,432.34	70.00	1.43	4,996.88	25.75	0.6321	220,890
1980	120,067.77	70.00	1.43	1,716.97	32.61	0.5341	64,133
1990	45,495.60	70.00	1.43	650.59	40.23	0.4253	19,349
1996	37,538.90	70.00	1.43	536.81	45.11	0.3556	13,348
1999	83,252.77	70.00	1.43	1,190.51	47.64	0.3194	26,593
2001	8,035.33	70.00	1.43	114.91	49.34	0.2951	2,372
2003	73,775.95	70.00	1.43	1,055.00	51.07	0.2704	19,951
2004	33,957.86	70.00	1.43	485.60	51.95	0.2579	8,756
2008	41,079.75	70.00	1.43	587.44	55.48	0.2074	8,521
2010	42,182.60	70.00	1.43	603.21	57.28	0.1817	7,665
2013	313,296.34	70.00	1.43	4,480.14	60.00	0.1429	44,758
2014	32,365.87	70.00	1.43	462.83	60.91	0.1299	4,203
2015	30,212.45	70.00	1.43	432.04	61.83	0.1167	3,526
2016	14,818.72	70.00	1.43	211.91	62.75	0.1036	1,535
2018	127,812.56	70.00	1.43	1,827.72	64.61	0.0770	9,842
2020	28,507.13	70.00	1.43	407.65	66.47	0.0504	1,438
2022	73,164.19	70.00	1.43	1,046.25	68.35	0.0236	1,724
2023	32,375.04	70.00	1.43	462.96	69.29	0.0101	328
	1,740,846.32			24,672.81			667,022

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 341.00 TRANSPORTATION EQUIPMENT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO REPLACEMENT COST AT MARCH 31, 2024

YEAR	REPLACEMENT COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. IOWA 11-S1.5							
NET SALVAGE PERCENT.. 0							
1999	33,370.69	11.00				1.0000	33,371
2007	3,868.02	11.00	9.09	351.60	1.35	0.8773	3,393
2013	35,532.13	11.00	9.09	3,229.87	3.26	0.7036	25,002
2017	41,222.20	11.00	9.09	3,747.10	5.29	0.5191	21,398
2018	41,422.37	11.00	9.09	3,765.29	5.95	0.4591	19,017
2021	42,747.55	11.00	9.09	3,885.75	8.35	0.2409	10,298
	198,162.96			14,979.61			112,479

GREENVILLE MUNICIPAL WATER AUTHORITY
WATER SYSTEM ASSETS

ACCOUNT 346.00 COMMUNICATION EQUIPMENT

CALCULATED ANNUAL AND ACCRUED DEPRECIATION
RELATED TO REPLACEMENT COST AT MARCH 31, 2024

YEAR	REPLACEMENT COST	AVG. LIFE	--ANNUAL ACCRUAL-- RATE	AMOUNT	EXP.	--ACCRUED DEPREC.-- FACTOR	AMOUNT
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
SURVIVOR CURVE.. 15-SQUARE NET SALVAGE PERCENT.. 0							
2010	37,608.44	15.00	6.67	2,508.48	1.25	0.9167	34,475
	37,608.44			2,508.48			34,475

Income Approach
Greenville Municipal Water Authority
Pro Forma Operations
Earnings Capitalization Model

		Actual			Budget
					Year 0
		2021	2022	2023	2024
1.	**OPERATING REVENUES (1)**				
2.	Charges for services	1,948,448	2,111,110	2,184,059	2,181,171
3.	Other operating revenue	35,163	29,233	42,448	40,000
4.	Tap Fees	0	0	0	0
5.	**Total Operating Revenues**	1,983,611	2,140,343	2,226,507	2,221,171
6.	**Rate Increase**				
7.	**OPERATING EXPENSES (1)**				
8.	Operating & Maintenance Expenses	1,359,687	1,594,861	1,475,349	1,594,336
9.	**Operating Expenses Before Depreciation**	1,359,687	1,594,861	1,475,349	1,594,336
10.	Depreciation (2)	369,597	393,673	393,673	0
11.	**Total Operating Expenses**	1,729,284	1,988,534	1,869,022	1,594,336
12.	**Operating Income**	254,327	151,809	357,485	626,835
13.	Revenues (3)	1,983,611	2,140,343	2,226,507	2,221,171
14.	EBITDA (4)	623,924	545,482	751,158	626,835
15.	EBIT (5)	254,327	151,809	357,485	626,835
16.	EBIT	254,327	151,809	357,485	626,835
17.	(-) Income Taxes	0	0	0	0
18.	Debt Free Net Income	254,327	151,809	357,485	626,835
19.	(+) Depreciation & Amortization	369,597	393,673	393,673	0
20.	(-) Capital Expenditures (6)	329,699	2,740,347	2,959,807	323,951
21.	(-) Changes in Working Capital (7)	20,034	21,617	22,488	22,434
22.	Debt Free Net Cash Flow	$274,191	($2,216,482)	($2,231,137)	$280,450

Income Approach
Greenville Municipal Water Authority
Pro Forma Operations
Earnings Capitalization Model

		2024	Pro Forma 2024 (11)
		4.26% Capitalization Rate Model (No Growth)	4.26% Capitalization Rate Model (No Growth)
23.	Debt Free Net Cash Flow (10)	$280,450	($984,050)
24.	Capitalization Factor: (8)	4.26%	4.26%
25.	Indicated Value (line 23 ÷ line 24)	$6,583,337	($23,099,761)
		4.26% Capitalization Rate Model (0.00% Growth)	4.26% Capitalization Rate Model (0.00% Growth)
26.	Debt Free Net Cash Flow (10)	$280,450	($984,050)
27.	Capitalization Factor: (9)	4.26%	4.26%
28.	Indicated Value (line 26 ÷ line 27)	$6,583,337	($23,099,761)

See last page of this EXHIBIT for notes and assumptions.

Income Approach
Greenville Municipal Water Authority
Pro Forma Operations
Earnings Capitalization Model

Notes: (1) Assumptions:

Charges for services - Pre-2024 are actual. 2024 and 2025 results are based on 2024 budget. Post-2025 based on customer growth (EDU) and average revenue per customer.

OPERATING EXPENSES - increase at 2.5% annually after 2025 unless noted elsewhere. Assumed economies of scale are shown on lines below.

(2) Depreciation - Pre-2024 based on actual depreciation. Post-2023 based on depreciation rate plus same rate on half of CAPX.

(3) Line 5.

(4) Line 12 + line 10.

(5) Line 12.

(6) Capital Expenditures - Pre-2026 based on financials/budget. Post-2025 years are estimates based on 1.36% of prior year-end GROSS Property, plant and equipment.

(7) Changes in Working Capital - based on water industry 1.01% of revenues.

(8) Discount rate is the the current MUNI discount rate. Capitalization rate (K) at 3/31/2024 equal to discount rate, where capitalization rate = K - g.

(9) Discount rate is the current MUNI discount rate. Capitalization rate (K) at 3/31/2024 adjusted for stated growth (g) where capitalization rate = K - g.

(10) Final year shown, line 22.

(11) Debt Free Net Cash Flow adjusted for average 2021-2024 CAPX.

Terms:

CAPX - Capital Expenditures
CIP - Capital improvement plan
Dep - Depreciation expense
GROSS PPE - GROSS Property, plant and equipment
IOU - Investor owned utility
MUNI - Large regional municipally owned utility
NET PPE - NET Property, plant and equipment

Income Approach
Greenville Municipal Water Authority
Pro Forma and Estimted Operations With MUNI Ownership
DCF With Capitalization of Terminal Value Model and
DCF With EBIT & EBITDA Terminal Value Model

	Actual			Budget	Estimated	Estimated
				Year 0	Year 1	Year 2
	2021	2022	2023	2024	2025	2026
1. **OPERATING REVENUES (1)**						
2. Charges for services	1,948,448	2,111,110	2,184,059	2,181,171	2,225,247	2,225,247
3. Other operating revenue	35,163	29,233	42,448	40,000	41,200	41,200
4. Tap Fees	0	0	0	0	0	0
5. Other (Rate Increase)	0	0	0	0	0	445,049
6. **Total Operating Revenues**	1,983,611	2,140,343	2,226,507	2,221,171	2,266,447	2,711,496
7. **Rate Increase**						**20%**
8. **OPERATING EXPENSES (1)**						
9. Operating & Maintenance Expenses	1,359,687	1,594,861	1,475,349	1,594,336	1,546,175	1,584,829
10. Remove Economies of Scale						
11. LESS: EOS - Wages & Benefits	0	0	0	(141,423)	(139,148)	(142,626)
12. LESS: EOS - Professional Services	0	0	0	(111,661)	(102,651)	(105,217)
13. LESS: EOS - Eliminated Expenses	0	0	0	0	0	0
14. ADD: Additional O&M	0	0	0	0	0	0
15. **Operating Expenses Before Depreciation**	1,359,687	1,594,861	1,475,349	1,341,252	1,304,377	1,336,986
16. Depreciation (2)	369,597	393,673	393,673	0	390,725	395,347
17. **Total Operating Expenses**	1,729,284	1,988,534	1,869,022	1,341,252	1,695,102	1,732,333
18. **Operating Income**	254,327	151,809	357,485	879,919	571,345	979,163
19. Revenues (3)	1,983,611	2,140,343	2,226,507	2,221,171	2,266,447	2,711,496
20. EBITDA (4)	623,924	545,482	751,158	879,919	962,070	1,374,510
21. EBIT (5)	254,327	151,809	357,485	879,919	571,345	979,163
22. EBIT	254,327	151,809	357,485	879,919	571,345	979,163
23. (-) Income Taxes	0	0	0	0	0	0
24. Debt Free Net Income	254,327	151,809	357,485	879,919	571,345	979,163
25. (+) Depreciation & Amortization	369,597	393,673	393,673	0	390,725	395,347
26. (-) Capital Expenditures (6)	329,699	2,740,347	2,959,807	323,951	381,055	385,562
27. (-) Changes in Working Capital (7)	20,034	21,617	22,488	22,434	22,891	27,386
28. Debt Free Net Cash Flow	$274,191	($2,216,482)	($2,231,137)	$533,534	$558,124	$961,561
29. PV Time Period (mid-year)				(0.5)	0.5	1.5
					1	2
30. Present Value Factor: 4.26% (8)					0.9794	0.9393
31. Present Value Debt Free Net Cash Flow					$546,627	$903,195
					1	2
32. Present Value Factor: 4.26% (9)					0.9794	0.9393
33. Present Value Debt Free Net Cash Flow					$546,627	$903,195

See last page of this EXHIBIT for notes and assumptions.

Income Approach
Greenville Municipal Water Authority
Pro Forma and Estimted Operations With MUNI Ownership
DCF With Capitalization of Terminal Value Model and
DCF With EBIT & EBITDA Terminal Value Model

	Estimated Year 3	Estimated Year 4	Estimated Year 5	Estimated Year 6	Estimated Year 7	Estimated Year 8
	2027	2028	2029	2030	2031	2032
1. **OPERATING REVENUES (1)**						
2. Charges for services	2,670,296	2,670,296	2,670,296	2,777,108	2,777,108	2,777,108
3. Other operating revenue	41,200	41,200	41,200	41,200	41,200	41,200
4. Tap Fees	0	0	0	0	0	0
5. Other (Rate Increase)	0	0	106,812	0	0	111,084
6. **Total Operating Revenues**	2,711,496	2,711,496	2,818,308	2,818,308	2,818,308	2,929,392
7. **Rate Increase**			**4%**			**4%**
8. **OPERATING EXPENSES (1)**						
9. Operating & Maintenance Expenses	1,624,450	1,665,061	1,706,688	1,749,355	1,793,089	1,837,916
10. Remove Economies of Scale						
11. LESS: EOS - Wages & Benefits	(146,192)	(149,847)	(153,593)	(157,433)	(161,368)	(165,403)
12. LESS: EOS - Professional Services	(107,847)	(110,543)	(113,307)	(116,140)	(119,043)	(122,019)
13. LESS: EOS - Eliminated Expenses	0	0	0	0	0	0
14. ADD: Additional O&M	0	0	0	0	0	0
15. **Operating Expenses Before Depreciation**	1,370,411	1,404,671	1,439,788	1,475,783	1,512,677	1,550,494
16. Depreciation (2)	400,024	404,756	409,543	414,387	419,289	424,249
17. **Total Operating Expenses**	1,770,435	1,809,427	1,849,331	1,890,170	1,931,966	1,974,743
18. **Operating Income**	941,061	902,069	968,977	928,138	886,342	954,649
19. Revenues (3)	2,711,496	2,711,496	2,818,308	2,818,308	2,818,308	2,929,392
20. EBITDA (4)	1,341,085	1,306,825	1,378,520	1,342,525	1,305,631	1,378,898
21. EBIT (5)	941,061	902,069	968,977	928,138	886,342	954,649
22. EBIT	941,061	902,069	968,977	928,138	886,342	954,649
23. (-) Income Taxes	0	0	0	0	0	0
24. Debt Free Net Income	941,061	902,069	968,977	928,138	886,342	954,649
25. (+) Depreciation & Amortization	400,024	404,756	409,543	414,387	419,289	424,249
26. (-) Capital Expenditures (6)	390,123	394,737	399,407	404,131	408,911	413,748
27. (-) Changes in Working Capital (7)	27,386	27,386	28,465	28,465	28,465	29,587
28. Debt Free Net Cash Flow	$923,576	$884,702	$950,648	$909,929	$868,255	$935,563
29. PV Time Period (mid-year)	2.5	3.5	4.5	5.5	6.5	7.5
	3	4	5	6	7	8
30. Present Value Factor: 4.26% (8)	0.9010	0.8641	0.8288	0.7950	0.7625	0.7313
31. Present Value Debt Free Net Cash Flow	$832,142	$764,471	$787,897	$723,394	$662,044	$684,177
	3	4	5	6	7	8
32. Present Value Factor: 4.26% (9)	0.9010	0.8641	0.8288	0.7950	0.7625	0.7313
33. Present Value Debt Free Net Cash Flow	$832,142	$764,471	$787,897	$723,394	$662,044	$684,177

See last page of this EXHIBIT for notes and assumptions.

Income Approach
Greenville Municipal Water Authority
Pro Forma and Estimted Operations With MUNI Ownership
DCF With Capitalization of Terminal Value Model and
DCF With EBIT & EBITDA Terminal Value Model

	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated
	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
	2033	2034	2035	2036	2037	2038	2039
1. **OPERATING REVENUES (1)**							
2. Charges for services	2,888,193	2,888,193	2,888,193	3,003,720	3,003,720	3,003,720	3,123,869
3. Other operating revenue	41,200	41,200	41,200	41,200	41,200	41,200	41,200
4. Tap Fees	0	0	0	0	0	0	0
5. Other (Rate Increase)	0	0	115,528	0	0	120,149	0
6. **Total Operating Revenues**	2,929,393	2,929,393	3,044,921	3,044,920	3,044,920	3,165,069	3,165,069
7. **Rate Increase**			**4%**			**4%**	
8. **OPERATING EXPENSES (1)**							
9. Operating & Maintenance Expenses	1,883,864	1,930,961	1,979,235	2,028,716	2,079,433	2,131,419	2,184,705
10. Remove Economies of Scale							
11. LESS: EOS - Wages & Benefits	(169,538)	(173,776)	(178,121)	(182,574)	(187,138)	(191,816)	(196,612)
12. LESS: EOS - Professional Services	(125,070)	(128,196)	(131,401)	(134,686)	(138,054)	(141,505)	(145,042)
13. LESS: EOS - Eliminated Expenses	0	0	0	0	0	0	0
14. ADD: Additional O&M	0	0	0	0	0	0	0
15. **Operating Expenses Before Depreciation**	1,589,257	1,628,988	1,669,713	1,711,456	1,754,242	1,798,098	1,843,051
16. Depreciation (2)	429,266	434,345	439,482	444,680	449,941	455,262	460,648
17. **Total Operating Expenses**	2,018,523	2,063,333	2,109,195	2,156,136	2,204,183	2,253,360	2,303,699
18. **Operating Income**	910,870	866,060	935,726	888,784	840,737	911,709	861,370
19. Revenues (3)	2,929,393	2,929,393	3,044,921	3,044,920	3,044,920	3,165,069	3,165,069
20. EBITDA (4)	1,340,136	1,300,405	1,375,208	1,333,464	1,290,678	1,366,971	1,322,018
21. EBIT (5)	910,870	866,060	935,726	888,784	840,737	911,709	861,370
22. EBIT	910,870	866,060	935,726	888,784	840,737	911,709	861,370
23. (-) Income Taxes	0	0	0	0	0	0	0
24. Debt Free Net Income	910,870	866,060	935,726	888,784	840,737	911,709	861,370
25. (+) Depreciation & Amortization	429,266	434,345	439,482	444,680	449,941	455,262	460,648
26. (-) Capital Expenditures (6)	418,642	423,594	428,605	433,675	438,804	443,995	449,247
27. (-) Changes in Working Capital (7)	29,587	29,587	30,754	30,754	30,754	31,967	31,967
28. Debt Free Net Cash Flow	$891,907	$847,224	$915,849	$869,036	$821,120	$891,009	$840,804
29. PV Time Period (mid-year)	8.5	9.5	10.5	11.5	12.5	13.5	14.5
	9	10	11	12	13	14	15
30. Present Value Factor: 4.26% (8)	0.7015	0.6728	0.6453	0.6189	0.5936	0.5694	0.5461
31. Present Value Debt Free Net Cash Flow	$625,673	$570,012	$590,998	$537,846	$487,417	$507,340	$459,163
	9	10	11	12	13	14	15
32. Present Value Factor: 4.26% (9)	0.7015	0.6728	0.6453	0.6189	0.5936	0.5694	0.5461
33. Present Value Debt Free Net Cash Flow	$625,673	$570,012	$590,998	$537,846	$487,417	$507,340	$459,163

See last page of this EXHIBIT for notes and assumptions. **See last page of**

Income Approach
Greenville Municipal Water Authority
Pro Forma and Estimted Operations With MUNI Ownership
DCF With Capitalization of Terminal Value Model and
DCF With EBIT & EBITDA Terminal Value Model

	Estimated Year 16	Estimated Year 17	Estimated Year 18	Estimated Year 19	Estimated Year 20
	2040	2041	2042	2043	2044
1. **OPERATING REVENUES (1)**					
2. Charges for services	3,123,869	3,186,346	3,186,346	3,294,682	3,294,682
3. Other operating revenue	41,200	41,200	41,200	41,200	41,200
4. Tap Fees	0	0	0	0	0
5. Other (Rate Increase)	62,477	0	108,336	0	112,019
6. **Total Operating Revenues**	3,227,546	3,227,546	3,335,882	3,335,882	3,447,901
7. **Rate Increase**	**2%**		**3%**		**3%**
8. **OPERATING EXPENSES (1)**					
9. Operating & Maintenance Expenses	2,239,322	2,295,305	2,352,688	2,411,505	2,471,793
10. Remove Economies of Scale					
11. LESS: EOS - Wages & Benefits	(201,527)	(206,565)	(211,729)	(217,023)	(222,448)
12. LESS: EOS - Professional Services	(148,669)	(152,385)	(156,195)	(160,100)	(164,102)
13. LESS: EOS - Eliminated Expenses	0	0	0	0	0
14. ADD: Additional O&M	0	0	0	0	0
15. **Operating Expenses Before Depreciation**	1,889,127	1,936,355	1,984,764	2,034,383	2,085,243
16. Depreciation (2)	466,096	471,610	477,188	482,832	488,544
17. **Total Operating Expenses**	2,355,223	2,407,965	2,461,952	2,517,215	2,573,787
18. **Operating Income**	872,323	819,581	873,930	818,667	874,114
19. Revenues (3)	3,227,546	3,227,546	3,335,882	3,335,882	3,447,901
20. EBITDA (4)	1,338,419	1,291,191	1,351,118	1,301,499	1,362,658
21. EBIT (5)	872,323	819,581	873,930	818,667	874,114
22. EBIT	872,323	819,581	873,930	818,667	874,114
23. (-) Income Taxes	0	0	0	0	0
24. Debt Free Net Income	872,323	819,581	873,930	818,667	874,114
25. (+) Depreciation & Amortization	466,096	471,610	477,188	482,832	488,544
26. (-) Capital Expenditures (6)	454,561	459,937	465,378	470,883	476,452
27. (-) Changes in Working Capital (7)	32,598	32,598	33,692	33,692	34,824
28. Debt Free Net Cash Flow	$851,260	$798,656	$852,048	$796,924	$851,383
29. PV Time Period (mid-year)	15.5	16.5	17.5	18.5	19.5
	16	17	18	19	20
30. Present Value Factor: 4.26% (8)	0.5238	0.5024	0.4819	0.4622	0.4433
31. Present Value Debt Free Net Cash Flow	$445,890	$401,245	$410,602	$368,338	$377,418
	16	17	18	19	20
32. Present Value Factor: 4.26% (9)	0.5238	0.5024	0.4819	0.4622	0.4433
33. Present Value Debt Free Net Cash Flow	$445,890	$401,245	$410,602	$368,338	$377,418

this EXHIBIT for notes and assumptions.

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DCF With Capitalization of Terminal Value Model @ 4.26%	
	Terminal Value
Projected Debt Free Net Cash Flow (10)	$851,383
Divided by Capitalization Factor (8)	4.26%
20th Year Terminal Value	19,985,509
20th Year Present Value Factor (11)	0.4433
Present Value of Terminal Value	8,859,576
Present Value Debt Free Net Cash Flow for 20 Years	11,685,888
Indicated Value	$20,545,464

DCF With EBIT & EBITDA Terminal Value Model - Discount Rate of 4.26%			
		Multiples (13)	Terminal Value
Projected EBIT	$874,114	20.7	$18,094,167
Projected EBITDA	1,362,658	13.9	18,940,953
Weighted (1/3 EBIT 2/3 EBITDA) Terminal Value			18,661,513
20th Year Present Value Factor (11)			0.4433
Present Value of Terminal Value			8,272,649
Present Value Debt Free Net Cash Flow for 20 Years			11,685,888
Indicated Value			$19,958,537

DCF With Capitalization of Terminal Value Model @ 4.26%	
	Terminal Value
Projected Debt Free Net Cash Flow (10)	$851,383
Divided by Capitalization Factor (9)	4.26%
20th Year Terminal Value	19,985,509
20th Year Present Value Factor (12)	0.4433
Present Value of Terminal Value	8,859,576
Present Value Debt Free Net Cash Flow for 20 Years	11,685,888
Indicated Value	$20,545,464

DCF With EBIT & EBITDA Terminal Value Model - Discount Rate of 4.26%			
		Multiples (13)	Terminal Value
Projected EBIT	$874,114	20.7	$18,094,167
Projected EBITDA	1,362,658	13.9	18,940,953
Weighted (1/3 EBIT 2/3 EBITDA) Terminal Value			18,661,513
20th Year Present Value Factor (12)			0.4433
Present Value of Terminal Value			8,272,649
Present Value Debt Free Net Cash Flow for 20 Years			11,685,888
Indicated Value			$19,958,537

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Notes: (1) Assumptions:

Charges for services -Pre-2024 are actual. 2024 and 2025 results are based on 2024 budget. Post-2025 based on customer growth (EDU) and average revenue per customer. Rate increases (Other rate increase line item) are added year after they occur.

Other (Rate Increase) - Assumed purchase by MUNI in 2025 with shown rate increases.

OPERATING EXPENSES - increase at 2.5% annually after 2025 unless noted elsewhere. Assumed economies of scale are shown on lines below.
Wages & Benefits - Post-2025 assumed 15% savings due to economies of scale. Increase at 2.5% afterwards.

Professional Services - Post-2025 assumed 50% savings due to economies of scale. Increase at 2.5% afterwards.

No Additional O&M.

(2) Depreciation - Pre-2024 based on actual depreciation. Post-2023 based on depreciation rate plus same rate on half of CAPX.
(3) Line 6.
(4) Line 18 + line 16.
(5) Line 18.
(6) Capital Expenditures - Pre-2026 based on financials/budget. Post-2025 years are estimates based on 1.36% of prior year-end GROSS Property, plant and equipment.
(7) Changes in Working Capital - based on water industry 1.01% of revenues.
(8) Discount rate is the the current MUNI discount rate. Capitalization rate (K) at 3/31/2024 equal to discount rate, where capitalization rate = K - g.
(9) Discount rate is the current MUNI discount rate. Capitalization rate (K) at 3/31/2024 adjusted for stated growth (g) where capitalization rate = K - g.
(10) Final year shown, line 28.
(11) Final year shown, line 30.
(12) Final year shown, line 30.
(13) Developed on Market Multiples EXHIBIT 18.

Terms:

CAPX - Capital Expenditures
CIP - Capital improvement plan
Dep - Depreciation expense
GROSS PPE - GROSS Property, plant and equipment
IOU - Investor owned utility
MUNI - Large regional municipally owned utility
NET PPE - NET Property, plant and equipment

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	Actual			Budget	Estimated	Estimated
				Year 0	Year 1	Year 2
	2021	2022	2023	2024	2025	2026
1. **OPERATING REVENUES (1)**						
2. Charges for services	1,948,448	2,111,110	2,184,059	2,181,171	2,225,247	2,225,247
3. Other operating revenue	35,163	29,233	42,448	40,000	41,200	41,200
4. Tap Fees	0	0	0	0	0	0
5. Other (Rate Increase)	0	0	0	0	0	1,335,148
6. **Total Operating Revenues**	1,983,611	2,140,343	2,226,507	2,221,171	2,266,447	3,601,595
7. **Rate Increase**						**60%**
8. **OPERATING EXPENSES (1)**						
9. Operating & Maintenance Expenses	1,359,687	1,594,861	1,475,349	1,594,336	1,546,175	1,584,829
10. Remove Economies of Scale						
11. LESS: EOS - Wages & Benefits	0	0	0	(141,423)	(139,148)	(142,626)
12. LESS: EOS - Professional Services	0	0	0	(111,661)	(102,651)	(105,217)
13. LESS: EOS - Eliminated Expenses	0	0	0	0	0	0
14. ADD: Additional O&M	0	0	0	0	0	0
15. ADD: PURTA & Reg Assessment	0	0	0	0	41,806	42,051
16. **Operating Expenses Before Depreciation**	1,359,687	1,594,861	1,475,349	1,341,252	1,346,183	1,379,037
17. Depreciation (2)	369,597	393,673	393,673	0	390,725	395,347
18. **Total Operating Expenses**	1,729,284	1,988,534	1,869,022	1,341,252	1,736,908	1,774,384
19. **Operating Income**	254,327	151,809	357,485	879,919	529,539	1,827,211
20. Revenues (3)	1,983,611	2,140,343	2,226,507	2,221,171	2,266,447	3,601,595
21. EBITDA (4)	623,924	545,482	751,158	879,919	920,264	2,222,558
22. EBIT (5)	254,327	151,809	357,485	879,919	529,539	1,827,211
23. EBIT	254,327	151,809	357,485	879,919	529,539	1,827,211
24. (-) Income Taxes	0	0	0	243,800	144,628	491,832
25. Debt Free Net Income	254,327	151,809	357,485	636,119	384,911	1,335,379
26. (+) Depreciation & Amortization	369,597	393,673	393,673	0	390,725	395,347
27. (-) Capital Expenditures (6)	329,699	2,740,347	2,959,807	323,951	381,055	385,562
28. (-) Changes in Working Capital (7)	20,034	21,617	22,488	22,434	22,891	36,376
29. Debt Free Net Cash Flow	$274,191	($2,216,482)	($2,231,137)	$289,734	$371,690	$1,308,787
30. PV Time Period (mid-year)				(0.5)	0.5	1.5
31. Present Value Factor: 8.25% (8)					0.9611	0.8879
32. Present Value Debt Free Net Cash Flow					$357,231	$1,162,072
					1	2
33. Present Value Factor: 11.00% (9)					0.9492	0.8551
34. Present Value Debt Free Net Cash Flow					$352,808	$1,119,144
					1	2
35. Present Value Factor: 8.25% (8)					0.9611	0.8879
36. Present Value Debt Free Net Cash Flow					$357,231	$1,162,072
					1	2
37. Present Value Factor: 11.00% (9)					0.9492	0.8551
38. Present Value Debt Free Net Cash Flow					$352,808	$1,119,144

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	Estimated Year 3	Estimated Year 4	Estimated Year 5	Estimated Year 6	Estimated Year 7	Estimated Year 8
	2027	2028	2029	2030	2031	2032
1. **OPERATING REVENUES (1)**						
2. Charges for services	3,560,395	3,560,395	3,560,395	3,916,435	3,916,435	3,916,435
3. Other operating revenue	41,200	41,200	41,200	41,200	41,200	41,200
4. Tap Fees	0	0	0	0	0	0
5. Other (Rate Increase)	0	0	356,040	0	0	391,643
6. **Total Operating Revenues**	3,601,595	3,601,595	3,957,635	3,957,635	3,957,635	4,349,278
7. **Rate Increase**			**10%**			**10%**
8. **OPERATING EXPENSES (1)**						
9. Operating & Maintenance Expenses	1,624,450	1,665,061	1,706,688	1,749,355	1,793,089	1,837,916
10. Remove Economies of Scale						
11. LESS: EOS - Wages & Benefits	(146,192)	(149,847)	(153,593)	(157,433)	(161,368)	(165,403)
12. LESS: EOS - Professional Services	(107,847)	(110,543)	(113,307)	(116,140)	(119,043)	(122,019)
13. LESS: EOS - Eliminated Expenses	0	0	0	0	0	0
14. ADD: Additional O&M	0	0	0	0	0	0
15. ADD: PURTA & Reg Assessment	49,633	49,619	49,605	51,616	51,602	51,587
16. **Operating Expenses Before Depreciation**	1,420,044	1,454,290	1,489,393	1,527,399	1,564,279	1,602,081
17. Depreciation (2)	400,024	404,756	409,543	414,387	419,289	424,249
18. **Total Operating Expenses**	1,820,068	1,859,046	1,898,936	1,941,786	1,983,568	2,026,330
19. **Operating Income**	1,781,527	1,742,549	2,058,699	2,015,849	1,974,067	2,322,948
20. Revenues (3)	3,601,595	3,601,595	3,957,635	3,957,635	3,957,635	4,349,278
21. EBITDA (4)	2,181,551	2,147,305	2,468,242	2,430,236	2,393,356	2,747,197
22. EBIT (5)	1,781,527	1,742,549	2,058,699	2,015,849	1,974,067	2,322,948
23. EBIT	1,781,527	1,742,549	2,058,699	2,015,849	1,974,067	2,322,948
24. (-) Income Taxes	472,498	455,278	529,746	510,758	492,374	579,392
25. Debt Free Net Income	1,309,029	1,287,271	1,528,953	1,505,091	1,481,693	1,743,556
26. (+) Depreciation & Amortization	400,024	404,756	409,543	414,387	419,289	424,249
27. (-) Capital Expenditures (6)	390,123	394,737	399,407	404,131	408,911	413,748
28. (-) Changes in Working Capital (7)	36,376	36,376	39,972	39,972	39,972	43,928
29. Debt Free Net Cash Flow	$1,282,554	$1,260,914	$1,499,117	$1,475,375	$1,452,098	$1,710,129
30. PV Time Period (mid-year)	2.5	3.5	4.5	5.5	6.5	7.5
31. Present Value Factor: 8.25% (8)	0.8202	0.7577	0.7000	0.6466	0.5973	0.5518
32. Present Value Debt Free Net Cash Flow	$1,051,951	$955,394	$1,049,382	$953,977	$867,338	$943,649
	3	4	5	6	7	8
33. Present Value Factor: 11.00% (9)	0.7704	0.6940	0.6252	0.5633	0.5075	0.4572
34. Present Value Debt Free Net Cash Flow	$988,079	$875,074	$937,248	$831,079	$736,940	$781,871
	3	4	5	6	7	8
35. Present Value Factor: 8.25% (8)	0.8202	0.7577	0.7000	0.6466	0.5973	0.5518
36. Present Value Debt Free Net Cash Flow	$1,051,951	$955,394	$1,049,382	$953,977	$867,338	$943,649
	3	4	5	6	7	8
37. Present Value Factor: 11.00% (9)	0.7704	0.6940	0.6252	0.5633	0.5075	0.4572
38. Present Value Debt Free Net Cash Flow	$988,079	$875,074	$937,248	$831,079	$736,940	$781,871

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	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated
	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
	2033	2034	2035	2036	2037	2038	2039
1. **OPERATING REVENUES (1)**							
2. Charges for services	4,308,078	4,308,078	4,308,078	4,652,724	4,652,724	4,652,724	4,815,570
3. Other operating revenue	41,200	41,200	41,200	41,200	41,200	41,200	41,200
4. Tap Fees	0	0	0	0	0	0	0
5. Other (Rate Increase)	0	0	344,646	0	0	162,845	0
6. **Total Operating Revenues**	4,349,278	4,349,278	4,693,924	4,693,924	4,693,924	4,856,769	4,856,770
7. **Rate Increase**			**8%**			**3%**	
8. **OPERATING EXPENSES (1)**							
9. Operating & Maintenance Expenses	1,883,864	1,930,961	1,979,235	2,028,716	2,079,433	2,131,419	2,184,705
10. Remove Economies of Scale							
11. LESS: EOS - Wages & Benefits	(169,538)	(173,776)	(178,121)	(182,574)	(187,138)	(191,816)	(196,612)
12. LESS: EOS - Professional Services	(125,070)	(128,196)	(131,401)	(134,686)	(138,054)	(141,505)	(145,042)
13. LESS: EOS - Eliminated Expenses	0	0	0	0	0	0	0
14. ADD: Additional O&M	0	0	0	0	0	0	0
15. ADD: PURTA & Reg Assessment	53,800	53,785	53,769	55,715	55,699	55,683	56,594
16. **Operating Expenses Before Depreciation**	1,643,057	1,682,773	1,723,482	1,767,171	1,809,941	1,853,781	1,899,645
17. Depreciation (2)	429,266	434,345	439,482	444,680	449,941	455,262	460,648
18. **Total Operating Expenses**	2,072,323	2,117,118	2,162,964	2,211,851	2,259,882	2,309,043	2,360,293
19. **Operating Income**	2,276,955	2,232,160	2,530,960	2,482,073	2,434,042	2,547,726	2,496,477
20. Revenues (3)	4,349,278	4,349,278	4,693,924	4,693,924	4,693,924	4,856,769	4,856,770
21. EBITDA (4)	2,706,221	2,666,505	2,970,442	2,926,753	2,883,983	3,002,988	2,957,125
22. EBIT (5)	2,276,955	2,232,160	2,530,960	2,482,073	2,434,042	2,547,726	2,496,477
23. EBIT	2,276,955	2,232,160	2,530,960	2,482,073	2,434,042	2,547,726	2,496,477
24. (-) Income Taxes	567,920	556,748	631,275	619,081	607,101	635,456	622,674
25. Debt Free Net Income	1,709,035	1,675,412	1,899,685	1,862,992	1,826,941	1,912,270	1,873,803
26. (+) Depreciation & Amortization	429,266	434,345	439,482	444,680	449,941	455,262	460,648
27. (-) Capital Expenditures (6)	418,642	423,594	428,605	433,675	438,804	443,995	449,247
28. (-) Changes in Working Capital (7)	43,928	43,928	47,409	47,409	47,409	49,053	49,053
29. Debt Free Net Cash Flow	$1,675,732	$1,642,235	$1,863,154	$1,826,589	$1,790,669	$1,874,484	$1,836,151
30. PV Time Period (mid-year)	8.5	9.5	10.5	11.5	12.5	13.5	14.5
31. Present Value Factor: 8.25% (8)	0.5098	0.4709	0.4350	0.4019	0.3712	0.3429	0.3168
32. Present Value Debt Free Net Cash Flow	$854,288	$773,329	$810,472	$734,106	$664,696	$642,760	$581,693
	9	10	11	12	13	14	15
33. Present Value Factor: 11.00% (9)	0.4119	0.3710	0.3343	0.3012	0.2713	0.2444	0.2202
34. Present Value Debt Free Net Cash Flow	$690,234	$609,269	$622,852	$550,169	$485,809	$458,124	$404,320
	9	10	11	12	13	14	15
35. Present Value Factor: 8.25% (8)	0.5098	0.4709	0.4350	0.4019	0.3712	0.3429	0.3168
36. Present Value Debt Free Net Cash Flow	$854,288	$773,329	$810,472	$734,106	$664,696	$642,760	$581,693
	9	10	11	12	13	14	15
37. Present Value Factor: 11.00% (9)	0.4119	0.3710	0.3343	0.3012	0.2713	0.2444	0.2202
38. Present Value Debt Free Net Cash Flow	$690,234	$609,269	$622,852	$550,169	$485,809	$458,124	$404,320

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	Estimated Year 16	Estimated Year 17	Estimated Year 18	Estimated Year 19	Estimated Year 20
	2040	2041	2042	2043	2044
1. **OPERATING REVENUES (1)**					
2. Charges for services	4,815,570	4,931,143	4,931,143	5,049,491	5,049,491
3. Other operating revenue	41,200	41,200	41,200	41,200	41,200
4. Tap Fees	0	0	0	0	0
5. Other (Rate Increase)	115,574	0	118,347	0	121,188
6. **Total Operating Revenues**	4,972,344	4,972,343	5,090,690	5,090,691	5,211,879
7. **Rate Increase**	**2%**		**2%**		**2%**
8. **OPERATING EXPENSES (1)**					
9. Operating & Maintenance Expenses	2,239,322	2,295,305	2,352,688	2,411,505	2,471,793
10. Remove Economies of Scale					
11. LESS: EOS - Wages & Benefits	(201,527)	(206,565)	(211,729)	(217,023)	(222,448)
12. LESS: EOS - Professional Services	(148,669)	(152,385)	(156,195)	(160,100)	(164,102)
13. LESS: EOS - Eliminated Expenses	0	0	0	0	0
14. ADD: Additional O&M	0	0	0	0	0
15. ADD: PURTA & Reg Assessment	56,578	57,219	57,202	57,858	57,841
16. **Operating Expenses Before Depreciation**	1,945,705	1,993,574	2,041,966	2,092,241	2,143,084
17. Depreciation (2)	466,096	471,610	477,188	482,832	488,544
18. **Total Operating Expenses**	2,411,801	2,465,184	2,519,154	2,575,073	2,631,628
19. **Operating Income**	2,560,543	2,507,159	2,571,536	2,515,618	2,580,251
20. Revenues (3)	4,972,344	4,972,343	5,090,690	5,090,691	5,211,879
21. EBITDA (4)	3,026,639	2,978,769	3,048,724	2,998,450	3,068,795
22. EBIT (5)	2,560,543	2,507,159	2,571,536	2,515,618	2,580,251
23. EBIT	2,560,543	2,507,159	2,571,536	2,515,618	2,580,251
24. (-) Income Taxes	638,653	625,338	641,395	627,448	643,569
25. Debt Free Net Income	1,921,890	1,881,821	1,930,141	1,888,170	1,936,682
26. (+) Depreciation & Amortization	466,096	471,610	477,188	482,832	488,544
27. (-) Capital Expenditures (6)	454,561	459,937	465,378	470,883	476,452
28. (-) Changes in Working Capital (7)	50,221	50,221	51,416	51,416	52,640
29. Debt Free Net Cash Flow	$1,883,205	$1,843,273	$1,890,535	$1,848,703	$1,896,134
30. PV Time Period (mid-year)	15.5	16.5	17.5	18.5	19.5
31. Present Value Factor: 8.25% (8)	0.2927	0.2704	0.2498	0.2307	0.2131
32. Present Value Debt Free Net Cash Flow	$551,214	$498,421	$472,256	$426,496	$404,066
	16	17	18	19	20
33. Present Value Factor: 11.00% (9)	0.1984	0.1787	0.1610	0.1451	0.1307
34. Present Value Debt Free Net Cash Flow	$373,628	$329,393	$304,376	$268,247	$247,825
	16	17	18	19	20
35. Present Value Factor: 8.25% (8)	0.2927	0.2704	0.2498	0.2307	0.2131
36. Present Value Debt Free Net Cash Flow	$551,214	$498,421	$472,256	$426,496	$404,066
	16	17	18	19	20
37. Present Value Factor: 11.00% (9)	0.1984	0.1787	0.1610	0.1451	0.1307
38. Present Value Debt Free Net Cash Flow	$373,628	$329,393	$304,376	$268,247	$247,825

this EXHIBIT for notes and assumptions.

Income Approach
Greenville Municipal Water Authority
Pro Forma and Estimted Operations With IOU Ownership
DCF With Capitalization of Terminal Value Model and
DCF With EBIT & EBITDA Terminal Value Model

DCF With Capitalization of Terminal Value Model @ 8.25%	Terminal Value
Projected Debt Free Net Cash Flow (10)	$1,896,134
Divided by Capitalization Factor (8)	8.25%
20th Year Terminal Value	22,983,448
20th Year Present Value Factor (11)	0.2131
Present Value of Terminal Value	4,897,773
Present Value Debt Free Net Cash Flow for 20 Years	14,754,792
Indicated Value	$19,652,565

DCF With EBIT & EBITDA Terminal Value Model - Discount Rate of 8.25%		Multiples (13)	Terminal Value
Projected EBIT	$2,580,251	20.7	$53,411,203
Projected EBITDA	3,068,795	13.9	42,656,257
Weighted (1/3 EBIT 2/3 EBITDA) Terminal Value			46,205,389
20th Year Present Value Factor (11)			0.2131
Present Value of Terminal Value			9,846,368
Present Value Debt Free Net Cash Flow for 20 Years			14,754,792
Indicated Value			$24,601,160

DCF With Capitalization of Terminal Value Model @ 11.00%	Terminal Value
Projected Debt Free Net Cash Flow (10)	$1,896,134
Divided by Capitalization Factor (9)	11.00%
20th Year Terminal Value	17,237,586
20th Year Present Value Factor (12)	0.1307
Present Value of Terminal Value	2,252,953
Present Value Debt Free Net Cash Flow for 20 Years	11,966,488
Indicated Value	$14,219,441

DCF With EBIT & EBITDA Terminal Value Model - Discount Rate of 11.00%		Multiples (13)	Terminal Value
Projected EBIT	$2,580,251	20.7	$53,411,203
Projected EBITDA	3,068,795	13.9	42,656,257
Weighted (1/3 EBIT 2/3 EBITDA) Terminal Value			46,205,389
20th Year Present Value Factor (12)			0.1307
Present Value of Terminal Value			6,039,044
Present Value Debt Free Net Cash Flow for 20 Years			11,966,488
Indicated Value			$18,005,533

DCF With Capitalization of Terminal Value Model @ 8.25%	Terminal Value
Projected Debt Free Net Cash Flow (10)	$1,896,134
Divided by Capitalization Factor (8)	8.25%
20th Year Terminal Value	22,983,448
20th Year Present Value Factor (11)	0.2131
Present Value of Terminal Value	4,897,773
Present Value Debt Free Net Cash Flow for 20 Years	14,754,792
Indicated Value	$19,652,565

DCF With Capitalization of Terminal Value Model @ 11.00%	Terminal Value
Projected Debt Free Net Cash Flow (10)	$1,896,134
Divided by Capitalization Factor (9)	11.00%
20th Year Terminal Value	17,237,586
20th Year Present Value Factor (12)	0.1307
Present Value of Terminal Value	2,252,953
Present Value Debt Free Net Cash Flow for 20 Years	11,966,488
Indicated Value	$14,219,441

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Income Approach
Greenville Municipal Water Authority
Pro Forma and Estimted Operations With IOU Ownership
DCF With Capitalization of Terminal Value Model and
DCF With EBIT & EBITDA Terminal Value Model

Notes: (1) Assumptions:

Charges for services -Pre-2024 are actual. 2024 and 2025 results are based on 2024 budget. Post-2025 based on customer growth (EDU) and average revenue per customer. Rate increases (Other rate increase line item) are added year after they occur.

Other (Rate Increase) - Assumed purchase by IOU in 2025 with shown rate increases.

OPERATING EXPENSES - increase at 2.5% annually after 2025 unless noted elsewhere. Assumed economies of scale are shown on lines below.
Wages & Benefits - Post-2025 assumed 15% savings due to economies of scale. Increase at 2.5% afterwards.

Professional Services - Post-2025 assumed 50% savings due to economies of scale. Increase at 2.5% afterwards.

No Additional O&M.

PURTA & Reg Assessment - 2025 assumed due to IOU purchase in 2025.

(2) Depreciation - Pre-2024 based on actual depreciation. Post-2023 based on depreciation rate plus same rate on half of CAPX.

(3) Line 6.

(4) Line 19 + line 17.

(5) Line 19.

(6) Capital Expenditures - Pre-2026 based on financials/budget. Post-2025 years are estimates based on 1.36% of prior year-end GROSS Property, plant and equipment.

(7) Changes in Working Capital - based on water industry 1.01% of revenues.

(8) Discount rate is the current lower end of the IOU discount rate. Capitalization rate (K) at 3/31/2024 adjusted for stated growth (g) where capitalization rate = K - g.

(9) Discount rate is the current upper end of the IOU discount rate. Capitalization rate (K) at 3/31/2024 adjusted for stated growth (g) where capitalization rate = K - g.

(10) Final year shown, line 29.

(11) Final year shown, line 31.

(12) Final year shown, line 33.

(13) Developed on Market Multiples EXHIBIT 18.

Terms:

CAPX - Capital Expenditures
CIP - Capital improvement plan
Dep - Depreciation expense
GROSS PPE - GROSS Property, plant and equipment
IOU - Investor owned utility
MUNI - Large regional municipally owned utility
NET PPE - NET Property, plant and equipment

Income Approach
Greenville Municipal Water Authority
Pro Forma and Estimted Operations With MUNI Ownership
DCF With Capitalization of Terminal Value Model and
DCF With EBIT & EBITDA Terminal Value Model

	Actual			Budget	Estimated	Estimated
				Year 0	Year 1	Year 2
	2021	2022	2023	2024	2025	2026
1. **OPERATING REVENUES (1)**						
2. Charges for services	1,948,448	2,111,110	2,184,059	2,181,171	2,225,247	2,225,247
3. Other operating revenue	35,163	29,233	42,448	40,000	41,200	41,200
4. Tap Fees	0	0	0	0	0	0
5. Other (Rate Increase)	0	0	0	0	0	778,836
6. **Total Operating Revenues**	1,983,611	2,140,343	2,226,507	2,221,171	2,266,447	3,045,283
7. **Rate Increase**						**35%**
8. **OPERATING EXPENSES (1)**						
9. Operating & Maintenance Expenses	1,359,687	1,594,861	1,475,349	1,594,336	1,546,175	1,584,829
10. Remove Economies of Scale						
11. LESS: EOS - Wages & Benefits	0	0	0	(141,423)	(139,148)	(142,626)
12. LESS: EOS - Professional Services	0	0	0	(111,661)	(102,651)	(105,217)
13. LESS: EOS - Eliminated Expenses	0	0	0	0	0	0
14. ADD: Additional O&M	0	0	0	0	0	0
15. **Operating Expenses Before Depreciation**	1,359,687	1,594,861	1,475,349	1,341,252	1,304,377	1,336,986
16. Depreciation (2)	369,597	393,673	393,673	0	575,140	581,799
17. **Total Operating Expenses**	1,729,284	1,988,534	1,869,022	1,341,252	1,879,517	1,918,785
18. **Operating Income**	254,327	151,809	357,485	879,919	386,930	1,126,498
19. Revenues (3)	1,983,611	2,140,343	2,226,507	2,221,171	2,266,447	3,045,283
20. EBITDA (4)	623,924	545,482	751,158	879,919	962,070	1,708,297
21. EBIT (5)	254,327	151,809	357,485	879,919	386,930	1,126,498
22. EBIT	254,327	151,809	357,485	879,919	386,930	1,126,498
23. (-) Income Taxes	0	0	0	0	0	0
24. Debt Free Net Income	254,327	151,809	357,485	879,919	386,930	1,126,498
25. (+) Depreciation & Amortization	369,597	393,673	393,673	0	575,140	581,799
26. (-) Capital Expenditures (6)	329,699	2,740,347	2,959,807	323,951	560,962	567,457
27. (-) Changes in Working Capital (7)	20,034	21,617	22,488	22,434	22,891	30,757
28. Debt Free Net Cash Flow	$274,191	($2,216,482)	($2,231,137)	$533,534	$378,217	$1,110,082
29. PV Time Period (mid-year)				(0.5)	0.5	1.5
					1	2
30. Present Value Factor: 4.26% (8)					0.9794	0.9393
31. Present Value Debt Free Net Cash Flow					$370,426	$1,042,700
					1	2
32. Present Value Factor: 4.26% (9)					0.9794	0.9393
33. Present Value Debt Free Net Cash Flow					$370,426	$1,042,700

See last page of this EXHIBIT for notes and assumptions.

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	Estimated Year 3	Estimated Year 4	Estimated Year 5	Estimated Year 6	Estimated Year 7	Estimated Year 8
	2027	2028	2029	2030	2031	2032
1. **OPERATING REVENUES (1)**						
2. Charges for services	3,004,083	3,004,083	3,004,083	3,184,328	3,184,328	3,184,328
3. Other operating revenue	41,200	41,200	41,200	41,200	41,200	41,200
4. Tap Fees	0	0	0	0	0	0
5. Other (Rate Increase)	0	0	180,245	0	0	191,060
6. **Total Operating Revenues**	3,045,283	3,045,283	3,225,528	3,225,528	3,225,528	3,416,588
7. **Rate Increase**			**6%**			**6%**
8. **OPERATING EXPENSES (1)**						
9. Operating & Maintenance Expenses	1,624,450	1,665,061	1,706,688	1,749,355	1,793,089	1,837,916
10. Remove Economies of Scale						
11. LESS: EOS - Wages & Benefits	(146,192)	(149,847)	(153,593)	(157,433)	(161,368)	(165,403)
12. LESS: EOS - Professional Services	(107,847)	(110,543)	(113,307)	(116,140)	(119,043)	(122,019)
13. LESS: EOS - Eliminated Expenses	0	0	0	0	0	0
14. ADD: Additional O&M	0	0	0	0	0	0
15. **Operating Expenses Before Depreciation**	1,370,411	1,404,671	1,439,788	1,475,783	1,512,677	1,550,494
16. Depreciation (2)	588,535	595,350	602,243	609,217	616,270	623,406
17. **Total Operating Expenses**	1,958,946	2,000,021	2,042,031	2,085,000	2,128,947	2,173,900
18. **Operating Income**	1,086,337	1,045,262	1,183,497	1,140,528	1,096,581	1,242,688
19. Revenues (3)	3,045,283	3,045,283	3,225,528	3,225,528	3,225,528	3,416,588
20. EBITDA (4)	1,674,872	1,640,612	1,785,740	1,749,745	1,712,851	1,866,094
21. EBIT (5)	1,086,337	1,045,262	1,183,497	1,140,528	1,096,581	1,242,688
22. EBIT	1,086,337	1,045,262	1,183,497	1,140,528	1,096,581	1,242,688
23. (-) Income Taxes	0	0	0	0	0	0
24. Debt Free Net Income	1,086,337	1,045,262	1,183,497	1,140,528	1,096,581	1,242,688
25. (+) Depreciation & Amortization	588,535	595,350	602,243	609,217	616,270	623,406
26. (-) Capital Expenditures (6)	574,028	580,674	587,398	594,199	601,079	608,039
27. (-) Changes in Working Capital (7)	30,757	30,757	32,578	32,578	32,578	34,508
28. Debt Free Net Cash Flow	$1,070,087	$1,029,180	$1,165,764	$1,122,968	$1,079,194	$1,223,547
29. PV Time Period (mid-year)	2.5	3.5	4.5	5.5	6.5	7.5
	3	4	5	6	7	8
30. Present Value Factor: 4.26% (8)	0.9010	0.8641	0.8288	0.7950	0.7625	0.7313
31. Present Value Debt Free Net Cash Flow	$964,148	$889,315	$966,185	$892,760	$822,885	$894,780
	3	4	5	6	7	8
32. Present Value Factor: 4.26% (9)	0.9010	0.8641	0.8288	0.7950	0.7625	0.7313
33. Present Value Debt Free Net Cash Flow	$964,148	$889,315	$966,185	$892,760	$822,885	$894,780

See last page of this EXHIBIT for notes and assumptions.

Income Approach
Greenville Municipal Water Authority
Pro Forma and Estimted Operations With MUNI Ownership
DCF With Capitalization of Terminal Value Model and
DCF With EBIT & EBITDA Terminal Value Model

	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated
	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
	2033	2034	2035	2036	2037	2038	2039
1. **OPERATING REVENUES (1)**							
2. Charges for services	3,375,388	3,375,388	3,375,388	3,577,911	3,577,911	3,577,911	3,792,586
3. Other operating revenue	41,200	41,200	41,200	41,200	41,200	41,200	41,200
4. Tap Fees	0	0	0	0	0	0	0
5. Other (Rate Increase)	0	0	202,523	0	0	214,675	0
6. **Total Operating Revenues**	3,416,588	3,416,588	3,619,111	3,619,111	3,619,111	3,833,786	3,833,786
7. **Rate Increase**			**6%**			**6%**	
8. **OPERATING EXPENSES (1)**							
9. Operating & Maintenance Expenses	1,883,864	1,930,961	1,979,235	2,028,716	2,079,433	2,131,419	2,184,705
10. Remove Economies of Scale							
11. LESS: EOS - Wages & Benefits	(169,538)	(173,776)	(178,121)	(182,574)	(187,138)	(191,816)	(196,612)
12. LESS: EOS - Professional Services	(125,070)	(128,196)	(131,401)	(134,686)	(138,054)	(141,505)	(145,042)
13. LESS: EOS - Eliminated Expenses	0	0	0	0	0	0	0
14. ADD: Additional O&M	0	0	0	0	0	0	0
15. **Operating Expenses Before Depreciation**	1,589,257	1,628,988	1,669,713	1,711,456	1,754,242	1,798,098	1,843,051
16. Depreciation (2)	630,624	637,926	645,312	652,784	660,342	667,988	675,723
17. **Total Operating Expenses**	2,219,881	2,266,914	2,315,025	2,364,240	2,414,584	2,466,087	2,518,774
18. **Operating Income**	1,196,707	1,149,674	1,304,086	1,254,871	1,204,527	1,367,699	1,315,012
19. Revenues (3)	3,416,588	3,416,588	3,619,111	3,619,111	3,619,111	3,833,786	3,833,786
20. EBITDA (4)	1,827,331	1,787,600	1,949,398	1,907,655	1,864,869	2,035,688	1,990,735
21. EBIT (5)	1,196,707	1,149,674	1,304,086	1,254,871	1,204,527	1,367,699	1,315,012
22. EBIT	1,196,707	1,149,674	1,304,086	1,254,871	1,204,527	1,367,699	1,315,012
23. (-) Income Taxes	0	0	0	0	0	0	0
24. Debt Free Net Income	1,196,707	1,149,674	1,304,086	1,254,871	1,204,527	1,367,699	1,315,012
25. (+) Depreciation & Amortization	630,624	637,926	645,312	652,784	660,342	667,988	675,723
26. (-) Capital Expenditures (6)	615,079	622,201	629,405	636,693	644,065	651,522	659,066
27. (-) Changes in Working Capital (7)	34,508	34,508	36,553	36,553	36,553	38,721	38,721
28. Debt Free Net Cash Flow	$1,177,745	$1,130,891	$1,283,440	$1,234,409	$1,184,251	$1,345,445	$1,292,948
29. PV Time Period (mid-year)	8.5	9.5	10.5	11.5	12.5	13.5	14.5
	9	10	11	12	13	14	15
30. Present Value Factor: 4.26% (8)	0.7015	0.6728	0.6453	0.6189	0.5936	0.5694	0.5461
31. Present Value Debt Free Net Cash Flow	$826,188	$760,864	$828,204	$763,976	$702,971	$766,096	$706,079
	9	10	11	12	13	14	15
32. Present Value Factor: 4.26% (9)	0.7015	0.6728	0.6453	0.6189	0.5936	0.5694	0.5461
33. Present Value Debt Free Net Cash Flow	$826,188	$760,864	$828,204	$763,976	$702,971	$766,096	$706,079

See last page of this EXHIBIT for notes and assumptions. **See last page of**

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Pro Forma and Estimted Operations With MUNI Ownership
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	Estimated Year 16	Estimated Year 17	Estimated Year 18	Estimated Year 19	Estimated Year 20
	2040	2041	2042	2043	2044
1. **OPERATING REVENUES (1)**					
2. Charges for services	3,792,586	3,906,364	3,906,364	4,023,555	4,023,555
3. Other operating revenue	41,200	41,200	41,200	41,200	41,200
4. Tap Fees	0	0	0	0	0
5. Other (Rate Increase)	113,778	0	117,191	0	120,707
6. **Total Operating Revenues**	3,947,564	3,947,564	4,064,755	4,064,755	4,185,462
7. **Rate Increase**	**3%**		**3%**		**3%**
8. **OPERATING EXPENSES (1)**					
9. Operating & Maintenance Expenses	2,239,322	2,295,305	2,352,688	2,411,505	2,471,793
10. Remove Economies of Scale					
11. LESS: EOS - Wages & Benefits	(201,527)	(206,565)	(211,729)	(217,023)	(222,448)
12. LESS: EOS - Professional Services	(148,669)	(152,385)	(156,195)	(160,100)	(164,102)
13. LESS: EOS - Eliminated Expenses	0	0	0	0	0
14. ADD: Additional O&M	0	0	0	0	0
15. **Operating Expenses Before Depreciation**	1,889,127	1,936,355	1,984,764	2,034,383	2,085,243
16. Depreciation (2)	683,547	691,461	699,467	707,566	715,759
17. **Total Operating Expenses**	2,572,674	2,627,816	2,684,231	2,741,949	2,801,002
18. **Operating Income**	1,374,890	1,319,748	1,380,524	1,322,806	1,384,460
19. Revenues (3)	3,947,564	3,947,564	4,064,755	4,064,755	4,185,462
20. EBITDA (4)	2,058,437	2,011,209	2,079,991	2,030,372	2,100,219
21. EBIT (5)	1,374,890	1,319,748	1,380,524	1,322,806	1,384,460
22. EBIT	1,374,890	1,319,748	1,380,524	1,322,806	1,384,460
23. (-) Income Taxes	0	0	0	0	0
24. Debt Free Net Income	1,374,890	1,319,748	1,380,524	1,322,806	1,384,460
25. (+) Depreciation & Amortization	683,547	691,461	699,467	707,566	715,759
26. (-) Capital Expenditures (6)	666,697	674,417	682,226	690,125	698,116
27. (-) Changes in Working Capital (7)	39,870	39,870	41,054	41,054	42,273
28. Debt Free Net Cash Flow	$1,351,870	$1,296,922	$1,356,711	$1,299,193	$1,359,830
29. PV Time Period (mid-year)	15.5	16.5	17.5	18.5	19.5
	16	17	18	19	20
30. Present Value Factor: 4.26% (8)	0.5238	0.5024	0.4819	0.4622	0.4433
31. Present Value Debt Free Net Cash Flow	$708,109	$651,573	$653,799	$600,487	$602,813
	16	17	18	19	20
32. Present Value Factor: 4.26% (9)	0.5238	0.5024	0.4819	0.4622	0.4433
33. Present Value Debt Free Net Cash Flow	$708,109	$651,573	$653,799	$600,487	$602,813

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DCF With EBIT & EBITDA Terminal Value Model

DCF With Capitalization of Terminal Value Model @ 4.26%	
	Terminal Value
Projected Debt Free Net Cash Flow (10)	$1,359,830
Divided by Capitalization Factor (8)	4.26%
20th Year Terminal Value	31,920,899
20th Year Present Value Factor (11)	0.4433
Present Value of Terminal Value	14,150,535
Present Value Debt Free Net Cash Flow for 20 Years	15,414,358
Indicated Value	$29,564,893

DCF With EBIT & EBITDA Terminal Value Model - Discount Rate of 4.26%			
		Multiples (13)	Terminal Value
Projected EBIT	$1,384,460	20.7	$28,658,323
Projected EBITDA	2,100,219	13.9	29,193,051
Weighted (1/3 EBIT 2/3 EBITDA) Terminal Value			29,016,590
20th Year Present Value Factor (11)			0.4433
Present Value of Terminal Value			12,863,054
Present Value Debt Free Net Cash Flow for 20 Years			15,414,358
Indicated Value			$28,277,413

DCF With Capitalization of Terminal Value Model @ 4.26%	
	Terminal Value
Projected Debt Free Net Cash Flow (10)	$1,359,830
Divided by Capitalization Factor (9)	4.26%
20th Year Terminal Value	31,920,899
20th Year Present Value Factor (12)	0.4433
Present Value of Terminal Value	14,150,535
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DCF With EBIT & EBITDA Terminal Value Model - Discount Rate of 4.26%			
		Multiples (13)	Terminal Value
Projected EBIT	$1,384,460	20.7	$28,658,323
Projected EBITDA	2,100,219	13.9	29,193,051
Weighted (1/3 EBIT 2/3 EBITDA) Terminal Value			29,016,590
20th Year Present Value Factor (12)			0.4433
Present Value of Terminal Value			12,863,054
Present Value Debt Free Net Cash Flow for 20 Years			15,414,358
Indicated Value			$28,277,413

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DCF With Capitalization of Terminal Value Model and
DCF With EBIT & EBITDA Terminal Value Model

Notes: (1) Assumptions:

Charges for services -Pre-2024 are actual. 2024 and 2025 results are based on 2024 budget. Post-2025 based on customer growth (EDU) and average revenue per customer. Rate increases (Other rate increase line item) are added year after they occur.

Other (Rate Increase) - Assumed purchase by MUNI in 2025 with shown rate increases.

OPERATING EXPENSES - increase at 2.5% annually after 2025 unless noted elsewhere. Assumed economies of scale are shown on lines below.
Wages & Benefits - Post-2025 assumed 15% savings due to economies of scale. Increase at 2.5% afterwards.

Professional Services - Post-2025 assumed 50% savings due to economies of scale. Increase at 2.5% afterwards.

No Additional O&M.

(2) Depreciation - Pre-2024 based on actual depreciation. Post-2023 based on depreciation rate plus same rate on half of CAPX.
(3) Line 6.
(4) Line 18 + line 16.
(5) Line 18.
(6) Capital Expenditures - Pre-2026 based on financials/budget. Post-2025 years are estimates based on 1.34% of prior year-end GROSS Property, plant and equipment.
(7) Changes in Working Capital - based on water industry 1.01% of revenues.
(8) Discount rate is the the current MUNI discount rate. Capitalization rate (K) at 3/31/2024 equal to discount rate, where capitalization rate = K - g.
(9) Discount rate is the current MUNI discount rate. Capitalization rate (K) at 3/31/2024 adjusted for stated growth (g) where capitalization rate = K - g.
(10) Final year shown, line 28.
(11) Final year shown, line 30.
(12) Final year shown, line 30.
(13) Developed on Market Multiples EXHIBIT 18.

Terms:

CAPX - Capital Expenditures
CIP - Capital improvement plan
Dep - Depreciation expense
GROSS PPE - GROSS Property, plant and equipment
IOU - Investor owned utility
MUNI - Large regional municipally owned utility
NET PPE - NET Property, plant and equipment

Income Approach
Greenville Municipal Water Authority
Pro Forma and Estimted Operations With IOU Ownership
DCF With Capitalization of Terminal Value Model and
DCF With EBIT & EBITDA Terminal Value Model

	Actual			Budget	Estimated	Estimated
				Year 0	Year 1	Year 2
	2021	2022	2023	2024	2025	2026
1. **OPERATING REVENUES (1)**						
2. Charges for services	1,948,448	2,111,110	2,184,059	2,181,171	2,225,247	2,225,247
3. Other operating revenue	35,163	29,233	42,448	40,000	41,200	41,200
4. Tap Fees	0	0	0	0	0	0
5. Other (Rate Increase)	0	0	0	0	0	1,668,935
6. **Total Operating Revenues**	1,983,611	2,140,343	2,226,507	2,221,171	2,266,447	3,935,382
7. **Rate Increase**						**75%**
8. **OPERATING EXPENSES (1)**						
9. Operating & Maintenance Expenses	1,359,687	1,594,861	1,475,349	1,594,336	1,546,175	1,584,829
10. Remove Economies of Scale						
11. LESS: EOS - Wages & Benefits	0	0	0	(141,423)	(139,148)	(142,626)
12. LESS: EOS - Professional Services	0	0	0	(111,661)	(102,651)	(105,217)
13. LESS: EOS - Eliminated Expenses	0	0	0	0	0	0
14. ADD: Additional O&M	0	0	0	0	0	0
15. ADD: PURTA & Reg Assessment	0	0	0	0	71,609	71,846
16. **Operating Expenses Before Depreciation**	1,359,687	1,594,861	1,475,349	1,341,252	1,375,986	1,408,832
17. Depreciation (2)	369,597	393,673	393,673	0	575,140	581,799
18. **Total Operating Expenses**	1,729,284	1,988,534	1,869,022	1,341,252	1,951,126	1,990,631
19. **Operating Income**	254,327	151,809	357,485	879,919	315,321	1,944,751
20. Revenues (3)	1,983,611	2,140,343	2,226,507	2,221,171	2,266,447	3,935,382
21. EBITDA (4)	623,924	545,482	751,158	879,919	890,461	2,526,550
22. EBIT (5)	254,327	151,809	357,485	879,919	315,321	1,944,751
23. EBIT	254,327	151,809	357,485	879,919	315,321	1,944,751
24. (-) Income Taxes	0	0	0	243,800	86,121	523,470
25. Debt Free Net Income	254,327	151,809	357,485	636,119	229,200	1,421,281
26. (+) Depreciation & Amortization	369,597	393,673	393,673	0	575,140	581,799
27. (-) Capital Expenditures (6)	329,699	2,740,347	2,959,807	323,951	560,962	567,457
28. (-) Changes in Working Capital (7)	20,034	21,617	22,488	22,434	22,891	39,747
29. Debt Free Net Cash Flow	$274,191	($2,216,482)	($2,231,137)	$289,734	$220,487	$1,395,875
30. PV Time Period (mid-year)				(0.5)	0.5	1.5
31. Present Value Factor: 8.25% (8)					0.9611	0.8879
32. Present Value Debt Free Net Cash Flow					$211,910	$1,239,398
					1	2
33. Present Value Factor: 11.00% (9)					0.9492	0.8551
34. Present Value Debt Free Net Cash Flow					$209,286	$1,193,613
					1	2
35. Present Value Factor: 8.25% (8)					0.9611	0.8879
36. Present Value Debt Free Net Cash Flow					$211,910	$1,239,398
					1	2
37. Present Value Factor: 11.00% (9)					0.9492	0.8551
38. Present Value Debt Free Net Cash Flow					$209,286	$1,193,613

See last page of this EXHIBIT for notes and assumptions.

Income Approach
Greenville Municipal Water Authority
Pro Forma and Estimted Operations With IOU Ownership
DCF With Capitalization of Terminal Value Model and
DCF With EBIT & EBITDA Terminal Value Model

	Estimated Year 3	Estimated Year 4	Estimated Year 5	Estimated Year 6	Estimated Year 7	Estimated Year 8
	2027	2028	2029	2030	2031	2032
1. **OPERATING REVENUES (1)**						
2. Charges for services	3,894,182	3,894,182	3,894,182	4,400,426	4,400,426	4,400,426
3. Other operating revenue	41,200	41,200	41,200	41,200	41,200	41,200
4. Tap Fees	0	0	0	0	0	0
5. Other (Rate Increase)	0	0	506,244	0	0	572,055
6. **Total Operating Revenues**	3,935,382	3,935,382	4,441,626	4,441,626	4,441,626	5,013,681
7. **Rate Increase**			**13%**			**13%**
8. **OPERATING EXPENSES (1)**						
9. Operating & Maintenance Expenses	1,624,450	1,665,061	1,706,688	1,749,355	1,793,089	1,837,916
10. Remove Economies of Scale						
11. LESS: EOS - Wages & Benefits	(146,192)	(149,847)	(153,593)	(157,433)	(161,368)	(165,403)
12. LESS: EOS - Professional Services	(107,847)	(110,543)	(113,307)	(116,140)	(119,043)	(122,019)
13. LESS: EOS - Eliminated Expenses	0	0	0	0	0	0
14. ADD: Additional O&M	0	0	0	0	0	0
15. ADD: PURTA & Reg Assessment	81,322	81,301	81,280	84,140	84,118	84,096
16. **Operating Expenses Before Depreciation**	1,451,733	1,485,972	1,521,068	1,559,923	1,596,795	1,634,590
17. Depreciation (2)	588,535	595,350	602,243	609,217	616,270	623,406
18. **Total Operating Expenses**	2,040,268	2,081,322	2,123,311	2,169,140	2,213,065	2,257,996
19. **Operating Income**	1,895,114	1,854,060	2,318,315	2,272,486	2,228,561	2,755,685
20. Revenues (3)	3,935,382	3,935,382	4,441,626	4,441,626	4,441,626	5,013,681
21. EBITDA (4)	2,483,649	2,449,410	2,920,558	2,881,703	2,844,831	3,379,091
22. EBIT (5)	1,895,114	1,854,060	2,318,315	2,272,486	2,228,561	2,755,685
23. EBIT	1,895,114	1,854,060	2,318,315	2,272,486	2,228,561	2,755,685
24. (-) Income Taxes	502,624	484,412	596,551	575,782	555,850	687,326
25. Debt Free Net Income	1,392,490	1,369,648	1,721,764	1,696,704	1,672,711	2,068,359
26. (+) Depreciation & Amortization	588,535	595,350	602,243	609,217	616,270	623,406
27. (-) Capital Expenditures (6)	574,028	580,674	587,398	594,199	601,079	608,039
28. (-) Changes in Working Capital (7)	39,747	39,747	44,860	44,860	44,860	50,638
29. Debt Free Net Cash Flow	$1,367,250	$1,344,576	$1,691,748	$1,666,862	$1,643,041	$2,033,087
30. PV Time Period (mid-year)	2.5	3.5	4.5	5.5	6.5	7.5
31. Present Value Factor: 8.25% (8)	0.8202	0.7577	0.7000	0.6466	0.5973	0.5518
32. Present Value Debt Free Net Cash Flow	$1,121,418	$1,018,785	$1,184,224	$1,077,793	$981,388	$1,121,858
	3	4	5	6	7	8
33. Present Value Factor: 11.00% (9)	0.7704	0.6940	0.6252	0.5633	0.5075	0.4572
34. Present Value Debt Free Net Cash Flow	$1,053,329	$933,136	$1,057,681	$938,943	$833,843	$929,528
	3	4	5	6	7	8
35. Present Value Factor: 8.25% (8)	0.8202	0.7577	0.7000	0.6466	0.5973	0.5518
36. Present Value Debt Free Net Cash Flow	$1,121,418	$1,018,785	$1,184,224	$1,077,793	$981,388	$1,121,858
	3	4	5	6	7	8
37. Present Value Factor: 11.00% (9)	0.7704	0.6940	0.6252	0.5633	0.5075	0.4572
38. Present Value Debt Free Net Cash Flow	$1,053,329	$933,136	$1,057,681	$938,943	$833,843	$929,528

See last page of this EXHIBIT for notes and assumptions.

Income Approach
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	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated
	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15
	2033	2034	2035	2036	2037	2038	2039
1. **OPERATING REVENUES (1)**							
2. Charges for services	4,972,481	4,972,481	4,972,481	5,618,904	5,618,904	5,618,904	5,899,849
3. Other operating revenue	41,200	41,200	41,200	41,200	41,200	41,200	41,200
4. Tap Fees	0	0	0	0	0	0	0
5. Other (Rate Increase)	0	0	646,423	0	0	280,945	0
6. **Total Operating Revenues**	5,013,681	5,013,681	5,660,104	5,660,104	5,660,104	5,941,049	5,941,049
7. **Rate Increase**			**13%**			**5%**	
8. **OPERATING EXPENSES (1)**							
9. Operating & Maintenance Expenses	1,883,864	1,930,961	1,979,235	2,028,716	2,079,433	2,131,419	2,184,705
10. Remove Economies of Scale							
11. LESS: EOS - Wages & Benefits	(169,538)	(173,776)	(178,121)	(182,574)	(187,138)	(191,816)	(196,612)
12. LESS: EOS - Professional Services	(125,070)	(128,196)	(131,401)	(134,686)	(138,054)	(141,505)	(145,042)
13. LESS: EOS - Eliminated Expenses	0	0	0	0	0	0	0
14. ADD: Additional O&M	0	0	0	0	0	0	0
15. ADD: PURTA & Reg Assessment	87,329	87,307	87,285	90,940	90,917	90,894	92,469
16. **Operating Expenses Before Depreciation**	1,676,586	1,716,295	1,756,998	1,802,396	1,845,159	1,888,992	1,935,520
17. Depreciation (2)	630,624	637,926	645,312	652,784	660,342	667,988	675,723
18. **Total Operating Expenses**	2,307,210	2,354,221	2,402,310	2,455,180	2,505,501	2,556,981	2,611,243
19. **Operating Income**	2,706,471	2,659,460	3,257,794	3,204,924	3,154,603	3,384,068	3,329,806
20. Revenues (3)	5,013,681	5,013,681	5,660,104	5,660,104	5,660,104	5,941,049	5,941,049
21. EBITDA (4)	3,337,095	3,297,386	3,903,106	3,857,708	3,814,945	4,052,057	4,005,529
22. EBIT (5)	2,706,471	2,659,460	3,257,794	3,204,924	3,154,603	3,384,068	3,329,806
23. EBIT	2,706,471	2,659,460	3,257,794	3,204,924	3,154,603	3,384,068	3,329,806
24. (-) Income Taxes	675,051	663,325	812,562	799,375	786,824	844,058	830,524
25. Debt Free Net Income	2,031,420	1,996,135	2,445,232	2,405,549	2,367,779	2,540,010	2,499,282
26. (+) Depreciation & Amortization	630,624	637,926	645,312	652,784	660,342	667,988	675,723
27. (-) Capital Expenditures (6)	615,079	622,201	629,405	636,693	644,065	651,522	659,066
28. (-) Changes in Working Capital (7)	50,638	50,638	57,167	57,167	57,167	60,005	60,005
29. Debt Free Net Cash Flow	$1,996,327	$1,961,222	$2,403,972	$2,364,473	$2,326,889	$2,496,472	$2,455,935
30. PV Time Period (mid-year)	8.5	9.5	10.5	11.5	12.5	13.5	14.5
31. Present Value Factor: 8.25% (8)	0.5098	0.4709	0.4350	0.4019	0.3712	0.3429	0.3168
32. Present Value Debt Free Net Cash Flow	$1,017,728	$923,539	$1,045,728	$950,282	$863,741	$856,040	$778,040
	9	10	11	12	13	14	15
33. Present Value Factor: 11.00% (9)	0.4119	0.3710	0.3343	0.3012	0.2713	0.2444	0.2202
34. Present Value Debt Free Net Cash Flow	$822,287	$727,613	$803,648	$712,179	$631,285	$610,138	$540,797
	9	10	11	12	13	14	15
35. Present Value Factor: 8.25% (8)	0.5098	0.4709	0.4350	0.4019	0.3712	0.3429	0.3168
36. Present Value Debt Free Net Cash Flow	$1,017,728	$923,539	$1,045,728	$950,282	$863,741	$856,040	$778,040
	9	10	11	12	13	14	15
37. Present Value Factor: 11.00% (9)	0.4119	0.3710	0.3343	0.3012	0.2713	0.2444	0.2202
38. Present Value Debt Free Net Cash Flow	$822,287	$727,613	$803,648	$712,179	$631,285	$610,138	$540,797

See last page of this EXHIBIT for notes and assumptions. **See last page of**

Income Approach
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DCF With Capitalization of Terminal Value Model and
DCF With EBIT & EBITDA Terminal Value Model

	Estimated Year 16	Estimated Year 17	Estimated Year 18	Estimated Year 19	Estimated Year 20
	2040	2041	2042	2043	2044
1. **OPERATING REVENUES (1)**					
2. Charges for services	5,899,849	6,065,045	6,065,045	6,198,476	6,198,476
3. Other operating revenue	41,200	41,200	41,200	41,200	41,200
4. Tap Fees	0	0	0	0	0
5. Other (Rate Increase)	165,196	0	133,431	0	136,366
6. **Total Operating Revenues**	6,106,245	6,106,245	6,239,676	6,239,676	6,376,042
7. **Rate Increase**	**3%**		**2%**		**2%**
8. **OPERATING EXPENSES (1)**					
9. Operating & Maintenance Expenses	2,239,322	2,295,305	2,352,688	2,411,505	2,471,793
10. Remove Economies of Scale					
11. LESS: EOS - Wages & Benefits	(201,527)	(206,565)	(211,729)	(217,023)	(222,448)
12. LESS: EOS - Professional Services	(148,669)	(152,385)	(156,195)	(160,100)	(164,102)
13. LESS: EOS - Eliminated Expenses	0	0	0	0	0
14. ADD: Additional O&M	0	0	0	0	0
15. ADD: PURTA & Reg Assessment	92,445	93,361	93,337	94,071	94,046
16. **Operating Expenses Before Depreciation**	1,981,572	2,029,716	2,078,101	2,128,454	2,179,289
17. Depreciation (2)	683,547	691,461	699,467	707,566	715,759
18. **Total Operating Expenses**	2,665,119	2,721,177	2,777,568	2,836,020	2,895,048
19. **Operating Income**	3,441,126	3,385,068	3,462,108	3,403,656	3,480,994
20. Revenues (3)	6,106,245	6,106,245	6,239,676	6,239,676	6,376,042
21. EBITDA (4)	4,124,673	4,076,529	4,161,575	4,111,222	4,196,753
22. EBIT (5)	3,441,126	3,385,068	3,462,108	3,403,656	3,480,994
23. EBIT	3,441,126	3,385,068	3,462,108	3,403,656	3,480,994
24. (-) Income Taxes	858,289	844,307	863,522	848,943	868,233
25. Debt Free Net Income	2,582,837	2,540,761	2,598,586	2,554,713	2,612,761
26. (+) Depreciation & Amortization	683,547	691,461	699,467	707,566	715,759
27. (-) Capital Expenditures (6)	666,697	674,417	682,226	690,125	698,116
28. (-) Changes in Working Capital (7)	61,673	61,673	63,021	63,021	64,398
29. Debt Free Net Cash Flow	$2,538,014	$2,496,132	$2,552,806	$2,509,133	$2,566,006
30. PV Time Period (mid-year)	15.5	16.5	17.5	18.5	19.5
31. Present Value Factor: 8.25% (8)	0.2927	0.2704	0.2498	0.2307	0.2131
32. Present Value Debt Free Net Cash Flow	$742,877	$674,954	$637,691	$578,857	$546,816
	16	17	18	19	20
33. Present Value Factor: 11.00% (9)	0.1984	0.1787	0.1610	0.1451	0.1307
34. Present Value Debt Free Net Cash Flow	$503,542	$446,059	$411,002	$364,075	$335,377
	16	17	18	19	20
35. Present Value Factor: 8.25% (8)	0.2927	0.2704	0.2498	0.2307	0.2131
36. Present Value Debt Free Net Cash Flow	$742,877	$674,954	$637,691	$578,857	$546,816
	16	17	18	19	20
37. Present Value Factor: 11.00% (9)	0.1984	0.1787	0.1610	0.1451	0.1307
38. Present Value Debt Free Net Cash Flow	$503,542	$446,059	$411,002	$364,075	$335,377

this EXHIBIT for notes and assumptions.

Income Approach
Greenville Municipal Water Authority
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DCF With Capitalization of Terminal Value Model and
DCF With EBIT & EBITDA Terminal Value Model

DCF With Capitalization of Terminal Value Model @ 8.25%	Terminal Value
Projected Debt Free Net Cash Flow (10)	$2,566,006
Divided by Capitalization Factor (8)	8.25%
20th Year Terminal Value	31,103,108
20th Year Present Value Factor (11)	0.2131
Present Value of Terminal Value	6,628,072
Present Value Debt Free Net Cash Flow for 20 Years	17,573,067
Indicated Value	$24,201,139

DCF With EBIT & EBITDA Terminal Value Model - Discount Rate of 8.25%		Multiples (13)	Terminal Value
Projected EBIT	$3,480,994	20.7	$72,056,577
Projected EBITDA	4,196,753	13.9	58,334,873
Weighted (1/3 EBIT 2/3 EBITDA) Terminal Value			62,863,035
20th Year Present Value Factor (11)			0.2131
Present Value of Terminal Value			13,396,113
Present Value Debt Free Net Cash Flow for 20 Years			17,573,067
Indicated Value			$30,969,180

DCF With Capitalization of Terminal Value Model @ 11.00%	Terminal Value
Projected Debt Free Net Cash Flow (10)	$2,566,006
Divided by Capitalization Factor (9)	11.00%
20th Year Terminal Value	23,327,331
20th Year Present Value Factor (12)	0.1307
Present Value of Terminal Value	3,048,882
Present Value Debt Free Net Cash Flow for 20 Years	14,057,362
Indicated Value	$17,106,244

DCF With EBIT & EBITDA Terminal Value Model - Discount Rate of 11.00%		Multiples (13)	Terminal Value
Projected EBIT	$3,480,994	20.7	$72,056,577
Projected EBITDA	4,196,753	13.9	58,334,873
Weighted (1/3 EBIT 2/3 EBITDA) Terminal Value			62,863,035
20th Year Present Value Factor (12)			0.1307
Present Value of Terminal Value			8,216,199
Present Value Debt Free Net Cash Flow for 20 Years			14,057,362
Indicated Value			$22,273,560

DCF With Capitalization of Terminal Value Model @ 8.25%	Terminal Value
Projected Debt Free Net Cash Flow (10)	$2,566,006
Divided by Capitalization Factor (8)	8.25%
20th Year Terminal Value	31,103,108
20th Year Present Value Factor (11)	0.2131
Present Value of Terminal Value	6,628,072
Present Value Debt Free Net Cash Flow for 20 Years	17,573,067
Indicated Value	$24,201,139

DCF With Capitalization of Terminal Value Model @ 11.00%	Terminal Value
Projected Debt Free Net Cash Flow (10)	$2,566,006
Divided by Capitalization Factor (9)	11.00%
20th Year Terminal Value	23,327,331
20th Year Present Value Factor (12)	0.1307
Present Value of Terminal Value	3,048,882
Present Value Debt Free Net Cash Flow for 20 Years	14,057,362
Indicated Value	$17,106,244

See last page of this EXHIBIT for notes and assumptions.

Income Approach
Greenville Municipal Water Authority
Pro Forma and Estimted Operations With IOU Ownership
DCF With Capitalization of Terminal Value Model and
DCF With EBIT & EBITDA Terminal Value Model

Notes: (1) Assumptions:

Charges for services -Pre-2024 are actual. 2024 and 2025 results are based on 2024 budget. Post-2025 based on customer growth (EDU) and average revenue per customer. Rate increases (Other rate increase line item) are added year after they occur.

Other (Rate Increase) - Assumed purchase by IOU in 2025 with shown rate increases.

OPERATING EXPENSES - increase at 2.5% annually after 2025 unless noted elsewhere. Assumed economies of scale are shown on lines below.
Wages & Benefits - Post-2025 assumed 15% savings due to economies of scale. Increase at 2.5% afterwards.

Professional Services - Post-2025 assumed 50% savings due to economies of scale. Increase at 2.5% afterwards.

No Additional O&M.

PURTA & Reg Assessment - 2025 assumed due to IOU purchase in 2025.

(2) Depreciation - Pre-2024 based on actual depreciation. Post-2023 based on depreciation rate plus same rate on half of CAPX.

(3) Line 6.

(4) Line 19 + line 17.

(5) Line 19.

(6) Capital Expenditures - Pre-2026 based on financials/budget. Post-2025 years are estimates based on 1.34% of prior year-end GROSS Property, plant and equipment.

(7) Changes in Working Capital - based on water industry 1.01% of revenues.

(8) Discount rate is the current lower end of the IOU discount rate. Capitalization rate (K) at 3/31/2024 adjusted for stated growth (g) where capitalization rate = K - g.

(9) Discount rate is the current upper end of the IOU discount rate. Capitalization rate (K) at 3/31/2024 adjusted for stated growth (g) where capitalization rate = K - g.

(10) Final year shown, line 29.

(11) Final year shown, line 31.

(12) Final year shown, line 33.

(13) Developed on Market Multiples EXHIBIT 18.

Terms:

CAPX - Capital Expenditures
CIP - Capital improvement plan
Dep - Depreciation expense
GROSS PPE - GROSS Property, plant and equipment
IOU - Investor owned utility
MUNI - Large regional municipally owned utility
NET PPE - NET Property, plant and equipment

Greenville Municipal Water Authority
Summary of Income Approach Results and Conclusion

Methods	Results
Exhibit 15, page 5 (MUNI)	
DCF With Capitalization of Terminal Value Model @ 4.26%	$29,564,893
DCF With EBIT & EBITDA Terminal Value Model - Discount Rate of 4.26%	28,277,413
Indicated Value (Median)	$28,921,153
Exhibit 16, page 5 (IOU)	
DCF With Capitalization of Terminal Value Model @ 8.25%	$24,201,139
DCF With Capitalization of Terminal Value Model @ 11.00%	17,106,244
DCF With EBIT & EBITDA Terminal Value Model - Discount Rate of 8.25%	30,969,180
DCF With EBIT & EBITDA Terminal Value Model - Discount Rate of 11.00%	22,273,560
Indicated Value (Median)	$23,237,350
Conclusion	
MUNI DCF	$28,921,153
IOU DCF	23,237,350
Conclusion (Median)	$26,079,251

Market Multiples Method
Greenville Municipal Water Authority
2024 Operations
Market Multiple Method

	A	B	C	D (Col B × Col C)	E (Col A × Col D)
	Subject Company Statistic (1)	Comparison Group's Valuation Multiples 3/31/2024	GMWA's Growth & Risk Adjustment	GMWA's Risk Adjusted Valuation Multiples 3/31/2024	GMWA's Market Multiples Valuation
Risk Adjusted Multiple					
1. Greenville Municipal Water Authority					
2. Investor Provided Capital	$20,823,518	1.53	85.00%	1.30	$27,070,573
3. Gross PP&E	$27,382,498	1.09	95.00%	1.04	28,477,798
4. Net PP&E	$20,368,964	1.37	95.00%	1.30	26,479,653
5. Revenues	$2,221,171	7.05	85.00%	5.99	13,304,814
6. EBITDA	$879,919	16.30	85.00%	13.86	12,195,672
7. EBIT	$491,044	24.29	85.00%	20.65	10,140,051
8. Customers	2,951	$9,137	96.00%	$8,772	25,886,172
9. Population	7,256	$2,628	96.00%	$2,523	18,306,888
10.					
11. Average					$20,232,703

Conclusion of Market Multiple Method Valuation

		Low	High		Conclusion
12.	Capital Items	$26,479,653	$28,477,798		$27,478,726
13.	(Items 2-4)				
14.	Income Statement Items	10,140,051	13,304,814		-
15.	(Items 5 -7)				
16.	Demographics Items	18,306,888	25,886,172		22,096,530
17.	(Items 8-9)				
				Conclusion *	$24,787,628

* - Conclusion based on weighting of 50% Capital Items and 50% Demographics Items

Market Multiples Method
Greenville Municipal Water Authority
Development of Market Multiples Method for the Market Multiples Method

	Latest Quarter End			Latest 12 Months			2023		3/31/2024
	Gross PP&E	Net PP&E	Invest. Total Capital	12 Mos. Rev.	12 Mos. EBITDA	12 Mos. EBIT	Customers	Population	Enterprise Value
	($ Mill)	($ Mill)	($ Mill)	($ Mill)	($ Mill)	($ Mill)			($ Mill)
American States Water Co	$2,532.952	$1,908.480	$1,693.992	$595.699	$241.422	$198.168	288,870	1,000,000	$3,575.878
American Water Works Company Inc	$32,275.000	$25,524.000	$22,252.000	$4,234.000	$2,240.000	$1,536.000	3,486,000	14,000,000	$35,864.048
Artesian Resources Corp	$904.705	$718.483	$411.460	$98.861	$42.129	$28.794	106,640	325,740	$558.671
California Water Service Group	$4,905.949	$3,765.909	$2,677.319	$794.632	$205.259	$82.135	553,600	2,000,000	$3,891.737
Essential Utilities, Inc.	$15,014.437	$12,134.488	$13,004.949	$2,053.824	$1,039.575	$695.880	1,857,461	5,500,000	$17,237.914
Middlesex Water Co	$1,252.689	$1,013.049	$837.381	$166.274	$71.267	$41.825	125,300	500,000	$1,347.638
SJW Corp.	$4,129.656	$3,168.753	$2,980.571	$670.363	$256.343	$148.205	405,350	1,544,000	$3,551.746
York Water Company (The)	$612.887	$495.273	$401.817	$71.031	$40.195	$28.449	77,893	209,000	$700.539
Average	$7,703.534	$6,091.054	$5,532.436	$1,085.586	$517.024	$344.932	862,639	3,134,843	$8,341.021
Max	$32,275.000	$25,524.000	$22,252.000	$4,234.000	$2,240.000	$1,536.000	3,486,000	14,000,000	$35,864.048
Min	$612.887	$495.273	$401.817	$71.031	$40.195	$28.449	77,893	209,000	$558.671
Median	$3,331.304	$2,538.617	$2,185.656	$633.031	$223.341	$115.170	347,110	1,272,000	$3,563.812

	Enterprise Value as a Multiple of								
	Invest. Capital	Gross PP&E	Net PP&E	Rev.	EBITDA	EBIT	Customers	Population	Population Per Customer
	(x)	(x)	(x)	(x)	(x)	(x)	($)	($)	
American States Water Co	2.11	1.41	1.87	6.00	14.81	18.04	$12,379	$3,576	3.46
American Water Works Company Inc	1.61	1.11	1.41	8.47	16.01	23.35	$10,288	$2,562	4.02
Artesian Resources Corp	1.36	0.62	0.78	5.65	13.26	19.40	$5,239	$1,715	3.05
California Water Service Group	1.45	0.79	1.03	4.90	18.96	47.38	$7,030	$1,946	3.61
Essential Utilities, Inc.	1.33	1.15	1.42	8.39	16.58	24.77	$9,280	$3,134	2.96
Middlesex Water Co	1.61	1.08	1.33	8.10	18.91	32.22	$10,755	$2,695	3.99
SJW Corp.	1.19	0.86	1.12	5.30	13.86	23.97	$8,762	$2,300	3.81
York Water Company (The)	1.74	1.14	1.41	9.86	17.43	24.62	$8,994	$3,352	2.68
Average	1.55	1.02	1.30	7.09	16.23	26.72	$9,091	$2,660	3.45
Max	2.11	1.41	1.87	9.86	18.96	47.38	$12,379	$3,576	4.02
Min	1.19	0.62	0.78	4.90	13.26	18.04	$5,239	$1,715	2.68
Median	1.53	1.09	1.37	7.05	16.30	24.29	$9,137	$2,628	3.54

Market Multiples Method
Greenville Municipal Water Authority
Quantification of the Effective Risk/Growth Adjustments

		Net PP&E	Gross PP&E	Invest. Capital
Comparable Group Multiple		1.37	1.09	1.53
Ratio to Net PPE			79.56%	
Not Contributed Multiple (NPPE = ICAP mult.)		1.53	1.22	
Base Risk Factor	x	85%	85%	
Subject Company Adjusted Multiple		1.30	1.04	
Subject Company Adjusted Multiple		1.30	1.04	
Comparable Group Multiple	÷	1.37	1.09	
Effective Risk/Growth Adjustment		95%	95%	

		Net PP&E	Gross PP&E
Plant Assets		100%	100%
Ratio of Known "Cost Free" Capital		22%	22%
Plant Assets Less Known "Cost Free" Capital		78%	78%
Comparable Group Multiple		1.37	1.09
Plant Assets Less Known "Cost Free" Capital	÷	78%	78%
Mulitple Without "Cost Free" Capital		1.76	1.40
Base Risk Factor	x	85%	85%
Subject Company Adjusted Multiple		1.49	1.19
Subject Company Adjusted Multiple		1.49	1.19
Comparable Group Multiple	÷	1.37	1.09
Effective Risk/Growth Adjustment		109%	109%

		Net PP&E	Customers
Comparable Group Multiple		1.37	9,137.00
Implied Capitalization Rate (1÷Multiple)		72.99%	0.0109%
Ratio of Net PP&E Mult. to Invest. Capital Mult.		111.68%	
Less 1	-	1.00	
Difference in Capital Source due to Contributions		11.68%	
Assumed Investor Financed (1-Difference in Capital Source)		88.32%	88.32%
Implied Capitalization Rate (1÷Multiple)	x		0.0109%
Not Contributed Cap. Rate			0.0097%
Not Contributed Multiple (1÷Cap. Rate)			10,345.34
Base Risk Factor	x		85%
Subject Company Adjusted Multiple			8,793.53
Subject Company Adjusted Multiple			8,793.53
Comparable Group Multiple	÷		9,137.00
Effective Risk/Growth Adjustment			96%

Selected Transactions Method
For Greenville Municipal Water Authority
Summary

		Median	Mid-Point	Value
	All Selected Transactions Companies (N = 22)			
1.	Asset Items			$41,435,977
2.	Ex-Ante (page 2)	$42,358,140	$48,152,346	
3.	Ex-Post (page 3)	$32,265,849	$42,967,573	
4.	Demographics Items			$22,609,734
5.	Ex-Ante (page 2)	$18,171,746	$27,047,722	
6.	Ex-Post (page 3)	$18,171,746	$27,047,722	
7.			Indicated Value *	$32,022,856
	Fully Integrated Selected Transactions Companies (N = 10)			
8.	Asset Items			$40,089,980
9.	Ex-Ante (page 2)	$42,703,220	$48,152,346	
10.	Ex-Post (page 3)	$35,786,410	$33,717,943	
11.	Demographics Items			$29,238,001
12.	Ex-Ante (page 2)	$27,145,239	$31,330,763	
13.	Ex-Post (page 3)	$27,145,239	$31,330,763	
14.			Indicated Value *	$34,663,990
	Mostly Collection/Distribution Selected Transactions Companies (N = 12)			
15.	Asset Items			$38,575,041
16.	Ex-Ante (page 2)	$32,769,386	$48,591,479	
17.	Ex-Post (page 3)	$29,971,726	$42,967,573	
18.	Demographics Items			$17,674,198
19.	Ex-Ante (page 2)	$12,715,285	$22,633,110	
20.	Ex-Post (page 3)	$12,715,285	$22,633,110	
21.			Indicated Value *	$28,124,619
	Integrated, Excluding Wholesale Selected Transactions Companies (N = 8)			
22.	Asset Items			$37,811,529
23.	Ex-Ante (page 2)	$36,997,618	$48,152,346	
24.	Ex-Post (page 3)	$32,378,209	$33,717,943	
25.	Demographics Items			$28,744,262
26.	Ex-Ante (page 2)	$27,145,239	$30,343,286	
27.	Ex-Post (page 3)	$27,145,239	$30,343,286	
28.			Indicated Value *	$33,277,896

Conclusion of Selected Transactions Method Valuation For Domestic Customers

		Indicated Values	Weight	
29.	All Selected Transactions Companies	$32,022,856	0%	$0
30.	Integrated, Excluding Wholesale Selected Transactions	33,277,896	100%	33,277,896
31.	Conclusion Before Market Adjustment			33,277,896
32.	Market Adjustment			95%
33.			Conclusion	$31,614,001

* - Indicated Value based on weighting of 50% Asset Items and 50% Demographics Items

Selected Transactions Method - Ex-Ante
For Greenville Municipal Water Authority
Based on 2016 - 2023 Acquisitions of Assets of Water or Sewer System, Without Discount for Customer Contributions

Name	Service	System	Selected Transactions' Metrics: Announced Purchase Price was:	Investor Provided Capital	Gross PP&E	Net PP&E	Revenues	EBITDA	EBIT	Customers	Population
Municipal Authority of the City of Mckeesport	WW	INT	$156,000,000	$83,903,219	$91,435,797	$73,813,794	$13,047,844	$6,180,616	$3,811,679	12,780	46,468
New Garden Township/Authority's WW System's Assets	WW	INT	$29,500,000	$23,001,140	$25,988,330	$17,967,319	$2,261,294	$907,386	$499,638	1,796	12,085
Limerick Township Wastewater System's Assets	WW	INT	$75,100,000	$43,501,755	$60,847,250	$36,113,701	$4,418,775	$2,487,775	$893,600	5,416	18,798
Steelton Borough (Water) Authority	W	INT	$22,500,000	NA	NA	NA	NA	NA	NA	2,472	5,932
Exeter Township Wastewater System Assets	WW	INT	$96,000,000	NA	NA	NA	$7,735,788	$4,660,967	$4,660,967	8,984	27,609
Kane Borough Authority Wastewater System	WW	INT	$17,560,000	$10,809,115	$20,265,926	$8,897,773	$1,433,978	$684,830	$181,672	2,019	4,645
Borough of Royersford Wastewater System Assets	WW	INT	$13,000,000	$4,702,972	$6,883,116	$4,545,699	$863,000	$280,365	$280,365	1,596	5,154
Muni Auth Borough of Shenandoah Water System Assets	W	INT	$12,000,000	$13,119,705	$21,134,020	$11,252,247	$1,990,000	$245,000	($84,731)	2,899	6,166
Butler Area Sewer Authority	WW	INT	$231,500,000	$74,049,964	$138,491,270	$58,390,335	$12,258,500	$6,064,530	$2,330,186	14,699	52,499
York City Sewer Authority Wastewater System Assets	WW	INT	$235,000,000	$100,493,098	$120,654,506	$78,592,332	$24,641,181	$9,759,797	$6,150,926	13,747	80,929
Sadsbury Township Wastewater Utility	WW	C/D	$9,250,000	NA	NA	NA	NA	NA	NA	998	3,850
East Bradford Township Wastewater System Assets	WW	C/D	$5,000,000	$1,298,627	NA	NA	$1,130,372	$49,804	$49,804	1,248	9,942
Township of Mahoning Water System Assets	W	C/D	$4,734,800	NA	NA	NA	$753,857	$151,916	$91,468	1,186	4,218
Township of Mahoning Sewer System Assets	WW	C/D	$4,765,200	NA	NA	NA	$1,193,055	($173,564)	($244,337)	1,451	4,218
Cheltenham Township Wastewater System Assets	WW	C/D	$50,250,000	NA	NA	NA	$9,290,500	$4,506,168	$4,506,168	10,219	37,841
East Norriton Township Wastewater System Assets	WW	C/D	$21,000,000	$4,055,138	NA	NA	$3,320,000	$612,827	$612,827	4,966	14,296
Valley Township Water System Assets	W	C/D	$7,325,000	NA	NA	NA	$698,550	$78,704	$78,704	1,669	7,493
Valley Township Wastewater System Assets	WW	C/D	$13,950,000	NA	NA	NA	$2,743,957	($408,562)	($408,562)	3,125	7,493
Upper Pottsgrove Township Wastewater System Assets	WW	C/D	$13,750,000	NA	$15,295,347	$11,548,897	$1,380,242	$858,878	$858,878	1,428	5,530
Lower Makefield Township Wastewater System Assets	WW	C/D	$53,000,000	$16,525,411	NA	$17,592,071	$10,012,924	$4,053,817	$3,520,813	11,151	33,197
Willistown Township Wastewater Systems Assets	WW	C/D	$17,500,000	$9,866,721	$8,673,707	$4,887,532	$2,148,508	$297,618	($8,933)	2,294	11,214
East Whiteland Township Wastewater System Assets	WW	C/D	$54,930,000	$42,513,245	$48,672,940	$34,143,673	$4,328,000	$1,942,553	$1,209,102	3,895	14,720

				Subject Company's Metrics							
Greenville Municipal Water Authority				$20,823,518	$27,382,498	$20,368,964	$2,221,171	$879,919	$491,044	2,951	7,256

			Subject Company's Selected Transactions Multiples Valuations								
Municipal Authority of the City of Mckeesport	WW	INT	$32,215,804	$38,716,856	$46,717,695	$43,048,300	$26,556,317	$22,209,325	$20,096,868	$36,021,596	$24,359,473
New Garden Township/Authority's WW System's Assets	WW	INT	$30,499,065	$26,707,102	$31,082,555	$33,443,189	$28,976,570	$28,607,010	$28,992,566	$48,471,325	$17,712,205
Limerick Township Wastewater System's Assets	WW	INT	$35,949,119	$35,949,037	$33,796,525	$42,358,140	$37,750,268	$26,562,648	$41,268,328	$40,919,516	$28,988,488
Steelton Borough (Water) Authority	W	INT	$27,190,873	NA	NA	NA	NA	NA	NA	$26,859,830	$27,521,915
Exeter Township Wastewater System Assets	WW	INT	$22,512,995	NA	NA	NA	$27,564,408	$18,123,319	$10,113,822	$31,533,393	$25,230,034
Kane Borough Authority Wastewater System	WW	INT	$31,009,477	$33,828,947	$23,726,360	$40,198,711	$27,199,694	$22,562,346	$47,463,156	$25,665,953	$27,430,648
Borough of Royersford Wastewater System Assets	WW	INT	$38,362,047	$57,560,567	$51,716,762	$58,252,104	$33,459,123	$40,800,180	$22,768,774	$24,036,967	$18,301,901
Muni Auth Borough of Shenandoah Water System Assets	W	INT	$8,700,142	$19,046,329	$15,547,916	$21,722,556	$13,393,996	$43,098,056	($69,544,276)	$12,215,247	$14,121,310
Butler Area Sewer Authority	WW	INT	$49,302,642	$65,099,889	$45,772,187	$80,756,775	$41,946,493	$33,588,945	$48,784,341	$46,476,393	$31,996,114
York City Sewer Authority Wastewater System Assets	WW	INT	$36,947,578	$48,695,152	$53,333,168	$60,905,516	$21,183,043	$21,187,007	$18,760,632	$50,446,279	$21,069,827
Sadsbury Township Wastewater Utility	WW	C/D	$22,392,350	NA	NA	NA	NA	NA	NA	$27,351,453	$17,433,247
East Bradford Township Wastewater System Assets	WW	C/D	$40,517,988	$80,175,131	NA	NA	$9,824,956	$88,338,151	$49,297,612	$11,822,917	$3,649,165
Township of Mahoning Water System Assets	W	C/D	$17,343,993	NA	NA	NA	$13,950,657	$27,424,583	$25,418,595	$11,781,109	$8,145,023
Township of Mahoning Sewer System Assets	WW	C/D	($1,394,922)	NA	NA	NA	$8,871,615	($24,158,232)	($9,576,632)	$9,691,320	$8,197,319
Cheltenham Township Wastewater System Assets	WW	C/D	$10,289,658	NA	NA	NA	$12,013,761	$9,812,309	$5,475,815	$14,510,984	$9,635,422
East Norriton Township Wastewater System Assets	WW	C/D	$32,000,602	$107,836,991	NA	NA	$14,049,576	$30,152,542	$16,826,799	$12,479,058	$10,658,646
Valley Township Water System Assets	W	C/D	$34,186,366	NA	NA	NA	$23,291,214	$81,894,238	$45,701,549	$12,951,513	$7,093,314
Valley Township Wastewater System Assets	WW	C/D	($1,767,219)	NA	NA	NA	$11,292,209	($30,044,070)	($16,766,265)	$13,173,264	$13,508,768
Upper Pottsgrove Township Wastewater System Assets	WW	C/D	$19,914,114	NA	$24,615,940	$24,251,083	$22,127,352	$14,086,845	$7,861,245	$28,414,741	$18,041,591
Lower Makefield Township Wastewater System Assets	WW	C/D	$26,344,879	$66,784,811	NA	$61,366,004	$11,757,012	$11,504,143	$7,391,848	$14,025,917	$11,584,420
Willistown Township Wastewater Systems Assets	WW	C/D	($86,655,456)	$36,933,401	$55,246,703	$72,931,874	$18,091,854	$51,739,451	($962,022,264)	$22,511,988	$11,323,346
East Whiteland Township Wastewater System Assets	WW	C/D	$29,331,491	$26,905,400	$30,902,605	$32,769,386	$28,190,601	$24,881,660	$22,308,311	$41,617,055	$27,076,908

Definitions: Where "INT" is "Fully Integrated Assets" and "C/D" is "Mostly Collection/Distribution Assets".
Where "WW" is wastewater and "W" is water.

Selected Transactions Method - Ex-Post
For Greenville Municipal Water Authority
Based on 2016 - 2023 Acquisitions of Assets of Water or Sewer System, Without Discount for Customer Contributions

			Ex-Post Selected Transactions' Metrics								
Name	Service	System	Announced Purchase Price was:	Investor Provided Capital	Ex-POST - OCN - Gross PP&E	Ex-Post - OCNLD - Net PP&E	Revenues	EBITDA	EBIT	Customers	Population
Municipal Authority of the City of Mckeesport	WW	INT	$156,000,000	$83,903,219	$108,231,570	$80,085,602	$13,047,844	$6,180,616	$3,811,679	12,780	46,468
New Garden Township/Authority's WW System's Assets	WW	INT	$29,500,000	$23,001,140	$27,146,852	$18,567,728	$2,261,294	$907,386	$499,638	1,796	12,085
Limerick Township Wastewater System's Assets	WW	INT	$75,100,000	$43,501,755	$63,480,402	$46,153,867	$4,418,775	$2,487,775	$893,600	5,416	18,798
Steelton Borough (Water) Authority	W	INT	$22,500,000	NA	$19,739,906	$14,433,435	NA	NA	NA	2,472	5,932
Exeter Township Wastewater System Assets	WW	INT	$96,000,000	NA	$68,404,345	$42,678,351	$7,735,788	$4,660,967	$4,660,967	8,984	27,609
Kane Borough Authority Wastewater System	WW	INT	$17,560,000	$10,809,115	$21,023,527	$13,503,901	$1,433,978	$684,830	$181,672	2,019	4,645
Borough of Royersford Wastewater System Assets	WW	INT	$13,000,000	$4,702,972	$7,666,493	$5,453,064	$863,000	$280,365	$280,365	1,596	5,154
Muni Auth Borough of Shenandoah Water System Assets	W	INT	$12,000,000	$13,119,705	$19,380,636	$10,784,743	$1,990,000	$245,000	($84,731)	2,899	6,166
Butler Area Sewer Authority	WW	INT	$231,500,000	$74,049,964	$143,771,330	$93,409,083	$12,258,500	$6,064,530	$2,330,186	14,699	52,499
York City Sewer Authority Wastewater System Assets	WW	INT	$235,000,000	$100,493,098	$155,875,776	$115,727,779	$24,641,181	$9,759,797	$6,150,926	13,747	80,929
Sadsbury Township Wastewater Utility	WW	C/D	$9,250,000	NA	$7,480,601	$6,128,876	NA	NA	NA	998	3,850
East Bradford Township Wastewater System Assets	WW	C/D	$5,000,000	$1,298,627	$8,294,931	$5,473,948	$1,130,372	$49,804	$49,804	1,248	9,942
Township of Mahoning Water System Assets	W	C/D	$4,734,800	NA	$5,294,272	$3,507,138	$753,857	$151,916	$91,468	1,186	4,218
Township of Mahoning Sewer System Assets	WW	C/D	$4,765,200	NA	$4,931,649	$3,234,859	$1,193,055	($173,564)	($244,337)	1,451	4,218
Cheltenham Township Wastewater System Assets	WW	C/D	$50,250,000	NA	$19,818,216	$15,408,458	$9,290,500	$4,506,168	$4,506,168	10,219	37,841
East Norriton Township Wastewater System Assets	WW	C/D	$21,000,000	$4,055,138	$16,916,212	$9,251,450	$3,320,000	$612,827	$612,827	4,966	14,296
Valley Township Water System Assets	W	C/D	$7,325,000	NA	$6,843,616	$4,983,659	$698,550	$78,704	$78,704	1,669	7,493
Valley Township Wastewater System Assets	WW	C/D	$13,950,000	NA	$13,389,108	$8,832,690	$2,743,957	($408,562)	($408,562)	3,125	7,493
Upper Pottsgrove Township Wastewater System Assets	WW	C/D	$13,750,000	NA	$15,295,347	$11,548,897	$1,380,242	$858,878	$858,878	1,428	5,530
Lower Makefield Township Wastewater System Assets	WW	C/D	$53,000,000	$16,525,411	$32,003,924	$19,808,274	$10,012,924	$4,053,817	$3,520,813	11,151	33,197
Willistown Township Wastewater Systems Assets	WW	C/D	$17,500,000	$9,866,721	$19,641,520	$13,367,274	$2,148,508	$297,618	($8,933)	2,294	11,214
East Whiteland Township Wastewater System Assets	WW	C/D	$54,930,000	$42,513,245	$43,447,309	$32,955,596	$4,328,000	$1,942,553	$1,209,102	3,895	14,720
				Subject Company's Metrics							
Greenville Municipal Water Authority				$20,823,518	$27,382,498	$20,368,964	$2,221,171	$879,919	$491,044	2,951	7,256
				Ex-Post Subject Company's Selected Transactions Multiples Valuations							
Municipal Authority of the City of Mckeesport	WW	INT	$30,888,166	$38,716,856	$39,467,871	$39,677,024	$26,556,317	$22,209,325	$20,096,868	$36,021,596	$24,359,473
New Garden Township/Authority's WW System's Assets	WW	INT	$30,198,077	$26,707,102	$29,756,072	$32,361,764	$28,976,570	$28,607,010	$28,992,566	$48,471,325	$17,712,205
Limerick Township Wastewater System's Assets	WW	INT	$34,622,078	$35,949,037	$32,394,653	$33,143,684	$37,750,268	$26,562,648	$41,268,328	$40,919,516	$28,988,488
Steelton Borough (Water) Authority	W	INT	$29,336,432	NA	$31,211,203	$31,752,781	NA	NA	NA	$26,859,830	$27,521,915
Exeter Township Wastewater System Assets	WW	INT	$28,115,962	NA	$38,429,135	$45,817,622	$27,564,408	$18,123,319	$10,113,822	$31,533,393	$25,230,034
Kane Borough Authority Wastewater System	WW	INT	$29,188,649	$33,828,947	$22,871,360	$26,487,088	$27,199,694	$22,562,346	$47,463,156	$25,665,953	$27,430,648
Borough of Royersford Wastewater System Assets	WW	INT	$36,489,872	$57,560,567	$46,432,244	$48,559,220	$33,459,123	$40,800,180	$22,768,774	$24,036,967	$18,301,901
Muni Auth Borough of Shenandoah Water System Assets	W	INT	$8,993,677	$19,046,329	$16,954,551	$22,664,200	$13,393,996	$43,098,056	($69,544,276)	$12,215,247	$14,121,310
Butler Area Sewer Authority	WW	INT	$45,308,087	$65,099,889	$44,091,185	$50,481,335	$41,946,493	$33,588,945	$48,784,341	$46,476,393	$31,996,114
York City Sewer Authority Wastewater System Assets	WW	INT	$32,998,233	$48,695,152	$41,282,149	$41,361,777	$21,183,043	$21,187,007	$18,760,632	$50,446,279	$21,069,827
Sadsbury Township Wastewater Utility	WW	C/D	$27,346,466	NA	$33,859,326	$30,741,839	NA	NA	NA	$27,351,453	$17,433,247
East Bradford Township Wastewater System Assets	WW	C/D	$34,777,357	$80,175,131	$16,505,561	$18,605,368	$9,824,956	$88,338,151	$49,297,612	$11,822,917	$3,649,165
Township of Mahoning Water System Assets	W	C/D	$19,815,410	NA	$24,488,854	$27,499,052	$13,950,657	$27,424,583	$25,418,595	$11,781,109	$8,145,023
Township of Mahoning Sewer System Assets	WW	C/D	$7,069,824	NA	$26,458,306	$30,005,075	$8,871,615	($24,158,232)	($9,576,632)	$9,691,320	$8,197,319
Cheltenham Township Wastewater System Assets	WW	C/D	$26,757,865	NA	$69,429,585	$66,427,181	$12,013,761	$9,812,309	$5,475,815	$14,510,984	$9,635,422
East Norriton Township Wastewater System Assets	WW	C/D	$34,029,049	$107,836,991	$33,992,980	$46,235,806	$14,049,576	$30,152,542	$16,826,799	$12,479,058	$10,658,646
Valley Township Water System Assets	W	C/D	$32,882,686	NA	$29,308,599	$29,938,377	$23,291,214	$81,894,238	$45,701,549	$12,951,513	$7,093,314
Valley Township Wastewater System Assets	WW	C/D	$7,409,062	NA	$28,529,596	$32,169,933	$11,292,209	($30,044,070)	($16,766,265)	$13,173,264	$13,508,768
Upper Pottsgrove Township Wastewater System Assets	WW	C/D	$19,914,114	NA	$24,615,940	$24,251,083	$22,127,352	$14,086,845	$7,861,245	$28,414,741	$18,041,591
Lower Makefield Township Wastewater System Assets	WW	C/D	$27,861,883	$66,784,811	$45,346,702	$54,500,210	$11,757,012	$11,504,143	$7,391,848	$14,025,917	$11,584,420
Willistown Township Wastewater Systems Assets	WW	C/D	($96,294,858)	$36,933,401	$24,396,977	$26,666,385	$18,091,854	$51,739,451	($962,022,264)	$22,511,988	$11,323,346
East Whiteland Township Wastewater System Assets	WW	C/D	$29,943,763	$26,905,400	$34,619,419	$33,950,750	$28,190,601	$24,881,660	$22,308,311	$41,617,055	$27,076,908

Definitions: Where "INT" is "Fully Integrated Assets" and "C/D" is "Mostly Collection/Distribution Assets".
Where "WW" is wastewater and "W" is water.

Summar of Selected Transactions Method - Wall Street Transactions
For Greenville Municipal Water Authority
Based on Recent Walls Sreet Transactions Without Discount for Cost Free Capital

	Greenville Municipal Water Authority's Indicated Value
Based on Recent SJW Group's Purchase of Connecticut Water Service Inc.	$36,982,048
Based on Recent Aquarion Water Company's Purchase of New England Service Company, Inc.	$33,170,537
Based on Recent Aquarion Water Company's Purchase of Torrington Water Company, Inc.	$49,760,788

Summar of Selected Transactions Method - Wall Street Transactions

For Greenville Municipal Water Authority

Based on Recent SJW Group's Bid and Purchase of Connecticut Water Service Inc., With and Without Discount for Cost Free Capital

Connecticut Water Service Inc. (*Financial information reported in 000 of $*)			Greenville Municipal Water Authority			
Purchase Price was: $1,106,267						
	Subject Company Statistics	Transaction Multiple	Greenville Municipal Water Authority's Company Statistics	Selected Transactions Multiples Valuation		Indicated Value *
Investor Provided Capital	$573,223	1.93	$20,823,518	$40,187,452		
Gross PP&E	$939,050	1.18	$27,382,498	$32,258,512		
Net PP&E	$697,723	1.59	$20,368,964	$32,295,787	$36,222,982	
Revenues	$107,054	10.33	$2,221,171	$22,952,980		
EBITDA	$48,920	22.61	$879,919	$19,898,304		
EBIT	$32,236	34.32	$491,044	$16,851,514		$28,587,774
Customers	135,645	$8,156	2,951	$24,067,191		
Population	450,000	$2,458	7,256	$17,837,942	$20,952,566	
Average				$25,793,710		
	Subject Company Statistics	Transaction Multiple				
Investor Provided Capital	$573,223	1.93	$20,823,518	$40,187,452		
Gross PP&E (Less "Cost Free" Capital)	$646,723	1.71	$27,382,498	$46,839,796		
Net PP&E (Less "Cost Free" Capital)	$480,521	2.30	$20,368,964	$46,893,921	$43,540,686	
Revenues	$107,054	10.33	$2,221,171	$22,952,980		
EBITDA	$48,920	22.61	$879,919	$19,898,304		
EBIT	$32,236	34.32	$491,044	$16,851,514		$36,982,048
Customers (Adj. "Cost Free" Capital)	93,419	$11,842	2,951	$34,945,887		
Population (Adj. "Cost Free" Capital)	309,914	$3,570	7,256	$25,900,933	$30,423,410	
Average				$31,808,848		

* - Indicated Value based on weighting of 50% Capital Items and 50% Demographics Items

Summar of Selected Transactions Method - Wall Street Transactions

For Greenville Municipal Water Authority

Based on Recent Aquarion Water Company's Purchase of New England Service Company, Inc., With and Without Discount for Cost Free Capital

New England Service Company, Inc.	Greenville Municipal Water Authority

Purchase Price was: $49,290,414

	Subject Company Statistics	Transaction Multiple	Greenville Municipal Water Authority's Company Statistics	Selected Transactions Multiples Valuation		Indicated Value *
Investor Provided Capital	$26,734,587	1.84	$20,823,518	$38,392,208		
Gross PP&E	$54,517,263	0.90	$27,382,498	$24,757,198		
Net PP&E	$36,566,790	1.35	$20,368,964	$27,456,461	$31,574,703	
Revenues	$7,994,088	6.17	$2,221,171	$13,695,426		
EBITDA	$2,729,953	18.06	$879,919	$15,887,290		
EBIT	$1,559,860	31.60	$491,044	$15,516,613		$22,991,215
Customers	9,515	$5,180	2,951	$15,287,022		
Population	26,437	$1,864	7,256	$13,528,435	$14,407,728	
Average				$20,565,081		

	Subject Company Statistics	Transaction Multiple				
Investor Provided Capital	$26,734,587	1.84	$20,823,518	$38,392,208		
Gross PP&E (Less "Cost Free" Capital)	$32,535,719	1.51	$27,382,498	$41,483,474		
Net PP&E (Less "Cost Free" Capital)	$21,822,937	2.26	$20,368,964	$46,006,395	$42,199,301	
Revenues	$7,994,088	6.17	$2,221,171	$13,695,426		
EBITDA	$2,729,953	18.06	$879,919	$15,887,290		
EBIT	$1,559,860	31.60	$491,044	$15,516,613		$33,170,537
Customers (Adj. "Cost Free" Capital)	5,679	$8,680	2,951	$25,615,127		
Population (Adj. "Cost Free" Capital)	15,778	$3,124	7,256	$22,668,418	$24,141,772	
Average				$27,408,119		

* - Indicated Value based on weighting of 50% Capital Items and 50% Demographics Items

Summar of Selected Transactions Method - Wall Street Transactions

For Greenville Municipal Water Authority

Based on Recent Aquarion Water Company's Bid For Torrington Water Company, With and Without Discount for Cost Free Capital

Torrington Water Company			Greenville Municipal Water Authority			
Purchase Price was: $91,880,072			Greenville Municipal Water Authority's Company Statistics	Selected Transactions Multiples Valuation		Indicated Value *
	Subject Company Statistics	Transaction Multiple				
Investor Provided Capital	$36,395,842	2.52	$20,823,518	$52,568,267		
Gross PP&E	$75,202,417	1.22	$27,382,498	$33,455,120		
Net PP&E	$48,743,673	1.88	$20,368,964	$38,394,765	$43,011,693	
Revenues	$7,835,144	11.73	$2,221,171	$26,046,918		
EBITDA	$3,264,018	28.15	$879,919	$24,769,161		
EBIT	$2,046,050	44.91	$491,044	$22,050,842		$33,755,370
Customers	10,125	$9,075	2,951	$26,779,071		
Population	30,005	$3,062	7,256	$22,219,024	$24,499,047	
Average				$30,785,396		
	Subject Company Statistics	Transaction Multiple				
Investor Provided Capital	$36,395,842	2.52	$20,823,518	$52,568,267		
Gross PP&E (Less "Cost Free" Capital)	$44,868,813	2.05	$27,382,498	$56,072,486		
Net PP&E (Less "Cost Free" Capital)	$29,082,453	3.16	$20,368,964	$64,351,583	$58,459,925	
Revenues	$7,835,144	11.73	$2,221,171	$26,046,918		
EBITDA	$3,264,018	28.15	$879,919	$24,769,161		
EBIT	$2,046,050	44.91	$491,044	$22,050,842		$49,760,788
Customers (Adj. "Cost Free" Capital)	6,041	$15,209	2,951	$44,883,087		
Population (Adj. "Cost Free" Capital)	17,902	$5,132	7,256	$37,240,216	$41,061,651	
Average				$40,997,820		

* - Indicated Value based on weighting of 50% Capital Items and 50% Demographics Items

Market Approach
Greenville Municipal Water Authority
Market Approach Conclusion

	Method	Results	Wtd.
1.	Market Multiples Method	$24,787,628	50%
2.	Selected Transactions Method	31,614,001	50%
3.	Conclusion (Wtd.)	$28,200,815	
4.	Check - Wall Street Tansactions		
5.	Min	$33,170,537	
6.	Max	49,760,788	

*** - Indicated Value based on weighting of 50% Asset Items and 50% Demographics Items**

Greenville Municipal Water Authority
Summary of Approach Results and
Fair Market Value Conclusion at Appraisal Date

Valuation Approach	Indicated Value	Conclusion	Consideration
Cost Approach	$46,212,970		1/3
Income Approach	26,079,251		1/3
Market Approach	28,200,815		1/3
		Conclusion $33,497,679	

WORKPAPERS

Daily Bond Yields and Key Indicators

Updated by 11 am ET with data from the previous business day. Data as of 1-Apr-24

Moody's Daily Long-term Corporate Bond Yield Averages

	Utilities	Industrial	Corporate
Aaa	NA	5.09	5.09
Aa	5.51	5.15	5.33
A	5.62	5.37	5.50
Baa	5.84	5.80	5.82
Avg	5.66	5.35	5.51

Index Name: S&P Municipal Bond Revenue Index

As of: 28-Jun-24

Effective date	Yield To Maturity
3/22/2024	4.20%
3/25/2024	4.21%
3/26/2024	4.23%
3/27/2024	4.24%
3/28/2024	4.24%
4/1/2024	4.23%
4/2/2024	4.29%
4/3/2024	4.32%
4/4/2024	4.30%

FED H.15

DATE	DAAA	DBAA	DGS10	DGS20	DGS30
2024-03-27	5.00	5.74	4.20	4.45	4.36
2024-03-28	4.97	5.70	4.20	4.45	4.34
2024-03-29	4.97	5.70	4.20	4.45	4.34
2024-03-30	4.97	5.70	4.20	4.45	4.34
2024-03-31	4.97	5.70	4.20	4.45	4.34
2024-04-01	5.09	5.82	4.33	4.58	4.47
2024-04-02	5.13	5.87	4.36	4.61	4.51
2024-04-03	5.12	5.85	4.36	4.61	4.51
2024-04-04	5.08	5.82	4.31	4.57	4.47

FED H.15

		AAA Corp	BAA CORP	10-yr T-bond	20-yr T-bond	30-yr T-bond
Spot	3/31/24	4.97	5.70	4.20	4.45	4.34

FED H.15		AAA Corp	BAA CORP		A Rated Utility		
	3/31/24	4.97	5.70	Spread	-0.12	-0.12	
Moody's Spot ===>		5.09	5.82	Moody's Spot ===>	5.62	5.62	
		-0.12	-0.12	Implied	5.50	5.50	5.50

Moody's Daily Long-term Corporate Bond Yield Averages

	4/1/2024	Utilities	Industrial	Corporate
Spot	Aaa	NA	5.09	5.09
	Aa	5.51	5.15	5.33
	A	5.62	5.37	5.50
	Baa	5.84	5.80	5.82
	Avg	5.66	5.35	5.51

S&P Municipal Bond Revenue Index

3/28/24 4.24%

Utilities
Aa
A **5.50**
Baa

		Decade Spread	Annual Spread	
10-Year	4.20			
20-Year	4.45	0.250	0.025	
30-Year	4.34	-0.110		
REVENUE BOND INDEX				4.24
10-20 Yr				0.13
20-30 Yr				-0.11
				4.26

30-Yr Rev Bond Est. **4.26**

Lt Debt	5.50	5.5
Prf Stk	7.06	128%
Pref Stock Est.	128%	**7.06**

	3/31/24
A-Rated Rev Bonds	**4.26**
A-Rated PU Bonds	**5.50**
A-Rated PU Pref Stk	**7.06**
30-yr T-bond	**4.34**

	SBBI	SBBI
Equity Risk Premium	7.46	7.46
Beta (Value Line Med.)	0.78	0.78
Risk Adjusted Equity Premium	5.78	5.78
Yield (RF)	4.34	4.34
Size Premium	3.95	0.00
	14.07	10.12

High 14.07
Low 10.12

0.78

12.33 Total Return SBBI 1926-2021
4.87 Income Return SBBI 1926-2021

4.34 30-yr T-bond

	Recent Market Value (Mill $)	Market Quartile Name	Market Quartile	Quartile Size Premium	Value Line Beta
American States Water Co	2,672.07	Mid-Cap	2	2.48	0.70
American Water Works Co Inc	23,801.05	Large-Cap	1	0	0.95
Artesian Resources Corp	380.11	Mico-Cap	4	6.21	0.70
California Water Service Gp	2,680.74	Mid-Cap	2	2.48	0.75
Essential Utilities, Inc.	10,133.76	Mid-Cap	2	2.48	1.00
Middlesex Water Co	935.64	Low-Cap	3	3.95	0.75
SJW Corp	1,814.30	Low-Cap	3	3.95	0.85
York Water Co	519.90	Low-Cap	3	3.95	0.80
Average	5,367.200	Mid-Cap	2	2.48	0.81
Median	2,243.182	Low-Cap	3	3.95	0.78

7/1/2024

		12/31/23					3/31/24		Book Ratios					Market Ratios			
Company Name	Ticker Symbol	LT Debt-Total Qtly	Preferred S	Minority In	Common Equity-Total-Qtly	Invested Capital-Total Qtly	Market Value-Mnthly		LTD	Pref	Equity			LTD	Pref	Equity	
AMERICAN ST.	**AWR**	917.883	0.000	0.000	776.109	1,693.992	2,672.068	AMERICA	0.542	0.000	0.458	1.000		0.256	0.000	0.744	1.000
AMERICAN WA	**AWK**	12,276.000	0.000	0.000	9,797.000	22,073.000	23,801.048	AMERICA	0.556	0.000	0.444	1.000		0.340	0.000	0.660	1.000
ARTESIAN RES	**ARTN.A**	181.054	0.000	0.000	230.397	411.451	380.113	ARTESIAN	0.440	0.000	0.560	1.000		0.323	0.000	0.677	1.000
CALIFORNIA W	**CWT**	1,067.007	0.000	3.579	1,426.733	2,497.319	2,680.742	CALIFORI	0.427	0.000	0.573	1.000		0.285	0.000	0.715	1.000
ESSENTIAL UT	**WTRG**	6,935.285	0.000	0.000	5,896.183	12,831.468	10,133.760	ESSENTIA	0.540	0.000	0.460	1.000		0.406	0.000	0.594	1.000
MIDDLESEX W	**MSEX**	369.556	2.084	0.000	422.991	794.631	935.638	MIDDLES	0.465	0.003	0.532	1.000		0.283	0.002	0.715	1.000
SJW GROUP	**SJW**	1,575.674	0.000	0.000	1,233.397	2,809.071	1,814.295	SJW GRO	0.561	0.000	0.439	1.000		0.465	0.000	0.535	1.000
THE YORK WA	**YORW**	180.639	0.000	0.000	221.178	401.817	519.901	THE YORI	0.450	0.000	0.550	1.000		0.258	0.000	0.742	1.000
									0.498	0.000	0.502		Avg	0.327	0.000	0.673	
									0.503	0.001	0.496		Med	0.304	0.000	0.696	

Assumptions:	3/31/2024
Debt Cost	5.5
Pref. Stock Cost	7.06
Equity Cost	14.07
Equity Cost	10.12

Ratio	Cost	Wt	Shield	Overall	
30.40%	5.500	1.67	0.72	1.20384	
0.00%	7.060	0.00	1	0	
69.60%	14.070	9.79	1	9.79272	
		11.46		**11.00**	**<<<<ANSWER**
30.40%	5.500	1.67	0.72	1.20384	
0.00%	7.060	0.00	1	0	
69.60%	10.122	7.04	1	7.044564	
		8.72		**8.25**	**<<<<ANSWER**

	ROE
Public Meeting held January February 18, 2024	9.65

DSIC Weighted Cost of Capital

Assumptions:	3/31/2024
Debt Cost	5.5
Pref. Stock Cost	7.06
DSIC Equity Cost	9.65

	Ratio	Cost	Wt	Shield	Overall	
Debt	50.30%	5.500	2.77	0.72	1.99188	
Pref	0.10%	7.060	0.01	1	0.00706	
Equity	49.60%	9.650	4.79	1	4.7864	
			7.56		**6.79**	**<<<<ANSWER**

PENNSYLVANIA PUBLIC UTILITY COMMISSION

Public Meeting held January 18, 2024

Docket Number: M-2023-3044811

BUREAU OF TECHNICAL UTILITY SERVICES

REPORT ON THE QUARTERLY EARNINGS

OF JURISDICTIONAL UTILITIES

FOR THE YEAR ENDED

September 30, 2023

Stephen M. DeFrank, Chairman
Kimberly Barrow, Vice Chair, Abstaining
Ralph V. Yanora
Kathryn L. Zerfuss
John F. Coleman, Jr.

The market indicated common equity cost rate range consists of data used from the barometer groups and is based on a series of calculations to average the DCF methods.

Market Based Returns on Common Equity [1]	
December 8, 2023	
Water Company Barometer Group	
	Cost Rates %
(1) Current DCF	8.19
(2) 52-Week Average DCF	7.92
(3) Average DCF	8.06
(4) Market Indicated Common Equity Cost Rate Range @ 1 standard deviation around the mean.[2]	6.83-9.28
(5) CAPM Check of DCF Reasonableness	10.62
(6) Recent Commission Approved ROEs[3]:	10.00*
*Aqua Pennsylvania, Inc., R-2021-3027385, includes a 0.25% management effectiveness adjustment	
(7) Distribution System Improvement Charge (DSIC) Return[4]:	**9.65%**

[1] As calculated by the Bureau of Technical Utility Services
[2] Standard Deviation of 12 DCF observations
[3] ROEs from base rate cases within last two years, fully litigated or stipulated for DSIC purposes
[4] Commission authorized Return on Equity (ROE) for DSIC purposes

Any questions concerning DSIC should be directed to Marc Hoffer
of the Bureau of Technical Utility Services at (717) 787-1869.

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Aqua America's Pennsylvania Subsidiary Enters Agreement to Purchase Cheltenham Township Wastewater System

July 02, 2018 07:00 AM Eastern Daylight Time

BRYN MAWR, Pa.--(BUSINESS WIRE)--Aqua America announced today that its Pennsylvania subsidiary has signed an asset purchase agreement with Cheltenham Township to purchase its wastewater system, which serves approximately 10,500 connections in Montgomery County, for $50.25 million. The agreement must be approved by the Pennsylvania Public Utility Commission.

The transaction will be Aqua Pennsylvania's fourth acquisition application referred to the Pennsylvania PUC since Act 12, commonly referred to as fair market value legislation, was enacted last year. Aqua Pennsylvania has asset purchase agreements with the 2,100-customer New Garden Township wastewater system in Chester County and the 5,400-customer Limerick Township wastewater system in Montgomery County. The company also has an agreement, signed in December 2017, with East Bradford Township in Chester County to purchase its 1,200-customer wastewater collection system. Aqua already provides water service to East Bradford, as it does with Cheltenham.

These four systems, including Cheltenham, total more than 19,000 wastewater connections and would nearly double Aqua Pennsylvania's current 22,000-customer wastewater operation.

The new law encourages a consolidation of the fragmented industry for the benefit of customers, the environment, and local governments. This transaction will benefit customers by leveraging compliance expertise, purchasing power gained through economies of scale and operational efficiencies to ultimately benefit service to our customers at affordable rates.

"We are pleased with the momentum we are gaining to reach agreements with municipal systems," said Aqua America Chairman and CEO Christopher Franklin. "Act 12 is having its intended impact, allowing municipalities to be compensated for the fair value of their water and wastewater assets and enabling utility professionals to bring expertise to systems in need."

Aqua Pennsylvania President Marc Lucca says his team is ready to work with the Cheltenham community on making needed system improvements.

"As with our pending agreements with New Garden, East Bradford and Limerick, the Aqua Pennsylvania team is looking forward to assuming Cheltenham's sewer utility responsibilities so the township can direct its attention and capital to other priorities," said Lucca. "We are anxious to begin the work necessary to help the township meet the requirements of an outstanding Pennsylvania Department of Environmental Protection consent order, specifically related to inflow and infiltration issues there."

In total, Aqua has plans to spend nearly $50 million over the next 10 years to improve Cheltenham's wastewater system.

Aqua America is one of the largest U.S.-based, publicly traded water utilities and serves nearly 3 million people in Pennsylvania, Ohio, North Carolina, Illinois, Texas, New Jersey, Indiana and Virginia. Aqua America is listed on the New York Stock Exchange under the ticker symbol WTR. Visit AquaAmerica.com for more information.

Forward-Looking Statements

This release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 including, among others: the company's ability to successfully close the acquisition of the wastewater systems noted in this release. There are important factors that could cause actual results to differ materially from those expressed or implied by such forward-looking statements including: general economic business conditions, the successful integration of the customers and the facilities, the success of the company's growth efforts including its ability to utilize Act 12, and other factors discussed in our Annual Report on Form 10-K, which is on file with the Securities and Exchange Commission.

Cheltenham Township
1329 Proceeding
Cheltenham Twp. - Water Accounts reported for Sewer Billing

Type of Service	Gallons	Customers[1]
Commercial	280,938,300	534
Industrial	364,400	14
Public	9,962,700	23
Residential	484,692,800	9,648
Total	**775,958,200**	**10,219**

1. Customers include all Active and Inactive Accounts

The following table breaks down the above total figures by customer class as of December 31, 2017, 2016, and 2015 :

	2017	2016	2015
Customers:			
Residential	118,493	111,494	110,254
Commercial	9,386	8,626	8,569
Industrial	536	479	478
Public Authority	1,072	948	964
Fire Protection	3,178	2,876	2,815
Other (including non-metered accounts)	2,980	545	553
Total	135,645	124,968	123,633
Water Revenues *(in thousands):*			
Residential	$ 62,831	$ 59,884	$ 58,439
Commercial	13,676	12,250	11,816
Industrial	3,196	3,176	3,229
Public Authority	3,845	3,510	3,193
Fire Protection	20,235	18,486	18,016
Other (including non-metered accounts)	3,271	1,361	1,348
Total	$ 107,054	$ 98,667	$ 96,041
Customer Water Consumption *(millions of gallons):*			
Residential	6,408	6,583	6,551
Commercial	2,026	1,954	1,941
Industrial	711	724	777
Public Authority	575	539	503
Total	9,720	9,800	9,772

The Regulated Companies own various small, discrete parcels of land that are no longer required for water supply purposes. At December 31, 2017 , this land totaled over 600 acres. Over the past several years, we have been disposing of these land parcels through sales and/or donations, primarily to towns and municipalities. For more information, please refer to *Segments of Our Business* below.

Additional information on land dispositions can be found in Item 7 – "Management's Discussion and Analysis of Financial Conditions and Results of Operations – Commitments and Contingencies".

Competition

Our Regulated Companies face competition from a few small privately-owned water systems operating within, or adjacent to, our franchise areas and from municipal and public authority systems whose service areas in some cases overlap portions of our franchise areas.

Employees

As of December 31, 2017 , we employed a total of 294 people. Our employees are not covered by collective bargaining agreements.

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DEALS AUGUST 6, 2018 / 5:11 PM / 6 MONTHS AGO

SJW Group makes $1.1 billion all-cash offer for Connecticut Water

3 MIN READ

NEW YORK (Reuters) - SJW Group (SJW.N) and Connecticut Water Service Inc (CTWS.O) said on Monday they were changing from a merger to an acquisition agreement, with SJW offering to buy the New England utility for $1.1 billion in cash instead of combining stock.

The switch to an all-cash offer is worth $70 per Connecticut Water share, a 33 percent premium to Connecticut Water's share price prior to the original deal announced in March, according to a joint statement.

It was also higher than the implied $61.86 per share value of the Clinton, Connecticut-based firm under the merger-of-equals transaction, which would have created a combined company in which existing SJW shareholders would hold 60 percent of the stock.

SJW closed 2.3 percent lower, while Connecticut Water was 9 percent higher at $68.50.

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To pay for the acquisition, SJW will initially utilize a $975 million bridge loan from financial adviser JP Morgan Chase (JPM.N). Ultimately, the purchase would be covered by debt and between $450 million and $500 million of equity finance.

The new deal aims to conclude in the first quarter of 2019, subject to approvals from Connecticut Water's shareholders, as well as regulators in Connecticut and Maine.

The duo's original all-stock merger announcement in March triggered competing offers from Eversource Energy (ES.N) and California Water Service Group (CWT.N).

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"We have converted from a stock-for-stock deal to a cash offer, which will resolve any further market distractions from the inferior proposals," SJW Chief Executive Eric Thornburg told Reuters, in reference to the actions by Eversource and CalWater.

Switching to an acquisition, versus a merger structure, means that SJW shareholders will no longer be required to vote on approving the deal, the statement said.

CalWater has an open tender offer to acquire SJW that runs until Sept. 28.

However, asked if the change was aimed at heading off any shareholder challenge to the deal, Thornburg told Reuters it "wasn't a consideration" and it had received nothing but support from its shareholders.

RBS sounds alarm over Brexit

CalWater declined to comment. A spokesman for Eversource said the company was evaluating developments but, as it has made clear, it will be disciplined in pursuing this or any other transaction.

Reporting by David French in New York; Additional Reporting by Liana B. Baker; Editing by Lisa Shumaker

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MORE FROM REUTERS

Wastewater treatment is provided by the Borough of West Chester pursuant to a Sewer Capacity Agreement dated November 14, 2017, by and between the Borough and East Bradford Township. Copies of West Chester's 2017 Chapter 94 Reports to DEP for the Goose Creek WWTP and for the Taylor Run WWTP are attached hereto as **Exhibit E3** and **Exhibit E4**.

15. The Goose Creek WWTP has a permitted treatment capacity of 1.672 MGD. The Taylor Run WWTP has a permitted treatment capacity of 1.50 MGD. The elevation of the Goose Creek WWTP is generally about EL 370. The elevation of the Taylor Run WWTP is generally about EL 260. The elevation of the Requested Territory ranges from approximately EL 365 to EL 280.

16. Water service in the Requested Territory is provided by both Aqua Pennsylvania, Inc. and private wells.

17. The original cost, by year and major plant category, of the East Bradford Township used and useful plant in service is $8,294,931 with a related calculation depreciation reserve of $2,820,983. The original cost value includes a series of capped sewers along the North Benjamin Drive area of the Township. The capped sewers include approximately 3,300 linear feet of 8" Gravity PVC pipe and 20 manholes, with an estimated original cost value of approximately $100,000 as estimated by Aqua. The pipe and manholes are included in the totals on page 2-11 and 2-12 of Exhibit W. Aqua will categorize the capped sewer pipe and manholes as plant held for future use in its asset allocation upon closing. The area of capped sewers along North Benjamin Drive is not included in the Requested Territory.

18. Tentative journal entries to record the transaction are presented in Section IV.

IV. ASSET PURCHASE AGREEMENT

19. The *Assets Purchase Agreement* is dated December 20, 2017. The *First Amendment to Assets Purchase Agreement* is dated April 18, 2018. The purchase price is Five Million Dollars

($5,000,000.00). In addition to the purchase price, Section 1.5 of the Agreement provides that Aqua will assume certain defined liabilities and pay certain out-of-pocket costs incurred by East Bradford Township.

20. The purchase price and Agreement are based on arm's length negotiations. Aqua and East Bradford Township are not affiliated with each other. Aqua will use short term debt initially for the purchase of the assets with the expectation that the short term debt will be converted to long term debt and equity capital at a later date.

21. The wastewater system assets to be acquired are the "Assets" and have the meaning specified in Section 1.1 of the Agreement. The Assets include the assets, properties and rights of East Bradford Township that comprise the wastewater system or that are owned by East Bradford Township and used by it solely in connection with operation of the system.

22. "Excluded Assets," which are those assets not being transferred to Aqua, have the meaning specified in Section 1.4 of the Agreement. Excluded Assets include customer service laterals that run from the curb area to individual customer residences or structures; piping and fixtures internal to each customer residence or structure; cash and cash equivalents; and the items set forth in Schedule 1.4 of the Agreement.

23. "Assumed Liabilities" has the meaning specified in Section 1.6 of the Agreement and include the liabilities and obligations under the Assumed Contracts that arise after Closing, liabilities incurred or arising from and after Closing under or from failure to comply with permits, approvals or licenses related to the system that are transferred to Aqua and the obligation to provide wastewater service after Closing. The Assumed Contracts, which are listed in Schedule 1.6 of the APA and attached hereto as **Exhibit F1** and **Exhibit F2**, are the Sewer Capacity Agreement dated November 14, 2017, by and between the Borough of West Chester and East Bradford Township and the Intergovernmental Cooperation Agreement dated March 15, 1999, between East Bradford and Birmingham Township.

East Bradford Township

	# of Customers	Annual Gallons Treated (2017)
Residential- Single Family	399	23,783,560
Residential- Townhomes	814	36,390,635
Commercial		
Bradford Retail - The Bistro		112,800
Bradford Retail - Strip Stores		688,000
Brookworth Plaza - Dunkin Donuts		147,200
Brookworth Plaza - CVS		35,300
Brookworth Plaza - empty building		-
Brookworth Plaza - Strip Stores		142,000
Brookworth Plaza - PNC Bank		17,000
Countryside Food Mart		52,700
Antique Ice Museum		3,600
Mrs. Mike's Restaurant		103,110
Brandywine Hall Nursing Home		8,281,000
Daily Local News - now empty building		24,400
Bradford Plaza - Strip Stores		1,991,430
Bradford Plaza - Giant Food Store		2,527,700
Bradford Plaza - Walgreens		47,000
Bradford Plaza - Giant Gas Station		6,200
Chester County Art Association		120,100
Industrial		
Diesel Systems		66,300
Chem Service		173,400
Other Class(?)*		
Goddard School		252,800
Hillsdale Elementary School		649,700
WCU S Campus Apts - 144		24,200
WCU S Campus Apts - 167		583,900
WCU S Campus Apts - 168		500,900
WCU S Campus Apts - 169		441,900
WCU S Campus Apts - 170		570,900
WCU S Campus Apts - 171		318,900
WCU S Campus Apts - 172		422,000
WCU S Campus Apts - 173		306,400
WCU S Campus Apts - 174		424,500
WCU S Campus Apts - 175		323,400
WCU S Campus Apts - 176		340,000
WCU S Campus Apts - 177		356,000
University Student Housing 1		4,463,500
University Student Housing 2		5,429,000
Total		90,121,435

*May include church, school, public, etc… (please insert a line for each)

420,000
153,300,000

35
399
814
1,248

Q. How many customers will the acquisition add?

A. The acquisition of East Norriton will add 4,966 customers to Aqua's existing 28,000 wastewater customers. This is an increase in customers of 17.7% (or about 20%).[23]

Q. Will the acquisition increase rates for the customers to be acquired?

A. Yes. Aqua witness Packer states that he reasonably expects that rates for East Norriton customers will increase under Aqua ownership.[24] As discussed above, Aqua calculates that if the entire revenue deficiency resulting from the acquisition is applied to East Norriton Township customers, the adjusted average bill for customers using four thousand gallons per month would increase from approximately $39 per month to $52 per month, which would be a 35% rate increase.[25]

Q. Will the acquisition increase rates for existing Aqua customers?

A. Yes. Mr. Packer's testimony shows that, as a result of the acquisition, rates for existing Aqua water customers and existing Aqua wastewater customers will increase if the revenue deficiency is not fully borne by the East Norriton Township customers. Mr. Packer's schedules show estimated increases to existing total Aqua water and wastewater customers ranging from $0.17 per month to $1.66 per month ($2.04 per year to $19.92 per year).[26] If the costs were spread to only existing wastewater customers, and not water customers, the

[23] Exhibit U, Direct Testimony of William C. Packer, p. 9, lines 2-3 and 11-12, p. 16, lines 11-12.

[24] Exhibit U, Direct Testimony of William C. Packer, p. 18, lines 17-20 and Appendix A, p.1; Response to OCA-II-4, Attachment 1, p. 22 (attached as OCA Exhibit DJG-12).

[25] Exhibit U, Direct Testimony of William C. Packer, Appendix A, pp. 1-2 ($38.52 + $13.42 = $51.94). ($13.42 ÷ $38.52) x 100 = 34.84%.

[26] Exhibit U, Direct Testimony of William C. Packer, Appendix A, p. 1.

Q. Describe the scope and organization of your testimony.

A. My testimony addresses the application filed by Aqua Pennsylvania Wastewater, Inc. ("Aqua" or the "Company") for the acquisition of the East Norriton Township (the "Township") wastewater collection system assets. My testimony responds to the fair market value ("FMV") approaches addressed in the testimonies of Harold Walker, III of Gannett Fleming, who sponsors the FMV appraisals commissioned by the Company, and Jerome C. Weinert, who sponsors the appraisal commissioned by the Township. I also discuss the sufficiency of the notices sent to the customers of Aqua and the Township regarding the impact on rates of the proposed acquisition.

II. EXECUTIVE SUMMARY

A. Overview

Q. Please summarizes Aqua's application in this proceeding.

A. Aqua's application proposes to acquire the Township's wastewater assets under Sections 1102 and 1329 of the Public Utility Code (the "Code"). According to Section 1329(c)(2) of the Code, the ratemaking rate base is the lesser of the negotiated purchase price and the average of two FMV appraisals. The FMV estimated by Gannett Fleming and AUS Consultants is $24.2 million and $25.1 million, respectively. The purchase price negotiated by Aqua and the Township is $21 million. Thus, the proposed rate base in the application is $21 million.

Report by Class

Account	Name / Service Address	Tax ID	Book	Status	Alert Code
97990.00	F M BROWN SONS INC 790 DANIEL BOONE ROAD	43-5345-07-68-8539 BIRDSBORO PA 19508-8737		A	
99991.00	DIEROLF, CANDACE 21 PINE AVENUE	BIRDSBORO PA 19508		A	
99992.00	TELFORD, MARK 19-6 CRANBERRY RIDGE	READING PA 19606-3934		A	

Total Class: R: 8,708

Class: TRAILER PARK

20000.00	KLIEWER, KIM B 4851 PERKIOMEN AVENUE (610)670-0191	43-5325-08-79- READING PA 19606	100	A	
20010.00	KL MHC LLC 44 KEYSTONE ROAD	43-5335-14-34- READING PA 19606-3655	201	A	
20020.00	BORDIC MOBILE HOME PARK 214 BORDIC ROAD	43-5335-09-16- READING PA 19606-3605	200	A	
20030.00	KL MHC LLC 44 KEYSTONE ROAD	43-5335-10-35- READING PA 19606-3655	201	A	
20060.00	ALSACE TOWNSHIP 240 SPIES CHURCH ROAD	READING PA 19606	101	A	
20070.00	KL MHC LLC 44 KEYSTONE ROAD	43-5335-14-34-2494 READING PA 19606-3655		A	
91230.00	PENN VIEW MOBILE PARK BROADWAY AVENUE (610)779-4202	43-5327-14-42- READING PA 19606	200	A	

Total Class: T: 7

Total: 8,984

Exeter Township supervisors agree to sell municipal wastewater system for $96 million

readingeagle.com/news/article/exeter-township-supervisors-agree-to-sell-municipal-wastewater-system-for-96-million

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The sale to Pennsylvania American Water Co. will keep taxes steady for 10 years and do other things for Exeter, the township manager said.

Written by Mike Urban

Exeter Township, PA —

The Exeter Township supervisors have agreed to sell the township's wastewater treatment plant and system to a private company for $96 million, a move they expect will save taxpayers money and put the township on much better financial footing.

The supervisors voted 4-1 on April 23 to approve the sale to Pennsylvania American Water Co., which supplies water to the township and operates 15 wastewater treatment systems statewide.

The two sides must finalize the asset purchase agreement, and the sale will require Pennsylvania Utility Commission approval, meaning the earliest the company is likely to take ownership would be early next year.

Township Manager John A. Granger said that if the sale goes through as planned, it will allow the township to hold real estate taxes steady for 10 years or more; pay for future capital projects including equipment replacement, township building relocation and storm sewer improvements; and still leave $48 million in the bank.

The current property tax rate is 2.14 mills, but that would have increased 32.6 percent to 2.8 mills in 2019 if the township retained ownership of the plant, he said.

The township is expected to raise sewer rates 29 percent before the sale is completed, but that rate hike would likely have been higher if the township held onto the system and made necessary upgrades, said Supervisor John Cusatis.

And the supervisors plan to enact a homestead tax exemption that would more than cover the rate increase for most homeowners, he said.

There are about 9,000 properties in Exeter connected to the wastewater system, and Pennsylvania American spokesman Terry M. Maenza said that they shouldn't notice any changes in sewer service once the company takes control of the system.

"It should be seamless," he said.

The company plans to retain the township's six wastewater employees, he said.

Cusatis and fellow Supervisors Lisa VanderLaan, William F. White and David G. Speece Jr. voted for the sale, saying it was a tough decision but the economic benefits were too good to turn down.

"The sale will pay off the library and sewer debt, stabilize the tax base and improve the township's credit rating," Cusatis said.

Supervisor Gary E. Lloyd Jr. voted against the sale, saying he didn't want to lose the valuable asset.

Cusatis said that most Exeter residents he spoke with support the move, but at the April 23 meeting several expressed concern about selling public property to private industry and giving up control of the wastewater system.

A written handout from resident Sherrie Greene noted that: "I have done some research and read that many municipalities have taken this route, then regretted it later. Once our sewer system is sold, it is gone forever and we cannot get it back."

Pennsylvania American, headquartered in Hershey, is a subsidiary of American Water Works Co., based in Vorhees, N.J.

This would be Pennsylvania American's first wastewater treatment system in Berks.

(Correspondent Valdis I. Lacis contributed to this story.)

Contact Mike Urban: 610-371-5023 or murban@readingeagle.com.

1. The collection of a DSIC prior to inclusion of the acquired assets in a base rate case;
2. The accrual of Allowance for Funds Used During Construction (AFUDC) on non-DSIC eligible post-acquisition improvements; and
3. The deferral of depreciation for book and ratemaking purposes on non-DSIC eligible post-acquisition improvements.

Q. Please briefly summarize the Acquisition Transaction that the Joint Applicants are proposing.

A. Under the terms of the Proposed Transaction, PAWC would acquire the wastewater utility assets of Kane for $17.56 million.

Q. Please describe the Kane wastewater utility.

A. Kane owns and operates a sanitary wastewater collection system that provides sanitary wastewater service to approximately 2,019 customers in Kane Borough and a portion of Westmore Township in McKean County. The breakout of Kane's customer count is: 1,847 residential, 162 commercial, 3 industrial, and 7 municipal. The $17.56 million purchase price for a wastewater utility assets serving 2,019 customers equates to a cost of approximately $8,700 per customer.

Q. Does the Application provide the terms of the Proposed Transaction?

A. Yes, the Asset Purchase Agreement ("APA") dated November 4, 2019 was included with the Application. The APA states that the purchase price is Seventeen Million, Five Hundred Sixty Thousand Dollars ($17,560,000). The Application indicates that the purchase price is based on arm's length negotiations. PAWC and Kane Borough are not affiliated with each other.

	Service Address	Customer Number	Edu Purchased	Group Code	Drainage Basin	SPA Amt	SPA Qty	SWR Amt	SWR Qty	Swr Base Amt	PEN Amt	INT Amt
3793	900 FOXMEADOW DR	12133	16	King Road	SOUTHEAST (6)	-	116,300.00	F	-	$ 1,348.80	-	-
3794	1000 FOXMEADOW DR	12134	16	King Road	SOUTHEAST (6)	-	94,400.00	F	-	$ 1,348.80	-	-
3795	1100 FOXMEADOW DR	12135	16	King Road	SOUTHEAST (6)	$ 216.44	153,200.00	F	-	$ 1,348.80	-	-
3796	1200 FOXMEADOW DR	12136	16	King Road	SOUTHEAST (6)	$ 69.15	130,400.00	F	-	$ 1,348.80	-	-
3799	1500 FOXMEADOW CIR	12139	16	King Road	SOUTHEAST (6)	$ 43.95	126,500.00	F	-	$ 1,348.80	-	-
3800	1600 FOXMEADOW CIR	12140	16	King Road	SOUTHEAST (6)	-	82,300.00	F	-	$ 1,348.80	-	-
3801	1700 FOXMEADOW CIR	12141	16	King Road	SOUTHEAST (6)	-	84,300.00	F	-	$ 1,348.80	-	-
3802	1800 FOXMEADOW CIR	12142	16	King Road	SOUTHEAST (6)	-	92,500.00	F	-	$ 1,348.80	-	-
3803	1900 FOXMEADOW DR	12143	16	King Road	SOUTHEAST (6)	-	111,200.00	F	-	$ 1,348.80	-	-
3804	2000 FOXMEADOW CIR	12144	16	King Road	SOUTHEAST (6)	$ 8.42	121,000.00	F	-	$ 1,348.80	-	-
3805	2100 FOXMEADOW CIR	12145	16	King Road	SOUTHEAST (6)	$ 160.88	144,600.00	F	-	$ 1,348.80	-	-
3806	2200 FOXMEADOW DR	12146	16	King Road	SOUTHEAST (6)	-	101,000.00	F	-	$ 1,348.80	-	-
3807	2300 FOXMEADOW DR	12147	16	King Road	SOUTHEAST (6)	$ 176.38	147,000.00	F	-	$ 1,348.80	-	-
3808	2400 FOXMEADOW CIR	12148	16	King Road	SOUTHEAST (6)	$ 94.99	134,400.00	F	-	$ 1,348.80	-	-
3809	2500 FOXMEADOW CIR	12149	16	King Road	SOUTHEAST (6)	$ 107.26	136,300.00	F	-	$ 1,348.80	-	-
161	640 N LEWIS RD	275	17	King Road	SOUTHEAST (6)	$ 1,932.95	306,700.00	F	-	$ 84.30	-	-
3674	7-27 W RIDGE PIKE/STRP ML	12005	18	King Road	SOUTHEAST (6)	$ 63.37	92,100.00	F	-	$ 927.30	-	-
3727	125 SUNSET RD	12065	18	King Road	282 GRATERFORD RD (20)	$ 1,198.45	193,000.00	F	-	$ 84.30	-	-
3772	15 KEYSTONE DR	12112	18	King Road	TRINLEY (5)	$ 2,452.98	387,200.00	F	-	$ 84.30	-	-
5199	256 SWAMP PIKE/SCHOOL	60965	18	Possum Hollow	RAVENS CLAW (18)	$ 2,015.24	334,400.00	F	-	$ 252.90	-	-
162	339 N LEWIS RD	276	19	King Road	SOUTHEAST (6)	$ 1,256.59	202,000.00	F	-	$ 84.30	-	-
3706	W RIDGE PIKE/STRIP/BANK	12039	19	King Road	SOUTH LIMERICK (3)	$ 1,373.73	272,500.00	F	-	$ 674.40	-	-
3745	542 N LEWIS RD	12084	19	King Road	TRINLEY (5)	$ 112.65	32,400.00	F	-	$ 168.60	-	-
3411	70 BUCKWALTER RD/1350/APPLEB	11737	20	King Road	SOUTHEAST (6)	$ 3,375.47	530,000.00	F	-	$ 84.30	-	-
5389	206 JONES BLVD/MICROCOAX	70011	20	Possum Hollow	BROOKE EVANS (16)	$ 14,938.23	2,319,900.00	F	-	$ 84.30	-	-
3445	70 BUCKWALTER RD/1250/TEXAS	11771	21	King Road	SOUTHEAST (6)	$ 2,419.39	382,000.00	F	-	$ 84.30	-	-
3707	22 ANCHOR PARKWAY	12040	23	King Road	SOUTHEAST (6)	$ 1,958.79	310,700.00	F	-	$ 84.30	-	-
3773	77 GRATERFORD RD	12113	23	King Road	282 GRATERFORD RD (20)	$ 1,208.14	194,500.00	F	-	$ 84.30	-	-
64	677 ELM ST	170	24	Royersford	ORCHARD TERRACE (OT)	-	12,000.00	F	-	$ 2,023.20	-	-
3863	430 W LINFIELD TRAPPE RD	12208	24	King Road	TRINLEY (5)	$ 4,782.46	747,800.00	F	-	$ 84.30	-	-
794	1101 ENTERPRISE DR	2573	28	King Road	TRINLEY (5)	$ 1,182.95	190,600.00	F	-	$ 84.30	-	-
2502	196 W RIDGE PK/FLEA MRKT	10679	29	King Road	RIDGE PIKE (10)	$ 629.07	247,000.00	F	-	$ 1,686.00	$ 1.80	-
3869	420 LINFIELD TRAPPE RD	12214	30	King Road	TRINLEY (5)	$ 852.20	139,400.00	F	-	$ 84.30	-	-
5410	14 W LIGHTCAP RD	70032	34	Possum Hollow	POSSUM HOLLOW (17)	$ 7,741.14	1,205,800.00	F	-	$ 84.30	-	-
3401	19 W LINFIELD TRAPPE RD	11727	36	King Road	SOUTHEAST (6)	$ 5,421.59	846,736.00	F	-	$ 84.30	-	-
107	475 N LEWIS RD	216	52	King Road	SOUTHEAST (6)	$ 3,921.34	614,500.00	F	-	$ 84.30	-	-
3761	88 ANCHOR PARKWAY	12101	52	King Road	SOUTHEAST (6)	$ 3,746.92	587,500.00	F	-	$ 84.30	-	-
2292	420 W LINFIELD TRAPPE RD	10357	59	King Road	TRINLEY (5)	$ 5,568.64	869,500.00	F	-	$ 84.30	-	-
167	350 S LEWIS RD	282	60	King Road	SOUTHEAST (6)	$ 3,791.50	594,400.00	F	-	$ 84.30	-	-
2465	827 N LEWIS RD	10630	80	King Road	SOUTH LIMERICK (3)	-	150,200.00	F	-	$ 6,744.00	-	-
3091	FOX RIDGE APTS	11378	97	King Road	SOUTH LIMERICK (3)	$ 2,050.04	1,043,000.00	F	-	$ 8,177.10	-	-
2685	165 W RIDGE PIKE/TRLR PK	10913	115	King Road	SOUTHEAST (6)	$ 6,018.69	1,792,000.00	F	-	$ 9,694.50	-	-
5397	EXELON LIM GEN STA	70019	137	Possum Hollow	POSSUM HOLLOW (17)	N	-	$ 8,659.75	1,348,000.00	$ 84.30	$ 1,041.07	-
5400	18 LIGHTCAP RD	70022	200	Possum Hollow	POSSUM HOLLOW (17)	$ 4,006.31	1,278,500.00	F	-	$ 7,418.40	-	-
		5416	**8402**			**$ 299,707.92**	**89,160,697**	**$ 25,039.14**	**7,288,556**	**$ 600,843.05**	**$ 14,296.74**	**$ 1,169.98**

ASSET PURCHASE AGREEMENT

7. Aqua and Limerick are parties to an Asset Purchase Agreement dated November 16, 2016. Aqua Exhibit 1, Application ¶ 5 and ¶ 18; *see also* Aqua Exhibit No. 1, Exhibit C.

8. The negotiated purchase price, which is based on arms' length negotiation, is Seventy-Five Million One Hundred Thousand Dollars ($75,100,000.00). Aqua and Limerick are not affiliated with each other. Aqua Exhibit No. 1, Application ¶ 18 and Aqua St. No. 1 at 6, lines 6 through 10.

9. Aqua will use short term credit lines to fund the transaction. The short term credit funding will be converted to a mix of long-term debt and equity capital shortly after closing. Aqua St. No. 1 at 7, lines 18 through 20; *see also* Aqua Exhibit No. 1, Application ¶ 18.

ASSETS BEING TRANSFERRED

10. The wastewater system assets to be transferred are the "Acquired Assets" and have the meaning specified in Section 2.01 of the Agreement. The Acquired Assets include all real property Limerick owns and uses in the operation of the wastewater system and all sanitary wastewater related treatment and conveyance facilities, including the Possum Hollow Waste Water Treatment Plant ("PHWWTP"), the King Road Waste Water Treatment Plant ("KRWWTP") and all pipes, pumping stations, manholes and pipelines and billing and collections related assets necessary to run the system. Aqua Exhibit No. 1, Application ¶ 19.

11. Acquired Assets also include the contracts identified on Schedule 4.15 of the Agreement to which Limerick is a party (the "Assigned Contracts"). Since contract parties, other than Limerick, are identified by name, Schedule 4.15 and the Assigned Contracts are considered CONFIDENTIAL. Copies of CONFIDENTIAL Schedule 4.15 and the CONFIDENTIAL Assigned Contracts were included with the Application as Confidential Exhibit F and admitted into evidence as CONFIDENTIAL Aqua Exhibit No. 4. Aqua Exhibit No. 1, Application ¶ 20 and Tr. 13 and 20.

$5,572,770. Exh. A-14-a, SWPA St. 1 at 11-12. The allocated purchase price for the water system is $4,734,800 and the wastewater system is $4,765,200. Appendix A-14, SWPA St. 2 at 4-5.

The valuation experts were paid $59,145 for the Fair Market Value Appraisal Reports for both the water and wastewater systems. Exh. A-8-a. SWPA also indicates that it will incur transaction and closing costs of approximately $1,000,000 between the Water System and the Wastewater System, which will be included in rate base. Appendix A-14, SWPA St.1 at 5-6; Appendix A-12.

OCA will examine the ratemaking rate base claims to determine if the claims are reasonable and appropriate for ratemaking purposes.

2. Proposed Rates: SWPA proposes to charge customers of the Mahoning Township system the Mahoning Township water and wastewater rates in effect at closing. Application at 6, 11; Appendix A-13. Those rates will remain in effect until SWPA's next base rate case but SWPA may impose any fee or surcharge permitted by its Commission-approved tariff. Id.

The proposed rates do not appear to match the existing Mahoning Township rates. The OCA will investigate this apparent discrepancy. The OCA will investigate the impacts on the current customers as well as on Mahoning Township customers of the various assumptions and proposals.

3. The OCA submits that additional information is necessary to determine how the transaction will substantially and affirmatively benefit Suez's existing customers.

4. Conditions: Whether any conditions should be imposed upon the proposed transfer to ensure that Suez's customers are treated in a fair and just manner in accord with Pennsylvania law and Commission rules and regulations.

MAHONING TOWNSHIP CUSTOMER LIST

Customer No	Name	Service Address	Service	SWR EDUs	EDU	Count
11470.01	T & S REALTY	304 HOLLOW DR	Sewer	1	1	1431
11471.01	T & S REALTY	306 HOLLOW DR	Sewer	1	1	1432
11472.01	T & S REALTY	308 HOLLOW DR	Sewer	1	1	1433
11473.01	T & S REALTY	310 HOLLOW DR	Sewer	1	1	1434
11474.01	T & S REALTY	312 HOLLOW DR	Sewer	1	1	1435
11475.01	DAVID & JOANNE BROOKO\	32 TERRE LANE	Sewer	1	1	1436
11476.02	JAYA SUGUNARAJ & JESSITA	214 ABBEY RD	Sewer	1	1	1437
11478.01	DAVID BULBIN & BARBARA	74 WOODLAND DR	Sewer	1	1	1438
11479.01	JEFFREY MOLINARO	1318 BLOOM RD	Sewer	1	1	1439
11480.01	CRYSTAL DOMETITA	91 WOODLAND DR	Sewer	1	1	1440
11482.01	AYUSA SINHA	672 LOWER ST	Sewer	1	1	1441
11483.01	MADIAN YAHYA	676 LOWER ST	Sewer	1	1	1442
11484.01	JEFF WATSON	168 KASEVILLE RD	Sewer	1	1	1443
11485.01	ANWER & SARAH QURESHI	656 LOWER ST	Sewer	1	1	1444
11486.01	ROSS & ASHLEY PETERS	83 TERRE LN	Sewer	1	1	1445
11488.01	QUESHI ANWER	664 LOWER STREET	Sewer	1	1	1446
11489.01	MATHUR HERSH	660 LOWER STREET	Sewer	1	1	1447
11490.01	PRASANNA SANKEPALLI & S	668 LOWER ST	Sewer	1	1	1448
11491.01	MARK GATSKI & CATHERINI	82 DELWOOD DR	Sewer	1	1	1449
11492.01	JONATHAN & LAURA SPAHF	78 TERRE LN	Sewer	1	1	1450
11166.02	DANKO HOLDINGS LP	1301 BLOOM RD	Sewer	0	1	1451
	TOTALS				2195	1451

eport Criteria:
Customer.Final bill date = {IS NULL}

5/30/18

stomer #	Name	Service Address	Meter ID	Customer Type	Size
11104.01	ANIMAL CARE	32 ENTERPRISE DR	0049503582	Commercial	1
11107.01	EMMANUEL HOME	MONTOUR BLVD. 11107	8280982952	Commercial	1
11120.02	REDEEMER ORTHODOX PRESBYTER	1820 MONTOUR BLVD.	1540802894	Commercial	1
11121.01	FAB-TEX	29 WOODBINE LANE	0004695133	Commercial	1
11137.01	GEISINGER HEALTH SYSTEMS - MCB	MCBRIDE	1541355520	Commercial	1
11151.01	ROAT-KRINER ROAT	1133 BLOOM RD.	1541286282	Commercial	1
11157.01	TRINITY METHODIST CHURCH	84 LOMBARD AVE	1018010545	Commercial	1
11159.01	VINTAGE KNOLLS ASSISTED LIVING	9 JUSTIN DR 101	1541313242	Commercial	1
11160.01	GEISINGER COMMUNITY HEALTH - VI	44 WOODBINE LANE	0048920994	Commercial	1
11165.01	RINEHART DENTAL	20 WESNER LANE	1481726108	Commercial	1
Total 1: 10				10	10
11110.01	BUSY BEAVER	23 WESNER LN	0053635505	Commercial	1.5
11139.01	MEADOWS COMM.	77 TOWER VIEW CIRCLE	0051583844	Commercial	1.5
11148.01	SHANER HOTEL GRP	43 PINE BARN PLACE	1832339361	Commercial	1.5
11170.01	HAWKINS CHEVROLET	1856 MONTOUR BLVD.	1852732193	Commercial	1.5
11439.01	GEORGE HEIM CAR WASH	1802 MONTOUR BLVD	1541551330	Commercial	1.5
Total 1.5: 5				5	5
11102.01	ATLANTIC EQUIP	15 ENTERPRISE DR	0048304212	Commercial	2
11108.01	EMMANUEL NAZARETH	1707 MONTOUR BLVD. 11108	1007034764	Commercial	2
11117.01	T & S REALTY	1083 BLOOM RD	0046645520	Commercial	2
11126.01	GUM REALTY GROUP LLC	74 SCHOOL HOUSE RD STE 101	0022379100	Commercial	2
11134.01	MARIA JOSEPH AL CENTER	MONTOUR BLVD. 11134	1832120637	Commercial	2
11136.01	GEISINGER HEALTH SYSTEMS - HUG	HUGHES CENTER SOUTH	0052693508	Commercial	2
11146.01	SHANER HOTEL GRP	43 PINE BARN PLACE A	0043702654	Commercial	2
11166.02	DANKO HOLDINGS LP	1301 BLOOM RD	1548931502	Commercial	2
Total 2: 8				8	8
11101.01	NAILS TO TAILS GROOMING SALON	938 BLOOM RD.	1810172132	Commercial	3/4
11109.01	BROKENSHIRE JOHN	769 BLOOM RD.	1541276964	Commercial	3/4
11111.01	CERO JAMES PATRICK	795 BLOOM RD	1541282452	Commercial	3/4
11113.01	COLE'S HARDWARE	25 ENTERPRISE ROAD	1541310306	Commercial	3/4
11115.01	HAWKINS JAMES	1581 MONTOUR BLVD.	1852924202	Commercial	3/4
11116.01	HAWKINS COLLISION CENTER	MONTOUR BLVD. 11116	1541425432	Commercial	3/4

Commercial Water Meters
70

Residential Water Meters
1116

2"
+ 1 = 15 Wesner Lane added 5/24/18

Total Meters
=
1186

21. Second, Ms. Vicari used inconsistent purchase price values to calculate the average costs per customer. Id. at 21-22.

(a) Incorrect Use of Projected Customers

Ms. Vicari used an incorrect number of customers for MACM. In Appendix A-17-a, it states that MACM has 12,780 customers, yet Ms. Vicari used 21,953 customers. OCA St. 1 at 20-21. She explained that she used that number because she counted the individual connections for each bulk customer. Id. She never supplied her calculation of the individual connections for the four bulk customers. Id.

Ms. Vicari does not necessarily apply that logic to the other acquisitions in her sample group by reflecting individual connections for any bulk customers. OCA St. 1S at 16-17. By using the actual number of customers for the other systems, she achieved a higher average cost per customer. She then multiplied this overstated cost per customer times the unsupported number of bulk customers' individual connection, compounding the error. Ms. Everette was not able to confirm whether all of the customer numbers in Ms. Vicari's sample group were consistently counted. She therefore used the 21,953 customer number used by Ms. Vicari to minimize the issues in the proceeding.

(b) Inconsistent Purchase Price Values

Similar to the problem with the customer count, MACM witness Vicari did not use consistent purchase price values. OCA St. 1 at 21-22. For the comparative acquisitions, she used the purchase price plus the value of capital improvements required by the agreement of sale. For MACM, however, she uses only the purchase price and does not consider the $62.7 million of capital investments that PAWC anticipates making over the next 10 years. Including the cost

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McKeesport sewer system to be sold for $156 million

September 16, 2016 12:00 AM

By Deana Carpenter

The Municipal Authority of the City of McKeesport has agreed to sell its sewer system to Pennsylvania American Water for approximately $156 million.

The sale is needed to bring the city to more stable financial ground and avoid Act 47, the program for financially distressed municipalities, or municipal bankruptcy, McKeesport Mayor Michael Cherepko said at the Sept. 7 council meeting.

“It became very clear to this administration that the only way to save our community from municipal bankruptcy, while continuing to offer the same level of services our residents deserve, would be to transfer our local sewage system to a regional or national utility company,” Mr. Cherepko said in a news release.

A purchase agreement was signed by both parties last Friday following votes by city council and the municipal authority to sell the sewer system. The sale is expected to be finalized in the second half of next year pending regulatory approvals and other closing conditions.

The system serves 22,000 customers in McKeesport and the communities of Dravosburg, Duquesne, East McKeesport, Elizabeth Township, Glassport, Liberty, Lincoln, North Versailles, Port Vue, Versailles and White Oak.

“We look forward to closing the proposed acquisition and to providing wastewater services that reflect our commitment to environmental stewardship and quality customer service,” said

Kathy L. Pape, president of Pennsylvania American Water, said that after the deal is closed, the company looks forward “to welcoming the Municipal Authority of the City of McKeesport’s employees and customers to the Pennsylvania American Water family.”

She said the company also looks forward to “providing wastewater services that reflect our commitment to environmental stewardship and quality customer service.”

The next step is approval of the acquisition by the Pennsylvania Public Utility Commission along with other approvals, such as from the state Department of Environmental Protection.

In June, state Auditor General Eugene DePasquale said McKeeesport erred when it accidentally spent $729,275 in state funds earmarked for pension costs and subsequently couldn't pay its $2.3 million annual pension obligation last year.

McKeesport officials said then they would remedy the shortfall through "the sale of an asset in the near future."

“The total proceeds of the pending sale of the Municipal Authority of the City of McKeesport will solidify the City of McKeesport’s financial position for years to come,” Mr. Cherepko said this week. “The down payment associated with this

sale will generate enough revenue to cover all of the city's outstanding financial obligations, including the minimum municipal obligations associated with the city's pension funds."

Deana Carpenter, freelance writer: suburbanliving@post-gazette.com.

EAST END SEWER ACCOUNTS

Type	2015-4	2015-3	2015-2	2015-1	2014-4	2014-3	2014-2	2014-1
CO1	2,070,000	2,060,000	1,831,000	2,284,000	2,971,000	2,665,000	1,498,000	1,278,000
CO2	739,000	1,050,000	885,000	793,000	1,028,000	1,061,000	873,000	873,000
IND								
MIX	15,000	9,000	10,000	4,000	17,000	14,000	12,000	18,000
RES	13,780,000	13,367,000	12,924,000	13,280,000	12,700,000	14,137,000	14,241,000	12,874,000
Grand Total	**16,604,000**	**16,486,000**	**15,650,000**	**16,361,000**	**16,716,000**	**17,877,000**	**16,624,000**	**15,043,000**
# DAYS	94	90	89	91	87	94	93	91

Type	2015-4 GPD	2015-3 GPD	2015-2 GPD	2015-1 GPD	2014-4 GPD	2014-3 GPD	2014-2 GPD	2014-1 GPD
CO1	22,021	22,889	20,573	25,099	34,149	28,351	16,108	14,044
CO2	7,862	11,667	9,944	8,714	11,816	11,287	9,387	9,593
IND								
MIX	160	100	112	44	195	149	129	198
RES	146,596	148,522	145,213	145,934	145,977	150,394	153,129	141,473
Grand Total	**176,638**	**183,178**	**175,843**	**179,791**	**192,138**	**190,181**	**178,753**	**165,308**

Type	Total Units	Total Active Units	Total Accounts
CO1	145	109	65
CO2	40	16	13
IND			
MIX	8	7	3
RES	1,043	1012	823
Grand Total	**1,236**	**1,144**	**904**

Type	2015 Total	2014 Total
CO1	8,245,000	8,412,000
CO2	3,467,000	3,835,000
IND		
MIX	38,000	61,000
RES	53,351,000	53,952,000
Grand Total	**65,101,000**	**66,260,000**

Service Area	Total Units	Total Active Units	Total Accounts
BP	290	282	107
BR	52	51	52
BW	99	90	56
CR	5	4	5
CW	110	109	110
EE	1		1
GL	132	110	70
HD	127	110	112
PD	31	31	31
PM	48	47	48
PS	66	66	66
SC	65	37	40
SH	132	132	132
SRO	2	2	2
WB	76	73	72
Grand Total	**1,236**	**1,144**	**904**

SOUTH END SEWER ACCOUNTS

Type	2015-4	2015-3	2015-2	2015-1	2014-4	2014-3	2014-2	2014-1
CO1	163,000	68,000	33,000	27,000	277,000	265,000	28,000	25,000
RES	7,444,000	7,494,000	7,172,000	7,565,000	7,109,000	7,576,000	7,233,000	7,750,000
Grand Total	**7,607,000**	**7,562,000**	**7,205,000**	**7,592,000**	**7,386,000**	**7,841,000**	**7,261,000**	**7,775,000**
# DAYS	94	90	89	91	87	94	93	91

Type	2015-4 GPD	2015-3 GPD	)15-2 GPD	2015-1 GPD	2014-4 GPD	2014-3 GPD	2014-2 GPD	2014-1 GPD
CO1	1,734	756	371	297	3,184	2,819	301	275
RES	79,191	83,267	80,584	83,132	81,713	80,596	77,774	85,165
Grand Total	**80,926**	**84,022**	**80,955**	**83,429**	**84,897**	**83,415**	**78,075**	**85,440**

Type	Total Units	Total Active Units	Total Accounts
CO1	6	2	2
RES	611	605	607
Grand Total	**617**	**607**	**609**

Type	2015 Total	2014 Total
CO1	291,000	595,000
RES	29,675,000	29,668,000
Grand Total	**29,966,000**	**30,263,000**

Service Area	Total Units	Total Active Units	Total Accounts
ES	178	174	174
HGN	129	125	125
HGS	30	29	30
MG	21	21	21
WS	259	258	259
Grand Total	**617**	**607**	**609**

AVONDALE SEWER ACCOUNTS SEWER ACCOUNTS

Type	2015-4	2015-3	2015-2	2015-1	2014-4	2014-3	2014-2	20144
CO1	2,833,000	3,044,000	2,895,000	3,014,000	2,844,000	2,681,000	2,598,000	2,992,000
CO2	191,000	208,000	235,000	228,000	224,000	195,000	192,000	179,000
MIX	301,000	312,000	255,000	273,000	227,000	258,000	276,000	332,000
RES	4,090,000	3,750,000	3,588,000	4,089,000	3,506,000	4,183,000	4,716,000	3,705,000
TWP	31,000	24,000	20,000	19,000	21,000	22,000	19,000	74,000
Grand Total	**7,446,000**	**7,338,000**	**6,993,000**	**7,623,000**	**6,822,000**	**7,339,000**	**7,801,000**	**7,282,000**
# DAYS	94	90	89	91	87	94	93	91

Type	2015-4 GPD	2015-3 GPD	)15-2 GPD	2015-1 GPD	2014-4 GPD	2014-3 GPD	2014-2 GPD	2014-1 GPD
CO1	30,138	33,822	32,528	33,121	32,690	28,521	27,935	32,879
CO2	2,032	2,311	2,640	2,505	2,575	2,074	2,065	1,967
MIX	3,202	3,467	2,865	3,000	2,609	2,745	2,968	3,648
RES	43,511	41,667	40,315	44,934	40,299	44,500	50,710	40,714
TWP	330	267	225	209	241	234	204	813
Grand Total	**79,213**	**81,533**	**78,573**	**83,769**	**78,414**	**78,074**	**83,882**	**80,022**

Type	Total Units	Total Active Units	Total Accounts
CO1	397	48	38
CO2	4	4	4
MIX	8	22	8
RES	306	282	230
TWP	3	3	3
Grand Total	**718**	**359**	**283**

Type	2015 Total	2014 Total
CO1	11,786,000	11,115,000
CO2	862,000	790,000
MIX	1,141,000	1,093,000
RES	15,517,000	16,110,000
TWP	94,000	136,000
Grand Total	**29,400,000**	**29,244,000**

Service Area	Total Units	Total Active Units	Total Accounts
41	308	76	46
BH	123	120	121
BH2	6	6	6
RR	130	119	79
TK	151	38	31
Grand Total	**718**	**359**	**283**

Dilworth Paxson LLP

The PA PUC Approves First Wastewater Sale Under New Act 12

06/14/2017

June 14, 2017 (Philadelphia, PA) - On June 14, 2017, the Pennsylvania Public Utility Commission approved, in a four-to-one vote, Aqua Pennsylvania Wastewater, Inc.'s application to acquire the wastewater system of New Garden Township and its Sewer Authority, and to begin providing wastewater service to the residents of New Garden and Kennett Townships in Chester County. The transaction is the first to be approved using the fair market valuation approach established by the Pennsylvania State Legislature and Governor Tom Wolf with Act 12 of 2016 (Act of Apr. 14, 2016, P.L. 76, No. 12, 66 Pa. C.S. § 1329).

Act 12 is changing the landscape for municipal sales of water and wastewater systems to PUC-regulated public utility companies. The new law allows the parties to the transaction to opt in to a new method of valuation, which takes the value of the system for ratemaking purposes as either the lower of the average of two independent fair market value appraisals—one obtained by the utility buyer and one by the municipal seller—or by the negotiated purchase price. Prior to Act 12, system value for ratemaking was based on depreciated original cost, which would likely always result in a lower sale price than fair market value. In addition, the new law requires the PUC to act within six months of the acceptance of the application.

Act 12 became effective mid-June 2016, and the PUC issued its final implementation order in October 2016. The New Garden transaction was the first Act 12 application, submitted for approval in December 2016. Aqua, New Garden, and the Authority agreed to a negotiated purchase price of $29,500,000, which turned out to be less than the average of the two appraisals commissioned by Aqua and New Garden. The valuation for ratemaking purposes was therefore set at $29,500,000.

A protest to Aqua's application for PUC approval pursuant to Act 12 in the New Garden transaction was filed by the Bureau of Investigation and Enforcement, which sought a review of both of the fair market appraisals used, additional information about the proposed rate freeze agreed to by the parties, and a determination of whether the transaction was in the public interest under Section 1102 of the Public Utility Code.

An additional protest was filed by the Office of Consumer Advocates requesting further information to determine whether supplementary conditions should be imposed on the transaction to ensure that Aqua's existing customers are treated in a fair and just manner; how the transaction will substantially and affirmatively benefit Aqua's existing customers; and whether the agreement sufficiently provides for safe, adequate, and reasonable service at just and reasonable rates.

An evidentiary hearing was held before an administrative law judge on February 16, 2017. After the hearing, the judge recommended the denial of Aqua's application, concluding that Aqua had failed to demonstrate by a preponderance of the evidence that the acquisition was in the public interest because it failed to demonstrate that the transaction will result in affirmative public benefits to its existing customers. The judge also concluded that Aqua had failed to support its rate stabilization plan with evidence to show its basis and impact. The judge did

Related Lawyers

Skye C.A. Nickalls

Marc A. Feller

Related Practices

Corporate and Business

Related Offices

Philadelphia, PA

invest in necessary capital improvements and resources, and experienced managerial and operating personnel necessary to provide safe and reliable sewer services to the residents of the TOS and surrounding areas. PAWC is currently the water provider within TOS and is the operator of TOS's System pump station.

Q. PLEASE DESCRIBE PAWC'S HISTORICAL RELATIONSHIP WITH TOS.

A. Since PAWC's acquisition of the water and wastewater assets of the City of Coatesville Authority ("CCA") in March 2001, PAWC has been the regional wastewater (and water) provider in the City of Coatesville and surrounding communities. . PAWC's treats the wastewater from the communities of Sadsbury Township, City of Coatesville, East Fallowfield Township, Caln Township, West Caln Township, Valley Township, West Sadsbury Township, Highland Township, West Brandywine Township and Parksburg Borough. TOS has been a bulk wastewater customer of PAWC since PAWC's acquisition of CCA's water and wastewater system assets. We maintain a relationship with TOS and other local municipalities by participating in local events, providing environmental and firefighting grants, offering the "H2O Assistance Program," and supporting economic growth through infrastructure improvements in the communities we serve.

Q. HOW MANY CUSTOMERS DOES THE TOS SYSTEM CURRENTLY SERVE AND HOW MANY CUSTOMERS DOES PAWC CURRENTLY SERVE?

A. As of December 31, 2016, TOS furnished wastewater services to 998 customers. This number includes 950 residential and 48 commercial customer connections. Of these

interest in discussing the potential acquisition of the System and the use of Section 1329, the fair market value approach. TOS's representatives executed the Letter of Interest on December 6 and 7, 2016 and returned it to PAWC. This "Letter of Interest" was extended through amendments on March 9, 2017, May 2, 2017, June 6, 2017, and July 5, 2017 to allow the parties to enter into a definitive agreement. Through these extensions, PAWC and TOS jointly retained the services of Herbert E. MacCombie, Jr., P.E., of Media Pennsylvania to complete the Engineer's Assessment of Tangible Assets pursuant to Section 1329. The Engineer's Assessment of Tangible Assets is included as **Schedule 1.1** of the APA and included with the UVE fair market valuation reports at **Appendix A-5**. PAWC, pursuant to Section 1329, retained the services of AUS Consultants of Greenfield Wisconsin to complete an appraisal of the System. TOS retained the services of Herbert, Rowland & Grubic, Inc. of Harrisburg, Pennsylvania to also complete an appraisal of the System. These appraisals accompany the Application at **Appendix A-5** (together with electronic working documents at **Appendix A-4**) and are included as **Schedule 2.2** of the APA. After receipt of the two appraisals and subsequent arms-length negotiations, on May 1, 2018 TOS's Board of Supervisors approved the APA, which was subsequently executed by PAWC and TOS that day too. This APA includes a negotiated purchase price of $9,250,000.

Q. CAN YOU PLEASE PROVIDE AN OVERVIEW OF THE APA?

A. Yes. The APA is attached as **Appendix A-24-a** to the Application **(PAWC Exhibit KEG-1)**. The APA sets forth the terms and conditions pursuant to which the TOS will sell, and PAWC will purchase, the System, as well as substantially all assets, properties and rights

Elizabeth Rose Triscari, Esquire
Pennsylvania-American Water Company
800 West Hersheypark Drive
Hershey, PA 17033
(717) 520-4606
elizabeth.triscari@amwater.com

The Applicant's attorneys are authorized to receive all notices and communications regarding this Application.

6. PAWC is a regulated public utility corporation duly organized and existing under the laws of the Commonwealth of Pennsylvania, and is engaged in the business of collecting, treating, storing, supplying, distributing and selling water to the public, and collecting, treating, transporting and disposing of wastewater for the public. Water and wastewater services are furnished by PAWC to the public in a service territory encompassing more than 400 communities across the Commonwealth with a combined population of over 2,400,000. A description of PAWC's existing certificated water and wastewater service territory is found in **Appendix B**, along with a detailed corporate history, outlining all of the mergers, acquisitions and consolidations, which have created PAWC as it exists on the date of this Application.

7. Steelton is a municipal water authority, organized by the Borough of Steelton in accordance with the Municipality Authorities Act, 53 Pa. C.S. §5601, et seq., with its offices located at 123 North Front Street, Steelton, Pennsylvania. Steelton owns and operates the Steelton System, providing water service to the public in the Borough of Steelton and a portion of Swatara Township (the "Service Area"), in Dauphin County, Pennsylvania.

8. As of November 30, 2018, Steelton furnishes water service to 2,472 customers including 2,289 residential, 124 commercial, 13 industrial, 34 institutional, 11 municipal, and one bulk sales customer connection.

PENNSYLVANIA REAL-TIME NEWS

Steelton water sale closer to completion as Pa. American Water signs $22.5 million agreement

Updated Nov 15, 2018;
Posted Nov 15, 2018



Pennsylvania American Water announced today it signed an agreement to acquire the water assets of the Steelton Borough Authority. Pending regulatory approvals, the sale should be complete by the third quarter of 2019.

1

8
shares

By Steve Marroni | smarroni@pennlive.com

The sale of Steelton's water system is one step closer to completion.

Pennsylvania American Water announced today it has signed an agreement to acquire the water assets of the Steelton Borough Authority for $22.5 million.

The two will next seek approval of the acquisition from the Pennsylvania Public Utility Commission and other necessary approvals from the Pennsylvania Department of Environmental Protection, according to the company.

Subscribe

Cust No	Name	Customer Type	Group Code	Service No	Description	Unit/Share
)33438358	Morath, Christina	Commercial	None	1	SEWER	1
)33453937	Baeder, William	Commercial	None	1	SEWER	1
)33521786	Sanders, Debra	Commercial	None	1	SEWER	1
)33757653	Advanced Auto Parts	Commercial	None	1	SEWER	1
)34016546	Nelson's Ice Cream	Commercial	None	1	SEWER	1
)34030702	Pitcher, Paul	Commercial	None	1	SEWER	1
)34083232	Beck, Katharine G	Commercial	None	1	SEWER	1
)34862572	LK Miller Properties LLC	Commercial	None	1	SEWER	1
)02939458	Fuhrman, Steve	Commercial	None	1	SEWER	1
)03198199	Sarangpur Realty LLC	Commercial	None	1	SEWER	1
)03373167	Wilhelm, Rosemarie	Commercial	None	1	SEWER	1
)04397982	Pragi Enterprises LLC	Commercial	None	1	SEWER	1
)06085025	Plank Jr, Robert E	Commercial	None	1	SEWER	1
)06197065	LD Hedge Associates LLC	Commercial	None	1	SEWER	1
)06197096	LD Hedge Associates LLC	Commercial	None	1	SEWER	1
)07394708	Fissinger, Matthew	Commercial	None	1	SEWER	1
)07425268	Snyder, Joseph	Commercial	None	1	SEWER	1
)07461417	Varlotta, Michael	Commercial	None	1	SEWER	1
)07487679	CG Complex LLC	Commercial	None	1	SEWER	1
)07519040	Bristol Road Partners Inc.	Commercial	None	1	SEWER	1
)08908308	Superior Credit Union	Commercial	None	1	SEWER	1
)09217890	Hoff Properties LLC	Commercial	None	1	SEWER	1
)10722804	AMA Realty Properties LLC	Commercial	None	1	SEWER	1
)11184863	Attilio, Thomas	Commercial	None	1	SEWER	1
)12032330	310 Chestnut Street LLC	Commercial	None	1	SEWER	1
)13068080	Branch Banking & Trust Company	Commercial	None	1	SEWER	1
)13286185	White, Elaine & Bruce	Commercial	None	1	SEWER	1
)15089717	C&R Property Management LLC	Commercial	None	1	SEWER	1
)15089748	C&R Property Management LLC	Commercial	None	1	SEWER	1
)15292810	Preston, Aaron	Commercial	None	1	SEWER	1
)16240812	Shalom, Jan	Commercial	None	1	SEWER	1
)16276750	Copenhafer, Fay	Commercial	None	1	SEWER	1
)16612479	Donohue, Patrick R	Commercial	None	1	SEWER	1
)17470098	Lewis Group Ltd Partnership	Commercial	None	1	SEWER	1
)17961983	Qawasmy, John	Commercial	None	1	SEWER	1
)18085592	Christman, Lewis	Commercial	None	1	SEWER	1
)18305104	Tarquini Herrera, Rachel	Commercial	None	1	SEWER	1
)18888302	Florence Attilio Rental Acct.	Commercial	None	1	SEWER	1
)18888319	Attilio, Thomas	Commercial	None	1	SEWER	1
)19364687	Conigliaro, Vito	Commercial	None	1	SEWER	1
)21630875	Chesterview Apartments	Commercial	None	1	SEWER	1
)22621041	Main Street Royersford LLC	Commercial	None	1	SEWER	1
)22621096	Spring Mountain Brewing Co	Commercial	None	1	SEWER	1
)23796115	Kassam, Tashir	Commercial	None	1	SEWER	1
)26295581	JD Arnold LLC	Commercial	None	1	SEWER	1
)26393133	Ostebo, Kurt	Commercial	None	1	SEWER	1
		158				

Report Criteria:
Billing.Service No = 1
Customer.Customer Type = Commercial, Industrial, Residential

Report Criteria:
Billing.Service No = 1
Customer.Customer Type = Industrial, Residential

Cust No	Name	Customer Type	Group Code	Service No	Description	Unit/Share
)28611137	Lewis Group Ltd. Partnership	Industrial	None	1	SEWER	1
)28619292	Giftwares Co Inc	Industrial	None	1	SEWER	1
)28619407	Specialty Chemical Systems Inc	Industrial	None	1	SEWER	1
)28619759	Accumetrics Limited	Industrial	None	1	SEWER	1
)28619773	Accumetrics Limited	Industrial	None	1	SEWER	1
)28620339	Nelson's Ice Cream Inc.	Industrial	None	1	SEWER	1
)28620858	American Machine & Tool Co.	Industrial	None	1	SEWER	1
)29486532	A.C. Miller Concrete Company	Industrial	None	1	SEWER	1
)29651213	Borough of Royersford	Industrial	None	1	SEWER	1
)29709754	Royersford Spring Company	Industrial	None	1	SEWER	1
)29784885	Advanced Fluid Systems Inc	Industrial	None	1	SEWER	1
		11				

Cust No	Name	Customer Type	Group Code	Service No	Description	Unit/Share
)25581487	Sakal, Brian J	Residential	None	1	SEWER	1
)25581852	Barbara Berman Ricci	Residential	None	1	SEWER	1
)25590276	Tallman, William	Residential	None	1	SEWER	1
)25596441	Tarantino, Joseph	Residential	None	1	SEWER	1
)25635087	Benson, Merrill G	Residential	None	1	SEWER	1
)25760044	Blamey, Chad & Katrin	Residential	None	1	SEWER	1
)25762972	Whitmore, Andrew	Residential	None	1	SEWER	1
)25807684	Mecca, Jessica	Residential	None	1	SEWER	1
)25824139	Gerber, Jenna	Residential	None	1	SEWER	1
)25859012	Creciun, Peter	Residential	None	1	SEWER	1
)25869156	Seiders, Lester & Monica	Residential	None	1	SEWER	1
)25879108	Chesterview Apartments	Residential	None	1	SEWER	1
)25930898	US Bank NA	Residential	None	1	SEWER	1
)25948684	Findley, Nicole M	Residential	None	1	SEWER	1
)25987108	Craft, Elena	Residential	None	1	SEWER	1
)26021179	John McDonald & Karlyn Eyre	Residential	None	1	SEWER	1
)26043841	Blanche, Camile	Residential	None	1	SEWER	1
)26160869	Hirst, Sharon A	Residential	None	1	SEWER	1
)26161459	John Marlatt & Rebecca Gardner	Residential	None	1	SEWER	1
)26204967	Niemczuk, Joseph W	Residential	None	1	SEWER	1
)26223333	Weiss, Joseph	Residential	None	1	SEWER	1
)26239376	C&R Property Management LLC	Residential	None	1	SEWER	1
)26300278	Millard, Barry & Sheryl	Residential	None	1	SEWER	1
)26310954	Nevin, Sean	Residential	None	1	SEWER	1
)26326843	Davis, Jeff	Residential	None	1	SEWER	1
)26340238	Jacobs, Jamie	Residential	None	1	SEWER	1
)26352002	Slifer, Richard	Residential	None	1	SEWER	1
)26353432	Lynch, Heather	Residential	None	1	SEWER	1
)26380250	Tallman, William	Residential	None	1	SEWER	1
)26381130	Stem, Matt & Heather	Residential	None	1	SEWER	1
)26403078	Petaccio, Andrea	Residential	None	1	SEWER	1
)26630702	O'Donnell, Kaitlyn	Residential	None	1	SEWER	1
)26660253	Ilyas, Asif	Residential	None	1	SEWER	1
)26713911	Hernandez, S & Murphy, M	Residential	None	1	SEWER	1
)26746591	Gieske and Niemann LLC	Residential	None	1	SEWER	1
)26875659	Speck, Erin	Residential	None	1	SEWER	1
)26880804	Raser, Randy	Residential	None	1	SEWER	1
)26909682	Perez, Waldemar & Aracelis	Residential	None	1	SEWER	1
)26969219	Macelwee-Todd, Lisa	Residential	None	1	SEWER	1
		1427				

Report Criteria:
Billing.Service No = 1
Customer.Customer Type = Residential

permitted under Law and the terms of any applicable contract that is a Nonassignable Asset, as agent or subcontractor for Seller, pay, perform and discharge the liabilities and obligations of Seller thereunder from and after the Closing Date, but only to the extent that such liabilities and obligations would be Assumed Liabilities if the applicable consent or approval had been obtained on or before the Closing Date and such Nonassignable Asset had been assigned to Buyer at Closing. To the extent permitted under Law, Seller shall hold in trust for and pay to Buyer promptly upon receipt thereof, such Nonassignable Asset and all income, proceeds and other monies received by Seller with respect to such Nonassignable Asset in connection with the arrangements under this Article II.

(c) If, following the Effective Date and before the Closing, Buyer identifies any contract to which Seller is a party which is not set forth on Schedule 4.15, and Buyer reasonably determines such contract is necessary or useful to the operation of the System, Buyer shall notify Seller of such determination and Seller shall, promptly following receipt of such notice, deliver to Buyer an updated Schedule 4.15 reflecting the addition of such contract, and such contract will be an "Assigned Contract" for all purposes hereunder.

(d) If during the twelve (12) month period following the Closing, Buyer identifies any contract to which Seller was a party as of the Closing and which (i) was not set forth on Schedule 4.15 (as may be updated pursuant to (c)) and (ii) Buyer reasonably believes is necessary or useful to the operation of the System, Seller shall, promptly following Buyer's written request therefor, execute, acknowledge and deliver, or cause to be executed, acknowledged and delivered, such other instruments of conveyance and transfer and other documents, and perform or cause to be performed such further acts, as may be reasonably required to evidence or effectuate, or more fully evidence or effectuate the assignment of such contract to Buyer for no additional consideration, and upon such assignment, such contract is deemed an Assigned Contract for all purposes hereunder.

ARTICLE III.

PURCHASE PRICE

Section 3.01. Purchase Price. The purchase price for the Acquired Assets is Thirteen Million Dollars ($13,000,000) (the "Purchase Price") which Buyer shall pay as follows at Closing:

(a) Buyer shall provide for payment in full of the total amount of Outstanding Indebtedness directly to Seller's obligees on account of the Purchase Price;

(b) Buyer shall pay, subject to any adjustment pursuant to Section 3.01(c), to Seller by wire transfer of immediately available funds the balance of the Purchase Price (remaining after the debt repayment pursuant to Section 3.01(a)) to one or more accounts that Seller designates and provides to Buyer at least three (3) Business Days before the Closing Date; and

(c) Final Billing: The Buyer is entitled to all customer billings with respect to sanitary wastewater customers services for the period on or after the Closing Effective Time, and Seller is entitled to all such billings for the period before the Closing Effective Time. The Parties

Report Criteria:
Service.Service number = 10,16
Group Code.Group code = "A","B","C"
Customer.Final bill date = {IS NULL}
Billing.Temporary disconnect date = {IS NULL}
Billing.Final disconnect date = {IS NULL}

Customer Number	Customer Name	Service Address	Customer Type	Units
10				
UP Commercial				
18011257.01	POTTSTOWN 1257 INC	1257 N CHARLOTTE ST	UP Commercial	2
18011277.01	CONIGLIARO, VITO	1277 N CHARLOTTE ST	UP Commercial	1
18011293.01	BURGER KING #4651	1293 N CHARLOTTE ST	UP Commercial	8
24010861.02	DCM PROPERTY INVESTMENTS LLC	861 WILLOW ST	UP Commercial	1
24010929.01	CREATIVE HEALTH SERVICES	929 WILLOW ST	UP Commercial	4
25100799.01	FULTON FINANCIAL CORP	799 STATE ST - FULTON BANK	UP Commercial	1
41020175.02	POTTSTOWN PLAZA ASSOC C/O COTSWOLD GRO	RENT-A-CENTER #50	UP Commercial	2
41020177.02	POTTSTOWN PLAZA ASSOC C/O COTSWOLD GRO	DOLLAR ADVANTAGE	UP Commercial	2
41020178.02	POTTSTOWN PLAZA ASSOC C/O COTSWOLD GRO	RADIO SHACK #60	UP Commercial	2
41021066.01	GEORGE EVANS	1066 FARMINGTON AVE	UP Commercial	1
41021173.01	SHUKOWITSH, STEVEN & JESSICA	1173 FARMINGTON AVE	UP Commercial	1
41021189.01	ARTIM, ROBERT	1189 FARMINGTON AVE	UP Commercial	1
41021320.01	STROGUS, BARRY	1320 FARMINGTON AVE	UP Commercial	1
41021346.01	AMERICAN METAL FINISHERS	1346 FARMINGTON AVE	UP Commercial	1
41021359.02	BOWERS, TODD	1359 FARMINGTON AVE	UP Commercial	1
41021391.01	MCGINNIS, DENNIS	1361 FARMINGTON AVE	UP Commercial	1
41021393.01	SDM INVESTMENTS LLC	1393 FARMINGTON AVE	UP Commercial	1
41021403.01	ARTIMS AUTOMOTIVE INC	1403 FARMINGTON AVE	UP Commercial	2
41021446.02	1446 FARMINGTON AVE LLC	1446 FARMINGTON AVE	UP Commercial	4
41021507.01	RICHARDSON, GLORIA MAUGER & THOMAS	1507 FARMINGTON AVE	UP Commercial	1
41021525.01	YOUNG, SHANE & KATHY	1525 FARMINGTON AVE	UP Commercial	1
41021587.01	BURGYONE, BARRY	1587 FARMINGTON AVE	UP Commercial	1
Total UP Commercial:				
22				40
UP Mixed Use				
20010875.01	SJW PROPERTIES LLC	875 N HANOVER ST -salon & apts	UP Mixed Use	2
20010933.02	MCGONIGLE, MICHAEL	933 N HANOVER ST	UP Mixed Use	2
20010943.01	STRAUSS, PAUL	943 N HANOVER ST	UP Mixed Use	3
20010955.01	BRODI, GERALD & ELAINE	955 N HANOVER ST	UP Mixed Use	11
21070842.01	DAVIDHEISER, ALLEN & BEVERLY	842 FARMINGTON AVE	UP Mixed Use	1
24010940.01	TOLENTINO, ROBERT & ASUNCION	940 WILLOW ST	UP Mixed Use	3
41050013.01	OLOCK, ANDREW	941 N HANOVER ST	UP Mixed Use	4
Total UP Mixed Use:				
7				26
UP Public				
16030233.01	HOLY TRINITY ORTHODOX CHURCH	1256 JUNIPER ST	UP Public	1
20011351.01	POTTSGROVE SCHOOL DISTRICT - ADMIN BLDG	1351 N HANOVER ST - MULTI	UP Public	30
41230093.01	CHURCH OF LATTER - DAY SAINTS	93 MAUGERS MILL RD	UP Public	1
Total UP Public:				
3				32
UP Residential				
10140863.02	MILLS, LUCAS	863 FARMINGTON AVE	UP Residential	1
10140871.01	POLLOCK, ANTHONY FILLMAN & BRENDA	871 FARMINGTON AVE	UP Residential	1

Customer Number	Customer Name	Service Address	Customer Type	Units
42061525.02	HUTELMYER, JULIA & GREG	1525 CLOVERHILL RD	UP Residential	1
42071000.01	HEATH, TERENCE M & CATHERINE	1000 FALLBROOK LN	UP Residential	1
42071002.02	DAVIS, STEPHEN & KATHRYN	1002 FALLBROOK LN	UP Residential	1
42071004.02	GALLINA, GAETANO	1004 FALLBROOK LN	UP Residential	1
42071006.02	LIANG, JIE LIN & XIUYAN	1006 FALLBROOK LN	UP Residential	1
42071007.01	STEELE, CORTNEY & DANIEL	1007 FALLBROOK LN	UP Residential	1
42071008.02	FENOGLIO, CASEY & RICHARD	1008 FALLBROOK LN	UP Residential	1
42071009.02	SHAW, SCOTT & THERESA	1009 FALLBROOK LN	UP Residential	1
42071010.02	JOHNSON, FRANKLIN & KIMBERLY	1010 FALLBROOK LN	UP Residential	1
42071011.01	HUBBARD, ANNA	1011 FALLBROOK LN	UP Residential	1
42071012.02	DIXON, JULIAN & ERICA	1012 FALLBROOK LN	UP Residential	1
42071013.01	HARISH, BIDADI & LAKSHMI	1013 FALLBROOK LN	UP Residential	1
42071014.02	RICHARDSON, KATRINA	1014 FALLBROOK LN	UP Residential	1
42071015.02	DZIUNYCZ, MATTHEW & EMILY	1015 FALLBROOK LN	UP Residential	1
42071016.02	ISHLER, KARI KLAUS & MICHAEL	1016 FALLBROOK LN	UP Residential	1
42071017.03	CONNER IV, SAMUEL	1017 FALLBROOK LN	UP Residential	1
42071018.01	SHORT, CHRISTOPHER & RONNA	1018 FALLBROOK LN	UP Residential	1
42071019.01	MCPHILLIMEY, MARK & ANN KOREEN	1019 FALLBROOK LN	UP Residential	1
42071020.01	MCWILLIAMS, DAVID & LAURI	1020 FALLBROOK LN	UP Residential	1
42071021.01	RIZZETTO, NINA	1021 FALLBROOK LN	UP Residential	1
42071022.02	PASQUAL, MICHAEL & MARIA	1022 FALLBROOK LN	UP Residential	1
42071024.01	COLLINGS, MARK	1024 FALLBROOK LN	UP Residential	1
42071026.01	GAINES, NICOLE	1026 FALLBROOK LN	UP Residential	1
42071028.02	SPRING HILL REALTY	1028 FALLBROOK LN	UP Residential	1
42071030.03	HOUSEAL JR, JOSEPH & CARA	1030 FALLBROOK LN	UP Residential	1
42071032.03	DAILY, ALBERT & REGINA	1032 FALLBROOK LN	UP Residential	1
42071034.01	FELTENBERGER, CHAD & HEATHER	1034 FALLBROOK LN	UP Residential	1
42071036.02	SOLIVAN, GINA & ADRIAN	1036 FALLBROOK LN	UP Residential	1
42071038.03	THAO, DAVID	1038 FALLBROOK LN	UP Residential	1
42071040.01	JORGENSON, TRISHA & ERICK	1040 FALLBROOK LN	UP Residential	1
42071042.01	KROENING, TERRY	1042 FALLBROOK LN	UP Residential	1
42071044.01	SCHURR, JEFFREY KENT	1044 FALLBROOK LN	UP Residential	1
42071045.01	PURKAYASTHA, DEBASHISH & SUDDATTA	1045 FALLBROOK LN	UP Residential	1
42071046.03	WILLIS, FRANK & FAITH	1046 FALLBROOK LN	UP Residential	1
42071047.02	CONG, MY	1047 FALLBROOK LN	UP Residential	1
42071048.01	HAINES, LARRY & DONNA	1048 FALLBROOK LN	UP Residential	1
42071050.02	MIDDLETON, JAMES	1050 FALLBROOK LN	UP Residential	1
42071052.01	SEMETER, DANIEL	1052 FALLBROOK LN	UP Residential	1
42071513.04	ROMANO, DANIEL & SARA	1513 CLOVER HILL RD	UP Residential	1
42081600.02	GOMEZ, ODETTE	1600 APPLEGATE LN	UP Residential	1
42081601.01	RODRIGUEZ, RUTH & JUAN	1601 APPLEGATE LN	UP Residential	1
42081602.02	EGARIAN, CHRISTOPHER	1602 APPLEGATE LN	UP Residential	1
42081604.01	LAWLOR, CARL & LORETTA	1604 APPLEGATE LN	UP Residential	1
42081606.01	COHEN, SIDNEY & RUTH	1606 APPLEGATE LN	UP Residential	1
42081608.01	ROCHA, WILL & CARMEN	1608 APPLEGATE LN	UP Residential	1
42081609.01	EVANS, GARETH	1609 APPLEGATE LN	UP Residential	1
42081610.01	DUNKEL, CAROL	1610 APPLEGATE LN	UP Residential	1
42081611.02	SORG, GREGORY & TRICIA	1611 APPLEGATE LN	UP Residential	1
42081612.01	MANCINI, MICHAEL & AMIE	1612 APPLEGATE LN	UP Residential	1
42091501.02	HULL, KEVIN & AMY	1501 MAYWOOD LN	UP Residential	1
42091503.02	EPSTEIN, CARL & LINDA	1503 MAYWOOD LN	UP Residential	1
410512005.01	CUTLER, ROBERT & ELIZABETH	2005 PROUT FARM RD	UP Residential	
4102152012.01	SCHAEFFER, JACK & AUDREY	1520 FARMINGTON AVE	UP Residential	1
4152006901.01	BUCK, WILLIAM	69 MICKLITZ DR	UP Residential	1
Total UP Residential: 1,390				1429

Customer Number	Customer Name	Service Address	Customer Type	Units
Total 10:				
1,422				1527
16				
UP Commercial				
10140882.01	DICKENSON, CHARLES	882 FARMINGTON AVE	UP Commercial	2
10140902.01	CMD SERVICES INC	902 FARMINGTON AVE	UP Commercial	3
18011263.02	H & E PALERMO REAL ESTATE	1263 N CHARLOTTE ST	UP Commercial	2
20010863.01	SJW PROPERTIES LLC	871 N HANOVER ST -comm.bldg	UP Commercial	6
41020179.01	APPLEBEES RESTAURANT - ROSE CAS DIN LP	815 STATE ST	UP Commercial	30
41021495.01	KIM, JONG Y & YUN K	1495 FARMINGTON AVE	UP Commercial	3
Total UP Commercial:				
6				46
Total 16:				
6				46
Grand Totals:				
1,428				1573

Report Criteria:
Service.Service number = 10,16
Group Code.Group code = "A","B","C"
Customer.Final bill date = {IS NULL}
Billing.Temporary disconnect date = {IS NULL}
Billing.Final disconnect date = {IS NULL}

https://www.pottsmerc.com/news/upper-pottsgrove-votes-4-1-to-sell-sewer-system-for-13-7m/article_f8f493d8-8408-11ea-8425-07388a90f968.html

FEATURED

Upper Pottsgrove votes 4-1 to sell sewer system for $13.7M

Evan Brandt ebrandt@21st-centurymedia.com @PottstownNews on Twitter
Apr 22, 2020



Upper Pottsgrove Township Commissioner Martin Schreiber, framed in yellow, outlines his objections to the sale of the township's sewer collection system during Monday's online meeting.

Photo from Screenshot

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UPPER POTTSGROVE — Township Commissioners voted 4-1 Monday night to sell the township's sewer collection system for $13.75 million to Pennsylvania American Water.

Commissioners Martin Schreiber cast the lone vote against the sale.

As The Mercury reported on April 8, the presentation provided at four online informational sessions earlier in the month forecast that sewer rates would drop by about 9.6 percent under Pennsylvania American Water ownership.

However, the decrease — from the current $71.87 per month to $65 per month — would be short-lived, according to Bernie Grundusky, senior director for business development for the water company.

A chart he shared as part of the online meetings showed rates would return to the current rate in three or four years after the sale, and then increase annually by an average of 4.5 to 5.2 percent.

By comparison, the township's sewer rates, which have increased in a more haphazard fashion, average out to between 4.6 to 6 percent a year, according to the presentation.

Now that the sale has been approved, the average homeowner will save $1,260 between the time rates were dropped to when they return to their current level, according to the presentation.

The deal must still be approved by the Pennsylvania Public Utility Commission, a process that could take longer than a year to be finalized.

As a result of the vote, PFM Financial Advisors LLC will be paid more than $250,000.

As noted by Commissioners' Chairman Trace Slinkerd, who, prior to the vote, praised the consultants for taking a risk, if the commissioners had voted against the sale, PFM would have been paid only its $7,500 fee for preliminary work.

Scott Shearer, managing director of PFM, insisted during Monday's meeting that the firm "did not make a recommendation. We're not trying to sell this system."

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During the four public information sessions the township staged online, not one negative aspect of the sale was identified. Township Manager Michelle Reddick said the presentations were put together by PFM and the staff.

During those meetings, Slinkerd restricted all interaction to questions from residents, which were mostly answered by the consultants or township staff. He said public comments would be accepted at the April 20 meeting.

When that happened Monday night, the online meeting was attended by more than 50 people.

Eight residents spoke. All but one asked the commissioners to vote against the sale or, even more frequently, delay the vote until next month or later.

Many cited the fact that the Pennsylvania American Water's bid does not expire until June 30, and there is still time to answer residents' questions.

Don Read, a former member of the Pottstown Borough Authority and a current member of the township's sewer committee, was the only person to speak fully in favor of the sale.

As he did at the April 16 meeting, Read said the best reason to sell the system is the risk inherent in running it.

He said the potential capital costs of problems with sewer lines and pump stations, as well as capital costs imposed by the Pottstown Borough Authority, which runs the plant that receives and treats Upper Pottsgrove's sewage, are too big a financial risk for a four-person staff.

"The price is on the high side of what we projected," he said of the winning bid. The other bidder was Aqua America.

"What's another month going to do? It's frustrating to watch people come in at the last hour and ask for a delay," said Read.

He was referring, presumably, to other speakers who said they were unaware of the potential sale of the system until they received a township letter in the mail, a letter which arrived after the first two public information sessions had already occurred.

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"I am imploring you all to take an opportunity to table the vote until the May 20 meeting," said Turnberry Farms resident Stephanie Rowe.

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"This is beneficial in several ways, the first being it allows all residents to be able to digest and question this decision that seems to be on a fast track for a reason that has not been satisfied by any of the presentations that you allowed to happen with little or no response from the board — almost every question was deferred to either PFM or PA American Water," Rowe said.

Darryle Tillman, who appeared in scrubs while caring "for 104 patients, one third to one half of which have COVID-19," also urged a delay.

"This plan has its good points and its bad points, but it is ridiculous to do this in a Zoom meeting in the middle of a pandemic," he said in reference to the on-line platform used for the meeting.

Al Leach, who is also the vice president of the Pottsgrove School Board, also urged a pause.

"I'm sure you've all done your due diligence, but a lot of residents are just finding out about this and would like to see if they can get more involved," Leach said.

"There are a lot of questions that need to get answered, like how the board intends to spend the proceeds, and the open space question," he said.

Although the presentation has identified the proceeds as paying down the sewer system debt; making the pension system whole and paying off general fund and road fund debt, two other proposed uses have raised questions.

One is paying off debt undertaken by the open space fund, which is paid off with a voter-approved earned income tax; and infrastructure improvements to the police station and township offices in the firehouse.

No specific plan for those improvements has been presented as part of the sewer system sale proposal, said resident Doug Kern.

"We have no access to the paperwork, no ability to examine this ourselves," said Kern, who said he did not find out about the proposal until two of the public information sessions had already passed.

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"All I have is a bunch of slides, which changed after almost every meeting, and a lot of 'take-my-word-for-it-answers. It sounds like you have a 90-day window to make a decision," said Kern, urging a delay or a no vote.

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Dustin Schreiber said his research indicates American Water, the parent company of the high bidder, "is owned by a German conglomerate called RFWAG. I'd prefer we support an American company if we sell, and I'm not convinced we should sell."

Hanover Drive resident Keith Plumadore said he sees the sale as a short-term fix for the township's finances. "It's a temporary reprieve from amateur fiscal management. The township did a good job with the (request for proposals) but I see no evidence the township will execute and bring better fiscal governance with the proceeds."

"When I moved here in 2000, the commissioners and the people all worked together," said Leach. "I implore you to at least consider the idea of tabling this motion, It would be so easy to delay this vote so we can get all our ducks in a row and demonstrate transparency we always used to have in this community."

Slinkerd closed public comment and then called on Schreiber to outline the objections he has been posting on his Facebook page and the Turnberry Farms Facebook page.

However, as Schreiber spoke, Slinkerd repeatedly interrupted him, talked over him and told him his points were not relevant to the subject at hand.

"The sewer customers paid for the sewer, if they were stockholders, they should be getting a bonus check, they're getting the short end of the stick," said Schreiber.

"What about people who pay school taxes but don't have any children in the system," Slinkerd interjected. "Should they not be taxed?"

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The areas in green on this map of Upper Pottsgrove show the areas served by the township sewer system.

Official township sewer map

"Everyone has a chance to send to send students to school," Schreiber replied. "What about open space, Martin?" Slinkerd interrupted again. "That's paid with earned income tax, but seniors don't pay that. Should we put signs up telling them they can't use the open space?" Slinkerd asked.

"We taxed ourselves for that," Schreiber started to reply and Slinkerd pressed on. "We don't separate our residents into septic or sewer residents. Are you saying that's the way we should go?"

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As Schreiber tried to raise further points, Slinkerd continued to interrupt him. "That's what you've been doing, going down this rabbit hole trying to dislodge what we're talking about," Slinkerd said.

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"You keep trying to throw things at the wall at the 11th hour to see what sticks to make it seem like you did research," he continued. "You've had a year to think about this stuff."

"Are you going to let me finish?" Schreiber finally asked. "I never stopped you," Slinkerd replied, finally allowing Schreiber to speak uninterrupted.

The other commissioners, Dave Waldt, Cathy Paretti and Renee Spaide all were permitted to speak uninterrupted, except when Schrieber spoke, thinking Paretti was finished with her point.

He apologized for interrupting her and urged her to go on.

The other commissioners joined in disputing Schreiber's points.

Spaide, who has served on the board for many years with Schreiber, read from a prepared statement that noted, in part, "all the commissioners have been involved."

She said she agrees with Read that running the sewer system is a risk. "We have a road crew, not a sewer crew and Pennsylvania American Water does this for a living," said Spaide.

Waldt said he and Paretti "ran on concern about the township's finances. People were very unhappy." He disputed Schreiber's characterization that he was left out of discussions. "We've spent hours on the budget and I never see you. You never participate," said Waldt.

"Dave and I started to get to get acquainted with this while we were running," said Paretti. "We don't have any business running a sewer business. If we keep it, our taxes would rise and the rates would be higher than if we didn't own it."

She added, "I don't wait to be invited into things, I ask for the information I need."

When Schreiber tried to point out he had asked Reddick for information and it took two days to get an answer, the other commissioners leaped to her defense. "Michelle has a lot on her plate," said Paretti.

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"Michelle has done an outstanding job," said Slinkerd.

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Paretti pointec out that while people last night were complaining about having the meeting over Zoom, it had more participants than most in-person township meetings.

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"It's great to see so many people participate. This is not as many as we get at regular meetings. I've had people tell me they like this better," said Paretti. "You're never going to make everyone happy."

But even in a pandemic, "the one thing that can't stop is your government," Paretti said.

After the vote, Slinkerd said the next steps would be discussed at a future meeting.

This article first appeared as a post in The Digital Notebook blog.

> "All I have is a bunch of slides, which changed after almost every meeting, and a lot of 'take-my-word-for-it-answers."
>
> — Doug Kern, Upper Pottsgrove resident

> "This plan has its good points and its bad points, but it is ridiculous to do this in a Zoom meeting in the middle of a pandemic."
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> "What's another month going to do? It's frustrating to watch people come in at the last hour and ask for a delay."
>
> — Don Read, Upper Pottsgrove Sewer Committee

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> — Stephanie Rowe, Upper Pottsgrove resident

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>
> — Trace Slinkerd, Upper Pottsgrove Commissioners chairman

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Evan Brandt has been a staff reporter for The Mercury for more than 20 years. He covers municipal, school district, political, state government, federal government and environmental news.

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Va Township

Bill ID: 20-3-30 Bill Date: 03/30/2020 Due Date: 04/30/2020

Service	Charge	Rate	Current Charge	Prior Due	Total Billed	w\Penalty

Billing Summary By Class

Class	# of Units	# of Accounts	Consumption charges	Fixed charges	Special charges	Unit charges	Taxes	Prior Due	Total	Consumption
CH	0.00	6	$1,903.57	$0.00	$0.00	$0.00	$0.00	$588.17	$2,491.74	0.00
COM	0.00	119	$57,834.48	$0.00	$0.00	$0.00	$0.00	$4,543.43	$62,377.91	1,636.00
DAY	0.00	2	$2,006.87	$0.00	$0.00	$0.00	$0.00	$0.00	$2,006.87	0.00
IND	0.00	13	$11,785.09	$0.00	$0.00	$0.00	$0.00	-$967.10	$10,817.99	27.00
MH	0.00	4	$1,087.76	$0.00	$0.00	$0.00	$0.00	$1,003.61	$2,091.37	0.00
RES	1.00	3,022	$943,941.94	$0.00	$0.00	$0.00	$0.00	$224,214.75	$1,168,156.69	31,458.00
SCH	0.00	3	$4,074.10	$0.00	$0.00	$0.00	$0.00	$0.00	$4,074.10	338.00
Grand Totals	1.00		$1,022,633.81	$0.00	$0.00	$0.00	$0.00	$229,382.86	$1,252,016.67	33,459.00

	Metered Sewer	Sewer	Trash	Water	Total
CH	0.00 0 $0.00 0.00	0.00 6 $1463.00 0.00	0.00 6 $440.57 0.00	0.00 0 $0.00 0.00	0.00 6 $1903.57 0.00
COM	0.00 26 $9447.60 555.00	0.00 90 $41339.82 526.00	0.00 17 $1258.76 0.00	0.00 27 $5788.30 555.00	0.00 119 $57834.48 1,636.00
DAY	0.00 0 $0.00 0.00	0.00 2 $1881.00 0.00	0.00 1 $125.87 0.00	0.00 0 $0.00 0.00	0.00 2 $2006.87 0.00
IND	0.00 0 $0.00 0.00	0.00 12 $11495.00 0.00	0.00 1 $62.94 0.00	0.00 1 $227.15 27.00	0.00 13 $11785.09 27.00
MH	0.00 0 $0.00 0.00	0.00 4 $836.00 0.00	0.00 4 $251.76 0.00	0.00 0 $0.00 0.00	0.00 4 $1087.76 0.00

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EXHIBIT 23

Valley Township

Bill ID: 20-3-30 Bill Date: 03/30/2020 Due Date: 04/30/2020

Service	Charge	Rate	Current Charge	Prior Due	Total Billed	w\Penalty

	Metered Sewer	Sewer	Trash	Water	Total
RES	0.00 1,638 $326585.47 15,718.00	0.00 1,344 $274835.00 0.00	1.00 2,741 $178743.69 0.00	0.00 1,641 $163777.78 15,740.00	1.00 3,022 $943941.94 31,458.00
SCH	0.00 2 $2026.80 169.00	0.00 1 $627.00 0.00	0.00 0 $0.00 0.00	0.00 2 $1420.30 169.00	0.00 3 $4074.10 338.00
Total	0.00 1,666 $338059.87 16,442.00	0.00 1,459 $332476.82 526.00	1.00 2,770 $180883.59 0.00	0.00 1,671 $171213.53 16,491.00	1.00 3,169 $1022633.81 33,459.00

Billing Summary By District

District	Accounts	Consumption charges	Fixed charges	Special charges	Unit charges	Total Taxes	Prior Due	Total	Consumption
	98	$31,793.07	$0.00	$0.00	$0.00	$0.00	$7,493.77	$39,286.84	1,308.00
01	227	$89,098.00	$0.00	$0.00	$0.00	$0.00	$11,780.00	$100,878.00	5,375.00
02	180	$66,337.00	$0.00	$0.00	$0.00	$0.00	$7,045.26	$73,382.26	3,734.00
03	373	$140,804.30	$0.00	$0.00	$0.00	$0.00	$12,388.59	$153,192.89	8,152.00
04	128	$45,371.52	$0.00	$0.00	$0.00	$0.00	$3,462.92	$48,834.44	2,402.00
05	79	$29,618.51	$0.00	$0.00	$0.00	$0.00	$1,527.02	$31,145.53	1,676.00
06	507	$168,878.38	$0.00	$0.00	$0.00	$0.00	-$1,009.62	$167,868.76	7,332.00
A	522	$156,120.45	$0.00	$0.00	$0.00	$0.00	$53,216.98	$209,337.43	1,346.00
B	662	$191,212.44	$0.00	$0.00	$0.00	$0.00	$96,144.83	$287,357.27	1,172.00
C	364	$92,570.36	$0.00	$0.00	$0.00	$0.00	$36,930.04	$129,500.40	436.00
EF	9	$3,446.52	$0.00	$0.00	$0.00	$0.00	$91.36	$3,537.88	218.00
WC	20	$7,383.26	$0.00	$0.00	$0.00	$0.00	$311.71	$7,694.97	308.00
Grand Totals		$1,022,633.81	$0.00	$0.00	$0.00	$0.00	$229,382.86	$1,252,016.67	33,459.00

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(b) Until such time as a Nonassignable Asset is transferred to Buyer pursuant to this Article II, Buyer and Seller shall cooperate in any commercially reasonable and economically feasible arrangements (such as subleasing, sublicensing or subcontracting) to provide to the Parties the economic and, to the extent permitted under Law, operational equivalent of the transfer of such Nonassignable Asset to Buyer at the Closing and the performance by Buyer of its obligations with respect thereto, and so long as Seller transfers and turns over all economic and beneficial rights with respect to each such Nonassignable Asset, Buyer shall, to the extent permitted under Law and the terms of any applicable contract that is a Nonassignable Asset, as agent or subcontractor for Seller, pay, perform and discharge the liabilities and obligations of Seller thereunder from and after the Closing Date, but only to the extent that such liabilities and obligations would be Assumed Liabilities if the applicable consent or approval had been obtained on or before the Closing Date and such Nonassignable Asset had been assigned to Buyer at Closing. To the extent permitted under Law, Seller shall hold in trust for and pay to Buyer promptly upon receipt thereof, such Nonassignable Asset and all income, proceeds and other monies received by Seller with respect to such Nonassignable Asset in connection with the arrangements under this Article II.

(c) If, following the Effective Date and before the Closing, Buyer identifies any contract to which Seller is a party which is not set forth on Schedule 4.13, and Buyer reasonably determines such contract is necessary or useful to the operation of the System, Buyer shall notify Seller of such determination and Seller shall, promptly following receipt of such notice, deliver to Buyer an updated Schedule 4.13 reflecting the addition of such contract, and such contract will be an "Assigned Contract" for all purposes hereunder.

(d) If during the twelve (12) month period following the Closing, Buyer identifies any contract to which Seller was a party as of the Closing and which (i) was not set forth on Schedule 4.13 (as may be updated pursuant to (c)) and (ii) Buyer reasonably believes is necessary or useful to the operation of the System, Seller shall, promptly following Buyer's written request therefor, execute, acknowledge and deliver, or cause to be executed, acknowledged and delivered, such other instruments of conveyance and transfer and other documents, and perform or cause to be performed such further acts, as may be reasonably required to evidence or effectuate, or more fully evidence or effectuate the assignment of such contract to Buyer for no additional consideration, and upon such assignment, such contract is deemed an Assigned Contract for all purposes hereunder.

ARTICLE III.

PURCHASE PRICE AND ADDITIONAL PURCHASE PRICE

Section 3.01. Purchase Price.
The purchase price for the Acquired Assets is Thirteen Million Nine Hundred Fifty Thousand Dollars ($13,950,000) (the "Purchase Price") which Buyer shall pay as follows at Closing:

(a) Buyer shall pay, subject to any adjustment pursuant to Section 3.01(b), to Seller by wire transfer of immediately available funds the Purchase Price (remaining after the payments required in Section 3.01(a)) to one or more accounts that Seller designates and provides to Buyer at least three (3) Business Days before the Closing Date; and

Va Township

Bill ID: 20-3-30 Bill Date: 03/30/2020 Due Date: 04/30/2020

Service	Charge	Rate	Current Charge	Prior Due	Total Billed	w\Penalty

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EF	9	$3,446.52	$0.00	$0.00	$0.00	$0.00	$91.36	$3,537.88	218.00
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and beneficial rights with respect to each such Nonassignable Asset, Buyer shall, to the extent permitted under Law and the terms of any applicable contract that is a Nonassignable Asset, as agent or subcontractor for Seller, pay, perform and discharge the liabilities and obligations of Seller thereunder from and after the Closing Date, but only to the extent that such liabilities and obligations would be Assumed Liabilities if the applicable consent or approval had been obtained on or before the Closing Date and such Nonassignable Asset had been assigned to Buyer at Closing. To the extent permitted under Law, Seller shall hold in trust for and pay to Buyer promptly upon receipt thereof, such Nonassignable Asset and all income, proceeds and other monies received by Seller with respect to such Nonassignable Asset in connection with the arrangements under this Article II.

(c) If, following the Effective Date and before the Closing, Buyer identifies any contract to which Seller is a party which is not set forth on Schedule 4.13, and Buyer reasonably determines such contract is necessary or useful to the operation of the System, Buyer shall notify Seller of such determination and Seller shall, promptly following receipt of such notice, deliver to Buyer an updated Schedule 4.13 reflecting the addition of such contract, and such contract will be an "Assigned Contract" for all purposes hereunder.

(d) If during the twelve (12) month period following the Closing, Buyer identifies any contract to which Seller was a party as of the Closing and which (i) was not set forth on Schedule 4.13 (as may be updated pursuant to (c)) and (ii) Buyer reasonably believes is necessary or useful to the operation of the System, Seller shall, promptly following Buyer's written request therefor, execute, acknowledge and deliver, or cause to be executed, acknowledged and delivered, such other instruments of conveyance and transfer and other documents, and perform or cause to be performed such further acts, as may be reasonably required to evidence or effectuate, or more fully evidence or effectuate the assignment of such contract to Buyer for no additional consideration, and upon such assignment, such contract is deemed an Assigned Contract for all purposes hereunder.

ARTICLE III.

PURCHASE PRICE AND ADDITIONAL PURCHASE PRICE

Section 3.01. Purchase Price.

The purchase price for the Acquired Assets is Seven Million Three Hundred Twenty-Five Thousand Dollars ($7,325,000) (the "Purchase Price") which Buyer shall pay as follows at Closing:

(a) Buyer shall pay, subject to any adjustment pursuant to Section 3.01(b) and to release Liens, to Seller by wire transfer of immediately available funds the Purchase Price to one or more accounts that Seller designates and provides to Buyer at least three (3) Business Days before the Closing Date; and

(b) Final Billing: The Buyer is entitled to all customer billings with respect to drinking water customers services for the period on or after the Closing Effective Time, and Seller is entitled to all such billings for the period before the Closing Effective Time. The Parties

respect thereto, and so long as Seller or the City transfers and turns over all economic and beneficial rights with respect to each such Nonassignable Asset, Buyer shall, to the extent permitted under applicable Law and the terms of any applicable contract that constitutes a Nonassignable Asset, as agent or subcontractor for Seller or the City, pay, perform and discharge the Liabilities and obligations of Seller thereunder from and after the Closing Date, but only to the extent that such liabilities and obligations would constitute Assumed Liabilities if the applicable consent or approval had been obtained on or prior to the Closing Date and such Nonassignable Asset had been assigned to Buyer at Closing. To the extent permitted under applicable Law, Seller or the City shall, at Seller's or the City's expense, hold in trust for and pay to Buyer promptly upon receipt thereof, such Nonassignable Asset and all income, proceeds and other monies received by Seller with respect to such Nonassignable Asset in connection with the arrangements under this Article II.

(c) If, following the Effective Date and prior to the Closing, Buyer identifies any contract to which Seller or the City is a party which is not identified on Schedule 4.15 as an Assigned Contract as of the Effective Date, and Buyer reasonably determines such contract is necessary to the operation of the System, Buyer shall give notice of such determination to Seller or the City and Seller or the City shall, promptly following receipt of such notice, deliver to Buyer an updated Schedule 4.15 identifying such contract, and such contract shall thereafter constitute and be deemed an Assigned Contract for all purposes hereunder.

(d) In the event that, during the twelve (12) month period following the Closing, Buyer identifies any contract to which Seller or the City was a party as of the Closing and which (i) was not set forth on or properly identified on Schedule 4.15 (as may be updated pursuant to (c)) and (ii) Buyer reasonably believes is necessary to the operation of the System, Seller or the City shall, promptly following Buyer's written request therefor, execute, acknowledge and deliver, or cause to be executed, acknowledged and delivered, such other instruments of conveyance and transfer and other documents, and perform or cause to be performed such further acts, as may be reasonably required to evidence or effectuate, or more fully evidence or effectuate the assignment of such contract to Buyer for no additional consideration, and upon such assignment, such contract shall be deemed an Assigned Contract for all purposes hereunder.

ARTICLE III.

PURCHASE PRICE

Section 3.01 Purchase Price; Agreement Proposal Security.

(a) **Purchase Price for the Assets; Adjustment for City Deposit.** Subject to the terms and conditions of this Agreement, the purchase price ("**Purchase Price**") for the Acquired Assets shall be (i) $235,000,000, *plus* (ii) the Average Daily AR Payment. The Purchase Price shall be delivered as follows:

(i) Within 60 days of the Effective Date, Buyer shall deposit Twenty Million Dollars ($20,000,000) of the Purchase Price, payable to the City in immediately available funds ("**City Deposit**"), subject to Sections 4.03, 6.06, 9.05 and 13.02 and secured by the City with a tax and revenue anticipation note (the "**Deposit Note**") substantially in the form attached hereto as Exhibit A; and

Application of Pennsylvania-American Water Company for the Acquisition of the Wastewater Collection and Treatment System Owned by the York City Sewer Authority (the "Authority") and Operated by the City of York (the "City") (collectively "York")

66 Pa. C.S. § 1329
Application Filing Checklist – Water/Wastewater
Docket No. A-2021-3024681

17. Customers.

a. State the seller's actual number of customers by class and quantify the related consumption or gallons treated in the current calendar year and future number of connections anticipated for the next 10 years.

RESPONSE:

a. As of April 2021, York provided direct wastewater service to approximately 13,747 customers and seven bulk customers:

1. Manchester Township
2. West Manchester Township
3. York Township
4. North York Borough
5. The York Water Company (owner of the West York Borough Collection System)
6. Spring Garden Township
7. Springettsbury Township

The York does not differentiate by customer class.

Consumption (annual):

Based on 2020 monthly average flow data from the 2020 Chapter 94 Report, the annual gallon treated is 3,341,575,000 gallons, inclusive of the seven bulk customers' sewage.

Please refer to **Appendix A-20-c,** Chapter 94 Report for future EDU projections.

Appendix A-17-a

	York, PA Data & Demographics (As of July 1, 2020)	*Township Of Manchester Data & Demographics (As of July 1, 2020)*	*North York, PA Data & Demographics (As of July 1, 2020)*	*Township Of Spring Garden Data & Demographics (As of July 1, 2020)*	*Township Of West Manchester Data & Demographics (As of July 1, 2020)*	*West York, PA Data & Demographics (As of July 1, 2020)*	*Township Of York Data & Demographics (As of July 1, 2020)*
POPULATION							
Total Population	45,431 (100%)	19,023	2,123 (100%)	13,128	19,211	4,888 (100%)	29,228
Population in Households	44,277 (97.5%)	18,887	2,105 (99.2%)	11,033	18,869	4,888 (100.0%)	28,964
Population in Families	32,103 (70.7%)	16,281	1,537 (72.4%)	9,141	15,010	3,513 (71.9%)	23,148
Population in Group Quarters[1]	1,154 (2.5%)	136	18 (0.8%)	2,095	342	0	264
Population Density	8,583	1,198	6,961	1,941	963	9,307	1,158
Diversity Index[2]	85	39	61	30	31	57	31
INCOME							
Median Household Income	$31,354	$81,734	$43,955	$82,974	$61,253	$44,169	$68,134
Average Household Income	$43,670	$106,345	$55,262	$121,726	$76,342	$55,513	$92,430
% of Income for Mortgage[4]	11%	11%	9%	9%	12%	10%	13%
Per Capita Income	$16,097	$39,859	$21,861	$42,029	$32,321	$22,952	$39,265
Wealth Index[5]	31	139	40	190	80	40	119
HOUSING							
Total HU (Housing Units)	19,268 (100%)	7,413 (100%)	918 (100%)	4,777 (100%)	8,555 (100%)	2,143 (100%)	12,937 (100%)
Owner Occupied HU	6,444 (33.4%)	6,219 (83.9%)	438 (47.7%)	3,903 (81.7%)	6,214 (72.6%)	1,084 (50.6%)	8,495 (65.7%)
Renter Occupied HU	10,244 (53.2%)	909 (12.3%)	402 (43.8%)	605 (12.7%)	1,908 (22.3%)	937 (43.7%)	3,917 (30.3%)
Vacant Housing Units	2,580 (13.4%)	285 (3.8%)	78 (8.5%)	269 (5.6%)	433 (5.1%)	122 (5.7%)	525 (4.1%)
Median Home Value	$80,655	$208,273	$90,676	$186,383	$172,881	$108,753	$206,026
Average Home Value	$98,157	$236,145	$105,638	$251,006	$199,513	$119,373	$260,636
Housing Affordability Index[3]	159	188	227	204	162	186	147
HOUSEHOLDS							
Total Households	16,688	7,128	840	4,508	8,122	2,021	12,412
Average Household Size	2.65	2.65	2.51	2.45	2.32	2.42	2.33
Family Households	9,494	5,306	490	3,168	5,271	1,134	8,049
Average Family Size	3	3	3	3	3	3	3

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system at an agreed-upon price of $53,000,000.[9] Thereafter, Aqua and the Township agreed to use the process presented in Section 1329 of the Code to determine the FMV of the wastewater system assets and the ratemaking rate base. As required by Section 1329, Aqua and LMT jointly retained the services of Ebert Engineering, Inc., Consulting Engineers (Ebert) to complete the engineering assessment and original cost estimate of the wastewater system (Assessment of Tangible Property). Aqua St. 1 at 20; Application at ¶ 11. Aqua selected Gannett Fleming, and the Township selected AUS, as their respective UVEs to prepare FMV appraisals of the wastewater system. Application at ¶ 53. Gannett Fleming's FMV report concluded that the value of the wastewater system was $55,505,000; AUS' FMV was $54,430,591. Application Exhs. Q and R. Both appraisals were prepared in compliance with the USPAP standards. Application at ¶ 61; Application Exhs. T1 and T2.

In its Application, Aqua proposed a ratemaking rate base of $53,000,000 based on the agreed-to purchase price of $53,000,000. This amount is less than the average of the two UVE appraisals for the wastewater system (($55,505,000 + $54,430,591)/2 = $54,967,796). OCA M.B. at 6; *See* 66 Pa. C.S. § 1329(c)(2).

In addition, Aqua is seeking approval of the APA with LMT. Application Exh. B. The APA requires Aqua to implement rates that are no higher than the Township's rates in effect at closing. Application Exh. B at Section 7.04. The APA also provides that Aqua intends to bill customers on a monthly basis instead of an annual basis. *Id*. Moreover, in accordance with Section 1102 of the Code, Aqua is requesting a Certificate in order to provide wastewater services to the Township customers. Application at ¶ 5. Separate customer notices were sent to the Township customers and

[9] All assets are located in the Township except for a portion of a main that collects wastewater from a small segment of residents in Yardley Borough. The main is located on University Blvd. and is owned by LMT which loops into, then out of, Yardley Borough. The residents in Yardley Borough that are connected to this main are billed by Yardley Borough. Application at 3.

adopted without comment unless they are either expressly or by necessary implication rejected or modified by this Opinion and Order.

As we proceed in our review of the various positions of the Parties in this proceeding, we are reminded that the Commission is not required to consider expressly or at length each contention or argument raised by the parties. *Consolidated Rail Corp. v. Pa. PUC*, 625 A.2d 741 (Pa. Cmwlth. 1993); *also see, generally, University of Pennsylvania v. Pa. PUC*, 485 A.2d 1217 (Pa. Cmwlth. 1984). Exceptions that we do not specifically address shall be deemed to have been duly considered and denied without further discussion.

III. Transaction Overview

Aqua is a certificated provider of wastewater service, duly organized and existing under the laws of the Commonwealth of Pennsylvania. Aqua provides wastewater service to approximately 45,000 customer accounts in various counties throughout Pennsylvania including parts of Bucks County. Application at ¶ 7.

LMT owns a sanitary wastewater collection system operated by the Municipal Sewer Authority of the Township of Lower Makefield, which provides direct wastewater service to 11,151 customers in the Township. Application at ¶ 8; Aqua St. 2 at 10. LMT does not own a wastewater treatment plant. Wastewater treatment is mainly provided by the Municipal Authority of the Borough of Morrisville and also by Yardley Borough Sewer Authority. Application at ¶ 15.

On September 17, 2020, Aqua and LMT entered into an APA for the sale of substantially all of the assets, properties, and rights related to the Township's wastewater

Township Of Lower Makefield Data & Demographics (As of July 1, 2020)

POPULATION

Total Population	33,219 (100%)
Population in Households	33,004 (99.4%)
Population in Families	29,270 (88.1%)
Population in Group Quarters[1]	215 (0.6%)
Population Density	1,859
Diversity Index[2]	31

INCOME

Median Household Income	$150,466
Average Household Income	$195,168
% of Income for Mortgage[4]	13%
Per Capita Income	$72,302
Wealth Index[5]	302

HOUSING

Total HU (Housing Units)	12,638 (100%)
Owner Occupied HU	10,628 (84.1%)
Renter Occupied HU	1,677 (13.3%)
Vacant Housing Units	333 (2.6%)
Median Home Value	$464,690
Average Home Value	$496,307
Housing Affordability Index[3]	153

HOUSEHOLDS

Total Households	12,305
Average Household Size	2.68
Family Households	9,462
Average Family Size	3

On the Effective Date, Buyer shall provide a Letter of Credit in the amount of Three Million Dollars ($3,000,000) issued by PNC Bank in favor of Seller (the "Letter of Credit"), substantially in the form attached hereto as **Exhibit C**.

Section 3.02 **Escrow Amounts.**

At Closing, two escrows will be established:

(a) First, Nine Million Two Hundred Thousand Dollars ($9,200,000) of the Purchase Price shall be deposited in escrow (the "Indemnity Escrow Fund") with the Escrow Agent pursuant to an escrow agreement in the form of **Exhibit B-1**, by and among the Seller, the Buyer, and the Escrow Agent (the "Indemnity Escrow Agreement") to provide for Seller's post-Closing obligations pursuant to Article VIII. The Indemnity Escrow Fund shall be released in accordance with the Indemnity Escrow Agreement. After the Closing Date and notwithstanding any other provision of this Agreement, the Indemnity Escrow Fund is Buyer's sole recourse with respect to providing for Seller's post-Closing obligations pursuant to Article VIII.

(b) Second, an amount to be determined according to Section 6.05(d) to be credited at Closing against the Purchase Price shall be deposited in escrow (the "Easement Escrow Fund") with the Escrow Agent pursuant to an escrow agreement in the form of **Exhibit B-2**, by and among the Seller, the Buyer, and the Escrow Agent (the "Easement Escrow Agreement") to provide for any amounts determined in accordance with Section 6.05(d). The Easement Escrow Fund shall be released in accordance with the Easement Escrow Agreement. After the Closing Date and notwithstanding any other provision of this Agreement, the Easement Escrow Fund is Buyer's sole recourse with respect to Seller's obligations pursuant to Section 6.05(d). The Easement Escrow Agreement together with the Indemnity Escrow Agreement shall hereinafter sometimes be collectively referred to as the "Escrow Agreements".

Section 3.03. **Purchase Price and Adjustments to Purchase Price**

The purchase price for the Acquired Assets shall be Two Hundred Thirty-One Million Five Hundred Thousand Dollars ($231,500,000) (the "Purchase Price"). The Purchase Price shall be adjusted as follows:

(a) Final Billing: The Buyer is entitled to all customer billings with respect to sanitary wastewater customers services for the period on or after the Closing Effective Time, and the Seller is entitled to all such billings prior to the Closing Effective Time. The Parties shall cooperate to calculate an agreed upon proration of billing amounts and to credit the Purchase Price for the appropriate Party on the Closing Date. To the extent that either Party collects billings that are attributable to service provided by the other Party, the Party holding the other Party's billing collections shall pay such amount to the other Party.

Section 3.04. **Payment of Purchase Price**

The Purchase Price shall be paid by wire transfer of immediately available funds as follows at Closing:

Walker, Harold, III

From: Duane McKee <dmckee@basapa.org>
Sent: Friday, January 27, 2023 10:54 AM
To: Walker, Harold, III; Melillo, Sydney; Wyatt, Thomas
Cc: Olesh, Matthew; Norcross, Nicole
Subject: RE: BASA

[EXTERNAL EMAIL]: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I received this information from PAWC on Monday. The revised Act 537 plan being prepared by PAWC lists 23,211 EDU's.

Thanks for your patience while I confirmed. If you need anything else, please let me know.

Customer count:
Total active customers = 14,699
Residential = 13,617
Commercial = 915
Industrial = 31
Public = 136
(The total customer list including inactive is 15,497 but we will not be using that number in testimony or the application.)

EDUs: no mention in testimony

System flows: From Dan Hufton's testimony "The plant has a design and permitted average daily flow capacity of 10.0 million gallons per day ("MGD"), a rated maximum flow capacity of 28.0 MGD."

Duane

Duane E. McKee
Executive Director
Butler Area Sewer Authority (BASA)
100 Litman Road
Butler, PA 16001
(p) 724-282-1978 ext. 111, (f) 724-282-7656
dmckee@basapa.org

such notice, deliver to Buyer an updated Schedule 4.15 identifying such contract, and such contract shall thereafter constitute and be deemed an Assigned Contract for all purposes hereunder.

(d) In the event that, during the twelve (12) month period following the Closing Date, Buyer identifies any contract to which the Seller and/or Municipality was a party as of the Closing and which (i) was not set forth on or properly identified on Schedule 4.15 (as may be updated pursuant to (c)) and (ii) Buyer reasonably believes is necessary to the operation of the System, the Seller and/or Municipality shall, promptly following Buyer's written request therefor, execute, acknowledge and deliver, or cause to be executed, acknowledged and delivered, such other instruments of conveyance and transfer and other documents, and perform or cause to be performed such further acts, as may be reasonably required to evidence or effectuate, or more fully evidence or effectuate the assignment of such contract to Buyer for no additional consideration, and upon such assignment, such contract shall be deemed an Assigned Contract for all purposes hereunder.

Section 2.07. **Seller Approval of Agreement**.

(a) The execution of this Agreement by Municipality and Buyer shall constitute a binding agreement between those two Parties, notwithstanding the absence of Seller's execution of this Agreement.

(b) Upon Seller's approval of this Agreement, Seller shall deliver an executed counterpart signature page and shall, within thirty (30) days following such approval by Seller, provide updated Disclosure Schedules with all information required to make such Disclosure Schedules accurate and complete.

(c) Unless and until Seller approves this Agreement, Municipality shall enjoy all of the rights of Seller and Municipality shall be responsible for and discharge all of the obligations of Seller under this Agreement and shall be liable for any breaches of Seller's representations, warranties and covenants hereunder.

ARTICLE III.

PURCHASE PRICE AND ADDITIONAL CONSIDERATION

Section 3.01. **Purchase Price and Additional Consideration**

. The purchase price for the Acquired Assets shall be Twelve Million Dollars ($12,000,000) (the "Purchase Price") which shall be paid as follows at Closing:

(a) Buyer shall provide for the payment in full the total amount of Outstanding Indebtedness on account of the Purchase Price; and

(b) Subject to any adjustment in Purchase Price resulting from the proration procedures set forth in Section 3.01(c), Buyer shall pay to the Seller at Closing by wire transfer of immediately available funds the balance of the Purchase Price to one or more accounts that Seller designates and provides to Buyer at least three (3) Business Days prior to the Closing Date.

Address Type	Customers	Unique EDU's	Usage	Avg. Usage	Billed EDU's	Dollars	Avg. Dollars	Non-Meter Dollars
Commercial	200	322	14,554,000	6,974	3369	197,758.01	94.76	17,118.50
Industrial	5	5	19,125,000	318,750	60	63,051.78	1,050.86	60
Public	39	41	22,861,000	53,917	448	92,992.60	219.32	1,688.48
Residential	2652	2917	95,855,419	8,949	13208	1,506,066.39	140.61	57,287.55
Unknown	3	3	1,242,000	44,357	28	6,054.92	216.25	12
Water Totals	2899	3288	153,637,419		17113	1,865,923.70		76,166.53

Water Usage Detail

Address Type	Account Status	Account #	Account Name	Service House Number	Service Street Name	Service City	Service State	Service Zip
Commercial	Active	20701200-0	CONSTANCE ANCZARSKI	312	S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	20702000-7	FRANCISCO SANTANA TRONCOSO & ROBIN PEREZ	401	-401 1/2 S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	20706900-0	PAUL G JORDAN	343	-341 S WEST,109 W LR	SHENANDOAH	PA	17976
Commercial	Active	20712500-0	JOSEPH ANCZARSKI	313	S FERGUSON ST	SHENANDOAH	PA	17976
Commercial	Active	20712550-0	JOSEPH ANCZARSKI	315	S FERGUSON ST	SHENANDOAH	PA	17976
Commercial	Active	20800100-0	MARITZA PERALTA	22	W CENTRE ST	SHENANDOAH	PA	17976
Commercial	Active	20800300-0	ADOLFO LUNA	30	W CENTRE ST	SHENANDOAH	PA	17976
Commercial	Active	20800500-0	DENISE BRATHWAITE	5	S JARDIN ST, APT 3	SHENANDOAH	PA	17976
Commercial	Active	20800900-0	JENNIFER WAITHE	9	S JARDIN ST	SHENANDOAH	PA	17976
Commercial	Active	20803900-0	VERIZON	221	S JARDIN ST	SHENANDOAH	PA	17976
Commercial	Active	20806600-0	WALUKIEWICZ ORAVITZ	132	S JARDIN ST	SHENANDOAH	PA	17976
Commercial	Active	20807000-1	JESSE GOMEZ	122	S JARDIN ST	SHENANDOAH	PA	17976
Commercial	Active	20807100-0	LEROY KNAPP, JR	120	S JARDIN ST	SHENANDOAH	PA	17976
Commercial	Active	20807300-0	FALGUNI PATEL	114	S JARDIN ST	SHENANDOAH	PA	17976
Commercial	Active	20808500-0	VALERIE REINMILLER	30	S JARDIN ST	SHENANDOAH	PA	17976
Commercial	Active	20809800-0	JAMES VEGHTE	101	-103 W CENTRE ST	SHENANDOAH	PA	17976
Commercial	Active	20810400-0	BEVERLY BLACKWOOD	14	N JARDIN ST	SHENANDOAH	PA	17976
Commercial	Active	20810900-0	STEPHEN TOTH	28	N JARDIN ST	SHENANDOAH	PA	17976
Commercial	Active	20811300-0	ORAVITZ FUNERAL HOME	40	N JARDIN ST	SHENANDOAH	PA	17976
Commercial	Active	20813400-0	JOSE LUIZ PEREZ	108	W COAL ST 1ST FL	SHENANDOAH	PA	17976
Commercial	Active	20821400-0	KATHY BOYLE	208	N MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	20824100-0	HALINA LITTLE	33	N JARDIN ST	SHENANDOAH	PA	17976
Commercial	Active	20900700-0	ANTONIO ZAMUDIO	231	N WEST ST	SHENANDOAH	PA	17976
Commercial	Active	20920300-0	ERIDANIA PEREZ	227	W COAL ST	SHENANDOAH	PA	17976
Commercial	Active	20921500-0	ROGER BETZ	226	W COAL ST	SHENANDOAH	PA	17976
Commercial	Active	21008300-0	GRISELDA M VELEON	218	W OAK ST	SHENANDOAH	PA	17976
Commercial	Active	41104600-0	FRANK MALOCU	609	W WASHINGTON ST	SHENANDOAH	PA	17976
Commercial	Active	41123400-0	FRANK HAIGLER	413	W COAL ST-GARAGE	SHENANDOAH	PA	17976
Commercial	Active	41130550-0	ROBERT SCHLACK	630	W COAL ST	SHENANDOAH	PA	17976
Commercial	Active	41131200-0	JOSE ULLOA	645	W COAL ST	SHENANDOAH	PA	17976
Commercial	Active	41131200-0	JOSE ULLOA	645	W COAL ST	SHENANDOAH	PA	17976
Commercial	Active	41144800-0	GLOVERS HILL ATH CLU	938	W PENN ST	SHENANDOAH	PA	17976
Commercial	Active	41204800-0	HAROLL MEREGILDO	509	W CENTRE ST	SHENANDOAH	PA	17976
Commercial	Active	90100100-0	BRIAN GROSE	23	N FERGUSON ST	SHENANDOAH	PA	17976
Commercial	Active	90100120-0	JAMESTOWN TRUST	34	N FERGUSON ST	SHENANDOAH	PA	17976
Commercial	Active	90100150-0	GROSE CHIROPRACTIC P.C.	24	N MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90100200-0	OMAR VERAS	22	N MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90100500-3	FROILAN & EDELENI FABIAN	21	W OAK ST	SHENANDOAH	PA	17976
Commercial	Active	90100900-2	EDUC ZAMUDIO & FLOR ESTELA GOMEZ	116	S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90101000-0	TURKEY HILL #123	128	-130 S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90101200-0	TOM GWINN	10	-16 W CHERRY ST	SHENANDOAH	PA	17976
Commercial	Active	90101400-0	MICHELE PRYZBILIK	210	S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90101600-0	JOSEPH ANCZARSKI	216	-218 S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90101650-0	JOSEPH ANCZARSKI	226	S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90101700-0	JOSEPH ANCZARSKI	226	S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90102000-0	HANS DEIBEL	316	S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90102100-0	DAVID KARPOVICH	324	S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90102200-0	HAIR DESIGNS BY ROSE	330	S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90102300-0	KOWALONEK'S KIELBASY	332	S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90102800-4	PREETI CORPORATION	415	S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90103000-0	CARROLS LLC #1047	331	S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90103300-0	EDWARD BOKANAVAGE	225	S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90103600-0	GR SHEN HIST SOC	201	S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90104210-0	JOSEPHINE RAINIS	129	S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90104500-0	MICHAEL BRESLOSKY	123	S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90104600-0	THE PIZZA SHOP	121	S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90104700-0	TINA LEWANDOWSKI	119	S MAIN ST, 3 APTS	SHENANDOAH	PA	17976
Commercial	Active	90104800-0	RANDALL J MISKE	117	S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90104900-8	GBU IMPROVEMENTS, LLC	113	S MAIN ST	SHENANDOAH	PA	17976
Commercial	Active	90105800-1	STEPHEN KOVAL	119	E OAK ST	SHENANDOAH	PA	17976

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PART I

Item 1. Business

This annual report on Form 10-K is a combined report being filed by two separate Registrants, American States Water Company ("AWR") and Golden State Water Company ("GSWC"). References in this report to "Registrant" are to AWR and GSWC, collectively, unless otherwise specified. GSWC makes no representations as to the information contained in this report relating to AWR and its subsidiaries, other than GSWC.

AWR makes its periodic reports, Form 10-Q and Form 10-K, and current reports, Form 8-K, and amendments to those reports, available free of charge through its website, www.aswater.com, as soon as those reports are electronically filed with or furnished to the Securities and Exchange Commission ("SEC"). Such reports are also available on the SEC's website at www.sec.gov. AWR also makes available free of charge its code of business conduct and ethics, its corporate governance guidelines, its policy for the recoupment of performance-based compensation, its insider trading policy and the charters of its Nominating and Governance Committee, Compensation Committee and Audit and Finance Committee through its website or by calling (877) 463-6297.

Overview

AWR is the parent company of GSWC, Bear Valley Electric Service, Inc. ("BVES") and American States Utility Services, Inc. ("ASUS") (and its wholly-owned subsidiaries: Fort Bliss Water Services Company ("FBWS"), Old Dominion Utility Services, Inc. ("ODUS"), Terrapin Utility Services, Inc. ("TUS"), Palmetto State Utility Services, Inc. ("PSUS"), Old North Utility Services, Inc. ("ONUS"), Emerald Coast Utility Services, Inc. ("ECUS"), Fort Riley Utility Services, Inc. ("FRUS"), Bay State Utility Services LLC ("BSUS"), and Patuxent River Utility Services LLC ("PRUS")).

AWR has three reportable segments: water, electric and contracted services. Within the segments, AWR has three principal business units, water and electric service utility operations conducted through its regulated utilities GSWC and BVES, respectively, and contracted services conducted through ASUS and its subsidiaries.

GSWC is a public water utility engaged in the purchase, production, distribution and sale of water in 10 counties in the state of California. GSWC is regulated by the California Public Utilities Commission ("CPUC"). BVES is a public electric utility that distributes electricity in several San Bernardino County mountain communities in California and is also regulated by the CPUC. Additional information regarding public utility regulation is discussed in Item 7. *"Management's Discussion and Analysis of Financial Condition and Results of Operations"* under the section titled *"Regulatory Matters."*

AWR's regulated utilities served 264,093 water customers and 24,777 electric customers at December 31, 2023, or a total of 288,870 customers, compared with 263,265 water customers and 24,705 electric customers at December 31, 2022, or a total of 287,970 customers. Both GSWC's and BVES's operations exhibit seasonal trends. Although both have diversified customer bases, residential and commercial customers account for the majority of water and electric sales and revenues. Revenues derived from commercial and residential customers accounted for approximately 90% of total water and electric revenues for the years ended December 31, 2023, 2022 and 2021.

ASUS, through its subsidiaries, has contracted with the U.S. government to provide water and/or wastewater services at various military installations. ASUS operates, maintains and performs construction activities (including renewal and replacement capital work) on water and/or wastewater systems at various U.S. military bases pursuant to an initial 50-year, firm-fixed-price contract and additional firm-fixed-price contracts, task order agreements and contracts with third party prime contractors. ASUS has one subsidiary that has entered into a task order agreement with the U.S. government that has a term of 15 years. Each of the contracts with the U.S. government is subject to termination, in whole or in part, prior to the end of its term for convenience of the U.S. government or as a result of default or nonperformance by the ASUS subsidiary performing the contract. The price for each of these contracts is subject to annual economic price adjustments or task order adjustments. The contracts are also subject to modifications for changes in circumstances, changes in laws and regulations, and additions to the contract value for new construction of facilities at the military bases. AWR generally guarantees performance of all of the contracts of ASUS's subsidiaries.

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AMERICAN STATES WATER COMPANY AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 1 — Summary of Significant Accounting Policies

Nature of Operations: American States Water Company ("AWR") is the parent company of Golden State Water Company ("GSWC"), Bear Valley Electric Service Inc. ("BVES"), and American States Utility Services, Inc. ("ASUS") (and its subsidiaries, Fort Bliss Water Services Company ("FBWS"), Old Dominion Utility Services, Inc. ("ODUS"), Terrapin Utility Services, Inc. ("TUS"), Palmetto State Utility Services, Inc. ("PSUS"), Old North Utility Services, Inc. ("ONUS"), Emerald Coast Utility Services, Inc. ("ECUS"), Fort Riley Utility Services, Inc. ("FRUS"), Bay State Utility Services LLC ("BSUS"), and Patuxent River Utility Services LLC ("PRUS")). AWR and its subsidiaries may be collectively referred to as "Registrant" or "the Company." AWR, through its wholly owned subsidiaries, serves over one million people in ten states.

GSWC and BVES are both California public utilities. GSWC engages in the purchase, production, distribution and sale of water throughout California serving approximately 264,100 customers connections. BVES distributes electricity in several San Bernardino County mountain communities in California serving approximately 24,800 customers connections. The California Public Utilities Commission ("CPUC") regulates GSWC's and BVES's businesses in matters including properties, rates, services, facilities, and transactions between GSWC, BVES, and their affiliates.

ASUS, through its subsidiaries, operates, maintains and performs construction activities (including renewal and replacement capital work) on water and/or wastewater systems at various U.S. military bases primarily pursuant to initial 50-year, firm-fixed-price contracts with the U.S. government. These contracts are subject to annual economic price adjustments and modifications for changes in circumstances, changes in laws and regulations and additions to the contract value for new construction of facilities at the military bases. ASUS also from time to time performs construction services on military bases as a subcontractor or pursuant to a task order agreement.

On August 15, 2023, ASUS was awarded a new 50-year contract by the U.S. government to operate, maintain, and provide construction management services for the water distribution and wastewater collection and treatment facilities at Naval Air Station Patuxent River, a United States Navy air station located in Maryland. The initial firm-fixed-price value of the contract is estimated at $349 million over a 50-year period and is subject to annual economic price adjustments. This initial value is also subject to adjustment based on the results of a joint inventory of assets to be performed during the transition period and will be finalized during the first year of operations.

On September 29, 2023, ASUS was awarded a new 15-year contract by the U.S. government, that is different than ASUS's other existing 50-year contracts, to operate, maintain, and provide construction management services for the water distribution and wastewater collection and treatment facilities at Joint Base Cape Cod ("JBCC") located in Massachusetts. Under this contract, ASUS will have the opportunity to perform work at JBCC through the periodic issuance of task orders by the U.S. government for up to a maximum initial firm-fixed-price value of $45.0 million over a 15-year period, subject to adjustments as task orders are issued. In September 2023, the first task order was issued with a value of $2.3 million to perform an evaluation, construction and transition services that are scheduled for completion in 2024.

There is no direct regulatory oversight by the CPUC over AWR or the operations, rates or services provided by ASUS or its subsidiaries.

Basis of Presentation: The consolidated financial statements and notes thereto are presented in a combined report filed by two separate Registrants: AWR and GSWC. References in this report to "Registrant" are to AWR and GSWC, collectively, unless otherwise specified. AWR owns all of the outstanding common shares of GSWC, BVES and ASUS. ASUS owns all of the outstanding common shares of its subsidiaries. The consolidated financial statements of AWR include the accounts of AWR and its subsidiaries. These financial statements are prepared in conformity with accounting principles generally accepted in the United States of America. Intercompany transactions and balances have been eliminated in the AWR consolidated financial statements.

Related-Party and Intercompany Transactions: As discussed in Note 9, prior to AWR and GSWC entering into new separate credit agreements on June 28, 2023 that replaced AWR's previous credit agreement, AWR borrowed under its credit facility and provided funds to both GSWC and ASUS in support of their operations. Under AWR's new credit facility, AWR borrows and continues to provide funds to ASUS in support of its operations, through an intercompany borrowing agreement, and AWR (parent). The interest rate charged to ASUS is sufficient to cover AWR's interest expense under the credit facility. GSWC's new credit facility provides support for its water operations. BVES has a separate credit facility and has also issued long-term debt to support its operations.

Furthermore, GSWC, BVES and ASUS provide and/or receive various support services to and from their parent, AWR, and among themselves. GSWC allocates certain corporate office administrative and general costs to its affiliates, BVES and ASUS, using allocation factors approved by the CPUC. During the years ended December 31, 2023, 2022 and 2021, GSWC allocated to ASUS approximately $5.0 million, $5.2 million and $5.3 million, respectively, of corporate office

TEM 1. BUSINESS

The Company

With a history dating back to 1886, American Water is the largest and most geographically diverse, publicly-traded water and wastewater utility company in the United States, as measured by both operating revenues and population served. A holding company originally incorporated in Delaware in 1936, the Company employs approximately 6,500 professionals who provide drinking water, wastewater and other related services to over 14 million people in 24 states. The Company conducts the majority of its business through regulated utilities that provide water and wastewater services, collectively presented as one reportable segment, referred to as the "Regulated Businesses." The Company also operates other businesses that provide water and wastewater services to the U.S. government on military installations, as well as municipalities. Individually, these other businesses do not meet the criteria of a reportable segment in accordance with generally accepted accounting principles in the United States ("GAAP"), and are collectively presented throughout this Annual Report on Form 10-K within "Other," which is consistent with how management assesses the results of these businesses.

Throughout this Annual Report on Form 10-K, unless the context otherwise requires, references to "we," "us," "our," the "Company," and "American Water" mean American Water Works Company, Inc. and its subsidiaries, taken together as a whole. References to "parent company" mean American Water Works Company, Inc., without its subsidiaries.

Regulated Businesses

The Company's primary business involves the ownership of utilities that provide water and wastewater services to residential, commercial, industrial, public authority, fire service and sale for resale customers. The Company's utilities operate in approximately 1,700 communities in 14 states in the United States, with 3.5 million active customers in its water and wastewater networks. Services provided by the Company's utilities are subject to regulation by multiple state utility commissions or other entities engaged in utility regulation, collectively referred to as public utility commissions ("PUCs"). Federal, state and local governments also regulate environmental, health and safety, and water quality and water accountability matters. The Company reports the results of the services provided by its utilities in the Regulated Businesses segment. Operating revenues for the Regulated Businesses were $3,920 million for 2023, $3,505 million for 2022 and $3,384 million for 2021, accounting for 93%, 92% and 86%, respectively, of the Company's total operating revenues for the same periods.

Presented in the table below is a geographic summary of the Regulated Businesses' operating revenues and the number of customers the Company serves, by type of service, for and as of the year ended December 31, 2023:

	Operating Revenues (in millions)			
	Water (a)	Wastewater	Total	% of Total
Pennsylvania	$ 810	$ 155	$ 965	24.6 %
New Jersey	908	57	965	24.6 %
Missouri	430	20	450	11.5 %
Illinois	366	61	427	10.9 %
California	300	4	304	7.8 %
Total—Top Five States (b)	2,814	297	3,111	79.4 %
Other (c)	779	30	809	20.6 %
Total Regulated Businesses	$ 3,593	$ 327	$ 3,920	100.0 %

(a) Includes other operating revenues consisting primarily of miscellaneous utility charges, fees and rents.

(b) The Company's "Top Five States" are determined based upon operating revenues.

(c) Includes the Company's utility operations in the following states: Georgia, Hawaii, Indiana, Iowa, Kentucky, Maryland, Tennessee, Virginia and West Virginia and other revenue attributable collectively to the Regulated Businesses.

Customers

The Company's Regulated Businesses have a large and geographically diverse customer base. A customer is defined as a person, business, municipality or any other entity that purchases the Company's water or wastewater services as of the last business day of a reporting period. One single customer may purchase the Company's services for use by multiple individuals or businesses. Examples of these customers are homes, apartment complexes, businesses and governmental entities.

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NOTE 12 – GEOGRAPHIC CONCENTRATION OF CUSTOMERS

Artesian Water, Artesian Water Maryland and Artesian Water Pennsylvania provide regulated water utility service to customers within their established service territory in all three counties of Delaware and in portions of Maryland and Pennsylvania, pursuant to rates filed with and approved by the DEPSC, the MDPSC and the PAPUC. As of December 31, 2023, Artesian Water was serving approximately 95,900 customers, Artesian Water Maryland was serving approximately 2,600 customers and Artesian Water Pennsylvania was serving approximately 40 customers.

Artesian Wastewater and TESI provide regulated wastewater utility service to customers within their established service territory in Sussex County, Delaware pursuant to rates filed with and approved by the DEPSC. The number of wastewater customers served more than doubled following the acquisition of TESI in January 2022. As of December 31, 2023, Artesian Wastewater and TESI were serving approximately 8,100 customers combined including one large industrial customer.

NOTE 13 – REGULATORY PROCEEDINGS

Our water and wastewater utilities generate operating revenue from customers based on rates that are established by state public service commissions through a rate-setting process that may include public hearings, evidentiary hearings and the submission of evidence and testimony in support of the Company's requested level of rates.

We are subject to regulation by the following state regulatory commissions:

- The DEPSC regulates Artesian Water, Artesian Wastewater, and TESI.
- The MDPSC regulates both Artesian Water Maryland and Artesian Wastewater Maryland.
- The PAPUC regulates Artesian Water Pennsylvania.

Our water and wastewater utility operations are also subject to regulation under the federal Safe Drinking Water Act of 1974, or Safe Drinking Water Act, the Clean Water Act of 1972, or the Clean Water Act, and related state laws, and under federal and state regulations issued under these laws. These laws and regulations establish criteria and standards for drinking water and for wastewater discharges. Capital expenditures and operating costs required as a result of water quality standards and environmental requirements have been traditionally recognized by state regulatory commissions as appropriate for inclusion in establishing rates.

Water and Wastewater Rates

Our regulated subsidiaries periodically seek rate increases to cover the cost of increased operating expenses, increased financing expenses due to additional investments in utility plant and other costs of doing business. In Delaware, utilities are permitted by law to place rates into effect, under bond, on a temporary basis pending completion of a rate increase proceeding. Any DSIC rate in effect will be reset to zero upon implementation of a temporary increase in base rates charged to customers. The first temporary increase may be up to the lesser of $2.5 million on an annual basis or 15% of gross water sales. Should the rate case not be completed within seven months, by law, the utility may put the entire requested rate relief, up to 15% of gross water sales, in effect under bond until a final resolution is ordered and placed into effect. If any such rates are found to be in excess of rates the DEPSC finds to be appropriate, the utility must refund customers the portion found to be in excess with interest. The timing of our rate increase requests is therefore dependent upon the estimated cost of the administrative process in relation to the investments and expenses that we hope to recover through the rate increase. We can provide no assurances that rate increase requests will be approved by applicable regulatory agencies and, if approved, we cannot guarantee that these rate increases will be granted in a timely or sufficient manner to cover the investments and expenses for which we initially sought the rate increase.

Artesian Water filed an initial request with the DEPSC on April 28, 2023, further supplemented with a request filed on November 30, 2023, to implement new rates to meet a requested increase in revenue of 22.66%, or approximately $16.7 million, on an annualized basis. The actual effective increase is less than 22.66% since Artesian Water has been permitted to recover specific investments made in infrastructure through the assessment of a 7.50% DSIC. Since the DSIC rate is set to zero when temporary rates are placed into effect, customers would experience an incremental increase of 15.16%, the net of the overall 22.66% increase less the DSIC rate of 7.50% currently in effect, if the requested increase is granted in full by the DEPSC. The new rates are designed to support Artesian Water's ongoing capital improvement program and to cover increased costs of operations, including chemicals and electricity for water treatment, water quality testing, fuel, taxes, interest, labor and benefits. In accordance with applicable Delaware law, Artesian Water is permitted to implement a temporary base rate increase of 15% of gross water sales on an annual basis or $2.5 million, whichever is lower, 60 days after the application is filed. Since Artesian Water had DSIC surcharges in excess of the allowable temporary increase and imposing the temporary increase would have require DSIC to be reset to zero, Artesian Water elected not to request the initial temporary rate increase. However, since the application was not resolved within the seven-month statutory timeframe, in accordance with applicable Delaware law, Artesian Water is permitted a temporary base rate increase of up to 15% of gross water sales on an annual basis. Artesian Water filed an interim rates application, which was approved, to place into effect on November 28, 2023 a temporary base rate increase of 15% of gross water sales on an annual basis and reducing the 7.5% DSIC rate to zero, with such interim rates subject to refund, until permanent rates are determined by the DEPSC. As of December 31, 2023, no amounts were held in reserve related to the temporary base rate increase. Artesian Water's last comprehensive application for an increase in base rate charges was filed in April 2014.

ABOUT US

Artesian Resources

Artesian Resources began to serve customers in small communities in northern Delaware more than 115 years ago. Our mission then was the same as it is now: to provide the best quality water, environmentally friendly wastewater solutions and the best customer service.

LEARN MORE

Artesian Water Highlights

8.8 billion

gallons of water per year

Providing high quality reliable drinking water and fire protection.

301,000

people served

The oldest and largest regulated water utility on the Delmarva Peninsula

ABOUT US

FEATURED

Read the latest news, releases and thought leadership!

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Overview

California Water Service Group (Company) is a holding company with seven operating subsidiaries: California Water Service Company (Cal Water), New Mexico Water Service Company (New Mexico Water), Washington Water Service Company (Washington Water), Hawaii Water Service Company, Inc. (Hawaii Water), TWSC, Inc. (Texas Water), and CWS Utility Services and HWS Utility Services LLC (CWS Utility Services and HWS Utility Services LLC being referred to collectively in this annual report as Utility Services). Cal Water, New Mexico Water, Washington Water, and Hawaii Water are regulated public utilities. Texas Water is a holding company with regulated and contracted wastewater utilities.

The regulated utility entities also provide some non-regulated services. Utility Services holds non-utility property and provides non-regulated services to private companies and municipalities outside of California (see "Non-Regulated Activities" below for more details). Cal Water was the original operating company that began operations in 1926.

Our business is conducted through our operating subsidiaries and we provide utility services to approximately two million people. The bulk of the business consists of the production, purchase, storage, treatment, testing, distribution, and sale of water for domestic, industrial, public, and irrigation uses, and the provision of domestic and municipal fire protection services. In some areas, we provide wastewater collection and treatment services, including treatment which allows water recycling. We also provide non-regulated water-related services under agreements with municipalities and other private companies. The non-regulated services include full water system operation, meter reading, and billing services. Non-regulated operations also include the lease of communication antenna sites, lab services, and promotion of other non-regulated services.

During the year ended December 31, 2023, there were no significant changes in the kind of products produced or services rendered by our operating subsidiaries, or in the markets or methods of distribution.

Our mailing address and contact information is:

California Water Service Group
1720 North First Street
San Jose, California 95112-4598
Telephone number: 408-367-8200
www.calwatergroup.com

Annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and amendments to these reports are available free of charge through our website at www.calwatergroup.com. The reports are available on our website as soon as reasonably practicable after such reports are filed with the SEC.

The content on any website referred to in this annual report is not incorporated by reference in this annual report unless expressly noted.

Regulated Business

California water operations are conducted by Cal Water, which provides service to approximately 497,700 customer connections in approximately 100 California communities through 21 separate districts, which are subject to regulation by the CPUC. California water operations accounted for approximately 89.5% of our total customer connections and 90.6% of our total consolidated operating revenue in 2023.

We operate the City of Hawthorne and the City of Commerce water systems under lease agreements. In accordance with the lease agreements, we receive all revenues from operating the systems and are responsible for paying the operating costs. The City of Hawthorne and the City of Commerce lease revenues are governed through their respective city councils and are considered non-regulated because they are outside of the CPUC's jurisdiction. We report revenue and expenses for the City of Hawthorne and City of Commerce leases in operating revenue and operating expenses because we are entitled to retain all customer billings and are responsible for all operating expenses. These leases are considered "nontariffed products and services" (NTPS) by the CPUC and require a 10% revenue sharing with regulated customers.

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In October of 2011, an agreement was negotiated with the City of Hawthorne to lease and operate its water system. The system, which is located near the Hermosa Redondo district, serves about half of Hawthorne's population. The capital lease agreement required an up-front $8.1 million lease deposit to the city that is being amortized over the lease term. Additionally, annual lease payments are contracted to be adjusted based on changes in rates charged to customers. Under the lease, we are responsible for all aspects of system operation and capital improvements, although title to the system and system improvements reside with the city. Capital improvements are recorded as depreciable plant and equipment and depreciated per the asset lives set forth in the agreement. In exchange, we receive all revenue from the water system, which was $12.2 million, $12.5 million, and $11.4 million in 2023, 2022, and 2021, respectively. At the end of the lease, the city is required to reimburse us for the unamortized value of capital improvements made during the term of the lease. The City of Hawthorne capital lease is a 15-year lease and expires in 2026.

In April of 2018, a renewal agreement was negotiated with the City of Commerce for us to continue to lease and to operate its water system for 15 years. Under the agreement, the operating lease requires us to pay $0.8 million per year in monthly installments. We have operated the City of Commerce water system since 1985 and are responsible for all operations, maintenance, water quality assurance, customer service programs, and financing capital improvements to provide a reliable supply of water that meets federal and state standards to customers served by the City of Commerce system. The City of Commerce retains title to the system and system improvements and remains responsible for setting its customers' water rates. We bear the risks of operation and collection of amounts billed to customers. In exchange, we receive all revenue from the water system, which was $4.2 million, $4.2 million, and $3.4 million in 2023, 2022, and 2021, respectively. The agreement allows us to request a rate change annually in order to recover costs.

Hawaii Water provides service to approximately 6,500 water and wastewater customer connections on the islands of Kauai, Maui, Oahu, and Hawaii, including several large resorts and condominium complexes. Hawaii Water's regulated customer connections are subject to the jurisdiction of the Hawaii Public Utilities Commission (HPUC). Hawaii Water accounted for 1.2% of our total customer connections and approximately 5.2% of our total consolidated operating revenue in 2023.

Washington Water provides domestic water service to approximately 38,000 customer connections in the Tacoma, Olympia, Graham, Spanaway, Puyallup, Rainier, Yelm, and Gig Harbor areas. Washington Water's utility operations are regulated by the Washington Utilities and Transportation Commission (UTC). Washington Water accounted for approximately 6.8% of our total customer connections and approximately 3.0% of our total consolidated operating revenue in 2023.

New Mexico Water provides service to approximately 11,400 water and wastewater customer connections in our Rio Communities, Rio Del Oro, Meadow Lake, Indian Hills, Squaw Valley, Elephant Butte, Morningstar, Sandia Knolls, Juan Tomas, and Cypress Gardens systems. New Mexico's regulated operations are subject to the jurisdiction of the New Mexico Public Regulation Commission (NMPRC). New Mexico Water accounted for approximately 2.0% of our total customer connections and 0.9% of our total consolidated operating revenue in 2023.

In May of 2021, Texas Water became the majority owner of BVRT Utility Holding Company (BVRT), a Texas-based utility development company owning and operating four wastewater utilities serving growing communities outside of Austin and San Antonio. Texas Water initially invested funds to enable BVRT to continue to build wastewater infrastructure and converted its investment to equity. BVRT's four wastewater utilities currently serve or are under contract to serve approximately 2,800 customer connections. On August 16, 2022, BVRT entered into a long-term water supply agreement with the Guadalupe Blanco River Authority (GBRA) that enables BVRT to receive up to 2,419 acre-feet of potable water annually (see Note 14 for more details). Texas Water accounted for approximately 0.5% of our total customer connections and 0.3% of our total consolidated operating revenue in 2023.

The state regulatory bodies governing our regulated operations are referred to as the Commissions in this annual report. Rates and operations for regulated customers are subject to the jurisdiction of the respective state's regulatory Commission. The Commissions require that water and wastewater rates for each regulated district are independently determined based on the cost of service. The Commissions are expected to authorize rates sufficient to recover normal operating expenses and allow the utility to earn a fair and reasonable return on invested capital.

We treat and distribute water and treat wastewater in accordance with accepted water utility methods. Where applicable, we hold franchises and permits in the cities and communities where we operate. The franchises and permits allow us to operate and maintain facilities in public streets and rights-of-way as necessary.

Non-Regulated Activities

Non-regulated activities consist primarily of the operation of water systems that are owned by other entities under lease agreements, leasing of communication antenna sites on our properties, and billing of optional third-party insurance programs to our residential customers.

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regulated natural gas revenues are affected by the cost of gas, higher gas costs, as well as general economic conditions, may cause customers to conserve usage, or seek alternative energy sources. In addition, higher gas costs result in an increase to our purchased gas inventory, which requires additional borrowings under credit facilities, resulting in higher interest expense.

The Company's growth in revenues over the past five years is primarily a result of its acquisition in 2020 of Peoples Natural Gas Company LLC and its affiliated companies, or the Peoples Gas Acquisition, increases in water and wastewater rates, increase in the cost of natural gas in 2021 and 2022, and customer growth. See *Economic Regulation* for a discussion of water, wastewater, and natural gas rates. The increase in our utility customer base has been due to customers added through acquisitions, partnerships with developers, and organic growth (excluding dispositions) as shown below:

Year	Utility Customer Growth Rate
2023	1.0%
2022	1.7%
2021	1.2%
2020	42.9%
2019	2.1%

In 2023, 2022, 2021, 2020, and 2019, our customer count increased by 5,875, 31,537, 21,246, 772,099 and 21,108 customers, respectively, primarily due to the water and wastewater utility systems that we acquired, organic growth, and in 2020, due to the Peoples Gas Acquisition that resulted to the addition of approximately 750,000 natural gas utility customers. Overall, for the five year period of 2019 through 2023, our utility customer base, adjusted to exclude customers associated with utility system dispositions, increased at an annual compound rate of 13.2%. During the five year period ended December 31, 2023, our utility customer base including customers associated with utility system acquisitions and dispositions increased from 1,005,590 at January 1, 2019 to 1,857,461 at December 31, 2023.

Acquisitions and Other Growth Ventures

We believe that acquisitions will continue to be an important source of customer growth for us. We intend to continue to pursue acquisitions of government-owned and regulated water and wastewater systems that provide services in areas near our existing service territories or in new service areas. We engage in continuing activities with respect to potential acquisitions, including calling on prospective sellers, performing analyses of and due diligence on acquisition candidates, making preliminary acquisition proposals, and negotiating the terms of potential acquisitions. Further, we are also seeking other potential business opportunities, including but not limited to, partnering with public and regulated utilities to invest in infrastructure projects, growing our market-based activities by acquiring businesses that provide water and wastewater or other utility-related services, and investing in infrastructure projects.

Based on the 2021 U.S. Census American Housing Survey, approximately 89% of the U.S. population obtain their water from public or private water utility systems, and 11% of the U.S. population obtain their water from individual wells. With approximately 50,000 community water systems in the U.S. (approximately 81% of which serve less than 3,300 customers), the water industry is the most fragmented of the major utility industries (telephone, natural gas, electric, water and wastewater). The majority of these community water systems are government-owned. The nation's water systems range in size from large government-owned systems, such as the New York City water system, which serves approximately 8.5 million people, to small systems, where a few customers share a common well. In the states where we operate regulated water utilities, we believe there are over 14,000 community water systems of widely-varying size, with the majority of the population being served by government-owned water systems.

Although not as fragmented as the water industry, the wastewater industry in the U.S. also presents opportunities for consolidation. Based on the 2021 U.S. Census American Housing Survey, approximately 84% of the U.S. population relies on public or private sewer systems, and 16% of the U.S. population relies on septic tank, cesspool, or other sewer options. A majority of wastewater facilities are government-owned rather than regulated utilities. In the states where we operate regulated water utilities, we believe there are approximately 4,000 wastewater facilities in operation, with the majority of the population being served by government-owned wastewater systems.

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SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

Certain statements in this Annual Report on Form 10-K, or this Annual Report, are forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934 that are made based upon, among other things, our current assumptions, expectations, plans, and beliefs concerning future events and their potential effect on us. These forward-looking statements involve risks, uncertainties and other factors, many of which are outside our control that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by these forward-looking statements. In some cases you can identify forward-looking statements where statements are preceded by, followed by or include the words “believes,” “expects,” “estimates”, “anticipates,” “plans,” “future,” “potential,” “probably,” “predictions,” “intends,” “will,” “continue,” “in the event” or the negative of such terms or similar expressions. Please refer to the Summary in Item 1A – Risk Factors in this Annual Report for a description of the types of forward-looking statements in this Annual Report. These factors are not necessarily all of the important factors that could cause actual results to differ materially from those expressed in any of our forward-looking statements. Other unknown or unpredictable factors could also have material adverse effects on future results.

Given these risks and uncertainties, you should not place undue reliance on any forward-looking statements. You should read this Annual Report completely and with the understanding that our actual future results, performance and achievements may be materially different from what we expect. These forward-looking statements represent assumptions, expectations, plans, and beliefs only as of the date of this Annual Report. Except for our ongoing obligations to disclose certain information under the federal securities laws, we are not obligated, and assume no obligation, to update these forward-looking statements, even though our situation may change in the future. For further information or other factors which could affect our financial results and such forward-looking statements, see Item 1A – Risk Factors. We qualify all of our forward-looking statements by these cautionary statements.

PART I

Item 1. *Business*

The Company

Essential Utilities, Inc., referred to as “Essential Utilities”, “Essential”, the “Company”, “we”, “us”, or “our”, a Pennsylvania corporation, is the holding company for regulated utilities providing water, wastewater, or natural gas services to an estimated 5.5 million people in Pennsylvania, Ohio, Texas, Illinois, North Carolina, New Jersey, Indiana, Virginia, and Kentucky under the Aqua and Peoples brands. One of our largest operating subsidiaries, Aqua Pennsylvania, Inc., or Aqua Pennsylvania, accounted for approximately 56% of operating revenues and approximately 68% of income for our Regulated Water segment in 2023. As of December 31, 2023, Aqua Pennsylvania provided water or wastewater services to approximately one-half of the total number of water and wastewater customers we serve. Aqua Pennsylvania’s service territory is located in the suburban areas in counties north and west of the City of Philadelphia and in 27 other counties in Pennsylvania. Our other regulated water or wastewater utility subsidiaries provide similar services in seven additional states. Our Peoples subsidiaries provide natural gas service to approximately 744,000 customers in western Pennsylvania and Kentucky. Approximately 95% of the total number of natural gas utility customers we serve are in western Pennsylvania. The Company also operates market-based activities, conducted through its non-regulated subsidiaries, that provide utility service line protection solutions and repair services to households and gas marketing and production activities. Currently, the Company seeks to acquire businesses in the U.S. regulated sector, focusing on water and wastewater utilities and to opportunistically pursue growth ventures in select market-based activities, such as infrastructure opportunities that are supplementary and complementary to our regulated water utility businesses.

PART I

Item 1. Business.

Overview

Middlesex Water Company (Middlesex) was incorporated as a water utility company in 1897 and owns and operates regulated water utility and wastewater systems primarily in New Jersey and Delaware. Middlesex also operates water and wastewater systems under contract on behalf of municipal and private clients primarily in New Jersey and Delaware.

The terms "the Company," "we," "our," and "us" refer to Middlesex Water Company and its subsidiaries, including Tidewater Utilities, Inc. (Tidewater) and Tidewater's wholly-owned subsidiaries, Southern Shores Water Company, LLC (Southern Shores) and White Marsh Environmental Systems, Inc. (White Marsh). The Company's other subsidiaries are Pinelands Water Company (Pinelands Water) and Pinelands Wastewater Company (Pinelands Wastewater) (collectively, Pinelands), Utility Service Affiliates, Inc. (USA) and Utility Service Affiliates (Perth Amboy) Inc., (USA-PA).

The Company's principal executive offices are located at 485C Route 1 South, Suite 400, Iselin, New Jersey 08830. Our telephone number is (732) 634-1500. Our website address is http://www.middlesexwater.com. Information contained on our website is not part of this Annual Report on Form 10-K. We make available, free of charge through our website, reports and amendments filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, after such material is electronically filed with or furnished to the United States Securities and Exchange Commission (the SEC).

Middlesex System

Located in New Jersey, the Middlesex System provides water services to approximately 61,000 retail customers, primarily in eastern Middlesex County and under wholesale contracts to the City of Rahway, Townships of Edison and Marlboro, the Borough of Highland Park and the Old Bridge Municipal Utilities Authority. The Middlesex System treats, stores and distributes water for residential, commercial, industrial and fire protection purposes. The Middlesex System also provides water treatment and pumping services to the Township of East Brunswick under contract. The amount of water supply allocated to the Township of East Brunswick is granted directly to the Township by the New Jersey Water Supply Authority. The Middlesex System produced approximately 66% of our 2023 consolidated operating revenues.

The Middlesex System's retail customers are located in an area of approximately 55 square miles in Woodbridge Township, the City of South Amboy, the Boroughs of Metuchen and Carteret, portions of the Township of Edison and the Borough of South Plainfield, all in Middlesex County, and a portion of the Township of Clark in Union County. Retail customers include a mix of residential customers, large industrial concerns and commercial and light industrial facilities. These customers are located in generally well-developed areas of central New Jersey.

The contract customers of the Middlesex System comprise an area of approximately 110 square miles with a population of over 200,000. Contract sales to the Townships of Edison and Marlboro, the City of Rahway and the Old Bridge Municipal Utilities Authority are supplemental to the water systems owned and operated by these customers. Middlesex is the sole source of water for the Borough of Highland Park and the Township of East Brunswick.

Middlesex provides water service to approximately 300 customers in Cumberland County, New Jersey. This system is referred to as the Fortescue System, and is not physically interconnected with the Middlesex System. The Fortescue System produced less than 0.1% of our 2023 consolidated operating revenues.

Tidewater System

Tidewater, together with its wholly-owned subsidiary, Southern Shores, provides water services to approximately 59,000 retail customers for residential, commercial and fire protection purposes in over 470 separate communities

in New Castle, Kent and Sussex Counties, Delaware. The Tidewater System produced approximately 25% of our 2023 consolidated operating revenues.

USA-PA

USA-PA operates the City of Perth Amboy, New Jersey's (Perth Amboy) water and wastewater systems under a 10-year agreement, which expires in December 2028. In addition to performing day-to day operations, USA-PA is also responsible for emergency responses and management of capital projects funded by Perth Amboy. USA-PA produced approximately 4% of our 2023 consolidated operating revenues.

Pinelands Systems

Pinelands Water provides water services to approximately 2,500 residential customers in Burlington County, New Jersey. Pinelands Water is not physically interconnected with the Middlesex System. Pinelands Water produced approximately 1% of our 2023 consolidated operating revenues.

Pinelands Wastewater provides wastewater collection and treatment services to approximately 2,500 residential customers and one municipal wastewater system in Burlington County, New Jersey. Pinelands Wastewater produced approximately 1% of our 2023 consolidated operating revenues.

USA

USA operates the Borough of Avalon, New Jersey's (Avalon) water utility, sewer utility and storm water system under a ten-year operations and maintenance contract expiring in 2032. In addition to performing day-to-day service operations, USA is responsible for emergency responses and management of capital projects funded by Avalon.

USA operates the Borough of Highland Park, New Jersey's (Highland Park) water utility and sewer utility under a ten-year operations and maintenance contract expiring in 2030.

USA also provides water and wastewater services to several other New Jersey municipalities under contracts that are not regulated by a public utility commission as to rates and service.

Under a marketing agreement with HomeServe USA Corp. (HomeServe) expiring in 2031, USA offers residential customers in New Jersey and Delaware various water and wastewater related home maintenance programs. HomeServe is a leading national provider of such home maintenance service programs. USA receives a service fee for the billing, cash collection and other administrative matters associated with HomeServe's service contracts.

USA produced approximately 2% of our 2023 consolidated operating revenues.

White Marsh

White Marsh operates or maintains water and/or wastewater systems that serve approximately 4,300 service connections under 31 separate contracts. White Marsh also owns two commercial properties that are leased to Tidewater for its administrative office campus and its field operations center. White Marsh produced approximately 1% of our 2023 consolidated operating revenues.

Middlesex Water Company Names New President & CEO

January 23, 2024 at 4:34 PM EST

ISELIN, N.J. , Jan. 23, 2024 (GLOBE NEWSWIRE) -- Middlesex Water Company (NASDAQ: MSEX) has named Nadine Leslie as its new President & CEO effective March 1, 2024. Ms. Leslie joins Middlesex following a comprehensive search for a successor to outgoing President & CEO Dennis W. Doll, who will retire from the Company February 29, 2024. Ms. Leslie will also be appointed to the Board of Directors effective March 1, 2024.

Ms. Leslie is an accomplished leader with domestic and international experience in the Water Industry. She previously served as Chief Executive Officer of SUEZ North America from 2019 to 2022. In this capacity, she was responsible for overseeing one of North America's leading environmental companies, with revenues over $1.1 billion, providing water and recycling and recovery services to 6.6 million people in the United States and Canada. The scope of her responsibilities included 15 regulated water utilities, 65 municipal contracts through innovative public-private partnerships and the long-term asset management contracts for water storage facilities, serving more than 4,000 municipal and industrial clients.

Prior to her appointment as CEO of SUEZ North America, Ms. Leslie served as Executive Vice President - Health & Safety for the Paris-based SUEZ Group. In this capacity, she was responsible for directing and providing Health & Safety oversight to all business units of the Group. She also led the development and implementation of behavior-based safety practices, audited Health and Safety procedure implementation and compliance consistent with corporate and regulatory requirements and monitored the effectiveness of safety control measures used throughout SUEZ business units around the world.

Ms. Leslie has more than 25 years of industry experience in operations, management, compliance, client relations and due diligence. Since joining the SUEZ North America team in 2000, she has held leadership positions of increasing responsibility within the company's regulated, contract and corporate segments. She served as part of the management team at projects located in Georgia and New Jersey in 2003 before being appointed Vice President and General Manager for the regulated utility business in the Toms River, NJ division in 2006. Ms. Leslie also headed the SUEZ corporate internal audit department from 2009 until 2011 and then served as President of SUEZ North America's Environmental Services from 2011 until 2016. In this capacity, she was responsible for overseeing the operations and management of contract operations throughout the United States and Canada. This included more than 80 projects affiliated with municipal and industrial water and wastewater systems as well as two solid waste treatment facilities.

Mr. Doll will remain Chairman of the Middlesex Board of Directors through the expiration of his current term at the Annual Meeting of Shareholders on May 21, 2024. Mr. Doll has also entered into a consulting agreement with the Company to aid in a seamless transfer of leadership. The consulting agreement is effective commensurate with Mr. Doll's retirement and expires May 21, 2024.

"I and the rest of the Middlesex Board of Directors are thrilled to have Nadine join our company. Her breadth of knowledge and experience bring a fresh perspective to the numerous opportunities and challenges facing our company and our industry," said Doll. "The search committee of our Board of Directors led a very comprehensive and thoughtful recruiting process to ensure we could identify a leader to further the Company's mission to provide operational and financial excellence." added Doll.

"I am thrilled to join the Middlesex Water Company team and grateful for the trust and confidence placed in me by the Middlesex Board of Directors" said Ms. Leslie, incoming President and CEO. "I am confident with the support of our talented team and Board members, we will navigate challenges, capitalize on opportunities and create additional value for our customers and shareholders. Congratulations to Dennis on his successful tenure and I look forward to working with him during the transition period."

About Middlesex Water Company
Established in 1897, Middlesex Water Company serves as a trusted provider of life-sustaining high quality water service for residential, commercial, industrial and fire protection purposes. The Company and its subsidiaries form the Middlesex family of companies, which collectively serve a population of nearly half a million people in New Jersey and Delaware. We offer a full range of water, wastewater utility and related services including municipal and industrial contract operations and water and wastewater system technical operations and maintenance. We are focused on meeting and balancing the needs of our employees, customers, and shareholders. We invest in our people, our infrastructure and the communities we serve to support reliable and resilient utility services, economic growth and quality of life.

This release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, including, among others, our long-term strategy and expectations, the status of our acquisition program, the impact of our acquisitions, the impact of current and projected rate requests and the impact of our capital program on our environmental compliance. There are important factors that could cause actual results to differ materially from those expressed or implied by such forward-looking statements including: general economic business conditions, unfavorable weather conditions, the success of certain cost-containment initiatives, changes in regulations or regulatory treatment, availability and the cost of capital, the success of growth initiatives and other factors discussed in our filings with the Securities and Exchange Commission.

Contact:
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(732) 638-7549
www.middlesexwater.com

A photo accompanying this announcement is available at https://www.globenewswire.com/NewsRoom/AttachmentNg/b4612a66-d715-4904-bed5-4de6bcff634c

Source: Middlesex Water Company

Nadine Leslie



Nadine Leslie Named President and CEO of Middlesex Water Company

structure will be used for any future WISC calculations for all divisions until the Commission has authorized or approved a different return on equity structure in a different proceeding.

On February 28, 2022, MWC filed requests for general rate increases in the Camden-Rockland, Freeport, Millinocket and Oakland Divisions. On February 2, 2023, MWC received final decisions from the MPUC on four general rate cases filed in 2022. The rate increases are retroactively effective for January 1, 2023 and authorize a $0.7 million increase in annual revenues.

On June 30, 2023, MWC filed a Water Infrastructure Surcharge for the Camden-Rockland division. The requested surcharge is 2.34% or $0.2 million. The Commission is expected to issue a decision regarding the surcharge in the first quarter of 2024.

Please also see Item 1A, "Risk Factors," Item 7, "Management's Discussion and Analysis of Financial Condition and Results of Operations," and Note 3 of "Notes to Consolidated Financial Statements."

Description of Business

General

The principal business of Water Utility Services consists of the production, purchase, storage, purification, distribution, wholesale and retail sale of water and wastewater services. SJWC provides water services to approximately 232,400 connections that serve approximately one million people over 139 square miles residing in portions of the cities of San Jose and Cupertino and in the cities of Campbell, Monte Sereno, Saratoga and in the Town of Los Gatos, and adjacent unincorporated territories, all in the County of Santa Clara in the State of California. The CTWS companies provide water service to approximately 141,000 service connections that serve a population of approximately 461,000 people in 81 municipalities with a service area of approximately 272 square miles throughout Connecticut and Maine and 3,000 wastewater connections in Southbury, Connecticut. TWC provides water service to approximately 28,000 service connections that serve approximately 83,000 people in a service area comprising more than 271 square miles in the region between San Antonio and Austin, Texas and approximately 950 wastewater connections. Together, the Water Utility Services distribute water to customers in their respective service areas in accordance with accepted water utility methods.

Water Utility Services also provide non-tariffed services under agreements with municipalities and other utilities. These non-tariffed services include water system operations, maintenance agreements and antenna site leases. In addition, in October 1997, SJWC commenced operation of the City of Cupertino municipal water system under a 25-year lease which was due to expire in September of 2022 and was amended on January 8, 2020. The system is adjacent to the SJWC service area and has approximately 4,600 service connections. Under the terms of the lease, SJWC assumed responsibility for all maintenance and operating costs of the system, while receiving all payments for water service. SJWC paid an upfront $6.8 million concession fee and an additional $5.0 million in capital improvements to the City of Cupertino. On February 25, 2022, SJWC received a letter from the City of Cupertino exercising their option to extend the term of the lease an additional two years through October 1, 2024. SJWC paid an additional $1.6 million concession fee. The total concession fees paid for the agreement are being amortized over the contract term including the extension.

CTWS provides contracted services to water utilities, as well as offers Linebacker® protection plans for public drinking water customers in the states of Connecticut and Maine. Linebacker plans cover a limited amount of the cost of repairs to water and wastewater service lines and in-home plumbing. Services provided are dependent on the selected plan.

SJW Land Company owns undeveloped real estate property in California and Tennessee, as well as commercial and warehouse properties in Tennessee. Chester Realty, Inc. owns commercial properties and parcels of land in Connecticut.

Among other things, operating results from the water business fluctuate according to the demand for water, which is often influenced by seasonal conditions, such as impact of drought, summer temperatures or the amount and timing of precipitation in Water Utility Services' service areas. Revenue, production expenses and income are affected by changes in water sales and the sources of water supply. Overhead costs, such as payroll and benefits, depreciation, interest on long-term debt, and property taxes are not significantly impacted by seasonality or water supply mix. Generally, earnings are highest in the higher demand, warm summer months and lowest in the lower demand, cool winter months. Certain regulatory mechanisms in our service areas may mitigate the effects of demand fluctuations and/or variations in water supply costs on our operating results.

Water Supply

California Water Supply

SJWC's water supply consists of groundwater from wells, surface water from watershed run-off and diversion, reclaimed water, and imported water purchased from Valley Water under the terms of a master contract with Valley Water expiring in 2051. During normal rainfall years, purchased water provides approximately 40% to 50% of SJWC's annual production. An additional 40% to 50% of its water supply is pumped from the underground basin which is subject to a groundwater extraction charge paid to Valley Water. Surface supply, which during a normal rainfall year satisfies about 6% to 8% of SJWC's annual

Lead and copper may enter drinking water primarily through plumbing materials. The Company is required to comply with the Lead and Copper Rule established by the EPA and administered by the DEP. The Company must monitor drinking water at customer taps for compliance with this rule. If lead concentrations exceed an action level, the Company must undertake a number of additional actions to control corrosion, inform the public about steps they should take to protect their health and may be required to replace lead service lines under its control. The Company is currently in compliance with standards under the Lead and Copper Rule.

The EPA has published the Lead and Copper Rule Revisions, or LCRR, that includes a requirement to submit a service line inventory and a lead service line replacement plan to the respective states or agencies by October 16, 2024, as well as provide public education and sampling at elementary schools and childcare facilities. Additionally, the EPA is developing a new regulation, the Lead and Copper Rule Improvements, or LCRI, to better protect communities from exposure to lead in drinking water. The LCRI is expected to delay the due dates for lead service line replacement plans and result in modifications to other parts of the LCRR. The Company is executing an implementation plan to comply with the initial LCRR requirement to complete a lead service line inventory and begin additional sampling.

The DEP and the Susquehanna River Basin Commission, or SRBC, regulate the amount of water withdrawn from streams in the watershed to assure that sufficient quantities are available to meet the needs of the Company and other regulated users. Through its Division of Dam Safety, the DEP regulates the operation and maintenance of the Company's impounding dams. The Company routinely inspects its dams and prepares annual reports of their condition as required by DEP regulations. The DEP reviews these reports and inspects the Company's dams.

Since 1980, the DEP has required any new dam to have a spillway that is capable of passing the design flood without overtopping the dam. The design flood is either the Probable Maximum Flood, or PMF, or some fraction of it, depending on the size and location of the dam. PMF is very conservative and is calculated using the most severe combination of meteorological and hydrologic conditions reasonably possible in the watershed area of a dam.

The Company engaged a professional engineer to analyze the spillway capacities at the Lake Williams and Lake Redman dams and validate the DEP's recommended flood design for the dams. Management presented the results of the study to the DEP in December 2004, and DEP then requested that the Company submit a proposed schedule for the actions to address the spillway capacities. Thereafter, the Company retained an engineering firm to prepare preliminary designs for increasing the spillway capacities to pass the PMF through armoring the dams with roller compacted concrete. Management met with the DEP on a regular basis to review the preliminary design and discuss scheduling, permitting, and construction requirements including their concern regarding the stability of the Lake Williams spillway in light of current design standards. The Company completed the final design and the permitting process to armor the dam and replace the spillway of the Lake Williams dam and began construction in 2022. The Company completed the dam armoring and spillway replacement in 2023 at a total cost of approximately $40 million. Additional capital expenditures will be incurred in 2024 to complete the sitework around the dam and reservoir. The Lake Redman dam will be reviewed following the completion of the work on the Lake Williams dam.

Capital expenditures and operating costs required as a result of water quality standards and environmental requirements have been traditionally recognized by state public utility commissions as appropriate for inclusion in establishing rates. The capital expenditures currently required as a result of water quality standards and environmental requirements have been budgeted in the Company's capital program and represent less than 15% of its expected total capital expenditures over the next five years. The Company is currently in compliance with wastewater environmental standards and does not anticipate any major capital expenditures for its current wastewater business.

Growth

(All dollar amounts are stated in thousands of dollars)

The Company continues to grow its number of customers and distribution facilities.

The growth in the number of customers is due primarily to the acquisition of water and wastewater systems and organic growth. During the year ended December 31, 2023, the Company increased its number of customers from 76,731 to 77,893. See "Management's Discussion and Analysis – Acquisitions and Growth" for a discussion of the Company's recent acquisitions.

THE YORK WATER COMPANY

PART I

Item 1. Business.

The York Water Company (the "Company") is the oldest investor-owned water utility in the United States and is duly organized under the laws of the Commonwealth of Pennsylvania. The Company has operated continuously since 1816. The primary business of the Company is to impound, purify to meet or exceed safe drinking water standards and distribute water. The Company also owns and operates three wastewater collection systems and ten wastewater collection and treatment systems. The Company operates within its franchised water and wastewater territory, which covers portions of 56 municipalities within four counties in south-central Pennsylvania. The Company is regulated by the Pennsylvania Public Utility Commission, or PPUC, for both water and wastewater in the areas of billing, payment procedures, dispute processing, terminations, service territory, debt and equity financing and rate setting. The Company must obtain PPUC approval before changing any practices associated with the aforementioned areas.

Water service is supplied through the Company's own distribution system. The Company obtains the bulk of its water supply for its primary system for York and Adams Counties from both the South Branch and East Branch of the Codorus Creek, which together have an average daily flow of approximately 73.0 million gallons from a combined watershed area of approximately 117 square miles. The Company has two reservoirs on this primary system, Lake Williams and Lake Redman, which together hold up to approximately 2.2 billion gallons of water. The Company supplements these reservoirs with a 15-mile pipeline from the Susquehanna River to Lake Redman which provides access to an additional supply of 12.0 million gallons of untreated water per day. The Company obtains its water supply for its system for Franklin County from the Roxbury Dam on the Conodoguinet Creek, which has an average daily flow of approximately 26.0 million gallons from a watershed area of approximately 33 square miles. The Company has a reservoir on this system which holds up to approximately 330 million gallons of water. The Company also owns thirteen wells which are capable of providing a safe yield of approximately 808,000 gallons per day to supply water to the customers of its groundwater satellite systems in York, Adams, and Lancaster Counties. As of December 31, 2023, the Company's average daily availability was 41.0 million gallons, and average daily consumption was approximately 21.8 million gallons. The Company's service territory had an estimated population of 209,000 as of December 31, 2023. Industry within the Company's service territory is diversified, manufacturing such items as fixtures and furniture, electrical machinery, food products, paper, ordnance units, textile products, air conditioning systems, laundry detergent, barbells, and motorcycles.

The Company's water business is somewhat dependent on weather conditions, particularly the amount and timing of precipitation. Revenues are particularly vulnerable to weather conditions in the summer months. Prolonged periods of hot and dry weather generally cause increased water usage for watering lawns, washing cars, and keeping golf courses and sports fields irrigated. Conversely, prolonged periods of dry weather could lead to drought restrictions from governmental authorities. Despite the Company's adequate water supply, customers may be required to cut back water usage under such drought restrictions which would negatively impact revenues. The Company has addressed some of this vulnerability by instituting minimum customer charges which are intended to cover fixed costs of operations under all likely weather conditions.

The Company's business does not require large amounts of working capital and is not dependent on any single customer or a very few customers for a material portion of its business. Increases in revenues are generally dependent on the Company's ability to obtain rate increases from the PPUC in a timely manner and in adequate amounts and to increase volumes of water sold through increased consumption and increases in the number of customers served. The Company continuously looks for water and wastewater acquisition and expansion opportunities both within and outside its current service territory as well as additional opportunities to enter into bulk water contracts with municipalities and other entities to supply water.

The Company has agreements with several municipalities to provide billing and collection services. The Company also has a service line protection program on a targeted basis in order to further diversify its business. Under this optional program, customers pay a fixed monthly fee, and the Company will repair or replace damaged customer service lines, as needed, subject to an annual maximum dollar amount. The Company continues to review and consider opportunities to expand both initiatives.

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MUNICIPAL AUTHORITY OF THE BOROUGH OF GREENVILLE

STATEMENTS OF NET POSITION
DECEMBER 31, 2020 AND 2019

	2020	2019
ASSETS		
Cash and cash equivalents	$ 836,010	$ 1,056,178
Certificate of deposit	277,401	270,238
Accounts receivable	209,807	221,489
Unbilled revenue	159,552	162,740
Grant receivable	-	4,237
Inventory	72,769	70,638
Prepaid insurance	19,339	19,339
Net pension asset	46,655	46,655
Capital assets:		
Nondepreciable capital assets	63,091	63,091
Depreciable capital assets, net of accumulated depreciation	13,076,837	12,773,100
Restricted cash and cash equivalents - debt service funds	415,274	408,035
	15,176,735	15,095,740
DEFERRED OUTFLOWS OF RESOURCES		
Deferred charge on refunding	61,077	76,345
Relating to net pension asset, net of amortization	115,536	115,536
	176,613	191,881
LIABILITIES		
Current portion of long-term debt	565,940	559,095
Accounts payable	7,191	1,745
Deposits for services	3,620	4,970
Accrued interest payable	10,946	13,237
Other accrued expenses	23,086	20,122
Long-term debt, net of current portion	5,040,015	5,481,796
	5,650,798	6,080,965
DEFERRED INFLOWS OF RESOURCES		
Relating to net pension asset, net of amortization	120,488	120,488
NET POSITION		
Net investment in capital assets	7,595,050	6,871,645
Restricted for debt service	415,274	408,035
Unrestricted	1,571,738	1,806,488
TOTAL NET POSITION	**$ 9,582,062**	**$ 9,086,168**

See notes to the financial statements.

MUNICIPAL AUTHORITY OF THE BOROUGH OF GREENVILLE

STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION
YEARS ENDED DECEMBER 31, 2020 AND 2019

	2020	*2019*
OPERATING REVENUES		
Private sales	$ 1,879,942	$ 1,880,519
Public sales	57,706	71,616
Tap-in fees	2,000	3,308
Sewer collection fees	27,743	27,743
Reimbursed collection costs	33,591	44,931
Miscellaneous income	43,379	48,660
Recovery of bad debts	625	1,402
	2,044,986	2,078,179
OPERATING EXPENSES		
Purification system	435,105	467,936
Pumping system	10,210	8,939
Distribution system	283,840	287,003
Administrative and general	496,013	468,340
Depreciation	347,516	268,530
	1,572,684	1,500,748
OPERATING INCOME	472,302	577,431
NONOPERATING REVENUES (EXPENSES)		
Grant revenues	112,819	693,127
Interest income	9,584	16,708
Sale of timber	-	136,800
Interest expense	(100,088)	(106,375)
Amortization	1,277	1,277
	23,592	741,537
CHANGES IN NET POSITION	495,894	1,318,968
NET POSITION, BEGINNING OF YEAR	9,086,168	7,767,200
NET POSITION, END OF YEAR	**$ 9,582,062**	**$ 9,086,168**

See notes to the financial statements.

MUNICIPAL AUTHORITY OF THE BOROUGH OF GREENVILLE

STATEMENTS OF CASH FLOWS
YEARS ENDED DECEMBER 31, 2020 AND 2019

	2020	*2019*
CASH FLOWS FROM OPERATING ACTIVITIES		
Cash receipts from customers	$ 1,954,518	$ 1,913,988
Other operating cash receipts	105,338	122,736
Cash payments to suppliers of goods and services	(732,409)	(1,076,714)
Cash payments to employees for services	(487,830)	(452,531)
NET CASH PROVIDED BY OPERATING ACTIVITIES	839,617	507,479
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES		
Purchases of capital assets	(651,253)	(971,931)
Sale of timber	-	136,800
Grant revenues	117,056	722,249
Principal paid on long-term debt	(558,377)	(511,274)
Proceeds from long-term debt	124,718	568,332
Interest paid on long-term debt	(87,111)	(93,065)
NET CASH USED IN CAPITAL AND RELATED FINANCING ACTIVITIES	(1,054,967)	(148,889)
CASH FLOWS PROVIDED BY INVESTING ACTIVITIES		
Interest income	2,421	10,587
NET CHANGE IN CASH AND CASH EQUIVALENTS	(212,929)	369,177
CASH AND CASH EQUIVALENTS, BEGINNING OF YEAR (Including $408,035 and $425,502, respectively, reported in restricted cash and cash equivalents)	1,464,213	1,095,036
CASH AND CASH EQUIVALENTS, END OF YEAR (Including $415,274 and $408,035, respectively, reported in restricted cash and cash equivalents)	**$ 1,251,284**	**$ 1,464,213**

See notes to the financial statements.

NOTE C – CAPITAL ASSETS

Capital assets activity for the year ended December 31, 2020 is as follows:

	Beginning Balance	*Increases*	*Decreases*	*Ending Balance*
Capital assets not being depreciated:				
Land	$ 63,091	$ -	$ -	$ 63,091
Capital assets being depreciated:				
Plant and equipment	19,875,284	651,253	-	20,526,537
Less accumulated depreciation for:				
Plant and equipment	(7,102,184)	(347,516)	-	(7,449,700)
Total capital assets being depreciated, net	12,773,100	303,737	-	13,076,837
TOTAL CAPITAL ASSETS, NET	**$ 12,836,191**	**$ 303,737**	**$ -**	**$ 13,139,928**

Capital assets activity for the year ended December 31, 2019 is as follows:

	Beginning Balance	*Increases*	*Decreases*	*Ending Balance*
Capital assets not being depreciated:				
Land	$ 63,091	$ -	$ -	$ 63,091
Construction in progress	2,550,412	865,216	(3,415,628)	-
Total capital assets not being depreciated	2,613,503	865,216	(3,415,628)	63,091
Capital assets being depreciated:				
Plant and equipment	16,352,941	106,715	3,415,628	19,875,284
Less accumulated depreciation for:				
Plant and equipment	(6,833,654)	(268,530)	-	(7,102,184)
Total capital assets being depreciated, net	9,519,287	(161,815)	3,415,628	12,773,100
TOTAL CAPITAL ASSETS, NET	**$ 12,132,790**	**$ 703,401**	**$ -**	**$ 12,836,191**

MUNICIPAL AUTHORITY OF THE BOROUGH OF GREENVILLE

STATEMENTS OF NET POSITION

DECEMBER 31, 2021 AND 2020

	2021	*2020*
ASSETS		
Cash and cash equivalents	$ 875,026	$ 836,010
Certificate of deposit	283,032	277,401
Accounts receivable	213,171	209,807
Unbilled revenue	161,964	159,552
Inventory	66,584	72,769
Prepaid insurance	19,339	19,339
Net pension asset	175,769	175,769
Capital assets:		
Nondepreciable capital assets	289,231	63,091
Depreciable capital assets, net of accumulated depreciation	12,858,674	13,076,837
Restricted cash and cash equivalents - debt service funds	396,358	415,274
	15,339,148	15,305,849
DEFERRED OUTFLOWS OF RESOURCES		
Deferred charge on refunding	45,809	61,077
Relating to net pension asset, net of amortization	99,499	99,499
	145,308	160,576
LIABILITIES		
Current portion of long-term debt	571,446	565,940
Accounts payable	41,619	7,191
Deposits for services	3,620	3,620
Accrued interest payable	8,183	10,946
Other accrued expenses	25,420	23,086
Long-term debt, net of current portion	4,686,464	5,040,015
	5,336,752	5,650,798
DEFERRED INFLOWS OF RESOURCES		
Relating to net pension asset, net of amortization	188,512	188,512
NET POSITION		
Net investment in capital assets	7,935,804	7,595,050
Restricted for debt service	396,358	415,274
Unrestricted	1,627,030	1,616,791
TOTAL NET POSITION	**$ 9,959,192**	**$ 9,627,115**

See notes to the financial statements.

MUNICIPAL AUTHORITY OF THE BOROUGH OF GREENVILLE

STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION

YEARS ENDED DECEMBER 31, 2021 AND 2020

	2021	*2020*
OPERATING REVENUES		
Private sales	$ 1,915,392	$ 1,879,942
Public sales	33,056	57,706
Tap-in fees	2,568	2,000
Sewer collection fees	27,743	27,743
Reimbursed collection costs	39,625	33,591
Miscellaneous income	35,163	43,379
Recovery of bad debts	420	625
	2,053,967	2,044,986
OPERATING EXPENSES		
Purification system	550,569	435,105
Pumping system	6,351	10,210
Distribution system	286,535	283,840
Administrative and general	516,232	450,960
Depreciation	369,597	347,516
	1,729,284	1,527,631
OPERATING INCOME	324,683	517,355
NONOPERATING REVENUES (EXPENSES)		
Grant revenues	83,585	112,819
Interest income	6,199	9,584
Gain on disposal of capital assets	8,000	-
Interest expense	(91,669)	(100,088)
Amortization	1,279	1,277
	7,394	23,592
CHANGES IN NET POSITION	332,077	540,947
NET POSITION, BEGINNING OF YEAR	9,627,115	9,086,168
NET POSITION, END OF YEAR	**$ 9,959,192**	**$ 9,627,115**

See notes to the financial statements.

MUNICIPAL AUTHORITY OF THE BOROUGH OF GREENVILLE

STATEMENTS OF CASH FLOWS

YEARS ENDED DECEMBER 31, 2021 AND 2020

	2021	*2020*
CASH FLOWS FROM OPERATING ACTIVITIES		
Cash receipts from customers	$ 1,945,240	$ 1,954,518
Other operating cash receipts	102,951	105,338
Cash payments to suppliers of goods and services	(846,932)	(732,409)
Cash payments to employees for services	(509,683)	(487,830)
NET CASH PROVIDED BY OPERATING ACTIVITIES	691,576	839,617
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES		
Purchases of capital assets	(329,699)	(651,253)
Grant revenues	83,585	117,056
Principal paid on long-term debt	(564,208)	(558,377)
Proceeds from long-term debt	217,442	124,718
Interest paid on long-term debt	(79,164)	(87,111)
NET CASH USED IN CAPITAL AND RELATED FINANCING ACTIVITIES	(672,044)	(1,054,967)
CASH FLOWS PROVIDED BY INVESTING ACTIVITIES		
Interest income	568	2,421
NET CHANGE IN CASH AND CASH EQUIVALENTS	20,100	(212,929)
CASH AND CASH EQUIVALENTS, BEGINNING OF YEAR (Including $415,274 and $408,035, respectively, reported in restricted cash and cash equivalents)	1,251,284	1,464,213
CASH AND CASH EQUIVALENTS, END OF YEAR (Including $396,358 and $415,274, respectively, reported in restricted cash and cash equivalents)	**$ 1,271,384**	**$ 1,251,284**

See notes to the financial statements.

MUNICIPAL AUTHORITY OF THE BOROUGH OF GREENVILLE
NOTES TO THE BASIC FINANCIAL STATEMENTS

NOTE B – CASH AND CASH EQUIVALENTS (CONTINUED)

Of the bank balances at December 31, 2021 and 2020, $750,000 was covered by federal depository insurance and $870,783 and $1,143,332, respectively, were exposed to custodial credit risk because they were uninsured and the collateral held by the depository's agent was not in the Authority's name.

NOTE C – CAPITAL ASSETS

Capital assets activity for the year ended December 31, 2021 is as follows:

	Beginning Balance	*Increases*	*Decreases*	*Ending Balance*
Capital assets not being depreciated:				
Land	$ 63,091	$ -	$ -	$ 63,091
Construction in progress	-	226,140	-	226,140
Total capital assets not being depreciated	63,091	226,140	-	289,231
Capital assets being depreciated:				
Plant and equipment	20,526,537	151,434	(18,465)	20,659,506
Less accumulated depreciation for:				
Plant and equipment	(7,449,700)	(369,597)	18,465	(7,800,832)
Total capital assets being depreciated, net	13,076,837	(218,163)	-	12,858,674
TOTAL CAPITAL ASSETS, NET	**$ 13,139,928**	**$ 7,977**	**$ -**	**$ 13,147,905**

Capital assets activity for the year ended December 31, 2020 is as follows:

	Beginning Balance	*Increases*	*Decreases*	*Ending Balance*
Capital assets not being depreciated:				
Land	$ 63,091	$ -	$ -	$ 63,091
Capital assets being depreciated:				
Plant and equipment	19,875,284	651,253	-	20,526,537
Less accumulated depreciation for:				
Plant and equipment	(7,102,184)	(347,516)	-	(7,449,700)
Total capital assets being depreciated, net	12,773,100	303,737	-	13,076,837
TOTAL CAPITAL ASSETS, NET	**$ 12,836,191**	**$ 303,737**	**$ -**	**$ 13,139,928**

MUNICIPAL AUTHORITY OF THE BOROUGH OF GREENVILLE

STATEMENTS OF NET POSITION

DECEMBER 31, 2022 AND 2021

	2022	*2021*
ASSETS		
Cash and cash equivalents	$ 591,072	$ 875,026
Certificate of deposit	284,165	283,032
Accounts receivable	228,574	213,171
Unbilled revenue	192,273	161,964
Inventory	85,526	66,584
Prepaid insurance	19,339	19,339
Net pension asset	279,596	279,596
Capital assets:		
Nondepreciable capital assets	3,408,525	289,231
Depreciable capital assets, net of accumulated depreciation	12,488,701	12,858,674
Restricted cash and cash equivalents - debt service funds	388,037	396,358
	17,965,808	15,442,975
DEFERRED OUTFLOWS OF RESOURCES		
Deferred charge on refunding	30,541	45,809
Relating to net pension asset, net of amortization	102,519	102,519
	133,060	148,328
LIABILITIES		
Current portion of long-term debt	579,576	571,446
Accounts payable	404,391	41,619
Deposits for services	3,620	3,620
Accrued interest payable	5,368	8,183
Other accrued expenses	29,953	25,420
Long-term debt, net of current portion	4,105,609	4,686,464
	5,128,517	5,336,752
DEFERRED INFLOWS OF RESOURCES		
Relating to net pension asset, net of amortization	252,011	252,011
NET POSITION		
Net investment in capital assets	11,242,582	7,935,804
Restricted for debt service	388,037	396,358
Unrestricted	1,087,721	1,670,378
TOTAL NET POSITION	**$ 12,718,340**	**$ 10,002,540**

See notes to the financial statements.

MUNICIPAL AUTHORITY OF THE BOROUGH OF GREENVILLE

STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION
YEARS ENDED DECEMBER 31, 2022 AND 2021

	2022	*2021*
OPERATING REVENUES		
Private sales	$ 2,070,433	$ 1,915,392
Public sales	40,677	33,056
Tap-in fees	-	2,568
Sewer collection fees	27,743	27,743
Reimbursed collection costs	45,040	39,625
Miscellaneous income	39,233	35,163
Recovery of bad debts	627	420
	2,223,753	2,053,967
OPERATING EXPENSES		
Purification system	640,868	550,569
Pumping system	7,061	6,351
Distribution system	408,941	286,535
Administrative and general	537,991	472,884
Depreciation	393,673	369,597
	1,988,534	1,685,936
OPERATING INCOME	235,219	368,031
NONOPERATING REVENUES (EXPENSES)		
Grant revenues	2,554,670	83,585
Interest income	5,550	6,199
Gain on disposal of capital assets	-	8,000
Interest expense	(80,918)	(91,669)
Amortization	1,279	1,279
	2,480,581	7,394
CHANGES IN NET POSITION	2,715,800	375,425
NET POSITION, BEGINNING OF YEAR	10,002,540	9,627,115
NET POSITION, END OF YEAR	**$ 12,718,340**	**$ 10,002,540**

See notes to the financial statements.

MUNICIPAL AUTHORITY OF THE BOROUGH OF GREENVILLE

STATEMENTS OF CASH FLOWS

YEARS ENDED DECEMBER 31, 2022 AND 2021

	2022	*2021*
CASH FLOWS FROM OPERATING ACTIVITIES		
Cash receipts from customers	$ 2,065,398	$ 1,945,240
Other operating cash receipts	112,643	102,951
Cash payments to suppliers of goods and services	(1,092,183)	(846,932)
Cash payments to employees for services	(556,962)	(509,683)
NET CASH PROVIDED BY OPERATING ACTIVITIES	528,896	691,576
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES		
Purchases of capital assets	(2,740,347)	(329,699)
Grant revenues	2,554,670	83,585
Principal paid on long-term debt	(571,446)	(564,208)
Proceeds from long-term debt	-	217,442
Interest paid on long-term debt	(68,465)	(79,164)
NET CASH USED IN CAPITAL AND RELATED FINANCING ACTIVITIES	(825,588)	(672,044)
CASH FLOWS PROVIDED BY INVESTING ACTIVITIES		
Interest income	4,417	568
NET CHANGE IN CASH AND CASH EQUIVALENTS	(292,275)	20,100
CASH AND CASH EQUIVALENTS, BEGINNING OF YEAR (Including $396,358 and $415,274, respectively, reported in restricted cash and cash equivalents)	1,271,384	1,251,284
CASH AND CASH EQUIVALENTS, END OF YEAR (Including $388,037 and $396,358, respectively, reported in restricted cash and cash equivalents)	**$ 979,109**	**$ 1,271,384**

See notes to the financial statements.

MUNICIPAL AUTHORITY OF THE BOROUGH OF GREENVILLE
NOTES TO THE BASIC FINANCIAL STATEMENTS

NOTE C – CAPITAL ASSETS

Capital assets activity for the year ended December 31, 2022 is as follows:

	Beginning Balance	*Increases*	*Decreases*	*Ending Balance*
Capital assets not being depreciated:				
Land	$ 63,091	$ -	$ -	$ 63,091
Construction in progress	226,140	3,119,294	-	3,345,434
Total capital assets not being depreciated	289,231	3,119,294	-	3,408,525
Capital assets being depreciated:				
Plant and equipment	20,659,506	23,700	-	20,683,206
Less accumulated depreciation for:				
Plant and equipment	(7,800,832)	(393,673)	-	(8,194,505)
Total capital assets being depreciated, net	12,858,674	(369,973)	-	12,488,701
TOTAL CAPITAL ASSETS, NET	**$ 13,147,905**	**$ 2,749,321**	**$ -**	**$ 15,897,226**

Capital assets activity for the year ended December 31, 2021 is as follows:

	Beginning Balance	*Increases*	*Decreases*	*Ending Balance*
Capital assets not being depreciated:				
Land	$ 63,091	$ -	$ -	$ 63,091
Construction in progress	-	226,140	-	226,140
Total capital assets not being depreciated	63,091	226,140	-	289,231
Capital assets being depreciated:				
Plant and equipment	20,526,537	151,434	(18,465)	20,659,506
Less accumulated depreciation for:				
Plant and equipment	(7,449,700)	(369,597)	18,465	(7,800,832)
Total capital assets being depreciated, net	13,076,837	(218,163)	-	12,858,674
TOTAL CAPITAL ASSETS, NET	**$ 13,139,928**	**$ 7,977**	**$ -**	**$ 13,147,905**

MUNICIPAL AUTHORITY OF THE BOROUGH OF GREENVILLE

STATEMENTS OF NET POSITION
DECEMBER 31, 2023 AND 2022

	2023	*2022*
ASSETS		
Cash and cash equivalents	$ 972,188	$ 591,072
Certificate of deposit	294,436	284,165
Accounts receivable	245,903	228,574
Unbilled revenue	175,441	192,273
Inventory	92,581	85,526
Prepaid insurance	19,339	19,339
Net pension asset	13,923	350,694
Capital assets:		
Nondepreciable capital assets	6,478,975	3,408,525
Depreciable capital assets, net of accumulated depreciation	12,127,189	12,488,701
Restricted cash and cash equivalents - debt service funds	379,969	388,037
	20,799,944	18,036,906
DEFERRED OUTFLOWS OF RESOURCES		
Deferred charge on refunding	15,273	30,541
Relating to net pension asset, net of amortization	260,083	84,100
	275,356	114,641
LIABILITIES		
Current portion of long-term debt	606,264	579,576
Accounts payable	112,387	404,391
Deposits for services	3,620	3,620
Accrued interest payable	2,276	5,368
Other accrued expenses	29,813	29,953
Long-term debt, net of current portion	6,106,928	4,105,609
	6,861,288	5,128,517
DEFERRED INFLOWS OF RESOURCES		
Relating to net pension asset, net of amortization	103,686	250,483
NET POSITION		
Net investment in capital assets	11,908,245	11,242,582
Restricted for debt service	379,969	388,037
Unrestricted	1,822,112	1,141,928
TOTAL NET POSITION	**$ 14,110,326**	**$ 12,772,547**

See notes to the financial statements.

MUNICIPAL AUTHORITY OF THE BOROUGH OF GREENVILLE

STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION
YEARS ENDED DECEMBER 31, 2023 AND 2022

	2023	*2022*
OPERATING REVENUES		
Private sales	$ 2,134,704	$ 2,070,433
Public sales	49,355	40,677
Sewer collection fees	29,607	27,743
Reimbursed collection costs	45,739	45,040
Miscellaneous income	42,448	39,233
Recovery of bad debts	131	627
	2,301,984	2,223,753
OPERATING EXPENSES		
Purification system	564,396	640,868
Pumping system	7,381	7,061
Distribution system	328,160	408,941
Administrative and general	575,412	483,784
Depreciation	361,512	393,673
	1,836,861	1,934,327
OPERATING INCOME	465,123	289,426
NONOPERATING REVENUES (EXPENSES)		
Grant revenues	920,722	2,554,670
Interest income	31,621	5,550
Interest expense	(80,966)	(80,918)
Amortization	1,279	1,279
	872,656	2,480,581
CHANGES IN NET POSITION	1,337,779	2,770,007
NET POSITION, BEGINNING OF YEAR	12,772,547	10,002,540
NET POSITION, END OF YEAR	**$ 14,110,326**	**$ 12,772,547**

See notes to the financial statements.

MUNICIPAL AUTHORITY OF THE BOROUGH OF GREENVILLE

STATEMENTS OF CASH FLOWS

YEARS ENDED DECEMBER 31, 2023 AND 2022

	2023	*2022*
CASH FLOWS FROM OPERATING ACTIVITIES		
Cash receipts from customers	$ 2,183,562	$ 2,065,398
Other operating cash receipts	117,925	112,643
Cash payments to suppliers of goods and services	(1,313,524)	(1,092,183)
Cash payments to employees for services	(557,676)	(556,962)
NET CASH PROVIDED BY OPERATING ACTIVITIES	430,287	528,896
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES		
Purchases of capital assets	(2,959,807)	(2,740,347)
Grant revenues	920,722	2,554,670
Principal paid on long-term debt	(579,575)	(571,446)
Proceeds from long-term debt	2,608,861	-
Interest paid on long-term debt	(68,790)	(68,465)
NET CASH USED IN CAPITAL AND RELATED FINANCING ACTIVITIES	(78,589)	(825,588)
CASH FLOWS PROVIDED BY INVESTING ACTIVITIES		
Interest income	21,350	4,417
NET CHANGE IN CASH AND CASH EQUIVALENTS	373,048	(292,275)
CASH AND CASH EQUIVALENTS, BEGINNING OF YEAR (Including $388,037 and $396,358, respectively, reported in restricted cash and cash equivalents)	979,109	1,271,384
CASH AND CASH EQUIVALENTS, END OF YEAR (Including $379,969 and $388,037, respectively, reported in restricted cash and cash equivalents)	**$ 1,352,157**	**$ 979,109**

See notes to the financial statements.

NOTE B – CASH AND CASH EQUIVALENTS (CONTINUED)

Custodial Credit Risk

Custodial credit risk is the risk that in the event of a bank failure the government's deposits may not be returned. The Authority does not have a policy for custodial credit risk on deposits. At December 31, 2023 and 2022, the carrying amounts of the Authority's deposits were $1,351,857 and $978,809, respectively, with corresponding bank balances of $1,448,302 and $1,082,134, respectively. At December 31, 2023 and 2022, the Authority had $294,436 and $284,165, respectively, invested in a certificate of deposit.

Of the bank balances at December 31, 2023 and 2022, $750,000 was covered by federal depository insurance and $992,738 and $616,299, respectively, were exposed to custodial credit risk because they were uninsured and the collateral held by the depository's agent was not in the Authority's name.

NOTE C – CAPITAL ASSETS

Capital assets activity for the year ended December 31, 2023 is as follows:

	Beginning Balance	*Increases*	*Decreases*	*Ending Balance*
Capital assets not being depreciated:				
Land	$ 63,091	$ -	$ -	$ 63,091
Construction in progress	3,345,434	3,070,450	-	6,415,884
Total capital assets not being depreciated	3,408,525	3,070,450	-	6,478,975
Capital assets being depreciated:				
Plant and equipment	20,683,206	-	-	20,683,206
Less accumulated depreciation for:				
Plant and equipment	(8,194,505)	(361,512)	-	(8,556,017)
Total capital assets being depreciated, net	12,488,701	(361,512)	-	12,127,189
TOTAL CAPITAL ASSETS, NET	**$ 15,897,226**	**$ 2,708,938**	**$ -**	**$ 18,606,164**

RATE INREASE	0.0%	restructure	7.5%	2.0%	3.0%	3.0%	3.0%
Operating Revenues	*2021 Actual*	*2022 Actual*	2023 Budget	2024 Budget	2025 Budget	2026 Budget	2027 Budget
Metered Residential	*1,401,467*	*1,461,476*	1,540,800	1,567,764	1,599,119	1,631,102	1,663,724
Metered Commercial	*406,415*	*452,933*	433,350	440,934	449,752	458,747	467,922
Metered Industrial	*33,105*	*36,895*	36,380	37,017	37,757	38,512	39,282
Metered Public	*33,056*	*39,525*	36,077	36,708	37,443	38,191	38,955
Private Fire Protection	*47,830*	*51,700*	52,430	53,348	54,414	55,503	56,613
Public Fire Protection	*0*	*0*	0	0	0	0	0
Tap In Fees	*2,568*	*0*	2,000	0	2,000	2,000	2,000
Subtotal Operating	*1,924,441*	*2,042,528*	2,101,037	2,135,770	2,180,486	2,224,055	2,268,496

Non-Operating Revenues	*2021 Actual*	*2022 Actual*	2023 Budget	2024 Budget	2025 Budget	2026 Budget	2026 Budget
Bulk Water Sales	*15,573*	*13,523*	13,230	10,000	10,300	10,609	10,927
Bacteria Testing	*17,125*	*25,899*	19,000	14,000	14,420	14,853	15,298
Turn on/off Service	*7,113*	*6,358*	6,000	7,200	7,416	7,638	7,868
DEP Safe Drinking Water Fee	*11,002*	*10,901*	10,000	10,000	10,300	10,609	10,927
Lien Letter Receipts	*3,425*	*4,470*	3,600	4,000	4,120	4,244	4,371
Collection Cost Recovery	*39,625*	*45,040*	43,500	40,000	41,200	42,436	43,709
Misc/Scrap	*763*	*453*	700	700	721	743	765
Work For Others	*6,737*	*2,053*	800	1,000	1,030	1,061	1,093
Sewer Collection Fees	*27,743*	*27,743*	27,743	27,743	27,743	27,743	27,743
Interest Earnings	*6,169*	*1,338*	1,000	5,000	5,150	5,305	5,464
Written Off Acc Recovery	*420*	*627*	800	200	206	212	219
Grant & Property Sale/Lease	*0*	*0*	0	300,000	309,000	318,270	327,818
USB Trust -Reserve Interest	*19*	*2,892*	1,000	6,400	6,592	6,790	6,993
USB Trust -Service Interest	*9*	*1,066*	1,200	10,000	10,300	10,609	10,927
USB Capital Interest	*2*	*254*	125	1,800	1,854	1,910	1,967
Subtotal Non-Operating	*135,725*	*142,619*	128,698	438,043	450,352	463,030	476,089

TOTAL REVENUES	*2,060,166*	*2,185,147*	2,229,735	2,573,813	2,630,838	2,687,086	2,744,585

EXPENSES GREENVILLE WATER AUTHORITY APPROVED 2024 BUDGET

General & Administration	*2021 Actual*	*2022 Actual*	2023 Budget	2024 Budget	2025 Budget	2026 Budget	2027 Budget
Authority Board	*6,000*	*6,000*	6,000	6,000	6,000	6,000	6,000
Office Salaries	*135,290*	*129,686*	148,000	172,000	177,160	182,475	187,949
Operating Expense	*40,056*	*44,677*	43,428	44,731	46,073	47,455	48,879
Contracted Services	*37,478*	*40,296*	44,001	45,321	46,681	48,081	49,524
Utilities	*6,882*	*7,750*	12,000	14,400	14,832	15,277	15,735
Office Bldg Maint.	*0*	*0*	0	1,000	1,030	1,061	1,093
Permits	*12,895*	*16,370*	15,000	15,000	15,450	15,914	16,391
Gen/Adj Bank Fees	*5,992*	*8,979*	8,100	8,375	8,627	8,885	9,152
Engineer Retainer	*5,200*	*6,000*	6,000	6,000	6,180	6,365	6,556
Legal & Professional	*25,862*	*46,715*	22,000	38,000	39,140	40,314	41,524
Insurance Premiums	*36,003*	*37,741*	43,050	45,203	46,559	47,955	49,394
FICA	*39,150*	*43,405*	45,000	47,700	49,131	50,605	52,123
Health Benefits	*131,885*	*134,843*	155,250	177,775	183,108	188,601	194,260
Mileage Reimbursement	*624*	*934*	1,200	1,000	1,030	1,061	1,093
Educ/Safety/Med	*4,697*	*3,771*	5,000	10,000	10,300	10,609	10,927
Unemploy-Comp	*3,901*	*3,510*	5,170	5,346	5,506	5,671	5,841
Retirement	*0*	*924*	0	0	0	0	0
Court Fees	*207*	*861*	500	500	515	530	546
Sick Time Buyout				42,000			
Provision for Renewal (Depreciation)	*369,597*	*328,000*	328,000	328,000	328,000	328,000	328,000

Subtotals do not include "provision for renewals." In General, Expenses Based On 3.4% Increase Yearly

SubTotal G & A Expenses	*492,122*	*532,461*	559,699	638,351	657,321	676,861	696,987

EXPENSES GREENVILLE WATER AUTHORITY APPROVED 2024 BUDGET

Treatment Plant	2021 Actual	2022 Actual	2023 Budget	2024 Budget	2025 Budget	2026 Budget	2027 Budget
Operating Labor	199,025	210,501	200,000	241,000	248,230	255,677	263,347
Overtime Labor	4,006	11,609	6,500	6,500	6,500	7,000	7,500
Operating Expense	14,741	24,364	19,000	19,760	20,550	21,372	22,227
Treat-Chemicals	121,209	148,360	185,000	151,200	132,000	133,000	133,000
Contracted Service	37,852	50,997	42,000	45,000	46,350	47,741	49,173
Utilities	44,496	50,795	51,000	53,000	56,000	59,000	59,000
Lab Chemicals	21,030	36,816	35,000	35,000	28,000	29,000	29,000
SubTotal Treatment	442,359	533,442	538,500	551,460	537,630	552,790	270,847

Hadley Rd. Booster Pump	2021 Actual	2022 Actual	2023 Budget	2024 Budget	2025 Budget	2026 Budget	2027 Budget
Electric / Building	0	0	0	0	0	0	0
Electric / Pumps	5,575	5,992	7,000	6,000	8,000	8,100	8,200
Heating (gas)	776	1,069	1,800	1,900	2,500	2,600	2,600
Pump Maint.	0	0	0	0	0	0	0
Contracted Service	0	0	0	0	0	0	0
SubTotal Pumping	6,351	7,061	8,800	7,900	10,500	10,700	8,200

Distribution	2021 Actual	2022 Actual	2023 Budget	2024 Budget	2025 Budget	2026 Budget	2027 Budget
Operating Labor	170,591	191,064	213,000	242,000	249,260	256,738	264,440
Labor Overtime	3,105	18,519	7,500	8,500	8,755	9,018	9,288
Services Material	3,414	1,600	4,000	2,500	2,575	2,652	2,732
Mains Material	13,815	18,391	16,000	4,000	4,120	4,244	4,371
Meters Material	14,430	8,488	15,000	1,000	1,030	1,061	1,093
Operating Expense	19,048	15,570	27,000	12,000	12,360	12,731	13,113
Contracted Service	53,785	130,660	65,000	89,000	66,950	68,959	71,027
Vehicle Expense	1,709	2,134	3,000	4,500	4,635	4,774	4,917
Gasoline Expense	6,138	9,481	9,500	6,000	6,180	6,365	6,556
SubTotal Distribution	286,035	395,907	360,000	369,500	355,865	366,541	377,537

TOTAL EXPENSES	1,226,867	1,468,870	1,466,999	1,567,211	1,561,316	1,606,891	1,353,571

Treatment Plant	*2021 Actual*	*2022 Actual*	2023 Budget	2024 Budget	2025 Budget	2026 Budget	2027 Budget
Lab and Plant Equip Improvement: Capital or Expense	*106,104*	*101,587*	20,000	39,900	10,000	10,000	10,000
Raw/Finish Pumps Improvement: Capital or Expense	*2,106*	*29,860*	25,000	0	1,000	1,000	1,000
Facilites Improvement: Capital or Expense	*2,106*	*29,860*	25,000	34,000	1,000	1,000	1,000
Sludge Press & Equip Improvement: Capital or Expense	*0*	*2,555*	4,000	6,070	70,000	70,000	70,000
Sub Total - Plant	*110,316*	*163,863*	74,000	79,970	82,000	82,000	82,000

Distribution	*2021 Budget*	*2022 Actual*	2023 Budget	2024 Budget	2025 Budget	2026 Budget	2027 Budget
Building & Lot Repairs Capital or Expense	*5,806*	*0*	0	0	0	0	0
New Vehicles - Capital	*300*	*0*	0	0	0	0	0
Hydrant/Valve Replace Capital or Expense	*0*	*1,147*	7,000	9,000	9,000	9,000	9,000
Power Equipment Capital or Expense	*0*	*4,000*	4,000	15,000	4,000	4,000	4,000
Main/Service Line Improvements - Capital	*200*	*0*	2,000	200,000	0	0	0
Storage Tanks	*0*	*0*	0	0	0	0	0
Sub Total - Distribution	*6,306*	*5,147*	13,000	224,000	13,000	13,000	13,000

Office	*2021 Budget*	*2022 Actual*	2023 Budget	2024 Budget	2025 Budget	2026 Budget	2026 Budget
Admin/Billing Equipment - Capital	*20,000*	*0*	0	7,000	5,000	5,001	5,001
Sub - Total Office	*20,000*	*0*	0	7,000	5,000	5,001	5,001

Total	*136,622*	*169,010*	62,000	310,970	100,000	100,001	100,001

FUNDED FROM AVAILABLE CASH IN REVENUE ACCOUNT

DEBT SERVICE	2021 Actual	2022 Actual	2023 Budget	2024 Budget	2025 Budget	2026 Budget	2027 Budget
Pennvest Princ/Int Dist Improvement (paid in 2033)	247,000	246,997	247,000	247,000	247,000	247,000	247,000
USB Bonds Princ/Int (Pay off 2024)	287,838	285,151	281,100	201,825	0	0	0
PENNVEST - West tank & dist system improvements 2018	132,537	108,365	132,537	109,000	132,537	132,537	132,537
PENNVEST - Phase II				212,574	212,574	212,574	212,574
Total Debt. Service	667,375	640,513	664,087	770,399	592,111	379,537	379,537

SUMMARY	2021 Actual	2022 Actual	2023 Budget	2024 Budget	2025 Budget	2026 Budget	2027 Budget
Revenues	2,060,166	2,185,147	2,229,735	2,573,813	2,630,838	2,687,086	2,744,585
Expenses	1,226,866	1,468,870	1,466,999	1,567,211	1,561,316	1,606,891	1,353,571
Net Revenue	833,301	716,277	762,736	1,006,603	1,069,521	1,080,194	1,391,014
Capital Improvements	120,323	169,010	62,000	310,970	100,000	100,001	100,001
Debt. Service	667,375	640,513	664,087	770,399	592,111	379,537	379,537
Indenture Coverage	1.25	1.12	1.15	1.307	1.81	2.85	3.67
Balanced Budget +/-	45,602	(93,246)	36,649	(74,766)	377,411	600,656	911,476

When Calculating Indenture Coverage, Divide Net Revenue by Debt Service - Must Be No Less Than 1.10

Available for Capital	165,926	75,764	98,649	236,204	477,411	700,657	1,011,477

	2021 Actual	2022 Actual	2023 Actual	2024 Budget	2025 Budget
Treatment Chemicals	$118,690	$148,360	$136,898	$151,200	$132,000
Utilities	44,496	50,795	49,313	53,000	56,000
Lab Chemicals	21,030	36,816	33,853	35,000	28,000
Electric / Pumps	5,575	5,992	5,926	6,000	8,000
Assummed Production Cost	$189,791	$241,963	$225,990	$245,200	$224,000
Plant Production (gallons)	208,815,000	230,415,000	211,591,000		
Production Cost Per gallon	0.0009089	0.0010501	0.0010681		
Unaccounted for Water (gallons)	58,259,385	51,382,545	46,126,838		
Unaccounted for Water Perecentage *	27.9%	22.3%	21.8%	21.8%	21.8%
Cost of Unaccounted for Water	$52,952	$53,958	$49,266	$53,454	$48,832
	Value	Value	Value	Value	Value
Capitalization Rates:					
4.26%	$1,242,997	$1,266,614	$1,156,475	$1,254,779	$1,146,291
8.25%	$641,839	$654,033	$597,161	$647,922	$591,903
11.00%	$481,379	$490,525	$447,871	$485,942	$443,927
Midpoint	$862,188	$878,569	$802,173	$870,361	$795,109
Use				**$833,000**	

* - 2023 actual assumed for 2024 and 2025 budget

Customers by Address Type 7/2/2024

	Count	EDU	Multi Unit Count	
Residential	2575	2909	69	
Private Fire	56	56	0	
Commercial	289	330	26	
Public	28	28	0	
Industrial	3	3	0	
Address Type Totals	2951	3326	95	1.127075568

Account #	Account Name	Service Address	City	State	Zip	Municipality	Route	Sequence	Address Type	Units
1-5	Keystone Adolescent Center	21 N. Main St #201	Greenville	PA	16125	Greenville	1	375	Residential	1
2-2	Keystone Adolescent Center	21 N. Main St. #101	Greenville	PA	16125	Greenville	1	370	Residential	1
3-1	Keystone Adolescent Center	358 S. Main St.	Greenville	PA	16125	Greenville	1	365	Residential	1
5-1	Shane Wareham	43 N. Main St.	Greenville	PA	16125	Greenville	1	75	Residential	1
6-0	Mrs. Edward Stevenson	45 N. Main St.	Greenville	PA	16125	Greenville	1	80	Residential	1
7-2	Vacant	47 N. Main St.	Greenville	PA	16125	Greenville	1	85	Residential	1
8-0	Zina L. Long	49 N. Main St.	Greenville	PA	16125	Greenville	1	90	Residential	1
9-6	Linda Calawa	51 N. Main St.	Greenville	PA	16125	Greenville	1	95	Residential	1
10-10	Kathleen Leonard	53 N. Main St.	Greenville	PA	16125	Greenville	1	100	Residential	1
11-11	Ryan Dillon	9 First Ave.	Greenville	PA	16125	Greenville	1	105	Residential	1
12-0	Elizabeth Wittenberg	11 First Ave.	Greenville	PA	16125	Greenville	1	110	Residential	1
13-6	Beth Jordan	71 N. Main St.	Greenville	PA	16125	Greenville	1	115	Residential	1
14-1	John M. Gibson	73 N. Main St.	Greenville	PA	16125	Greenville	1	120	Residential	1
15-1	Community Counseling Center	77 N. Main St.	Greenville	PA	16125	Greenville	1	125	Commercial	1
16-1	Vacant	81 N. Main St.	Greenville	PA	16125	Greenville	1	130	Commercial	1
17-0	Regional Greenville-Valley Eye	2 Second Ave.	Greenville	PA	16125	Greenville	1	135	Commercial	1
18-0	UPMC	97 N. Main St	Greeville	PA	16125	Greenville	1	140	Commercial	1
19-1	Community Conseling Center	103 N. Main St.	Greenville	PA	16125	Greenville	1	145	Commercial	1
20-2	Dan & Cheryl Moore	105 N. Main St. #101 & 201	Greenville	PA	16125	Greenville	1	150	Residential	2
21-1	PA Artifical Limb & Brace Co.	111 N. Main St. Apt. 201	Greenville	PA	16125	Greenville	1	155	Commercial	2
22-2	PA Artifical Limb & Brace Co	111 N. Main St., Suite 101	Greenville	PA	16125	Greenville	1	160	Commercial	1
23-0	Jeffrey L. Peebles	6 Third Ave.	Greenville	PA	16125	Greenville	1	170	Residential	1
24-3	Stephen Maietta	8 Third Ave.	Greenville	PA	16125	Greenville	1	175	Residential	1
25-4	Rinella Rentals	7 Third Ave.	Greenville	PA	16125	Greenville	1	180	Residential	1
26-0	Stephen Harakal	3 Third Ave.	Greenville	PA	16125	Greenville	1	165	Residential	1
27-1	Charles Gulland DMD P.C.	125 A N. Main St.	Greenville	PA	16125	Greenville	1	225	Commercial	1
28-2	UPMC Pittsburgh Physicians	125 B N Main St	Greenville	PA	16125	Greenville	1	230	Commercial	1
30-1	Joshua Johnson	25 Leech Rd.	Greenville	PA	16125	Hempfield	50	500	Residential	1
33-0	Todd Musser	28 Leech Rd.	Greenville	PA	16125	Hempfield	50	502	Residential	1
34-1	Eric Leonard	31 Leech Rd.	Greenville	PA	16125	Hempfield	50	504	Residential	1
35-1	Mario Marini	32 Leech Rd.	Greenville	PA	16125	Hempfield	50	508	Residential	1
36-1	Justine Brenot	33 Leech Rd.	Greenville	PA	16125	Hempfield	50	506	Residential	1
37-0	Linda Cummings	46 N. Main St.	Greenville	PA	16125	Greenville	1	70	Commercial	1
38-9	Donald Pisor	44 N. Main St.	Greenville	PA	16125	Greenville	1	65	Residential	1
39-3	Linda Marrie	40 N. Main St.	Greenville	PA	16125	Greenville	1	60	Residential	1
40-1	CIME Properties	36 N. Main St.	Greenville	PA	16125	Greenville	1	55	Residential	5
41-2	Rebecka Deeter	34 N. Main St.	Greenville	PA	16125	Greenville	1	50	Residential	1
42-2	Sally Johnston	28 N. Main St.	Greenville	PA	16125	Greenville	1	45	Residential	1
43-3	Vacant	26 N. Main St.	Greenville	PA	16125	Greenville	1	40	Residential	1
44-3	Pete Wickline	22 N. Main St.	Greenville	PA	16125	Greenville	1	35	Residential	1
45-2	Suzette Kineston	20 N. Main St.	Greenville	PA	16125	Greenville	1	30	Residential	1
46-2	Frank Vanderslice	16 N. Main St.	Greenville	PA	16125	Greenville	1	25	Residential	1
47-2	Frank H. Vanderslice	14 N. Main St.	Greenville	PA	16125	Greenville	1	20	Residential	1
48-2	Frank Vanderslice	12 N. Main St.	Greenville	PA	16125	Greenville	1	15	Residential	1
49-0	Frank Vanderslice	10 N. Main St.	Greenville	PA	16125	Greenville	1	10	Residential	1
50-5	Tabitha Beach & Adam May	350 Main St.	Greenville	PA	16125	Greenville	1	5	Residential	1
51-1	Primary Health	348 Main St. Suite # 202	Greenville	PA	16125	Greenville	1	390	Commercial	1
52-2	Perry Trust	348 Main St. Suite # 201	Greenville	PA	16125	Greenville	1	385	Commercial	1
53-0	Restaurant Arby's # 1320	340 Main St.	Greenville	PA	16125	Greenville	1	391	Commercial	1
59-0	Greenville Area Public Library	332 Main St.	Greenville	PA	16125	Greenville	1	400	Public	1
60-5	Thanh Tran	326 Main St.	Greenville	PA	16125	Greenville	1	405	Commercial	1
61-0	Joes Pizza	324 Main St.	Greenville	PA	16125	Greenville	1	410	Commercial	1
62-2	Joseph Henegan	320 Main St.	Greenville	PA	16125	Greenville	1	415	Commercial	1
63-5	Sky Realty Group LLC	318 Main St	Greenville	PA	16125	Greenville	1	420	Commercial	1
64-0	Greenville Borough-Railroad Park	314 Main St G'ville Railroad Park	Greenville	PA	16125	Greenville	1	425	Public	1
66-0	Southern Corp. Norfolk	306-310 Main St.	Greenville	PA	16125	Greenville	1	430	Commercial	1
67-0	Verizon	300 Main St.	Greenville	PA	16125	Greenville	1	435	Commercial	1
70-0	Sheetz Inc #139	294 Main St.	Greenville	PA	16125	Greenville	1	440	Commercial	1
71-0	Army Salvation	288 Main St.	Greenville	PA	16125	Greenville	1	445	Commercial	2
72-0	Norma Hayne (Laundry Rm)	286 Main St.	Greenville	PA	16125	Greenville	1	450	Residential	1
73-12	Jessica Burnett	286 Main St. B01	Greenville	PA	16125	Greenville	1	455	Residential	1
74-2	Sarah Seeley	286 Main St. #101	Greenville	PA	16125	Greenville	1	460	Residential	1
75-18	Brandon Thrasher	286 Main St. #201	Greenville	PA	16125	Greenville	1	465	Residential	1
76-31	Gustan Redick	286 Main St. # 301	Greenville	PA	16125	Greenville	1	470	Residential	1
77-24	Vacant	284 Main St. B01	Greenville	PA	16125	Greenville	1	475	Residential	1
78-19	Wesley Oakes	284 Main St. #101	Greenville	PA	16125	Greenville	1	480	Residential	1
79-25	Amy Jo Blessing	284 Main St. #201	Greenville	PA	16125	Greenville	1	490	Residential	1
80-28	Dale Segar	284 Main St. #301	Greenville	PA	16125	Greenville	1	495	Residential	1
81-1	Vacant	282 Main St.	Greenville	PA	16125	Greenville	1	500	Commercial	1
82-12	Christina Bozzo	1 Louisa Ave. #201	Greenville	PA	16125	Greenville	1	505	Residential	1
83-8	Charles Blackmon	1 Louisa Ave. #301	Greenville	PA	16125	Greenville	1	510	Residential	1
84-0	American Legion Post	278 Main St.	Greenville	PA	16125	Greenville	1	515	Commercial	1
85-1	Vacant	272 Main St.	Greenville	PA	16125	Greenville	1	520	Commercial	1

	Greenville, PA Data & Demographics (As of July 1, 2023)	*Township Of Hempfield Data & Demographics (As of July 1, 2023)*	*Township Of West Salem Data & Demographics (As of July 1, 2023)*	*Township Of Sugar Grove Data & Demographics (As of July 1, 2023)*
POPULATION				
Total Population	5,610 (100%)	3,657 (100%)	3,278 (100%)	921 (100%)
Population in Households	5,014 (89.4%)	3,501 (95.7%)	2,922 (89.1%)	921 (100.0%)
Population in Families	3,676 (65.5%)	2,911 (79.6%)	2,299 (70.1%)	764 (83.0%)
Population in Group Quarters1	596 (10.6%)	156 (4.3%)	356 (10.9%)	0
Population Density	2,973	258	89	74
Diversity Index2	25	12	12	10
INCOME				
Median Household Income	$52,811	$61,895	$51,746	$55,963
Average Household Income	$71,746	$92,953	$70,898	$70,707
% of Income for Mortgage4	11%	20%	18%	20%
Per Capita Income	$28,283	$40,435	$28,037	$31,246
Wealth Index5	52	92	56	53
HOUSING				
Total HU (Housing Units)	2,559 (100%)	1,750 (100%)	1,443 (100%)	426 (100%)
Owner Occupied HU	1,209 (47.2%)	1,236 (70.6%)	1,069 (74.1%)	377 (88.5%)
Renter Occupied HU	976 (38.1%)	352 (20.1%)	215 (14.9%)	30 (7.0%)
Vacant Housing Units	374 (14.6%)	162 (9.3%)	159 (11.0%)	19 (4.5%)
Median Home Value	$97,529	$210,577	$157,573	$186,856
Average Home Value	$169,251	$239,846	$171,632	$244,629
Housing Affordability Index3	186	109	126	111
HOUSEHOLDS				
Total Households	2,185	1,588	1,284	407
Average Household Size	2.29	2.2	2.28	2.26
Family Households	1,215	1,090	802	286
Average Family Size	3	3	3	3

Appendix A
Resolution 03 -23
Approved 11/08/2023

THE MUNICIPAL AUTHORITY OF THE BOROUGH OF GREENVILLE
APPROVED WATER RATES 2024

Meter Size	2024 Service Fee	PA DEP Safe Drinking Water Fee
5/8"	$21.93	$0.30
5/8" X 3/4"	$21.93	$0.30
3/4"	$36.55	$0.30
1"	$58.48	$0.30
1 1/2"	$123.33	$0.30
2"	$195.50	$0.30
3"	$391.89	$0.30
4"	$569.51	$0.30
6"	$1,540.48	$0.30

MONTHLY CONSUMPTION CHARGES BLOCK RATE, PER THOUSAND	
Volume Consumed	Cost per unit
1,000 gallons or less	$6.58
2,000 - 5,000 gallons	$9.43
6,000 - 199,000 gallons	$9.87
200,000 gallons or more	$7.68

Appendix A
Resolution 03 -23
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THE MUNICIPAL AUTHORITY OF THE BOROUGH OF GREENVILLE
APPROVED WATER RATES 2024

Miscellaneous Charges 2024	
Turn On Fee	$25.00
Turn Off Fee	$25.00
Re-Connection Fee	$35.00
Certificate of Mailing	$10.00
Meter Testing Fee	$20.00
Bacteria Testing Fee	$30.00
Mineral Testing Fee	$30.00
Lien Letter Request	$30.00
NSF or Returned Payment Fee	$45.00
Water Meter Replacement	Actual Cost
Transfer Fee	$5.00

Private Fire Protection 2024	
Private Hydrant	$60.04
sprinklers -- 2" line	$10.86
sprinklers -- 4" line	$45.63
sprinklers -- 6" line	$60.04
sprinklers -- 8" line	$103.36



Greenville Municipal Water Authority

2022 Water Quality Report

PWSID: 6430037
Website: http://gmwa.info

Este informe contiene información muy importante sobre su agua de beber. Tradúzcalo ó hable con alguien que lo entienda bien. *(This report contains very important information about your drinking water. Translate it, or speak with someone who understands it.)*

About Your Drinking Water

Greenville Municipal Water Authority (GMWA) is pleased to provide you with its 2022 Annual Water Quality Report. The report summarizes the quality of water GWMA provided in 2022 including details about its water source, what the water at your tap contains, and how it compares to standards set by regulatory agencies. Although the report lists only those regulated substances that were detected in your water, we test for more than what is reported. This report is only a summary of our testing during 2022. If you have questions about this report please contact Jessica Kent, Manager, at 724-588-4340 or visit our website at http://www.gmwa.info.

We want you to be informed about your tap water. If you want to learn more, please contact GMWA or attend any of our regularly scheduled board meetings held on the second Wednesday of every month at 44 Clinton Street, Greenville PA 16125 at 4:30 PM.

Source of Supply

The source of water for GMWA comes from the Shenango River. A Source Water Assessment of our source was completed by the PA Department of Environmental Protection (PA-DEP) in 2003. The Assessment found that our source is potentially most susceptible to road de-icing materials, accidental spills along roads and leaks in underground storage tanks. Overall, our source has little risk of significant contamination. Summary reports of the Assessment are available by writing to Greenville Municipal Water Authority, 44 Clinton Street, Greenville, PA 16125 and is available on the PA-DEP website at www.depweb.state.pa.us (Keyword: "source water"). Complete reports were distributed to municipalities, water suppliers, local planning agencies, and PA-DEP offices. Copies of the complete report are available for review at the PA-DEP Meadville Regional Office, Records Management Unit at 814-332-6899.

The sources of drinking water (tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organics, are byproducts of .386industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally occurring or result from oil and gas production and mining activities.

Substances Expected to be in Drinking Water

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amounts of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's (EPA) Safe Drinking Water Hotline at 800-426-4791.

Our water system is designed and operated to deliver water to our customers' plumbing systems that complies with state and federal drinking water standards. This water is disinfected using chlorine, but it is not necessarily sterile. Customers' plumbing, including treatment devices, might remove, introduce or increase contaminants in tap water. All customers, and in particular operators of facilities like hotels and institutions serving susceptible populations (like hospitals and nursing homes), should properly operate and maintain the plumbing systems in these facilities.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno- compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline at (800-426-4791)



THIS REPORT CONTAINS MANY TERMS AND ABBREVIATIONS THAT MAY NOT BE FAMILIAR TO YOU.

To help better understand these terms, we've provided the following definitions which appear on this page.

Action Level (AL) - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology. MCLs are set at very stringent levels. A person would have to drink 2 liters of water a day for a lifetime to have a one-in-a-million chance of having the identified health effect described for many regulated contaminants.

Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Minimum Residual Disinfectant Level - The minimum level of residual disinfectant required at the entry point to the distribution system.

Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Treatment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water.

Fluoride: Fluoride may help prevent tooth decay for children, but can be harmful in excess. Customers of GWMA receive water from fluoridated supplies. This information may be helpful to you, your pediatrician, or your dentist in determining whether fluoride supplements or treatment are appropriate.

Turbidity: Monitored as a measure of the treatment efficiency for removal of particles. Turbidity is measured in **Nephelometric turbidity units (NTU)** and is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person. The plant performance Level is 0.3 NTU.

Total Organic Carbon: The level reported under "Level Found" for Total Organic Carbon (TOC) is the lowest ratio between percentage of TOC actually removed to the percentage of TOC required to be removed. A value greater than one, (>1), indicates that the water system is in compliance with the TOC removal requirements. A value of less than one, (>1), indicates a Treatment Technique violation of the TOC removal requirements.

ND = Non-Detects: Laboratory analysis indicates the constituent is not present

PWSID: Public water supply identification number

ppm = parts per million, or milligrams per liter (mg/L). One ppm corresponds to one minute in 2 years, or a single penny in $10,000.

ppb = parts per billion, or micrograms per liter (ug/L). One ppb corresponds to one minute in 2,000 years, or a single penny in $10,000,000

ppt = parts per trillion, or nanograms per liter (ng/L). One ppt corresponds to one minute in 2,000,000 years, or a single penny in $10,000,000,000.

mg/L = milligrams per liter (see ppm above)

ug/L = micrograms per liter (see ppb above)

ng/L = micrograms per liter (see ppt above)

< = less than
> = greater than

ADDITIONAL INFORMATION

INFORMATION ABOUT LEAD:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Greenville Municipal Water Authority takes steps to reduce the potential for lead to leach from your pipes into the water. This is accomplished by adding a corrosion inhibitor to the water leaving our treatment facility. However, we cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested.

Greenville Municipal Water Authority is currently updating our customer records to identify homes with lead service lines and homes with copper pipes and lead solder installed between 1983 and 1988. If your home meets these criteria or you're not sure, please contact us to schedule a free evaluation of your plumbing material. You may qualify for free lead and copper testing of your drinking water.

Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead or on the Authority website at www.gmwa.info. For more information about reducing lead exposure, call the office at 724-588-4340 and we will mail you information.

WHAT IS NOT IN YOUR WATER?

In addition to the substances shown in this report, the Greenville Municipal Water Authority tests your water for many other substances which were NOT detected in your water. These tests are routinely conducted according to regulations and procedures outlined in state and federal regulations for safe drinking water.

EMERGENCY NOTIFICATION:

Greenville Municipal Water Authority uses Rave Alerts automated notification system. This system allows the Authority to contact you in the event of a service alert.

VIOLATIONS:

Greenville Municipal Water Authority constantly monitors for various constituents in the water supply to meet all regulatory requirements. Greenville Municipal Water Authority water treatment plant failed to report on time a Coliform sample in the month of February 2022 and a Total Alkalinity result in the month of June 2022. The late reported Coliform sample was one of the ten monthly samples we collect and report every month. The late reported Alkalinity result is used to calculate a percent removal of Total Organic Carbon for Enhanced Coagulation compliance.

We are pleased to report that our drinking water meets Federal and State requirements. We routinely monitor for contaminants in your drinking water according to federal and state laws. The following tables show the results of our monitoring during 2022.The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data is from prior years in accordance with the Safe Drinking Water Act. In those cases, the date has been noted on the sampling results table. Those items that were detected during our testing process are detailed on pages 5-7.

DETECTED SAMPLE RESULTS

Entry Point Disinfectant Residual – measured at the water leaves the treatment facility							
Contaminant	**Minimum Level Required**	**Lowest Level Detected**	**Range of Detections**	**Units**	**Sample Date**	**Violation Y/N**	**Sources of Contamination**
Chlorine	0.20	1.05	1.05 – 3.84	ppm	2022	N	Water additive used to control microbes.

Total Organic Carbon (TOC) Removal - measured at the treatment facility					
Contaminant	**Range of % Removal Required**	**Range of % Removal Achieved**	**Number of Quarters Out of Compliance**	**Violation Y/N**	**Sources of Contamination**
TOC	25 – 35*	-3.2 – 59.5	0	N	Naturally present in the environment

*TOC compliance is determined by a running annual average (RAA) computed quarterly. All of the quarterly RAAs met compliance

Chemical Contaminants								
Contaminant	**MCL in CCR units**	**MCLG**	**Level Detected**	**Range of Detections**	**Units**	**Sample Date**	**Violation Y/N**	**Sources of Contamination**
Chlorine (distribution)	4	MRDLG 4	3.22	1.05 – 3.22	ppm	2022	N	Water additive to control microbes
Haloacetic Acids	60	N/A	39.4 (a)	11.6 – 43.7	ppb	2022	N	By-product drinking water chlorination
Total Trihalomethanes	80	N/A	44.5 (a)	7.63 – 49.0	ppb	2022	N	By-product drinking water chlorination

a) For haloacetic acids and total trihalomethanes, the Level Detected is the highest annual average of the quarterly averages. Compliance is based on a running annual average of quarterly results, not a single sample. The Range of Detections lists the lowest and highest values among all individual samples.

DETECTED SAMPLE RESULTS (continued)

Lead and Copper – 20 sites were sampled							
Contaminant	**Action Level (AL)**	**MCLG**	**90th Percentile Value**	**Units**	**# of Sites Above AL of Total Sites**	**Violation Y/N**	**Sources of Contamination**
Lead (2022)	15	0	1.29	ppb	1 of 20	N	Corrosion of household plumbing
Copper (2022)	1.3	1.3	0.046	ppm	0 of 20	N	Corrosion of household plumbing

Turbidity – a measure of the clarity of the water at the treatment facility						
Contaminant	**MCL**	**MCLG**	**Level Detected**	**Sample Date**	**Violation Y/N**	**Source of Contamination**
Turbidity	TT=1 NTU for a single measurement	N/A	0.386 NTU	6/3/2022	N	Soil runoff
	TT= at least 95% of monthly samples ≤0.3 NTU		99.4%	2022	N	

OTHER MONITORING

Cryptosporidium

Cryptosporidium is a naturally occurring microbial pathogen found in surface water throughout the U.S. Monitoring for Cryptosporidium was conducted under a national program that began in October of 2017 and continued until October 2019 on raw (untreated) water from our source, the Shenango River. Cryptosporidium was detected in 8 of 24 raw water samples, with the highest 12 month mean of 0.074 counts per liter. The results will put GWMA into the lowest category of risk for raw (untreated) water.

Our water treatment processes are designed to remove Cryptosporidium, but complete removal of all organisms at all times cannot be guaranteed. Monitoring of source water indicates the presence of these organisms. Current test methods do not enable us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of Cryptosporidium may cause cryptosporidiosis, an abdominal infection. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people are at greater risk of illness. For this reason, immuno-compromised individuals (people with weakened immune systems) are encouraged to consult their doctor regarding appropriate precautions to avoid infection. Cryptosporidium must be ingested to cause disease and it may be spread through means other than drinking water.

MONITORING FOR UNREGULATED CONTAMINANTS

The 1996 amendments to the Safe Drinking Water Act (SDWA) require that once every five years, the U.S. Environmental Protection Agency (EPA) issue a new list of no more than 30 unregulated contaminants to be monitored by public water systems (PWSs). The Unregulated Contaminant Monitoring Rule (UCMR) provides EPA and other interested parties with scientifically valid data on the occurrence of contaminants in drinking water. These data serve as a primary source of occurrence and exposure information that the agency uses to develop regulatory decisions. If a PWS monitoring for UCMR4 finds contaminants in its drinking water, it must provide the information to its customers in this annual water quality report. Below is a table of the results of our UCMR4 monitoring conducted from 2018 to 2019. All other contaminants tested during UCMR4 were not detected. More information about unregulated contaminants may be found at: https://drinktap.org/Water-Info/Whats-in-My-Water.

UCMR4 MONITORING RESULTS – Detected in 2018-2019

Unregulated Contaminant	Average Detection	Range of Detections	MCL	Information / Sources of Contamination
Manganese, ppb	1.145	0.69 – 1.8	50*	Manganese is a naturally-occurring metal that is essential to the proper functioning of the body. Manganese occurs naturally in both ground and surface water sources, as well as soils that erode into water sources.
HAA5, ppb	27.1	2.42 – 69.4	60	Haloacetic acids (HAA5, HAA6Br, HAA9) are a group of disinfectant byproducts that are formed when disinfectants, such as chlorine or chloramine, are used to treat water and react with naturally occurring organic and inorganic matter present in source waters. Which HAA forms depends on several factors, so HAAs are often tracked and described as groups of individual acidic compounds.
HAA6Br, ppb	6.01	0.57 – 13.4	NA	
HAA9, ppb	33.0	3.03 – 82.8	NA	

* The PA-DEP already regulates manganese with a “secondary” maximum contaminant limit (SMCL). SMCLs are used when the contaminant of interest has no known health effects, but exceeding the limit may adversely affect the aesthetic quality of the water.



Greenville Municipal Water Authority

2023 Water Quality Report

PWSID: 6430037
Website: http://gmwa.info

Este informe contiene información muy importante sobre su agua de beber. Tradúzcalo ó hable con alguien que lo entienda bien. *(This report contains very important information about your drinking water. Translate it, or speak with someone who understands it.)*

About Your Drinking Water

Greenville Municipal Water Authority (GMWA) is pleased to provide you with its 2023 Annual Water Quality Report. The report summarizes the quality of water GWMA provided in 2023 including details about its water source, what the water at your tap contains, and how it compares to standards set by regulatory agencies. Although the report lists only those regulated substances that have been detected in your water, we test for more than what is reported. This report is only a summary of our testing during 2023. If you have questions about this report, please contact the authority manager, Jessica Micco, at 724-588-4340 or visit our website at http://www.gmwa.info.

We want you to be informed about your tap water. If you want to learn more, please contact GMWA or attend any of our regularly scheduled board meetings held on the second Wednesday of every month at 44 Clinton Street, Greenville PA 16125 at 4:30 PM.

Source of Supply

The source of water for GMWA comes from the Shenango River. A Source Water Assessment of our source was completed by the PA Department of Environmental Protection (PA-DEP) in 2003. The Assessment found that our source is potentially most susceptible to road de-icing materials, accidental spills along roads and leaks in underground storage tanks. Overall, our source has little risk of significant contamination. Summary reports of the Assessment are available by writing to Greenville Municipal Water Authority, 44 Clinton Street, Greenville, PA 16125 and is available on the PA-DEP website at www.depweb.state.pa.us (keyword "source water"). Complete reports were distributed to municipalities, water suppliers, local planning agencies, and PA-DEP offices. Copies of the complete report are available for review at the PA-DEP Meadville Regional Office, Records Management Unit at 814-332-6899.

The sources of drinking water (tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and radioactive material and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organics, are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally occurring or result from oil and gas production and mining activities.

Substances Expected to be in Drinking Water

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amounts of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's (EPA) Safe Drinking Water Hotline at 800.426.4791.

Our water system is designed and operated to deliver water to our customers' plumbing systems that complies with state and federal drinking water standards. This water is disinfected using chlorine, but it is not necessarily sterile. Customers' plumbing, including treatment devices, might remove, introduce or increase contaminants in tap water. All customers, and in particular operators of facilities like hotels and institutions serving susceptible populations (like hospitals and nursing homes), should properly operate and maintain the plumbing systems in these facilities.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their healthcare providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline at (800-426-4791)



THIS REPORT CONTAINS MANY TERMS AND ABBREVIATIONS THAT MAY NOT BE FAMILIAR TO YOU.

To help you better understand these terms, we've provided the following definitions:

Action Level (AL) - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology. MCLs are set at very stringent levels. A person would have to drink 2 liters of water a day for a lifetime to have a one-in-a-million chance of having the identified health effect described for many regulated contaminants.

Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Minimum Residual Disinfectant Level - The minimum level of residual disinfectant required at the entry point to the distribution system.

Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Treatment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water.

Fluoride: Fluoride may help prevent tooth decay for children, but can be harmful in excess. Customers of GWMA receive water from fluoridated supplies. This information may be helpful to you, your pediatrician, or your dentist in determining whether fluoride supplements or treatment are appropriate.

Turbidity: Monitored as a measure of the treatment efficiency for removal of particles. Turbidity is measured in **Nephelometric turbidity units (NTU)** and is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person. The plant performance Level is 0.3 NTU.

Total Organic Carbon: The level reported under "Level Found" for Total Organic Carbon (TOC) is the lowest ratio between percentage of TOC actually removed to the percentage of TOC required to be removed. A value greater than one, (>1), indicates that the water system is in compliance with the TOC removal requirements. A value of less than one, (>1), indicates a Treatment Technique violation of the TOC removal requirements.

ND = Non-Detects: Laboratory analysis indicates the constituent is not present

PWSID: Public water supply identification number

ppm = parts per million, or milligrams per liter (mg/L). One ppm corresponds to one minute in 2 years, or a single penny in $10,000.

ppb = parts per billion, or micrograms per liter (ug/L). One ppb corresponds to one minute in 2,000 years, or a single penny in $10,000,000

ppt = parts per trillion, or nanograms per liter (ng/L). One ppt corresponds to one minute in 2,000,000 years, or a single penny in $10,000,000,000.

mg/L = milligrams per liter (see ppm above)

ug/L = micrograms per liter (see ppb above)

ng/L = micrograms per liter (see ppt above)

< = less than
> = greater than

ADDITIONAL INFORMATION

INFORMATION ABOUT LEAD:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Greenville Municipal Water Authority takes steps to reduce the potential for lead to leach from your pipes into the water. This is accomplished by adding a corrosion inhibitor to the water leaving our treatment facility. However, we cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested.

Greenville Municipal Water Authority is currently updating our customer records to identify homes with lead service lines and homes with copper pipes and lead solder installed between 1983 and 1988. If your home meets these criteria or you're not sure, please contact us to schedule a free evaluation of your plumbing material. You may qualify for free lead and copper testing of your drinking water.

Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead or on the Authority website at www.gmwa.info. For more information about reducing lead exposure, call the office at 724-588-4340 and we will mail you information.

WHAT IS NOT IN YOUR WATER?

In addition to the substances shown in this report, the Greenville Municipal Water Authority tests your water for many other substances which were NOT detected in your water. These tests are routinely conducted according to regulations and procedures outlined in state and federal regulations for safe drinking water.

EMERGENCY NOTIFICATION:

Please be sure the authority has your current correct contact information so we can contact you in the unlikely event of a service interruption or emergency.

VIOLATIONS:

Greenville Municipal Water Authority failed to meet monitoring requirements for Total Organic Carbon (TOC) during September. This failure was administrative in nature. The correct number of samples were collected and the results of all samples were within acceptable limits, but the result for one sample was inadvertently omitted during reporting. This resulted in a violation.

TOC has no health effects. However, TOC provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (THMs) and haloacetic acids (HAAs). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver, or kidney problems, and may lead to an increased risk of getting cancer. All disinfection byproducts monitored by GMWA in 2023 as required by PA-DEP were below the MCL. No action by consumers was needed and no alternative water supply was required. If you know someone who may benefit from this information, please share it with them.

No MCL's or Treatment Techniques were exceeded.

We are pleased to report that our drinking water meets Federal and State requirements. We routinely monitor for contaminants in your drinking water according to federal and state laws. The following tables show the results of our monitoring during 2023. The PA-DEP allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data is from prior years in accordance with the Safe Drinking Water Act. In those cases, the date has been noted on the sampling results table. Those items that were detected during our testing process are detailed on pages 5-7.

DETECTED SAMPLE RESULTS

Entry Point Disinfectant Residual – measured at the treatment facility							
Contaminant	**Minimum Level Required**	**Lowest Level Detected**	**Range of Detections**	**Units**	**Sample Date**	**Violation Y/N**	**Sources of Contamination**
Chlorine	0.20	1.38	1.38 – 4.35	ppm	2023	N	Water additive used to control microbes

Total Organic Carbon (TOC) Removal – measured at the treatment facility					
Contaminant	**Range of % Removal Required (minimum)**	**Range of % Removal Achieved**	**Number of Quarters Out of Compliance**	**Violation Y/N**	**Sources of Contamination**
TOC	25 – 45*	41.1 – 73.2%	0	N	Naturally present in the environment

*TOC compliance is determined by a running annual average (RAA) computed quarterly. All of the quarterly RAAs met compliance

Chemical Contaminants – measured in the distribution system								
Contaminant	**MCL in CCR units**	**MCLG**	**Level Detected**	**Range of Detections**	**Units**	**Sample Date**	**Violation Y/N**	**Sources of Contamination**
Chlorine (distribution)	4	MRDLG 4	3.15	2.26 – 3.15	ppm	2023	N	Water additive to control microbes
Haloacetic Acids	60	N/A	27.8 (a)	9.7 – 35.2	ppb	2023	N	By-product drinking water chlorination
Total Trihalomethanes	80	N/A	34.5 (a)	23.0 – 40.8	ppb	2023	N	By-product drinking water chlorination

a) For haloacetic acids and total trihalomethanes, the Level Detected is the highest annual average of the quarterly averages. Compliance is based on a running annual average of quarterly results, not a single sample. The Range of Detections lists the lowest and highest values among all individual samples.

DETECTED SAMPLE RESULTS (continued)

Other Regulated Substances – measured at the treatment facility (continued)								
Contaminant	**MCL in CCR units**	**MCLG**	**Level Detected**	**Range of Detections**	**Units**	**Sample Date**	**Violation Y/N**	**Sources of Contamination**
Calcium	N/A	N/A	27	N/A	ppm	2021	N/A	Natural sources
Dalapon	0.2	N/A	0.0024	0 – 0.0024	ppm	2023	N	Herbicide used to control grasses in a wide variety of crops, including fruit trees, beans, coffee, corn, cotton, and peas
Magnesium	N/A	N/A	6.11	N/A	ppm	2021	N/A	Natural sources
Sodium	N/A	N/A	25.1	N/A	ppm	2021	N/A	Natural constituent of raw water, but its concentration can be increased by pollution sources such as rock salt treatment, run-off, and detergents
Sulfate	250	N/A	18.1	N/A	ppm	2021	N	Natural sources

Lead and Copper – 20 sites were sampled							
Contaminant	**Action Level (AL)**	**MCLG**	**90th Percentile Value**	**Units**	**# of Sites Above AL of Total Sites**	**Violation Y/N**	**Sources of Contamination**
Lead (2022)	15	0	1.29	ppb	1 of 20	N	Corrosion of household plumbing
Copper (2022)	1.3	1.3	0.046	ppm	0 of 20	N	Corrosion of household plumbing

DETECTED SAMPLE RESULTS (continued)

Turbidity – a measure of the clarity of the water at the treatment facility						
Contaminant	**MCL**	**MCLG**	**Level Detected**	**Sample Date**	**Violation Y/N**	**Source of Contamination**
Turbidity	TT=1 NTU for a single measurement	N/A	0.157 NTU	10/2/23	N	Soil runoff
	TT= at least 95% of monthly samples ≤0.3 NTU		99.95%	2023	N	

OTHER MONITORING

Cryptosporidium

Cryptosporidium is a naturally occurring microbial pathogen found in surface water throughout the U.S. Monitoring for Cryptosporidium was conducted under a national program that began in October of 2017 and continued until October 2019 on raw (untreated) water from our source, the Shenango River. Cryptosporidium was detected in 8 of 24 raw water samples, with the highest 12-month mean of 0.074 counts per liter. The results will put GWMA into the lowest category of risk for raw (untreated) water.

Our water treatment processes are designed to remove Cryptosporidium, but complete removal of all organisms at all times cannot be guaranteed. Monitoring of source water indicates the presence of these organisms. Current test methods do not enable us to determine if the organisms are dead or if they are capable of causing disease. Ingestion of Cryptosporidium may cause cryptosporidiosis, an abdominal infection. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people are at greater risk of illness. For this reason, immuno-compromised individuals (people with weakened immune systems) are encouraged to consult their doctor regarding appropriate precautions to avoid infection. Cryptosporidium must be ingested to cause disease and it may be spread through means other than drinking water.

MONITORING FOR UNREGULATED CONTAMINANTS

The 1996 amendments to the Safe Drinking Water Act (SDWA) require that once every five years, the U.S. Environmental Protection Agency (EPA) issue a new list of no more than 30 unregulated contaminants to be monitored by public water systems (PWSs). The Unregulated Contaminant Monitoring Rule (UCMR) provides EPA and other interested parties with scientifically valid data on the occurrence of contaminants in drinking water. These data serve as a primary source of occurrence and exposure information that the agency uses to develop regulatory decisions. If a PWS monitoring for UCMR4 finds contaminants in its drinking water, it must provide the information to its customers in this annual water quality report. Below is a table of the results of our UCMR4 monitoring conducted from 2018 to 2019. All other contaminants tested during UCMR4 were not detected. More information about unregulated contaminants may be found at: https://drinktap.org/Water-Info/Whats-in-My-Water.

UCMR4 MONITORING RESULTS – Detected in 2018-2019

Unregulated Contaminant	Average Detection	Range of Detections	MCL	Information / Sources of Contamination
Manganese, ppb	1.145	0.69 – 1.8	50*	Manganese is a naturally-occurring metal that is essential to the proper functioning of the body. Manganese occurs naturally in both ground and surface water sources, as well as soils that erode into water sources.
HAA5, ppb	27.1	2.42 – 69.4	60	Haloacetic acids (HAA5, HAA6Br, HAA9) are a group of disinfectant byproducts that are formed when disinfectants, such as chlorine or chloramine, are used to treat water and react with naturally occurring organic and inorganic matter present in source waters. Which HAA forms depends on several factors, so HAAs are often tracked and described as groups of individual acidic compounds.
HAA6Br, ppb	6.01	0.57 – 13.4	NA	
HAA9, ppb	33.0	3.03 – 82.8	NA	

* The PA-DEP already regulates manganese with a “secondary” maximum contaminant limit (SMCL). SMCLs are used when the contaminant of interest has no known health effects, but exceeding the limit may adversely affect the aesthetic quality of the water.

THE MUNICIPAL AUTHORITY OF THE BOROUGH OF GREENVILLE

MERCER COUNTY, PENNSYLVANIA

2023 WATER SYSTEM ANNUAL REPORT & 2024 OPERATING BUDGET

Prepared by: Macy E. Divens, PE

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Project No.: 4631.016
Report Dated: February 14, 2024

The Municipal Authority of the Borough of Greenville

Mercer County, Pennsylvania

Entech Project Number: 4631.016

February 2024

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The Municipal Authority of the Borough of Greenville

Mercer County, Pennsylvania

Entech Project Number: 4631.016

February 2024

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1. INTRODUCTION

This Water System Annual Report has been prepared in accordance with the authorization given to Entech Engineering, Inc. (Entech) by The Municipal Authority of the Borough of Greenville (Authority) in accordance with Article VI, Section 6.07 of the Third Supplemental Trust Indenture dated December 29, 2011, which states:

> *"The Consulting Engineer shall be required to report annually on (i) the condition and operation of the Water System, and (ii) on the sufficiency of the Capital Improvements and Redemption Fund. The Capital Improvements and Redemption Fund shall be funded by any additional amounts recommended by the Consulting Engineer. Furthermore, amounts on deposit in the Capital Improvements and Redemption Fund shall be used to replenish any deficiency in the Debt Service Reserve Fund."*

The Annual Report, presented herein, is classified under the following headings:

- Section 2 - Operational and Maintenance Status of Authority Water Facilities
- Section 3 - Revenues and Expenditures
- Section 4 - Capital Improvements and Redemption Fund
- Section 5 - Rates, Rents, and Charges for Water
- Section 6 - Insurance
- Section 7 - Conclusions and Recommendations

This is the eighty-first annual report on the operation of the water system under Authority management. Reports have been submitted annually covering operations since April 1, 1942. Additions and improvements during the past year are reviewed, and the report includes recommendations for additions and improvements, the operating budget for fiscal year 2024, and the capital expenditures proposed for the fiscal year 2024. Information used in this report has been obtained from Authority Management.

1.1. The Authority's Water System Description

The Authority's System is comprised of one (1) treatment plant, five (5) storage tanks, one (1) booster pump station, distribution mains, and associated appurtenances. This system serves Greenville Borough, a portion of Hempfield Township, a portion of West Salem Township, and a portion of Sugar Grove Township. Pertinent information about the Authority and its water system is provided in Section 2.

2. OPERATIONAL AND MAINTENANCE STATUS OF THE AUTHORITY WATER FACILITIES

2.1. System Operational and Maintenance Status

The general performance of all Authority distribution and treatment facilities during Fiscal Year 2023 has been satisfactory. Management reports that all Authority facilities have functioned well throughout the year, with the exception of the raw water intake pumps and the filter media. One raw water intake pump was replaced, and the other was rebuilt. The filter media in Filter 4 was noted to have significant fouling. The filter media in Filter 1 has moderate fouling. Filters 2 and 3 have minor fouling. However, this has not impacted the treatment process. The situation is being monitored closely and if it threatens to impact operations, the media will be replaced.

2.2. Water Treatment Plant

The filtration plant contains four (4) filters with a total of 360 square feet of surface area. Considering these filters to be rapid-rate filters with multimedia beds per the PADEP Regulations, the filters can produce 2,000,000 gallons of water per day.

The filtration plant was operated 5,602 hours during the past year for an average of approximately 15.3 hours daily and processed sufficient quantities of water to meet all consumer requirements. A review of operating results indicates that the water produced by the plant met or exceeded the primary drinking water regulations of the Safe Drinking Water Act. The Authority owns a portable generator capable of powering the plant in the event of an outage.

Paperwork to support the renewal of the NPDES discharge permit was completed and submitted to PADEP on May 4, 2022; The Authority continues to await the issuance of the revised draft NPDES permit.

2.3. Distribution System

The distribution system has been properly maintained during the past year. Hydrants were regularly inspected, and repairs were made to the distribution system as required to provide minimum service interruption to customers.

A review of the operating records indicates that the Authority has continued to improve distribution and service facilities during the past year and has operated and maintained them in accordance with accepted waterworks practices.

The Authority also continued an ongoing inspection of fire hydrants and turned valves to keep the system's components operational. The Authority conducted system-wide flushing activities in April and October.

In 2023, four (4) main and three (3) service line leaks were repaired; two (2) distribution system valves were replaced; four (4) hydrants were repaired; and six (6) remote meters were installed. These items were independent of the Phase II Waterline Replacement work under the below-mentioned contract.

The Authority also secured $3,851,854 in **low-interest loan** funding from PENNVEST for Phase II Waterline Work, awarded in 2022. Phase II Work was divided into two (2) construction contracts awarded to two (2) different contractors:

- Contract 2022-01: Waterline Replacement Project
  (Mortimer's Excavating, Inc.)
- Contract 2022-02: Hadley Road Booster Pump Station Relocation
  (Gildea Group, LLC)

Contract 2022-01 replaced approximately 9,600 lineal feet of water main and associated appurtenances in Greenville Borough and Hempfield Township. Work on the project, including restoration, is complete.

Contract 2022-02 aims to replace the Hadley Road Booster Pump Station with a new, packaged station to be located on Fourth Avenue. At the time of this report, the foundation for the new pump station has been completed and is ready for the packaged station to arrive. Start-up is anticipated in early 2024.

2.4. Hadley Road Booster Pump Station

The Hadley Road Booster Pump Station is located at the former treatment facility along Hadley Road and pumps finished water from the plant zone to the east pressure zone. Operation of the pump station is based on the water levels in the Hadley Road Tanks. The Authority's portable generator can power the station during a power outage.

The new booster pump station is currently being constructed on an easement on a nearby property owned by UPMC Horizon, a health care facility. Construction completion is anticipated in Q1/Q2 2024.

2.5. Distribution Storage Facilities

The exterior surfaces and grounds surrounding the two (2) 750,000-gallon, the 255,000-gallon, the high-level 250,000-gallon, and the 1,000,000-gallon storage tanks are maintained in a satisfactory manner.

It is recommended that the Authority continue the annual inspection and maintenance program for all distribution storage tanks. This program will identify potential problems before they become significant and costly.

The water storage tanks were last painted as shown in Table 2-1:

Table 2-1: Tank Painting History

Storage Unit	Volume (Gallons)	Year Last Painted
North Tank	750,000	2018
South Tank	750,000	2018
West Main Street Tank	255,000	2005
Hadley Road Tank #1	250,000	2014
Hadley Road Tank #2	1,000,000	2010

2.6. General Office Structures and Equipment

The general office structure has been well maintained and is adequate in size for the Authority operations.

Adequate small tools and repair equipment are available and maintained in good condition for repairs and service to customers.

2.7. Customers

The total number of customers according to consumer classifications listed on the books of the Authority as of December 31, 2023, compared with those listed at the end of 2022, is as presented in Table 2-2.

Table 2-2: Number of Customers, By Classification (2-Year)

Classification	December 31, 2022	December 31, 2023
Residential	2,408	2,404
Commercial	249	246
Industrial	2	3
Public	20	24
Private Fire Protection	58	56
Public Fire Protection	0	0

2.8. Use of Water

Table 2-3 provides a comparison of the amount of water sold by consumer classification for the past five (5) years:

Table 2-3: Customer Sales, By Classification (5-Year)

Classification	Total Volume Sold (1,000 Gallons)				
	2019	2020	2021	2022	2023
Residential	93,080	93,274	90,891	91,012	89,888
Commercial	44,723	36,479	39,899	41,172	38,735
Industrial	3,531	2,419	3,581	3,430	2,704
Public	10,857	9,899	8,427	11,252	12,389
Bulk Sales	1,173	1,170	1,517	1,341	1,082
TOTALS:	**153,364**	**143,241**	**144,315**	**148,207**	**144,798**

Sales to metered consumers totaled 144,798,000 gallons, or a daily average of approximately 396,707 gallons in 2023. This represents an overall decrease in total sales of 3,409,000 gallons or 9,339 gallons per day from 2022.

The breakdown of 2023 sales per customer class indicates (from largest increase to smallest decrease):

- Public Sales: 1,137,000-gallon increase,
- Commercial Sales: 2,437,000-gallon decrease
- Residential Sales: 1,124,000-gallon decrease,
- Industrial Sales: 726,000-gallon decrease; and
- Bulk Sales: 259,000-gallon decrease.

2.9. Water Treatment Plant Operation

Table 2-4 lists plant output, quantity of water sold, water used in plant operation, daily average output, and the percentage of unbilled water for the past ten (10) years.

Table 2-4: Plant Throughput and Unbilled (10-Year)

Year	Plant Output [1]	Daily Average Output [1]	Sold [1]	Other [1,2]	Percentage Unbilled
2023	211,591	579	144,798	5,400	21.8
2022	230,415	631	148,207	6,669	22.3
2021	208,815	572	144,315	6,152	27.9
2020	213,521	583	143,241	14,365	26.2
2019	216,733	594	153,364	9,962	24.6
2018	217,106	595	154,831	6,166	28.7
2017	211,989	581	154,120	4,000	25.2
2016	224,767	614	153,880	4,108	29.7
2015	255,681	700	162,788	15,570	30.2
2014	255,805	701	170,087	0	33.5
2013	255,760	701	177,081	15,000	30.8

Notes: *[1]Units in 1,000 gallons*

[2]Estimated for fire hydrant flushing

The unbilled percentage is based on the Plant Output and Water Sold values and accounts for unmetered water usage from hydrant flushing, automatic flushing device operation, leaks, tank drawdowns, fire protection, etc.

Table 2-5 compares chemical usage and costs for the last two (2) years:

Table 2-5: Chemical Usage and Cost (2-Year)				
	2022		2023	
Chemical	Usage (lbs)	Total Cost	Usage (lbs)	Total Cost
Activated Carbon	0	$0	0	$0
AquaMag (gal)	441	$6,799	340	$5,819
Caustic Soda	64,597	$36,503	50,219	$25,110
Chlorine	10,240	$21,928	8,886	$22,306
Fluoride	13,831	$7,816	10,732	$6,604
Polymer N1986	152	$490	78	$889
DelPAC	294,634	$66,320	245,751	$60,700
300-53 Polymer (Sludge Press)	1,911	$3,480	1,946	$3,640
Potassium Permanganate	1,625	$4,392	1,494	$4,308
Ammonium Sulfate	15,876	$7,833	14,830	$7,416
TOTALS:		**$155,561**		**$145,783**

In comparison to prices seen in 2022, the price of treatment chemicals began to stabilize in 2023. This is reflected in the decrease of the overall cost of treatment chemicals at the plant. Dosage rates for chemicals were also adjusted as part of an effort to optimize performance at the treatment plant.

3. REVENUES AND EXPENDITURES

3.1. Revenues and Expenditures

Based on information provided by the Authority, Table 3-1 has been prepared to show the actual 2022 revenues and expenses compared with the projected actual (unaudited) and budgeted revenues and expenses for 2023.

Table 3-1: Revenues and Expenses for 2022, 2023, and 2023 Budget

Operating Revenue	2022 Actual	2023 Year End (unaudited)	2023 Budget
Metered Residential	$1,461,476	$1,556,518	$1,540,800
Metered Commercial	$452,933	$476,011	$433,350
Metered Industrial	$36,895	$36,431	$36,380
Metered Public	$39,525	$48,905	$36,077
Private Fire Protection	$51,700	$52,589	$52,430
Tap in Fees	$0	$0	$2,000
Subtotal Operations Revenue	**$2,042,528**	**$2,170,455**	**$2,101,037**
Non-Operations Revenue			
Bulk Water Sales	$13,523	$13,225	$13,230
Bacteria Testing	$25,899	$17,193	$19,000
Turn On/Off Service Fee	$6,358	$8,212	$6,000
Lien Letter Receipts	$4,470	$4,515	$3,600
Collection Cost Recovery	$45,040	$45,739	$43,500
Miscellaneous/Scrap	$453	$708	$700
DEP Safe Drinking Water Fee	$10,901	$10,783	$10,000
Service Transfer Fee	$-	$1,113	$600
Miscellaneous Income	$-	$753	$0
Work for Others	$2,053	$11,820	$800
Sewer Collection Fees	$27,743	$27,743	$27,743
Interest Earnings	$1,338	$10,261	$1,000
Written Off Account Recovery	$627	$131	$800
USB Trust- Debt Interest	$1,066	$6,484	$1,200
USB Trust - Debt Holdings Interest	$2,892	$12,643	$1,000
USB Capital Interest	$254	$2,011	$125
Subtotal Non-Operations Revenue	**$142,619**	**$177,335**	**$128,698**
Subtotal Operations Revenue	**$2,042,528**	**$2,170,455**	**$2,101,037**
TOTAL REVENUES	**$2,185,147**	**$2,343,790**	**$2,229,735**

Table 3-1 (contd)			
Revenues and Expenses for 2022, 2023, and 2023 Budget			
General & Administrative	**2022 Actual**	**2023 Year End (unaudited)**	**2023 Budget**
Authority Board	$6,000	$6,000	$6,000
Office Salaries	$129,686	$146,580	$148,000
Operating Expense	$44,677	$49,076	$43,428
Contracted Services	$40,296	$38,883	$44,001
Utilities	$7,750	$8,163	$12,000
Office Building Maintenance	$0	$0	$0
Engineering Retainer	$6,000	$6,000	$6,000
Insurance Premiums	$37,741	$40,945	$43,050
Social Security (FICA)	$43,405	$43,411	$45,000
General Adjusted Bank Fees	$8,979	$7,254	$8,100
Unemployment Compensation	$3,510	$3,494	$5,170
Health Benefits	$134,843	$136,572	$155,250
Permits/ Right of Ways	$16,370	$15,845	$15,000
Legal & Professional	$46,715	$57,293	$22,000
Mileage Reimbursements	$934	$638	$1,200
Education/Safety/ Medical	$3,771	$5,567	$5,000
Depreciation	$328,000	$328,000	$328,000
Retirement	$924	$0	$0
Court Fees	$861	$0	$500
Subtotal General Administrative Fees[1]	**$532,461**	**$565,721**	**$559,699**
TREATMENT PLANT			
Operations Labor	$210,501	$196,854	$200,000
Overtime Labor	$11,609	$17,614	$6,500
Operations Expense	$24,364	$21,982	$19,000
Treatment Chemicals	$148,360	$136,898	$185,000
Contracted Services	$50,997	$57,937	$42,000
Utilities	$50,795	$49,313	$51,000
Lab Chemicals	$36,816	$33,853	$35,000
WTP Evaluation	$0	$0	$200,000
Subtotal Purification	**$533,442**	**$514,451**	**$538,500**

Notes: [1] Subtotal does not include "Depreciation"

Table 3-1 (contd)			
Revenues and Expenses for 2022, 2023, and 2023 Budget			
HADLEY ROAD BOOSTER PUMP	**2022 Actual**	**2023 Year End (unaudited)**	**2023 Budget**
Electric	$5,992	$5,926	$7,000
Heating (gas)	$1,069	$1,455	$1,800
Contracted Services	$0	$0	$0
Subtotal Pumping	**$7,061**	**$7,381**	**$8,800**
DISTRIBUTION SYSTEM			
Operations Labor	$191,064	$191,765	$213,000
Labor Overtime	$18,519	$7,713	$7,500
Operation Expense	$15,570	$16,703	$27,000
Mains Material	$18,391	$7,039	$16,000
Services Materials	$1,600	$3,239	$4,000
Meters Material	$8,488	$6,312	$15,000
Contracted Service	$130,660	$62,308	$65,000
Vehicle Expense	$2,134	$4,802	$3,000
Gasoline Expense	$9,481	$6,714	$9,500
Subtotal Distribution	**$395,907**	**$306,595**	**$360,000**
TOTAL EXPENSES	**$1,468,870**	**$1,394,148**	**$1,466,999**

As shown in Table 3-1, for Fiscal Year 2023, unaudited revenues were greater than budgeted operating revenues by $114,055. Unaudited expenses were less than budgeted expenses by $72,851. Net income available for depreciation, debt service, and capital additions was $949,642 (see Table 3-3).

Table 3-2 has been prepared to show the actual (unaudited) revenues and expenses of the Authority compared to the 2023 budget of revenues and expenses adopted by the Authority.

Table 3-2: 2024 Operating Budget		
Operating Revenue	**2023 (unaudited)**	**2024 Budget**
Metered Residential	$1,556,518	$1,567,764
Metered Commercial	$476,011	$440,934
Metered Industrial	$36,431	$37,017
Metered Public	$48,905	$36,708
Private Fire Protection	$52,589	$53,348
Tap in Fees	$0	$0
Subtotal Operations Revenue	**$2,170,455**	**$2,135,770**
Non-Operations Revenue		
Bulk Water Sales	$13,225	$10,000
Bacteria Testing	$17,193	$14,000
Turn On/Off Service Fee	$8,212	$7,200
Lien Letter Receipts	$4,515	$4,000
Collection Cost Recovery	$45,739	$40,000
Miscellaneous/Scrap	$708	$700
DEP Safe Drinking Water Fee	$10,783	$10,000
Work for Others	$11,820	$1,000
Sewer Collection Fees	$27,743	$27,743
Interest Earnings	$10,261	$5,000
Written Off Account Recovery	$131	$200
Grant and Property Sale/Lease	$-	$300,000
USB Trust- Debt Interest	$6,484	$10,000
USB Trust - Debt Holdings Interest	$12,643	$6,400
USB Capital Interest	$2,011	$1,800
Subtotal Non-Operations Revenue	**$177,335**	**$438,043**
TOTAL REVENUES	**$2,343,790**	**$2,573,813**

Table 3-2 (contd)		
2024 Operating Budget		
General & Administrative	**2023 (unaudited)**	**2024 Budget**
Authority Board	$6,000	$6,000
Office Salaries	$146,580	$172,000
Operating Expense	$49,076	$44,731
Contracted Services	$38,883	$45,321
Utilities	$8,163	$14,400
Office Building Maintenance	$0	$1,000
Engineering Retainer	$6,000	$6,000
Insurance Premiums	$40,945	$45,203
Social Security (FICA)	$43,411	$47,700
General Adjusted Bank Fees	$7,254	$8,375
Unemployment Compensation	$3,494	$5,346
Health Benefits	$136,572	$177,775
Permits/ Right of Ways	$15,845	$15,000
Legal & Professional	$57,293	$38,000
Mileage Reimbursements	$638	$1,000
Education/Safety/ Medical	$5,567	$10,000
Depreciation	$328,000	$328,000
Retirement	$0	$0
Court Fees	$0	$500
Sick Time Buyout	$-	$42,000
Subtotal General Administrative Fees[1]	**$565,721**	**$638,351**
TREATMENT PLANT		
Operations Labor	$196,854	$241,000
Overtime Labor	$17,614	$6,500
Operations Expense	$21,982	$19,760
Treatment Chemicals	$136,898	$151,200
Contracted Services	$57,937	$45,000
Utilities	$49,313	$53,000
Lab Chemicals	$33,853	$35,000
WTP Evaluation	$0	$0
Subtotal Purification	**$514,451**	**$551,460**

Notes: [1] Subtotal does not include "Depreciation"

Table 3-2 (contd)		
2024 Operating Budget		
HADLEY ROAD BOOSTER PUMP	**2023 (unaudited)**	**2024 Budget**
Electric	$5,926	$6,000
Heating	$1,455	$1,900
Contracted Services	$0	$0
Subtotal Pumping	**$7,381**	**$7,900**
DISTRIBUTION SYSTEM		
Operations Labor	$191,765	$242,000
Labor Overtime	$7,713	$8,500
Operation Expense	$16,703	$12,000
Mains Material	$7,039	$4,000
Services Materials	$3,239	$2,500
Meters Material	$6,312	$1,000
Contracted Service	$62,308	$89,000
Vehicle Expense	$4,802	$4,500
Gasoline Expense	$6,714	$6,000
Subtotal Distribution	**$306,595**	**$369,500**
TOTAL EXPENSES	**$1,394,148**	**$1,567,211**

The Operating Budgeted Expenses for 2024, included herein, total $1,567,211. This represents an increase of approximately 12.4 percent over the unaudited operating expenses in 2023. Expenses are based on present and anticipated 2024 costs of chemicals, power, contract dewatering of treatment plant sludge, and other operating requirements.

The anticipated revenues from metered sales, fire protection, and tap-in fees are estimated to be approximately $2,135,770 in 2024. Non-operating revenues are estimated to amount to $438,043, which includes the fee charged to the Borough of Greenville and Hempfield Township for billing and collecting sewer charges, interest income from investments, and the sale of the former Hadley Booster Pump Station property upon completion of its decommissioning. On the above basis, total revenues for 2024 have been anticipated to amount to $2,573,813.

3.2. Comparative Statement of Revenues and Debt Service

A comparative statement of operating revenues and debt service for Fiscal Years 2023 and 2024 is shown in Table 3-3. The Budget FY 2024 figures reflect the Fourth Issue Water Revenue Bonds, Series of 2011, dated December 29, 2011, values.

Table 3-3: Comparative Statement of Revenue and Debt Service

	Unaudited FY 2023	**Budget FY 2024**
Net Revenue		
Total Revenue	$2,343,790	$2,573,813
Total Expenses	$1,394,148	$1,567,211
Total Revenue Available for Debt Service	**$949,642**	**$1,006,603**
Debt Service		
Pennvest Princ/Int. Dist. Improvement	$246,997	$247,000
USB Bonds Princ/ Int. Pay off Sept. 2024	$281,100	$201,825
2018 Pennvest	$108,355	$109,000
2022 Pennvest	$117,676	$212,574
Total Debt Service	**$754,128**	**$770,399**
Capital Additions		
Revenue Available for Debt Service	**$949,642**	$**1,006,603**
Total Debt Service	$754,128	$770,399
Available for Capital Additions	**$195,514**	**$236,204**
Coverage Provided	**1.259**	**1.307**

The above summary indicates that revenues produced by the rate schedule effective January 1, 2024, together with other non-operating revenue, will provide revenues for calendar year 2024 that will be sufficient to cover the minimum requirements (1.1) for operating expenses and for debt service as required by the Trust Indenture.

4. CAPITAL IMPROVEMENTS AND REDEMPTION FUND

4.1. Capital Improvements 2023

The cost of capital additions to the plant and equipment of the System in 2023 totaled $56,116. These improvements were sufficient for the proper operation of the Authority's system.

A tabulation of budgeted and actual expenses is shown in Table 4-1.

Table 4-1: Capital Improvements Program 2023

Item	Actual 2023	Budget 2024
Lab & Plant Equipment	$15,349	$39,900
Raw/Finish Pump	$24,537	$0
Facilities Improvement	$-	$34,000
Sludge Press	$3,161	$6,070
Building & Lot Repairs	$0	$0
New Vehicles - Capital	$0	$0
Hydrant & Valves	$9,708	$9,000
Power Equipment	$3,361	$15,000
Main / Service Line Improvements	$0	$200,000
Storage Tanks	$0	$0
Admin/Billing Equipment Capital	$0	$7,000
TOTALS:	**$56,116**	**$310,970**

This does not include substantial capital improvements completed under the Pennvest Phase I Waterline Project. These expenses are tracked separately and reimbursed by Pennvest outside GMWA's annual operating budget.

This also does not include substantial capital improvements completed under the Pennvest Phase II Waterline and Hadley Booster Pump Station Replacement Projects. These expenses are tracked separately and reimbursed by Pennvest. GMWA will begin paying the loan for this project in 2024. This debt service has been accounted for in Table 3-3.

4.2. Capital Improvements Program 2024-2026

Proposed capital improvements for the years 2024, 2025, and 2026 are shown in Table 4-2. These improvements will be prioritized by the Authority and implemented based on need and available funds.

Table 4-2: Capital Improvements Program 2024-2026

Item	Budget 2024	Budget 2025	Budget 2026
Lab/Plant Equipment	$39,900	$10,000	$10,000
Raw Pumps/Finish Pumps	$0	$1,000	$1,000
Facilities Improvement: Capital or Expense	$34,000	$1,000	$1,000
Sludge/Press Improvements	$6,070	$70,000	$70,000
Building & Parking Lot Repairs	$0	$0	$0
New Vehicles Replacement	$0	$0	$0
Hydrant/Valve Program	$9,000	$9,000	$9,000
Tools & Equipment	$15,000	$4,000	$4,000
Main/Service Line Improvements - Capital	$200,000	$0	$0
Storage Tanks	$0	$0	$0
Admin/Billing Equipment Capital	$7,000	$5,000	$5,001
TOTALS:	**$310,970**	**$100,000**	**$100,001**

The Hadley Road Booster Pump Station replacement will be completed as a capital improvements project in 2024. This work is being funded as part of the Phase II low-interest Pennvest loan, a new debt service line item in this annual report.

5. RATES, RENTS, AND WATER CHARGES

5.1. Rate Schedule

The Authority's current rate schedule, which became effective January 1, 2023, is summarized in Table 5-1:

Table 5-1: 2023 Rates, Rents, and Water Charges

Residential, Industrial, Commercial Service - Base & Incremental Rates			
Base	**Meter Size**	**Rate (Monthly)**	**Rate (Annually)**
Service Fee	5/8"	$21.50	$258.00
	5/8" x 3/4"	$21.50	$258.00
	3/4"	$35.83	$429.96
	1"	$57.33	$687.96
	1 1/2"	$120.91	$1,450.92
	2"	$191.67	$2,300.04
	3"	$384.21	$4,610.52
	4"	$558.34	$6,700.08
	6"	$1,540.48	$18,485.76
	Volume (Gallons)	**Rate (Monthly, Per 1,000 Gallons)**	
	1,000	$6.45	
	2,000 thru 5,000	$9.25	
	6,000 thru 199,000	$9.68	
	Over 200,000	$7.53	
Fire Protection Stand-By Service			
Type	**Connection Size**	**Rate (Monthly)**	**Rate (Annually)**
Private Hydrants:	---	$60.04	$720.48
Sprinkler Systems (Per Connection):	2"	$10.86	$130.32
	4"	$45.63	$547.56
	6"	$60.04	$720.48
	8"	$103.36	$1,240.32

5.2. Bulk Water Rates

The bulk water sale rate is $9.94 per thousand gallons (billed monthly).

Metered bulk water use throughout the system is billed with a $25.00 minimum.

Bulk water obtained at the water treatment plant has a $5.00 service fee applied per load unless waived by The Authority.

6. INSURANCE

Insurance in force for 2024 (as of December 31, 2023) is provided in Table 6-1 below. It includes General Liability, Commercial Property Coverage, Employee, Automobile, Public Officials Liability, Employee Workers Compensation, and Employee Dishonesty, as noted. The insurance coverage is based on an appraisal by an independent professional appraiser. The appraisal is updated annually. It is recommended that this practice be continued and that the Authority's appraisal be updated annually.

Table 6-1: 2024 Schedule of Insurance

Provider	Expiration Date	Property Covered	Coverage Type	Coverage Amount
Argonaut Great Central Insurance Company	5/1/2024	General Liability	Bodily Injury/Property Damage	$1,000,000
			Personal Injury/Advertising Injury	$1,000,000
			Damages to Premises Rented	$100,000
			Employee Benefits	$1,000,000
			General Aggregate	$3,000,000
			Products/Completed Operations Aggregate	$1,000,000
		Data Compromise	Data Compromise Response Expense	$100,000
			Data Compromise Liability	$100,000
		Cyber	Cyber Attack and Cyber Extortion	$100,000
			Network Security Liability	$100,000
			Electronic Media Liability	$100,000
		Public Officials	Per Wrongful Act	$1,000,000
			Annual Aggregate	$2,000,000
		Employment Practices	Per Wrongful Act	$1,000,000
			Annual Aggregate	$2,000,000
		Automobile	Liability Limit	$1,000,000
			Uninsured Motorist (non-stacked)	$1,000,000
			Underinsured Motorist (non-stacked)	$1,000,000
		Property	Building	$11,920,949
			Business Personal Property	$3,151,322
			Flood	$1,000,000
			Earthquake	$1,000,000
		Inland Marine	Computer System Coverage	$110,000
			Contractor’s Equipment	$112,135
		Crime	Employee Theft	$75,000
			Forgery or Alteration	$75,000
			Inside the Premises – Robbery or Safe Burglary of Other Property	$25,000

Table 6-1: 2024 Schedule of Insurance				
Provider	**Expiration Date**	**Property Covered**	**Coverage Type**	**Coverage Amount**
			Outside the Premises	$25,000
			Computer and Funds Transfer Fraud	$25,000
			Money Orders and Counterfeit Money	$25,000
		Excess Liability	Each Occurrence, Offense, Accident or Wrongful Act	$1,000,000
			Annual Aggregate	$1,000,000

7. CONCLUSIONS AND RECOMMENDATIONS

In accordance with the covenants of the Trust Indenture dated December 29, 2011, as set forth in Section 6.07, the following conclusions are submitted:

- Total expenses in the amount of $1,567,211, as outlined in the budget, represent the estimate of the amount required for operational and administrative costs and maintenance of the water system for the 2024 fiscal year.
- The operating budget, as provided herein, has been approved and adopted. In our opinion, it represents the required expenditures necessary to maintain the properties of the Authority in good repair and sound operating condition.
- The insurance schedule, as set forth herein, is based on an independent professional appraisal. It is recommended that this appraisal be updated annually and insurance coverage be revisited as necessary for the coming fiscal year.
- The capital improvements budget has been developed to list desirable improvements over the next three (3) years. These improvements will be completed based on the Authority's prioritization and available funding.

In its eighty-first year of existence, the Authority has continued to provide good, sound direction to the operation of the utility in accordance with recognized water works practices, regulatory requirements, and industry standards.

Entech is registered to provide engineering services as Entech Engineering, Inc. In the performance of its services on behalf of The Municipal Authority of the Borough of Greenville (a municipal entity), Entech is not recommending any financing action, is not acting as a municipal advisor to the Client and does not owe a fiduciary duty pursuant to Section 15B of the Exchange Act to the Authority in respect to the information and material contained in this Report. The Authority should discuss any information and material contained in this Report with any and all internal and/or external financial advisors and experts deemed appropriate before acting on the information contained herein.

8. ACKNOWLEDGMENT

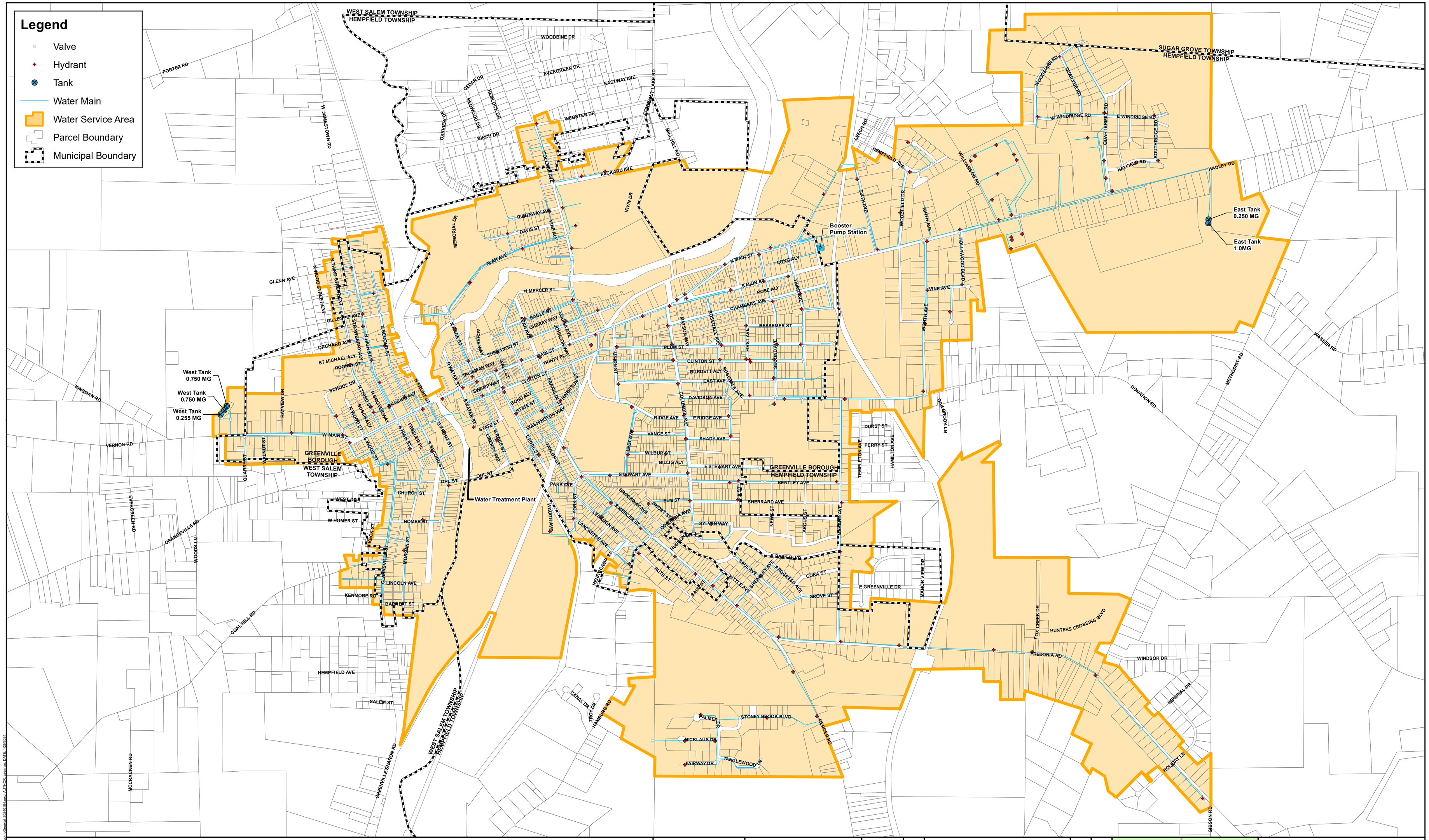
Entech Engineering, Inc. would like to take this opportunity to express sincere gratitude to the Authority Board for the opportunity to serve as the consulting engineer to the Municipal Authority of the Borough of Greenville and to recognize the valuable contributions of Ms. Jessica Kent and the Authority staff to the preparation of this report.

Respectfully Submitted,



Entech Engineering, Inc.

Macy E. Divens, PE
Project Manager



GREENVILLE WATER AUTHORITY

MERCER COUNTY, PENNSYLVANIA

WATER DISTRIBUTION SYSTEM

WATER SERVICE AREA

DATA CREDITS

Water Data: GWA & Entech Engineering
Local Road: PennDOT 2022
State Road: PennDOT 2022
Parcel: County of Mercer PA 2022
Municipal Boundary: PennDOT 2022
County Boundary: PennDOT 2022

STATEMENT OF ACCURACY

Unless otherwise noted, locations of map features should be considered approximate. Data was incorporated as the best available information at the time of mapping, and may not be accurate, complete, or current. The mapped data does not constitute a legal survey, and discretion should be exercised when using the information for engineering design purposes.

0 700 1,400 Feet

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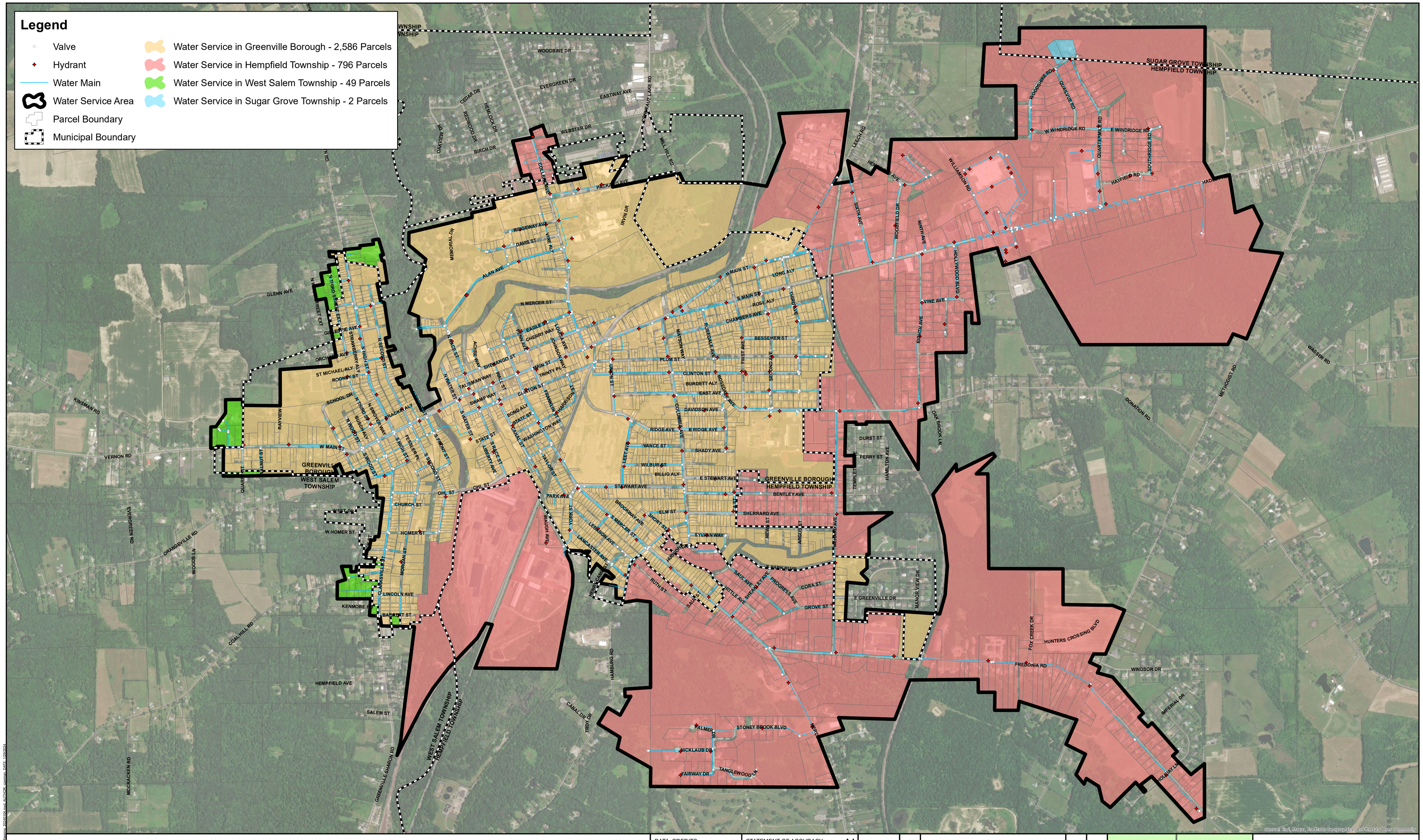
DATE	REV	ISSUED FOR / REVISED	TECH	APPD
01/05/2024	0	CLIENT REVIEW	CRZ	BAK

Ashtabula County | Crawford County | Trumbull County | Mercer County

ENTECH ENGINEERING
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DATE	PREPARED	CHECKED	PROJECT ENGINEER
01/05/2024	CRZ	PRB	BAK
PROJECT	SCALE	DRAWING NO.	
5511.112	1 " = 700 '	EXH-1	

FILE: M:\2005\5511.112\06-GIS\MXD\WaterSystemMaps\mxd\General_20240104.mxd AUTHOR: crzemrick DATE: 1/5/2024



GREENVILLE WATER AUTHORITY

MERCER COUNTY, PENNSYLVANIA

WATER DISTRIBUTION SYSTEM

WATER SERVICE AREA

DATA CREDITS

Water Data: GWA & Entech Engineering
Local Road: PennDOT 2022
State Road: PennDOT 2022
Parcel: County of Mercer PA 2022
Municipal Boundary: PennDOT 2022
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STATEMENT OF ACCURACY

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0 700 1,400 Feet

N

DATE	REV	ISSUED FOR / REVISED	TECH	APPD
01/05/2024	0	CLIENT REVIEW	CRZ	BAK

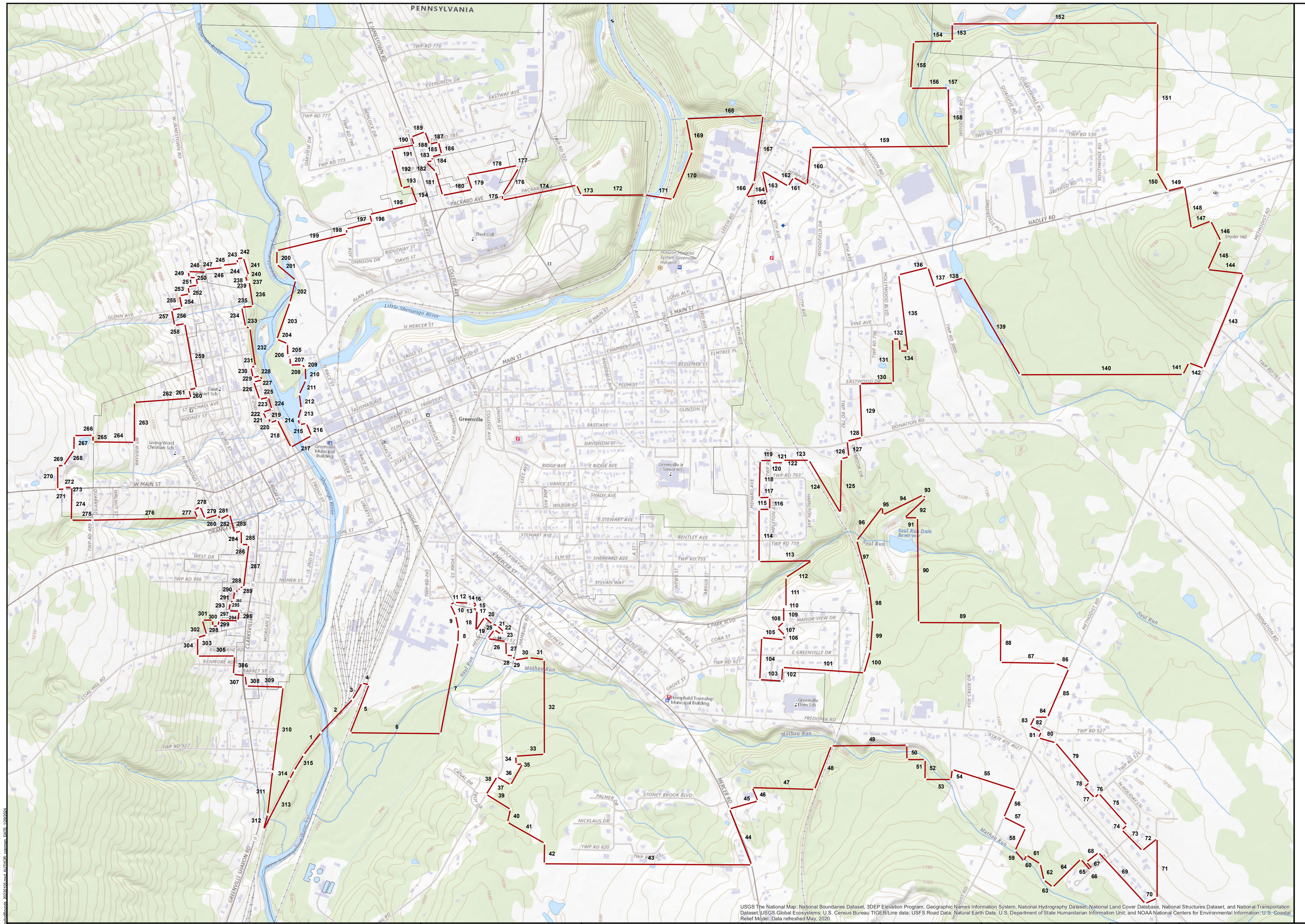
Ashtabula County | Crawford County | Trumbull County | Mercer County

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DATE	PREPARED	CHECKED	PROJECT ENGINEER
01/05/2024	CRZ	PRB	BAK

PROJECT	SCALE	DRAWING NO.
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FILE: H:\2005\11-112\06-GIS\MXD\WaterSystemMap\mxd_2024\EXH-3.mxd, AUTHOR: crzentec, DATE: 1/25/2024



GREENVILLE SERVICE AREA

METES AND BOUNDS

(segment #, distance in feet, and bearing)

1	428.17	S37° 58' 23"W
2	698.24	S43° 34' 24"W
3	287.45	S30° 09' 05"W
4	108.21	N77° 11' 45"W
5	786.18	N21° 23' 59"E
6	1378.16	N89° 24' 30"W
7	1414.47	S10° 44' 00"W
8	200.72	S1° 53' 42"W
9	207.75	S11° 26' 57"E
10	189.56	S25° 44' 03"E
11	75.30	S62° 46' 31"N
12	207.50	N87° 05' 21"W
13	47.54	N49° 56' 48"W
14	37.93	S43° 23' 57"W
15	67.34	N87° 02' 25"W
16	79.68	N42° 05' 04"E
17	72.51	N48° 16' 08"W
18	305.44	N2° 47' 59"E
19	241.53	S33° 05' 02"W
20	156.16	N48° 34' 23"W
21	80.95	N72° 09' 55"W
22	137.76	N46° 10' 07"W
23	53.68	N53° 10' 24"E
24	121.40	S57° 17' 55"E
25	166.86	N35° 46' 57"E
26	278.84	N80° 44' 45"W
27	208.24	N0° 59' 12"W
28	103.85	N85° 10' 12"W
29	69.05	N22° 44' 30"W
30	222.43	S80° 58' 47"W
31	231.00	N83° 31' 51"W
32	1442.58	N0° 05' 19"W
33	438.14	N86° 07' 53"E
34	126.14	N3° 44' 55"W
35	95.14	S87° 07' 26"W
36	363.91	N29° 34' 00"E
37	241.96	S59° 16' 34"E
38	314.50	N31° 23' 49"E
39	434.81	N58° 17' 31"W
40	201.65	N13° 19' 26"E
41	647.52	N60° 29' 30"W
42	312.28	N0° 41' 41"E
43	3157.02	N89° 42' 05"W
44	914.02	S21° 30' 48"E
45	446.46	S74° 13' 40"N
46	219.23	S22° 02' 09"E
47	946.35	N88° 16' 03"W
48	711.02	S21° 13' 17"W
49	1148.36	S89° 24' 47"W
50	217.69	N0° 33' 02"W
51	278.06	N89° 58' 01"W
52	303.72	N0° 36' 16"E
53	396.08	N89° 53' 13"W
54	153.05	S6° 58' 04"W
55	1017.12	N72° 17' 33"W
56	455.28	N23° 39' 28"E
57	368.37	N63° 29' 17"W
58	379.06	N24° 46' 52"E
59	208.95	N40° 08' 11"W
60	99.75	S22° 57' 01"W
61	247.61	N67° 42' 07"W
62	253.31	N13° 04' 50"W
63	172.66	N51° 33' 59"W
64	602.27	S45° 07' 55"W
65	220.39	N40° 35' 25"W
66	37.61	S47° 45' 01"W
67	131.71	S42° 18' 39"E
68	236.23	S52° 21' 53"W
69	1050.13	N42° 29' 09"W
70	199.96	S65° 35' 17"W
71	904.62	S0° 01' 08"E
72	289.76	N51° 03' 38"E
73	443.41	S44° 41' 23"E
74	106.42	S47° 23' 01"W
75	643.90	S41° 25' 30"E
76	92.35	N46° 02' 48"E
77	222.70	S44° 10' 30"E
78	102.65	S46° 26' 51"W
79	794.44	S40° 19' 17"E
80	267.97	S74° 09' 58"E
81	104.61	S23° 30' 41"W
82	189.81	S64° 29' 15"E
83	155.03	S25° 33' 31"W
84	199.84	N89° 19' 38"W
85	805.79	S23° 30' 56"W
86	218.54	S67° 40' 32"E
87	835.75	S89° 03' 05"E
88	600.03	S0° 11' 08"W
89	1251.82	S89° 45' 44"E
90	1597.04	S0° 33' 04"E
91	194.24	N89° 40' 52"E
92	432.81	S46° 48' 42"W
93	61.39	S34° 45' 08"E
94	684.13	N63° 49' 25"E
95	118.90	S3° 59' 27"E
96	641.42	N37° 16' 46"E
97	714.52	N15° 11' 06"W
98	517.60	N6° 11' 00"W
99	487.54	N4° 24' 08"E
100	336.63	N15° 50' 53"E
101	1245.66	S86° 15' 31"E
102	205.48	N3° 59' 56"E
103	333.81	S86° 11' 59"E
104	636.84	S2° 37' 55"W
105	334.34	N84° 57' 11"W
106	68.77	S13° 19' 18"W
107	158.86	S43° 36' 22"E
108	129.54	S48° 17' 59"W
109	233.15	S0° 06' 19"E
110	35.28	S89° 09' 54"W
111	445.91	S0° 07' 55"E
112	463.85	S56° 47' 57"W
113	798.34	N88° 50' 52"E
114	798.84	S0° 04' 40"E
115	160.82	N89° 35' 32"W
116	182.95	S0° 24' 44"W
117	158.40	N88° 26' 39"E
118	564.75	S1° 24' 41"W
119	176.15	N89° 51' 25"W
120	34.34	N0° 20' 35"E
121	173.44	S89° 40' 39"W
122	38.64	S0° 27' 51"W
123	393.27	S89° 59' 36"W
124	931.13	N39° 58' 12"W
125	820.88	S0° 57' 42"W
126	117.05	S75° 44' 11"W
127	241.32	S6° 04' 37"E
128	232.77	S75° 55' 35"W
129	819.42	S1° 57' 01"E
130	504.73	S89° 11' 15"W
131	671.63	S0° 50' 03"E
132	104.82	N89° 50' 28"W
133	180.66	N1° 36' 43"W
134	122.29	N87° 51' 00"W
135	1172.21	S6° 43' 36"E
136	456.45	S75° 55' 28"W
137	315.69	N18° 17' 45"W
138	465.16	S72° 20' 45"W
139	1706.73	N30° 17' 26"W
140	2492.65	S89° 55' 09"W
141	197.58	S26° 18' 32"W
142	240.87	N69° 38' 25"W
143	1563.11	S22° 46' 33"W
144	544.93	S83° 29' 15"E
145	480.61	S24° 09' 27"W
146	337.03	S26° 45' 59"E
147	319.11	N68° 51' 41"E
148	648.26	S8° 56' 09"E
149	267.75	N75° 41' 54"E
150	328.61	S29° 58' 07"E
151	2271.06	S0° 22' 58"W
152	3129.00	N89° 43' 26"E
153	259.68	N0° 18' 17"E
154	588.31	N89° 03' 54"E
155	711.15	N3° 26' 04"E
156	567.50	S89° 37' 42"W
157	4.47	N76° 25' 42"W
158	883.47	N0° 32' 58"W
159	2103.39	N89° 28' 43"E
160	572.64	N5° 34' 19"E
161	234.96	S81° 28' 02"E
162	155.24	N32° 06' 42"E
163	454.25	S59° 44' 04"E
164	352.81	N12° 20' 54"W
165	322.59	N81° 36' 02"E
166	251.79	S27° 54' 44"W
167	1025.15	S7° 37' 50"W
168	1171.17	N87° 27' 04"E
169	501.43	N10° 38' 02"W
170	789.34	N22° 09' 32"E
171	433.60	S81° 11' 45"E
172	964.92	N89° 38' 51"E
173	170.00	S24° 41' 13"E
174	1153.37	N78° 32' 19"E
175	78.78	S0° 39' 27"E
176	474.49	S31° 06' 26"W
177	45.62	S19° 32' 15"E
178	776.43	N79° 11' 59"E
179	232.21	N18° 09' 28"W
180	458.33	N78° 40' 28"E
181	379.56	S16° 24' 32"E
182	200.48	S44° 40' 09"E
183	100.85	S76° 31' 20"W
184	59.47	S14° 06' 06"E
185	155.38	S75° 03' 18"W
186	191.51	S14° 23' 35"E
187	138.86	N76° 31' 43"E
188	202.74	S20° 06' 13"E
189	223.79	N68° 37' 09"E
190	128.65	N15° 45' 03"W
191	347.93	N79° 02' 47"E
192	610.16	N14° 52' 54"W
193	138.24	S77° 29' 36"W
194	279.70	N19° 59' 00"W
195	742.76	N76° 54' 29"E
196	134.71	N15° 02' 58"W
197	399.11	N77° 00' 33"E
198	77.82	N6° 03' 41"W
199	1095.48	N76° 31' 57"E
200	209.93	N0° 26' 10"E
201	373.21	N50° 04' 38"W
202	352.63	N14° 22' 58"E
203	591.01	N19° 36' 39"E
204	176.50	N67° 48' 03"W
205	180.14	N0° 33' 47"W
206	45.85	N48° 58' 31"W
207	117.66	N2° 20' 06"W
208	174.09	S87° 23' 35"W
209	70.90	N50° 49' 57"W
210	197.44	N11° 56' 42"W
211	230.60	N24° 57' 50"E
212	216.05	N7° 30' 46"W
213	168.28	N16° 50' 35"E
214	90.94	N16° 21' 56"W
215	104.33	S81° 22' 04"W
216	200.46	N22° 06' 47"W
217	358.17	N60° 51' 57"E
218	461.41	S26° 27' 05"E
219	112.67	N69° 13' 53"E
220	76.50	S24° 21' 13"E
221	31.05	N70° 10' 51"E
222	113.53	S26° 59' 34"E
223	143.20	S70° 27' 35"W
224	187.13	S17° 38' 50"E
225	134.91	N76° 38' 50"E
226	281.21	S18° 49' 58"E
227	134.86	S77° 45' 41"W
228	69.87	S30° 00' 16"E
229	107.31	N77° 47' 09"E
230	156.83	S12° 09' 06"E
231	71.23	S74° 12' 01"W
232	582.84	S8° 28' 49"E
233	68.01	S68° 50' 36"E
234	300.81	S11° 29' 37"E
235	172.53	S84° 39' 13"W
236	376.98	S8° 46' 13"E
237	24.39	N87° 17' 17"E
238	4.37	N87° 24' 56"E
239	99.68	S16° 20' 17"E
240	47.53	S83° 36' 53"W
241	276.80	S16° 39' 59"E
242	97.67	N80° 59' 34"E
243	71.48	N9° 09' 38"W
244	230.64	N83° 49' 51"E
245	37.09	N3° 43' 50"W
246	267.94	N83° 44' 17"E
247	42.87	N10° 50' 17"W
248	266.86	S8° 51' 00"E
249	90.73	N7° 36' 16"W
250	103.92	N87° 58' 36"W
251	114.28	N11° 52' 09"W
252	147.87	N79° 42' 31"E
253	110.64	N11° 06' 48"W
254	152.54	N79° 47' 28"E
255	190.65	N11° 18' 10"W
256	161.75	N79° 46' 06"E
257	243.36	N11° 22' 51"W
258	155.25	S78° 28' 10"W
259	1000.64	N10° 19' 23"W
260	116.42	N77° 36' 20"E
261	130.59	N12° 17' 54"W
262	860.00	N85° 51' 16"E
263	610.45	N0° 03' 45"W
264	633.83	S89° 19' 01"E
265	101.31	S0° 34' 32"E
266	286.54	N88° 51' 40"E
267	222.00	N0° 01' 34"E
268	282.13	N34° 21' 56"E
269	88.49	N86° 10' 49"E
270	357.84	N0° 06' 12"E
271	103.36	S87° 40' 41"W
272	25.27	S0° 51' 43"W
273	109.88	S88° 16' 54"W
274	501.39	N0° 36' 57"E
275	323.86	N89° 59' 09"W
276	1596.90	S88° 44' 06"W
277	130.15	S22° 50' 36"E
278	103.22	S60° 12' 54"W
279	196.75	N22° 44' 56"W
280	203.42	S74° 00' 07"W
281	72.15	N27° 33' 04"W
282	161.92	S63° 31' 34"W
283	290.21	N15° 36' 35"W
284	101.72	S74° 12' 28"W
285	205.20	N1° 22' 52"W
286	110.79	N87° 33' 42"W
287	653.50	N7° 02' 02"E
288	61.95	N89° 05' 01"E
289	57.50	N8° 21' 51"E
290	63.10	N89° 22' 41"E
291	140.06	N9° 07' 10"E
292	63.09	N48° 00' 35"E
293	120.93	N9° 16' 18"E
294	2.44	N86° 18' 45"W
295	152.11	N86° 25' 43"W
296	143.44	N6° 59' 15"E
297	287.30	S88° 22' 02"E
298	87.27	N8° 44' 19"E
299	83.65	N87° 20' 04"E
300	91.13	S0° 21' 47"W
301	158.41	S89° 52' 06"E
302	234.05	N16° 33' 30"W
303	144.23	N73° 02' 27"E
304	281.19	N0° 04' 54"E
305	564.79	S89° 45' 45"W
306	281.39	N4° 34' 50"E
307	181.38	N85° 11' 07"W
308	162.80	N7° 31' 30"W
309	556.84	N88° 11' 16"W
310	1295.09	N7° 06' 28"E
311	655.88	S8° 06' 06"E
312	238.52	N14° 39' 06"E
313	865.78	S27° 09' 10"W
314	144.73	S27° 05' 05"W
315	280.51	S31° 20' 39"W

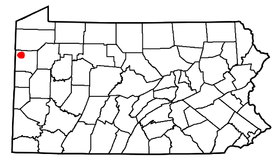
GREENVILLE WATER AUTHORITY

MERCER COUNTY, PENNSYLVANIA

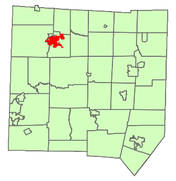
PROPOSED SERVICE TERRITORY

METES AND BOUNDS

STATE INDEX PLAN



COUNTY INDEX PLAN



Legend

Water Service Area

Note

Bearings, distances, area obtained from Pennsylvania County and Municipal boundaries and parcel shapefiles. The subject service area bearings, distances and area do not result from a physical survey on the ground and are approximate and not intended to represent a legal description of property.

DATA CREDITS

Water Data: GWA & Entech Engineering
Local Road: PennDOT 2022
State Road: PennDOT 2022
Parcel: County of Mercer PA 2022
Municipal Boundary: PennDOT 2022
County Boundary: PennDOT 2022

STATEMENT OF ACCURACY

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0 700 1,400 Feet

N

DATE	REV		TECH	APPD
01/05/2024	0	CLIENT REVIEW	CRZ	BAK

ENTECH ENGINEERING 1.800.825.1372 www.entecheng.com

DATE	PREPARED	CHECKED	PROJECT ENGINEER
01/05/2024	CRZ	PRB	BAK

PROJECT	SCALE	DRAWING NO.
5511.112	1 " = 700 '	EXH-2

P:\E-H\2005\11 11206\GIS\MXD\Water Boundary\Water&WastewaterBounds_20230105.mxd, AUTHOR: cmenne, DATE: 1/26/2024



West Tanks



West Tanks



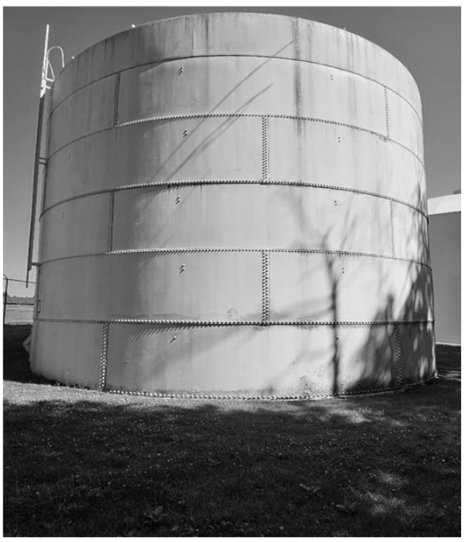
West Tanks



West Tanks



West Tanks



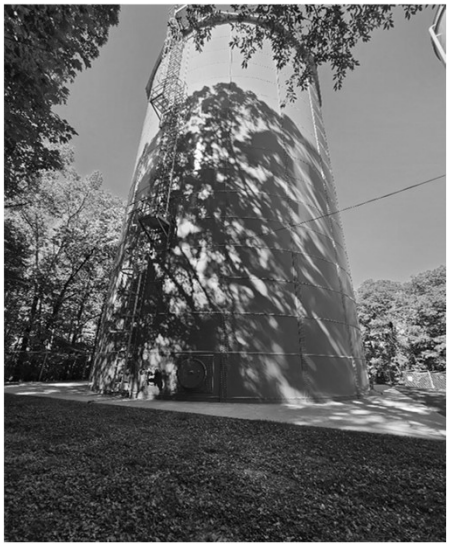
West Tanks



West Tanks



East Tanks



East Tanks



East Tanks



East Tanks



East Tanks



Booster Pump Station



Booster Pump Station



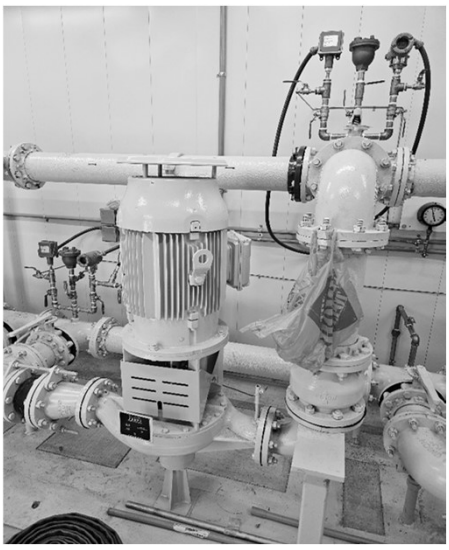
Booster Pump Station



Booster Pump Station



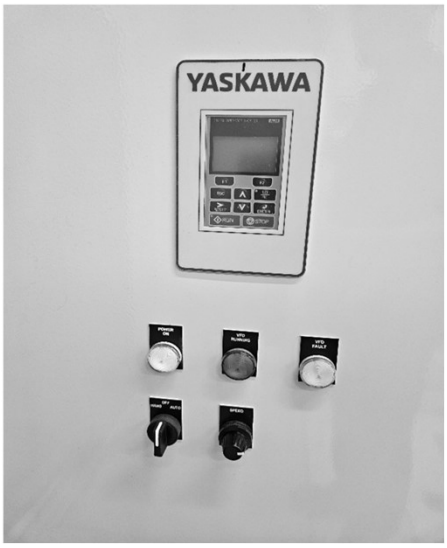
Booster Pump Station



Booster Pump Station



Booster Pump Station



Booster Pump Station



Booster Pump Station



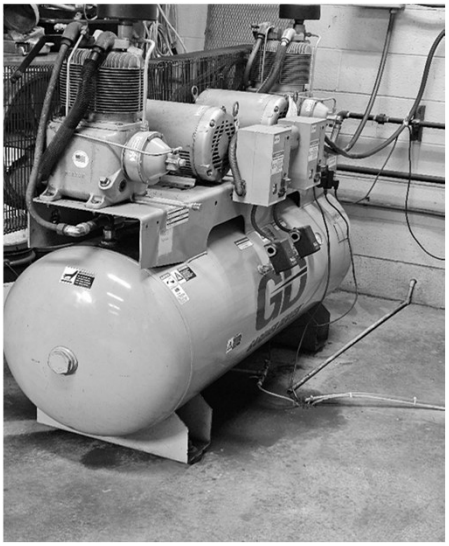
Booster Pump Station



WTP



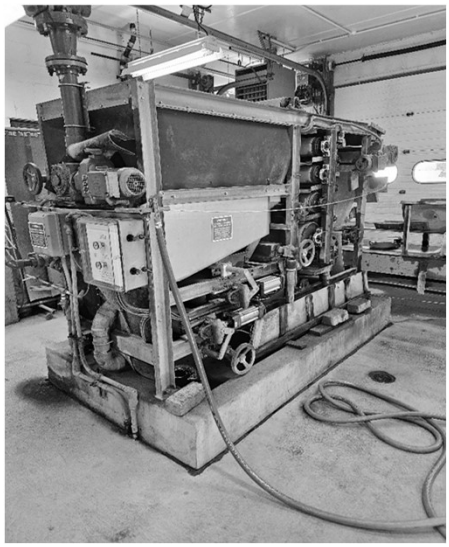
WTP



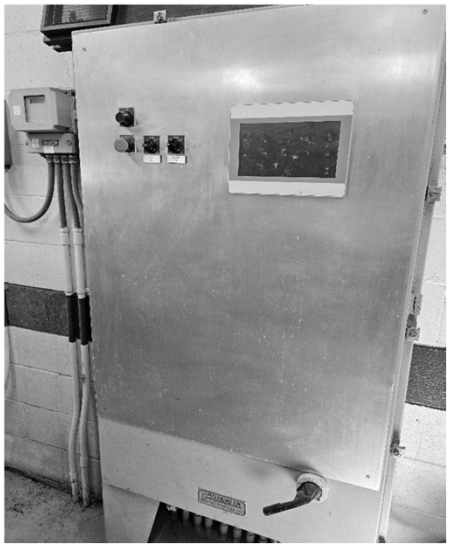
WTP



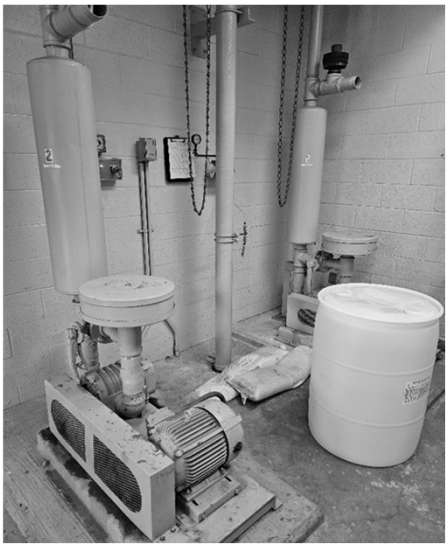
WTP - Filter Press Building



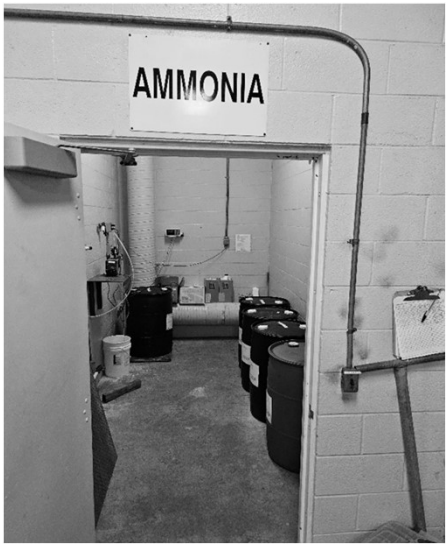
WTP - Filter Press



WTP - Filter Press Controls



WTP - Blower



WTP - Chemicals



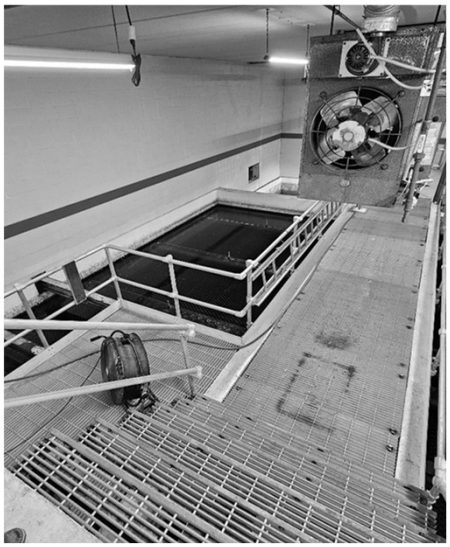
WTP - Chemicals



WTP - Chemicals



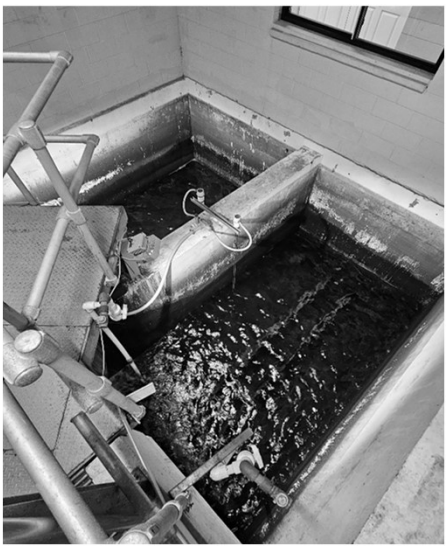
WTP - Chemicals



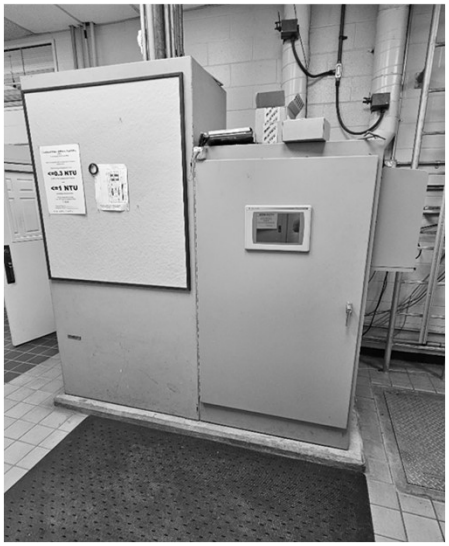
WTP - Clarifier



WTP - Chemicals



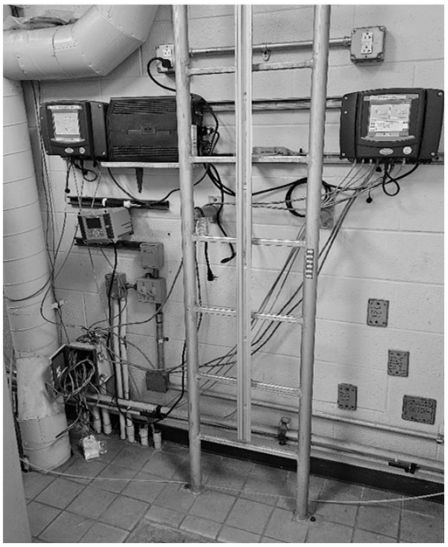
WTP - Filter Cell



WTP - Filter Control



WTP - Filter Control



WTP - Filter Meters



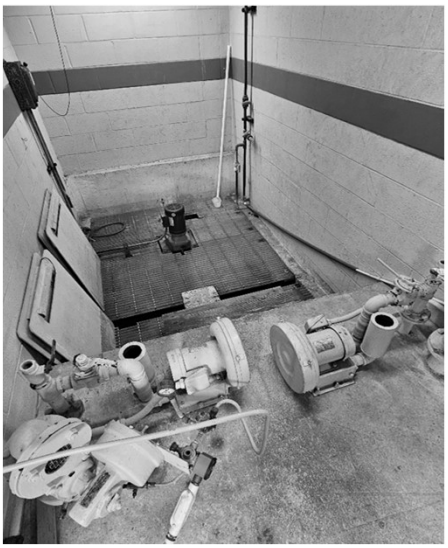
WTP - Filter Outlet Piping Chamber



WTP - Finish Water Pumps



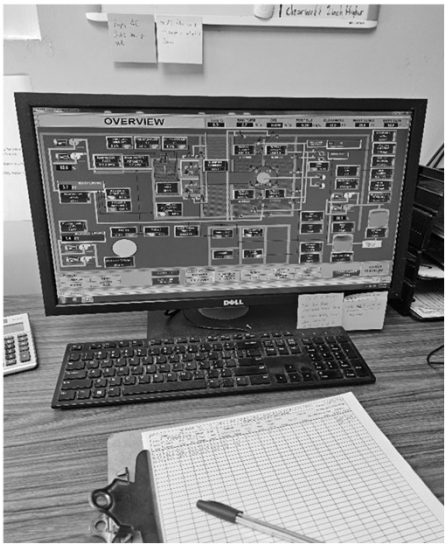
WTP - Layout



WTP - Mixer and Mixing Chamber



WTP - Lab



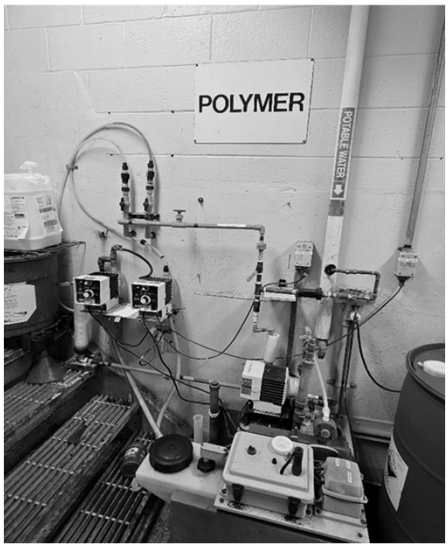
WTP - Overview Monitor



WTP - Sludge Holding



WTP - PAC Tank



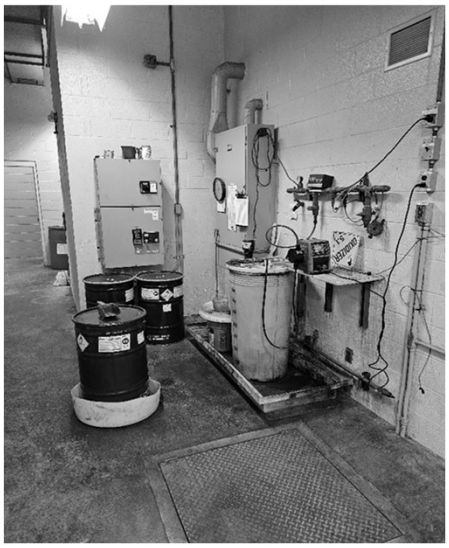
WTP - Polymer and Meter



WTP - Raw Water Pump



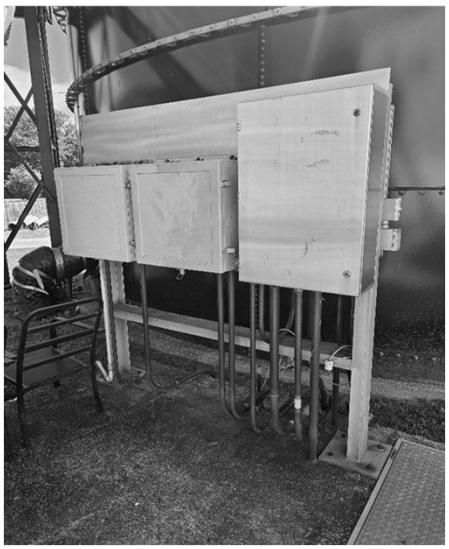
WTP - Security and Overview Rm



WTP - Potassium Permanganate Storage & Pump



WTP - Pump VFDs



WTP - Sludge Hold Tanks Controls



WTP - Sludge Holding Tanks



WTP - Sludge Polymer



WTP - Sludge Holding Tank



WTP - Storage Garage



Water Authority Building



Water Authority Building - Garage Entrance



Water Authority Building - Garage Entrance



Water Authority Building - Garage



Water Authority Building - Garage

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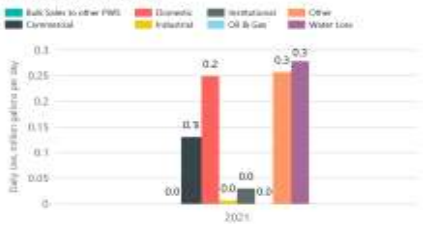
SF Status: All
Primary Facility Name: GREENVILLE MUNI WATER AUTH - 261102
Report Year: 2021
County: 43 - Mercer

Plots of Selected Data:

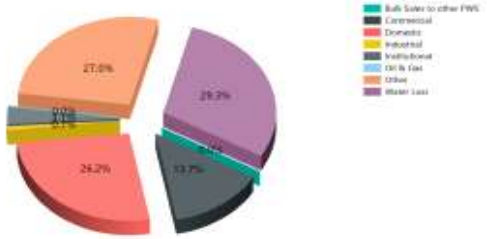
Plot 1 - Total Daily Water Use



Plot 2 - Daily Water Use by Category



Plot 3 - Percentage of Water Use by Category



Average Daily Water Distribution

ACTIVE INDICATOR	PUBLIC WATER SUPPLY ID	WUDS PRIMARY FACILITY ID	ePACTS PRIMARY FACILITY ID	PRIMARY FACILITY	PRIMARY FACILITY DESIGNATION	COUNTY	REPORT YEAR	PEAK WATER USE DATE	PEAK DAY WATER USE (GALLONS)	MINIMUM WATER USE DATE	MINIMUM DAY WATER USE (GALLONS)	POPULATION SERVED	DISTRIBUTION TYPE	METERED CONNECTION	AVERAGE WATER USE (GPD)
Active	6430037	19379	261102	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2021	1/4/2021	1418752	9/20/2021	250366	8600	Other	Y	250340
Active	6430037	19379	261102	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2021	1/4/2021	1418752	9/20/2021	250366	8600	Commercial	N	0
Active	6430037	19379	261102	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2021	1/4/2021	1418752	9/20/2021	250366	8600	Bulk Sales to other PWS	N	0
Active	6430037	19379	261102	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2021	1/4/2021	1418752	9/20/2021	250366	8600	Domestic	N	0
Active	6430037	19379	261102	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2021	1/4/2021	1418752	9/20/2021	250366	8600	Industrial	N	0
Active	6430037	19379	261102	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2021	1/4/2021	1418752	9/20/2021	250366	8600	Water Loss	N	277906
Active	6430037	19379	261102	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2021	1/4/2021	1418752	9/20/2021	250366	8600	Oil & Gas	Y	0

WWW_WUDS_MR Ver 1.0

CHAPTER 110 WATER USE REPORTS
WATER USE BY WATER SUPPLIER
7/5/2024 2:19:58 PM

NUMBER OF CONNECTIONS	AVERAGE METER AGE (YEARS)	NEW METERS (Y/N)	ADD METERS (Y/N)	METER REPLACEMENT PROGRAM (Y/N)	REPLACED METER COUNT	CONSERVATION INFORMATION PROVIDED (Y/N)	NEW PIPE EXTENSION DETAILS	FLUSHING FREQUENCY	HYDRANTS WORKED (Y/N)	VALVES WORKED (Y/N)	ACTIVE LEAK DETECTION (Y/N)
11	10	Y	N	Y	10	Y	no extensions	2	Y	Y	Y
0	10	Y	N	Y	10	Y	no extensions	2	Y	Y	Y
0	10	Y	N	Y	10	Y	no extensions	2	Y	Y	Y
0	10	Y	N	Y	10	Y	no extensions	2	Y	Y	Y
0	10	Y	N	Y	10	Y	no extensions	2	Y	Y	Y
0	10	Y	N	Y	10	Y	no extensions	2	Y	Y	Y
0	10	Y	N	Y	10	Y	no extensions	2	Y	Y	Y

Page 1 of 2

LEAK DETECTION DETAILS	CROSS CONNECTION CONTROL PROGRAM (Y/N)	INADEQUATE PRESSURE (Y/N)	INADEQUATE PRESSURE DETAILS
gaephones	Y	N	
gaephones	Y	N	
gaephones	Y	N	
gaephones	Y	N	
gaephones	Y	N	
gaephones	Y	N	
gaephones	Y	N	

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ACTIVE INDICATOR	PUBLIC WATER SUPPLY ID	WUDS PRIMARY FACILITY ID	eFACTS PRIMARY FACILITY ID	PRIMARY FACILITY	PRIMARY FACILITY DESIGNATION	COUNTY	REPORT YEAR	PEAK WATER USE DATE	PEAK DAY WATER USE (MILLIONS)	MINIMUM WATER USE DATE	MINIMUM DAY WATER USE (MILLIONS)
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2021	1/4/2021	1418752	9/20/2021	250368
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2021	1/4/2021	1418752	9/20/2021	250368
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2021	1/4/2021	1418752	9/20/2021	250368
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2021	1/4/2021	1418752	9/20/2021	250368
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2021	1/4/2021	1418752	9/20/2021	250368
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2021	1/4/2021	1418752	9/20/2021	250368
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2021	1/4/2021	1418752	9/20/2021	250368
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2021	1/4/2021	1418752	9/20/2021	250368

Number of Connections by County/Municipality

WUDS PRIMARY FACILITY ID	REPORT YEAR	MUNICIPALITY	COUNTY	DOMESTIC CONNECTIONS	COMMERCIAL CONNECTIONS	INDUSTRIAL CONNECTIONS	INSTITUTIONAL CONNECTIONS	OIL AND GAS CONNECTIONS	OTHER CONNECTIONS	MULTI UNIT CONNECTIONS	MULTI UNIT NUMBER OF UNITS
19379	2021	Greenville Borough	Mercer	1904	151	2	17	0	7	0	0
19379	2021	Hempfield Township	Mercer	434	71	1	3	0	3	14	84
19379	2021	West Salem Township	Mercer	21	1	0	0	0	1	0	0

CHAPTER 110 WATER USE REPORTS
WATER USE BY WATER SUPPLIER

7/8/2024 3:16:56 PM

POPULATION SERVED	DISTRIBUTION TYPE	METERED CONNECTION	AVERAGE WATER USE (GPD)	NUMBER OF CONNECTIONS	AVERAGE METER AGE (YEARS)	NEW METERS (Y/N)	ADD METERS (Y/N)	METER REPLACEMENT PROGRAM (Y/N)	REPLACED METER COUNT	CONSERVATION INFORMATION PROVIDED (Y/N)	NEW PIPE EXTENSION DETAILS
9600	Bulk Sales to other PWS	Y	0	0	10	Y	N	Y	10	Y	no extensions
9600	Oil & Gas	N	0	0	10	Y	N	Y	10	Y	no extensions
9600	Institutional	N	0	0	10	Y	N	Y	10	Y	no extensions
9600	Commercial	Y	129851	253	10	Y	N	Y	10	Y	no extensions
9600	Other	N	0	0	10	Y	N	Y	10	Y	no extensions
9600	Institutional	Y	29619	20	10	Y	N	Y	10	Y	no extensions
9600	Domestic	Y	249016	2439	10	Y	N	Y	10	Y	no extensions
9600	Industrial	Y	8594	3	10	Y	N	Y	10	Y	no extensions

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FLUSHING FREQUENCY	HYDRANTS WORKED (Y/N)	VALVES WORKED (Y/N)	ACTIVE LEAK DETECTION (Y/N)	LEAK DETECTION DETAILS	CROSS CONNECTION CONTROL PROGRAM (Y/N)	INADEQUATE PRESSURE (Y/N)	INADEQUATE PRESSURE DETAILS
2	Y	Y	Y	geophones	Y	N	
2	Y	Y	Y	geophones	Y	N	
2	Y	Y	Y	geophones	Y	N	
2	Y	Y	Y	geophones	Y	N	
2	Y	Y	Y	geophones	Y	N	
2	Y	Y	Y	geophones	Y	N	
2	Y	Y	Y	geophones	Y	N	
2	Y	Y	Y	geophones	Y	N	

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View Instructions/Data Dictionary (pdf)

SF Status: All

Primary Facility Name: GREENVILLE MUNI WATER AUTH - 281182
Report Year: 2022
County: 43 - Mercer

Plots of Selected Data:

Plot 1 - Total Daily Water Use



Plot 2 - Daily Water Use by Category



Plot 3 - Percentage of Water Use by Category



Average Daily Water Distribution

ACTIVE INDICATOR	PUBLIC WATER SUPPLY ID	WUDS PRIMARY FACILITY ID	eFACTS PRIMARY FACILITY ID	PRIMARY FACILITY	PRIMARY FACILITY DESIGNATION	COUNTY	REPORT YEAR	PEAK WATER USE DATE	PEAK DAY WATER USE (GALLONS)	MINIMUM WATER USE DATE	MINIMUM DAY WATER USE (GALLONS)	POPULATION SERVED	DISTRIBUTION TYPE	METERED CONNECTION	AVERAGE WATER USE (GPD)
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2022	2/19/2022	1399836	5/28/2022	326764	9600	Commercial	N	0
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2022	2/19/2022	1399836	5/28/2022	326764	9600	Industrial	N	0
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2022	2/19/2022	1399836	5/28/2022	326764	9600	Oil & Gas	Y	0
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2022	2/19/2022	1399836	5/28/2022	326764	9600	Commercial	Y	109553
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2022	2/19/2022	1399836	5/28/2022	326764	9600	Bulk Sales to other PWS	N	0
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2022	2/19/2022	1399836	5/28/2022	326764	9600	Other	Y	394535
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2022	2/19/2022	1399836	5/28/2022	326764	9600	Domestic	Y	249268

CHAPTER 110 WATER USE REPORTS
WATER USE BY WATER SUPPLIER

7/8/2024 3:16:06 PM

NUMBER OF CONNECTIONS	AVERAGE METER AGE (YEARS)	NEW METERS (Y/N)	ADD METERS (Y/N)	METER REPLACEMENT PROGRAM (Y/N)	REPLACED METER COUNT	CONSERVATION INFORMATION PROVIDED (Y/N)	NEW PIPE EXTENSION DETAILS	FLUSHING FREQUENCY	HYDRANTS WORKED (Y/N)
0	20	Y	Y	Y	3	N	9600 C900 4"-12"	2	Y
0	20	Y	Y	Y	3	N	9600 C900 4"-12"	2	Y
0	20	Y	Y	Y	3	N	9600 C900 4"-12"	2	Y
276	20	Y	Y	Y	3	N	9600 C900 4"-12"	2	Y
0	20	Y	Y	Y	3	N	9600 C900 4"-12"	2	Y
1	20	Y	Y	Y	3	N	9600 C900 4"-12"	2	Y
2776	20	Y	Y	Y	3	N	9600 C900 4"-12"	2	Y

Page 1 of 2

VALVES WORKED (Y/N)	ACTIVE LEAK DETECTION (Y/N)	LEAK DETECTION DETAILS	CROSS CONNECTION CONTROL PROGRAM (Y/N)	INADEQUATE PRESSURE (Y/N)	INADEQUATE PRESSURE DETAILS
Y	Y	acoustic	Y	N	
Y	Y	acoustic	Y	N	
Y	Y	acoustic	Y	N	
Y	Y	acoustic	Y	N	
Y	Y	acoustic	Y	N	
Y	Y	acoustic	Y	N	
Y	Y	acoustic	Y	N	

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ACTIVE INDICATOR	PUBLIC WATER SUPPLY ID	WUDS PRIMARY FACILITY ID	eWACTS PRIMARY FACILITY ID	PRIMARY FACILITY	PRIMARY FACILITY DESIGNATION	COUNTY	REPORT YEAR	PEAK WATER USE DATE	PEAK DAY WATER USE (GALLONS)	MINIMUM WATER USE DATE	MINIMUM DAY WATER USE (GALLONS)
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2022	2/19/2022	1399056	5/28/2022	326764
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2022	2/19/2022	1399056	5/28/2022	326764
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2022	2/19/2022	1399056	5/28/2022	326764
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2022	2/19/2022	1399056	5/28/2022	326764
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2022	2/19/2022	1399056	5/28/2022	326764
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2022	2/19/2022	1399056	5/28/2022	326764
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2022	2/19/2022	1399056	5/28/2022	326764
Active	6430037	19379	281182	GREENVILLE MUNI WATER AUTH	Authority	Mercer	2022	2/19/2022	1399056	5/28/2022	326764

Number of Connections by County/Municipality

WUDS PRIMARY FACILITY ID	REPORT YEAR	MUNICIPALITY	COUNTY	DOMESTIC CONNECTIONS	COMMERCIAL CONNECTIONS	INDUSTRIAL CONNECTIONS	INSTITUTIONAL CONNECTIONS	OIL AND GAS CONNECTIONS	OTHER CONNECTIONS	MULTI UNIT CONNECTIONS	MULTI UNIT NUMBER OF UNITS
19379	2022	Greenville Borough	Mercer	2278	196	2	21	0	1	14	84
19379	2022	Otter Creek Township	Mercer	22	1	0	0	0	0	0	0
19379	2022	Hempfield Township	Mercer	476	77	1	3	0	0	0	0

CHAPTER 110 WATER USE REPORTS
WATER USE BY WATER SUPPLIER

POPULATION SERVED	DISTRIBUTION TYPE	METERED CONNECTION	AVERAGE WATER USE (GPD)	NUMBER OF CONNECTIONS	AVERAGE METER AGE (YEARS)	NSW METERS (Y/N)	ADD METERS (Y/N)	METER REPLACEMENT PROGRAM (Y/N)	REPLACED METER COUNT	CONSERVATION INFORMATION PROVIDED (Y/N)	NSW PIPE EXTENSION DETAILS
9600	Other	N	0	0	20	Y	Y	Y	3	N	9600 C900 4"-12"
9600	Industrial	Y	22750	3	20	Y	Y	Y	3	N	9600 C900 4"-12"
9600	Institutional	N	0	0	20	Y	Y	Y	3	N	9600 C900 4"-12"
9600	Domestic	N	0	0	20	Y	Y	Y	3	N	9600 C900 4"-12"
9600	Institutional	Y	339	24	20	Y	Y	Y	3	N	9600 C900 4"-12"
9600	Bulk Sales to other PWS	Y	0	0	20	Y	Y	Y	3	N	9600 C900 4"-12"
9600	Water Loss	N	229466	0	20	Y	Y	Y	3	N	9600 C900 4"-12"
9600	Oil & Gas	N	0	0	20	Y	Y	Y	3	N	9600 C900 4"-12"

FLUSHING FREQUENCY	HYDRANTS WORKED (Y/N)	VALVES WORKED (Y/N)	ACTIVE LEAK DETECTION (Y/N)	LEAK DETECTION DETAILS	CROSS CONNECTION CONTROL PROGRAM (Y/N)	INADEQUATE PRESSURE (Y/N)	INADEQUATE PRESSURE DETAILS
2	Y	Y	Y	acoustic	Y	N	
2	Y	Y	Y	acoustic	Y	N	
2	Y	Y	Y	acoustic	Y	N	
2	Y	Y	Y	acoustic	Y	N	
2	Y	Y	Y	acoustic	Y	N	
2	Y	Y	Y	acoustic	Y	N	
2	Y	Y	Y	acoustic	Y	N	
2	Y	Y	Y	acoustic	Y	N	

Consensus Forecast of U.S. Interest Rates and Key Assumptions

	History								Consensus Forecasts-Quarterly Avg.					
	Average For Week Ending				Average For Month			Latest Qtr	1Q	2Q	3Q	4Q	1Q	2Q
Interest Rates	Feb 23	Feb 16	Feb 9	Feb 2	Jan	Dec	Nov	4Q 2023	**2024**	**2024**	**2024**	**2024**	**2025**	**2025**
Federal Funds Rate	5.33	5.33	5.33	5.33	5.33	5.33	5.33	5.33	**5.4**	**5.2**	**4.9**	**4.5**	**4.2**	**3.8**
Prime Rate	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	**8.5**	**8.4**	**8.1**	**7.7**	**7.3**	**7.0**
SOFR	5.30	5.31	5.31	5.32	5.32	5.33	5.32	5.32	**5.3**	**5.2**	**4.9**	**4.5**	**4.2**	**3.9**
Commercial Paper, 1-mo.	5.32	5.32	5.30	5.32	5.32	5.32	5.33	5.33	**5.3**	**5.2**	**4.9**	**4.5**	**4.1**	**3.8**
Treasury bill, 3-mo.	5.45	5.44	5.43	5.42	5.45	5.44	5.52	5.52	**5.4**	**5.2**	**4.8**	**4.5**	**4.1**	**3.8**
Treasury bill, 6-mo.	5.32	5.30	5.24	5.19	5.21	5.34	5.44	5.45	**5.3**	**5.1**	**4.8**	**4.4**	**4.0**	**3.7**
Treasury bill, 1 yr.	4.99	4.94	4.84	4.76	4.79	4.96	5.28	5.22	**4.9**	**4.8**	**4.5**	**4.2**	**3.9**	**3.7**
Treasury note, 2 yr.	4.65	4.57	4.44	4.30	4.32	4.46	4.88	4.80	**4.5**	**4.3**	**4.1**	**3.9**	**3.7**	**3.5**
Treasury note, 5 yr.	4.29	4.24	4.10	3.93	3.98	4.00	4.49	4.42	**4.1**	**4.0**	**3.9**	**3.8**	**3.7**	**3.6**
Treasury note, 10 yr.	4.30	4.26	4.13	4.01	4.06	4.02	4.50	4.44	**4.2**	**4.1**	**4.0**	**3.9**	**3.8**	**3.8**
Treasury bond, 30 yr.	4.44	4.43	4.34	4.23	4.26	4.14	4.66	4.58	**4.4**	**4.3**	**4.2**	**4.2**	**4.1**	**4.1**
Corporate Aaa bond	5.18	5.18	5.08	4.96	5.01	4.95	5.52	5.45	**5.0**	**5.0**	**4.9**	**4.8**	**4.8**	**4.8**
Corporate Baa bond	5.69	5.70	5.59	5.46	5.53	5.51	6.15	6.07	**5.9**	**5.9**	**5.8**	**5.8**	**5.8**	**5.7**
State & Local bonds	4.12	4.13	4.13	4.09	4.09	4.13	4.56	4.52	**4.2**	**4.2**	**4.2**	**4.1**	**4.1**	**4.0**
Home mortgage rate	6.90	6.77	6.64	6.63	6.64	6.82	7.44	7.29	**6.8**	**6.7**	**6.5**	**6.3**	**6.2**	**6.1**
	History								Consensus Forecasts-Quarterly					
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	**1Q**	**2Q**	**3Q**	**4Q**	**1Q**	**2Q**
Key Assumptions	2022	2022	2022	2022	2023	2023	2023	2023	**2024**	**2024**	**2024**	**2024**	**2025**	**2025**
Fed's AFE Index	108.3	113.5	118.8	119.8	115.5	114.6	115.0	116.6	**115.5**	**115.2**	**114.6**	**114.0**	**113.9**	**113.7**
Real GDP	-2.0	-0.6	2.7	2.6	2.2	2.1	4.9	3.2	**2.0**	**1.4**	**1.3**	**1.5**	**1.7**	**1.9**
GDP Price Index	8.5	9.1	4.4	3.9	3.9	1.7	3.3	1.6	**2.2**	**2.3**	**2.2**	**2.2**	**2.1**	**2.1**
Consumer Price Index	9.1	10.0	5.3	4.0	3.8	3.0	3.4	2.7	**2.9**	**2.6**	**2.4**	**2.3**	**2.2**	**2.2**
PCE Price Index	7.7	7.2	4.7	4.1	4.2	2.5	2.6	1.8	**2.3**	**2.2**	**2.2**	**2.1**	**2.1**	**2.0**

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IQ_TEV Total Enterprise Value

		American States Water Company	American Water Works Company, Inc.	Artesian Resources Corporation	California Water Service Group	Essential Utilities, Inc.	Middlesex Water Company	SJW Group	The York Water Company
SPOT	**3/31/2024**	**3,575.878**	**35,864.048**	**558.671**	**3,891.737**	**17,237.914**	**1,347.638**	**3,551.746**	**700.539**
2013	1/31/2013	1,272.729	12,286.137	313.776	1,346.998	5,463.243	471.008	840.392	327.909
2013	2/28/2013	1,319.039	12,543.905	310.650	1,372.614	5,752.372	473.371	849.367	322.237
2013	3/31/2013	1,421.276	12,924.431	313.406	1,480.334	6,070.791	479.603	884.304	327.140
2013	4/30/2013	1,382.181	13,011.119	322.028	1,488.901	6,111.438	480.988	866.219	326.493
2013	5/31/2013	1,327.647	12,730.222	310.271	1,388.183	6,001.923	466.480	900.226	329.776
2013	6/30/2013	1,338.061	12,959.456	311.607	1,377.682	6,030.071	477.079	883.124	329.129
2013	7/31/2013	1,541.518	13,217.123	321.512	1,509.379	6,391.779	496.380	892.992	355.640
2013	8/31/2013	1,344.711	13,008.539	307.599	1,421.185	5,931.749	484.377	858.423	334.858
2013	9/30/2013	1,393.458	13,104.640	311.146	1,438.847	6,008.335	506.089	896.079	341.960
2013	10/31/2013	1,429.051	13,387.603	316.282	1,509.493	6,087.743	495.629	907.986	350.224
2013	11/30/2013	1,439.115	13,212.258	322.689	1,532.222	5,877.778	516.290	893.165	363.409
2013	12/31/2013	1,421.692	13,196.213	316.752	1,542.247	5,792.958	499.733	940.143	350.984
2014	1/31/2014	1,408.915	13,251.478	313.833	1,552.749	5,856.573	483.176	916.352	343.736
2014	2/28/2014	1,457.723	13,861.514	307.667	1,575.749	6,042.927	488.111	953.434	341.147
2014	3/31/2014	1,545.292	13,960.600	315.416	1,596.279	6,024.472	510.130	952.839	344.156
2014	4/30/2014	1,471.451	13,983.832	312.162	1,551.564	6,028.013	486.661	919.410	339.087
2014	5/31/2014	1,455.593	14,549.126	313.525	1,530.414	6,100.259	486.122	915.588	344.787
2014	6/30/2014	1,569.991	14,699.502	314.941	1,632.714	6,248.990	497.473	918.820	350.611
2014	7/31/2014	1,466.063	14,398.750	308.963	1,569.887	5,816.962	483.724	922.876	327.441
2014	8/31/2014	1,504.687	14,985.574	307.188	1,645.895	6,067.568	492.765	934.005	343.916
2014	9/30/2014	1,431.912	14,559.199	298.616	1,554.111	5,805.341	477.832	924.502	341.606
2014	10/31/2014	1,639.398	15,480.025	315.919	1,706.069	6,278.412	525.200	1,033.923	367.012
2014	11/30/2014	1,599.013	15,364.380	313.338	1,660.170	6,344.315	517.774	993.669	342.619
2014	12/31/2014	1,705.381	15,409.208	322.240	1,638.180	6,365.511	534.208	1,037.788	381.175
2015	1/31/2015	1,781.413	15,918.445	318.712	1,634.833	6,427.333	515.036	1,071.181	387.067
2015	2/28/2015	1,783.911	15,659.191	315.263	1,700.947	6,308.784	537.430	1,071.732	387.067
2015	3/31/2015	1,774.738	15,689.014	316.257	1,656.971	6,292.882	527.808	1,024.348	397.687
2015	4/30/2015	1,708.039	15,744.786	317.463	1,644.315	6,381.568	528.220	985.925	408.985
2015	5/31/2015	1,703.231	15,539.174	311.723	1,645.267	6,326.332	508.673	1,003.771	374.761
2015	6/30/2015	1,663.940	14,776.135	308.993	1,595.477	6,002.288	520.457	1,015.365	355.474
2015	7/31/2015	1,707.765	15,366.410	312.852	1,556.263	6,170.504	523.362	1,006.790	361.646
2015	8/31/2015	1,687.895	15,548.252	318.585	1,513.172	6,214.504	524.314	984.846	359.324
2015	9/30/2015	1,823.823	16,114.257	335.890	1,584.511	6,410.758	541.771	1,025.777	356.622
2015	10/31/2015	1,799.617	16,525.243	338.013	1,579.311	6,787.353	572.968	1,045.579	384.415
2015	11/30/2015	1,849.951	16,647.800	353.053	1,587.450	6,930.835	572.246	1,018.443	394.035
2015	12/31/2015	1,854.358	17,004.944	363.938	1,622.879	7,010.227	586.998	1,003.768	407.850
2016	1/31/2016	1,981.070	17,931.006	389.534	1,710.013	7,315.448	626.878	1,063.895	429.979
2016	2/29/2016	1,898.437	18,049.528	372.803	1,727.113	7,204.881	610.991	1,154.038	444.178
2016	3/31/2016	1,787.041	18,781.144	369.135	1,822.751	7,431.837	644.639	1,155.876	478.391
2016	4/30/2016	1,873.359	19,457.530	361.329	1,907.492	7,403.482	738.018	1,114.000	467.232
2016	5/31/2016	1,783.573	19,859.644	367.975	1,966.020	7,524.858	738.049	1,115.898	431.212
2016	6/30/2016	1,957.570	21,709.652	417.489	2,243.309	8,118.712	842.482	1,215.780	495.968
2016	7/31/2016	1,934.907	21,366.663	418.089	2,224.254	7,937.897	808.862	1,284.437	488.259
2016	8/31/2016	1,805.259	19,994.999	360.465	2,068.828	7,228.007	691.809	1,291.874	446.991
2016	9/30/2016	1,844.377	20,146.216	369.619	2,145.581	7,240.420	722.253	1,312.112	464.494
2016	10/31/2016	1,841.818	20,003.894	366.978	2,084.430	7,279.433	736.255	1,459.764	489.140
2016	11/30/2016	1,945.995	19,732.904	393.220	2,254.717	7,127.461	815.201	1,519.906	548.981
2016	12/31/2016	2,061.556	19,713.324	398.917	2,223.537	7,182.442	851.037	1,567.159	572.095

		American States Water Company	American Water Works Company, Inc.	Artesian Resources Corporation	California Water Service Group	Essential Utilities, Inc.	Middlesex Water Company	SJW Group	The York Water Company
IQ_TEV	Total Enterprise Value								
2017	1/31/2017	1,996.461	19,905.567	389.627	2,252.318	7,248.066	767.474	1,446.877	541.276
2017	2/28/2017	2,047.038	21,005.750	405.435	2,392.199	7,523.184	764.867	1,435.642	543.844
2017	3/31/2017	2,031.672	20,926.809	404.806	2,348.927	7,599.924	753.446	1,429.755	533.381
2017	4/30/2017	2,041.028	21,280.485	459.255	2,390.278	7,766.839	772.741	1,427.576	564.881
2017	5/31/2017	2,093.355	21,154.982	433.318	2,339.857	7,745.858	729.496	1,411.182	511.596
2017	6/30/2017	2,152.674	21,113.998	457.631	2,443.100	7,854.194	799.276	1,434.551	534.073
2017	7/31/2017	2,227.371	21,675.300	465.979	2,584.899	7,868.402	793.407	1,505.884	533.431
2017	8/31/2017	2,169.768	21,819.040	453.840	2,515.272	7,959.355	778.848	1,559.816	513.165
2017	9/30/2017	2,167.935	21,820.823	459.738	2,548.885	7,922.048	799.924	1,582.374	526.013
2017	10/31/2017	2,332.837	23,042.057	487.148	2,739.110	8,361.244	868.706	1,653.532	542.715
2017	11/30/2017	2,476.643	23,708.052	503.036	2,911.964	8,804.494	920.464	1,834.526	569.968
2017	12/31/2017	2,484.712	23,695.565	468.093	2,899.961	9,024.830	818.955	1,746.286	528.172
2018	1/31/2018	2,386.045	22,211.482	455.741	2,676.690	8,488.205	782.177	1,664.408	499.236
2018	2/28/2018	2,330.478	21,836.881	418.441	2,544.649	8,219.887	745.889	1,536.610	453.581
2018	3/31/2018	2,328.275	22,289.321	451.736	2,500.460	8,201.649	771.522	1,533.329	492.648
2018	4/30/2018	2,426.935	23,282.773	468.415	2,624.854	8,395.553	852.870	1,707.585	508.105
2018	5/31/2018	2,451.747	22,749.901	480.670	2,696.964	8,369.772	901.984	1,763.351	514.206
2018	6/30/2018	2,484.072	23,148.728	478.088	2,634.468	8,455.162	864.849	1,826.988	501.956
2018	7/31/2018	2,592.803	23,659.726	461.952	2,786.663	8,768.262	899.530	1,814.911	491.641
2018	8/31/2018	2,612.593	24,095.482	458.067	2,789.067	8,877.359	938.895	1,676.083	482.498
2018	9/30/2018	2,638.674	24,174.899	465.173	2,873.189	8,827.543	981.843	1,742.928	486.373
2018	10/31/2018	2,641.612	24,290.974	462.968	2,829.926	8,050.059	925.781	1,746.945	495.930
2018	11/30/2018	2,854.211	25,542.931	463.975	3,025.470	8,506.486	1,045.851	2,028.455	521.201
2018	12/31/2018	2,852.741	24,704.953	451.203	3,118.722	8,488.692	1,070.612	2,073.270	507.494
2019	1/31/2019	2,877.728	25,589.887	455.156	3,208.128	8,641.721	1,117.347	2,196.215	518.356
2019	2/28/2019	3,025.515	26,859.987	490.710	3,333.307	9,026.116	1,161.131	1,849.590	564.264
2019	3/31/2019	3,031.767	27,312.084	479.352	3,441.939	9,123.151	1,127.299	1,866.040	540.471
2019	4/30/2019	3,028.482	28,021.492	468.022	3,320.050	11,050.329	1,161.422	1,887.889	536.716
2019	5/31/2019	3,121.361	29,319.236	466.417	3,263.733	11,290.895	1,193.839	1,875.662	542.849
2019	6/30/2019	3,205.990	29,857.182	478.012	3,331.602	11,685.697	1,195.321	1,851.208	558.914
2019	7/31/2019	3,288.044	29,829.949	469.082	3,464.451	11,810.826	1,274.213	1,989.620	562.153
2019	8/31/2019	3,884.746	32,110.699	480.794	3,654.773	10,594.814	1,247.870	2,087.461	582.798
2019	9/30/2019	3,786.405	31,552.483	486.230	3,485.801	10,711.334	1,312.817	2,086.324	664.804
2019	10/31/2019	3,980.509	31,431.278	485.879	3,625.583	10,819.222	1,350.758	2,206.163	669.734
2019	11/30/2019	3,620.848	31,026.340	492.349	3,405.560	10,629.068	1,394.308	2,163.663	678.928
2019	12/31/2019	3,670.581	31,355.352	493.271	3,413.263	11,205.363	1,407.556	2,170.492	702.048
2020	1/31/2020	3,741.313	33,768.714	498.659	3,461.408	12,284.567	1,437.014	2,235.658	718.284
2020	2/29/2020	3,321.663	31,843.781	466.908	3,283.261	10,810.825	1,301.150	3,151.102	652.432
2020	3/31/2020	3,511.490	31,126.337	498.652	3,397.807	11,201.474	1,312.483	3,056.183	668.987
2020	4/30/2020	3,426.059	31,517.277	475.551	3,191.238	11,468.551	1,315.831	3,106.331	628.114
2020	5/31/2020	3,550.718	32,843.911	479.889	3,292.562	15,977.179	1,451.846	3,233.842	682.602
2020	6/30/2020	3,426.051	33,144.409	490.099	3,326.661	15,604.716	1,439.987	3,213.031	728.972
2020	7/31/2020	3,361.504	36,513.246	480.649	3,383.125	16,366.794	1,394.988	3,223.009	707.480
2020	8/31/2020	3,342.280	35,704.383	488.618	3,307.546	16,052.756	1,397.813	3,245.849	700.589
2020	9/30/2020	3,300.601	36,345.845	481.605	3,214.184	15,486.091	1,363.233	3,198.199	657.053
2020	10/31/2020	3,291.012	37,366.024	488.471	3,269.510	15,725.350	1,401.172	3,193.349	656.793
2020	11/30/2020	3,259.697	38,014.499	513.794	3,534.809	16,590.019	1,477.460	3,358.436	696.617
2020	12/31/2020	3,469.596	38,030.813	514.725	3,761.581	17,083.015	1,546.988	3,465.807	716.975
2021	1/31/2021	3,386.596	39,036.873	547.444	3,791.984	16,840.196	1,671.545	3,374.713	675.737
2021	2/28/2021	3,245.232	36,222.602	515.978	3,893.920	15,986.424	1,485.815	3,323.574	651.856
2021	3/31/2021	3,340.061	37,685.571	541.459	3,963.904	16,764.010	1,666.677	3,400.003	766.019

		American States Water Company	American Water Works Company, Inc.	Artesian Resources Corporation	California Water Service Group	Essential Utilities, Inc.	Middlesex Water Company	SJW Group	The York Water Company
IQ_TEV	Total Enterprise Value								
2021	4/30/2021	3,472.960	38,787.077	548.064	4,123.256	17,349.628	1,719.388	3,442.143	800.898
2021	5/31/2021	3,503.694	38,895.355	553.306	4,026.161	17,480.428	1,798.882	3,409.374	782.208
2021	6/30/2021	3,510.708	38,733.847	513.800	3,960.076	16,968.753	1,724.948	3,375.116	716.451
2021	7/31/2021	3,834.066	41,633.725	533.442	4,378.985	17,809.166	2,090.894	3,565.949	755.147
2021	8/31/2021	4,010.188	44,081.595	540.347	4,423.820	18,053.677	2,226.277	3,577.871	804.546
2021	9/30/2021	3,763.240	41,684.037	529.782	4,185.729	17,181.238	2,110.315	3,480.408	701.239
2021	10/31/2021	3,959.617	42,616.925	549.980	4,252.000	17,424.538	2,251.487	3,520.518	756.755
2021	11/30/2021	4,085.497	41,691.818	576.037	4,364.055	17,716.969	2,128.318	3,563.170	748.481
2021	12/31/2021	4,427.527	45,375.219	607.616	4,829.636	19,339.578	2,430.317	3,737.653	786.746
2022	1/31/2022	4,013.472	40,281.270	623.558	4,315.656	18,088.501	2,096.824	3,608.207	729.610
2022	2/28/2022	3,732.609	38,400.829	608.322	4,096.303	17,883.367	2,079.496	3,555.659	722.403
2022	3/31/2022	3,912.119	41,029.501	628.164	4,222.530	19,040.466	2,174.185	3,687.988	738.296
2022	4/30/2022	3,530.984	38,716.435	609.522	3,836.918	17,428.769	1,893.110	3,372.977	699.191
2022	5/31/2022	3,563.128	38,202.183	630.033	3,933.709	18,041.991	1,824.977	3,459.152	736.815
2022	6/30/2022	3,646.648	37,751.435	630.804	4,034.802	17,935.876	1,871.509	3,476.085	728.980
2022	7/31/2022	3,855.817	39,863.729	656.852	4,338.696	19,512.074	2,013.281	3,610.024	765.450
2022	8/31/2022	3,736.380	38,598.202	703.687	4,254.445	19,148.482	1,906.446	3,568.887	742.936
2022	9/30/2022	3,550.856	35,273.327	643.650	3,937.006	17,111.415	1,702.701	3,366.228	663.898
2022	10/31/2022	4,013.186	38,243.846	679.906	4,446.526	17,861.286	1,931.177	3,787.037	737.087
2022	11/30/2022	4,317.869	39,417.198	701.492	4,603.871	19,223.387	2,001.379	3,908.618	777.289
2022	12/31/2022	4,116.802	39,537.205	736.984	4,368.676	19,089.619	1,740.680	4,105.693	767.153
2023	1/31/2023	4,176.679	40,277.244	740.620	4,397.733	18,827.328	1,832.225	3,991.086	773.863
2023	2/28/2023	3,996.679	37,923.461	720.256	4,182.275	18,019.716	1,715.257	4,001.471	745.738
2023	3/31/2023	4,014.661	40,888.375	715.839	4,319.377	18,402.915	1,744.109	3,991.909	778.775
2023	4/30/2023	4,009.485	39,870.915	716.100	4,278.123	18,151.764	1,653.428	3,985.431	740.771
2023	5/31/2023	4,068.918	39,131.270	710.352	4,324.596	17,515.070	1,815.441	4,018.866	756.502
2023	6/30/2023	4,001.621	38,800.375	689.094	4,028.963	17,295.635	1,803.064	3,817.103	740.205
2023	7/31/2023	4,053.758	40,099.998	666.609	4,192.111	17,924.858	1,820.370	3,859.884	741.063
2023	8/31/2023	3,941.537	38,408.327	645.669	4,032.277	16,679.806	1,728.791	3,710.570	741.290
2023	9/30/2023	3,737.055	35,505.818	605.880	3,862.633	16,000.026	1,568.884	3,531.076	694.781
2023	10/31/2023	3,713.760	34,302.766	578.143	3,947.632	15,769.906	1,520.610	3,679.773	674.460
2023	11/30/2023	3,804.453	37,239.907	607.530	4,056.706	16,580.242	1,544.753	3,780.681	713.444
2023	12/31/2023	3,823.683	37,269.113	601.892	4,131.731	17,055.550	1,575.380	3,771.421	721.177
2024	1/31/2024	3,608.456	35,717.314	555.384	3,750.838	16,653.345	1,403.546	3,585.890	681.936
2024	2/29/2024	3,545.178	35,149.296	531.067	3,857.709	16,609.473	1,313.088	3,502.694	675.061
2024	3/31/2024	3,575.878	35,864.048	558.671	3,891.737	17,237.914	1,347.638	3,551.746	700.539
2024	4/30/2024	3,541.104	35,893.603	537.832	4,130.748	17,109.362	1,315.915	3,520.673	689.645
2024	5/31/2024	3,643.981	38,024.947	539.350	4,175.218	17,339.072	1,386.125	3,529.054	718.074
2024	6/30/2024	3,606.007	37,711.283	533.105	4,094.363	17,229.662	1,357.243	3,513.259	718.792
2024	7/31/2024	3,598.561	37,859.348	554.611	4,086.855	17,188.634	1,385.234	3,496.497	715.923
2024	8/31/2024	3,598.561	37,859.348	554.611	4,086.855	17,188.634	1,385.234	3,496.497	715.923
2024	9/30/2024	3,598.561	37,859.348	554.611	4,086.855	17,188.634	1,385.234	3,496.497	715.923
2024	10/31/2024	3,598.561	37,859.348	554.611	4,086.855	17,188.634	1,385.234	3,496.497	715.923
2024	11/30/2024	3,598.561	37,859.348	554.611	4,086.855	17,188.634	1,385.234	3,496.497	715.923
2024	12/31/2024	3,598.561	37,859.348	554.611	4,086.855	17,188.634	1,385.234	3,496.497	715.923
		MAX							

		American States Water Company	American Water Works Company, Inc.	Artesian Resources Corporation	California Water Service Group	Essential Utilities, Inc.	Middlesex Water Company	SJW Group	The York Water Company
IQ_TEV	Total Enterprise Value								
2014		$1,705.381	$15,480.025	$322.240	$1,706.069	$6,365.511	$534.208	$1,037.788	$381.175
2015		$1,854.358	$17,004.944	$363.938	$1,700.947	$7,010.227	$586.998	$1,071.732	$408.985
2016		$2,061.556	$21,709.652	$418.089	$2,254.717	$8,118.712	$851.037	$1,567.159	$572.095
2017		$2,484.712	$23,708.052	$503.036	$2,911.964	$9,024.830	$920.464	$1,834.526	$569.968
2018		$2,854.211	$25,542.931	$480.670	$3,118.722	$8,877.359	$1,070.612	$2,073.270	$521.201
2019		$3,980.509	$32,110.699	$493.271	$3,654.773	$11,810.826	$1,407.556	$2,206.163	$702.048
2020		$3,741.313	$38,030.813	$514.725	$3,761.581	$17,083.015	$1,546.988	$3,465.807	$728.972
2021		$4,427.527	$45,375.219	$607.616	$4,829.636	$19,339.578	$2,430.317	$3,737.653	$804.546
2022		$4,317.869	$41,029.501	$736.984	$4,603.871	$19,512.074	$2,174.185	$4,105.693	$777.289
2023		$4,176.679	$40,888.375	$740.620	$4,397.733	$18,827.328	$1,832.225	$4,018.866	$778.775
2024		$3,643.981	$38,024.947	$558.671	$4,175.218	$17,339.072	$1,403.546	$3,585.890	$718.792
		MIN							
2014		$1,408.915	$13,251.478	$298.616	$1,530.414	$5,805.341	$477.832	$915.588	$327.441
2015		$1,663.940	$14,776.135	$308.993	$1,513.172	$6,002.288	$508.673	$984.846	$355.474
2016		$1,783.573	$17,931.006	$360.465	$1,710.013	$7,127.461	$610.991	$1,063.895	$429.979
2017		$1,996.461	$19,905.567	$389.627	$2,252.318	$7,248.066	$729.496	$1,411.182	$511.596
2018		$2,328.275	$21,836.881	$418.441	$2,500.460	$8,050.059	$745.889	$1,533.329	$453.581
2019		$2,877.728	$25,589.887	$455.156	$3,208.128	$8,641.721	$1,117.347	$1,849.590	$518.356
2020		$3,259.697	$31,126.337	$466.908	$3,191.238	$10,810.825	$1,301.150	$2,235.658	$628.114
2021		$3,245.232	$36,222.602	$513.800	$3,791.984	$15,986.424	$1,485.815	$3,323.574	$651.856
2022		$3,530.984	$35,273.327	$608.322	$3,836.918	$17,111.415	$1,702.701	$3,366.228	$663.898
2023		$3,713.760	$34,302.766	$578.143	$3,862.633	$15,769.906	$1,520.610	$3,531.076	$674.460
2024		$3,541.104	$35,149.296	$531.067	$3,750.838	$16,609.473	$1,313.088	$3,496.497	$675.061
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
		MIDPOINT ENT VALUE							
2014		$1,557.148	$14,365.752	$310.428	$1,618.242	$6,085.426	$506.020	$976.688	$354.308
2015		$1,759.149	$15,890.539	$336.465	$1,607.060	$6,506.257	$547.835	$1,028.289	$382.229
2016		$1,922.564	$19,820.329	$389.277	$1,982.365	$7,623.087	$731.014	$1,315.527	$501.037
2017		$2,240.587	$21,806.809	$446.331	$2,582.141	$8,136.448	$824.980	$1,622.854	$540.782
2018		$2,591.243	$23,689.906	$449.556	$2,809.591	$8,463.709	$908.250	$1,803.300	$487.391
2019		$3,429.118	$28,850.293	$474.213	$3,431.450	$10,226.273	$1,262.452	$2,027.877	$610.202
2020		$3,500.505	$34,578.575	$490.816	$3,476.409	$13,946.920	$1,424.069	$2,850.732	$678.543
2021		$3,836.380	$40,798.910	$560.708	$4,310.810	$17,663.001	$1,958.066	$3,530.614	$728.201
2022		$3,924.427	$38,151.414	$672.653	$4,220.394	$18,311.744	$1,938.443	$3,735.961	$720.594
2023		$3,945.219	$37,595.571	$659.382	$4,130.183	$17,298.617	$1,676.417	$3,774.971	$726.617
2024		$3,592.542	$36,587.121	$544.869	$3,963.028	$16,974.272	$1,358.317	$3,541.193	$696.926
SPOT		$3,575.878	$35,864.048	$558.671	$3,891.737	$17,237.914	$1,347.638	$3,551.746	$700.539

	SPOT											
	4	4	4	4	4	4	4	4	4	4	4	4
	2023	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
	CQ42023 CQ42023	CQ42023 CQ42023	CQ42022 CQ42022	CQ42021 CQ42021	CQ42020 CQ42020	CQ42019 CQ42019	CQ42018 CQ42018	CQ42017 CQ42017	CQ42016 CQ42016	CQ42015 CQ42015	CQ42014 CQ42014	CQ42013 CQ42013
	IQ_GPPE	IQ_GPPE	IQ_GPPE	IQ_GPPE	IQ_GPPE	IQ_GPPE	IQ_GPPE	IQ_GPPE	IQ_GPPE	IQ_GPPE	IQ_GPPE	IQ_GPPE
	Gross Property, Plant & Equipment	Gross Property, Plant & Equipment	Gross Property, Plant & Equipment	Gross Property, Plant & Equipment	Gross Property, Plant & Equipment	Gross Property, Plant & Equipment	Gross Property, Plant & Equipment	Gross Property, Plant & Equipment	Gross Property, Plant & Equipment	Gross Property, Plant & Equipment	Gross Property, Plant & Equipment	Gross Property, Plant & Equipment
American States Water Company	2,532.952	2,532.952	2,378.337	2,270.982	2,126.262	2,001.858	1,866.538	1,746.634	1,692.519	1,599.336	1,521.295	1,468.948
American Water Works Company, Inc.	32,275.000	32,275.000	29,818.000	27,505.000	25,709.000	24,044.000	23,204.000	21,716.000	19,954.000	18,504.000	17,269.000	16,497.763
Artesian Resources Corporation	904.705	904.705	846.182	754.937	712.151	672.391	629.375	582.018	539.678	514.847	496.223	472.929
California Water Service Group	4,905.949	4,905.949	4,523.255	4,182.707	3,878.445	3,540.033	3,204.703	2,947.967	2,695.414	2,485.727	2,323.703	2,195.096
Essential Utilities, Inc.	15,014.437	15,014.437	13,779.121	12,659.306	11,680.353	8,214.803	7,648.469	7,003.993	6,509.117	6,088.011	5,707.017	5,350.868
Middlesex Water Company	1,252.689	1,252.689	1,153.975	1,083.822	1,000.470	893.664	785.863	712.990	662.635	617.412	592.589	566.285
SJW Group	4,129.656	4,129.656	3,876.151	3,654.971	3,403.010	3,192.780	1,976.448	1,834.123	1,704.585	1,576.208	1,467.612	1,374.327
The York Water Company	612.887	612.887	541.122	483.313	436.163	399.269	378.800	363.657	340.843	326.789	314.054	299.673

	IQ_NPPE	IQ_NPPE	IQ_NPPE	IQ_NPPE	IQ_NPPE	IQ_NPPE	IQ_NPPE	IQ_NPPE	IQ_NPPE	IQ_NPPE	IQ_NPPE	IQ_NPPE
	Net Property, Plant & Equipment	Net Property, Plant & Equipment	Net Property, Plant & Equipment	Net Property, Plant & Equipment	Net Property, Plant & Equipment	Net Property, Plant & Equipment	Net Property, Plant & Equipment	Net Property, Plant & Equipment	Net Property, Plant & Equipment	Net Property, Plant & Equipment	Net Property, Plant & Equipment	Net Property, Plant & Equipment
American States Water Company	1,908.480	1,908.480	1,772.106	1,676.718	1,557.936	1,458.595	1,304.683	1,213.264	1,159.766	1,069.638	1,021.056	997.283
American Water Works Company, Inc.	25,524.000	25,524.000	23,305.000	21,176.000	19,805.000	18,335.000	17,409.000	16,246.000	14,992.000	13,933.000	13,029.000	12,388.354
Artesian Resources Corporation	718.483	718.483	672.238	594.633	563.817	535.013	502.527	464.384	429.383	409.562	397.823	383.102
California Water Service Group	3,765.909	3,765.909	3,470.882	2,849.059	2,654.027	2,409.873	2,220.873	2,036.971	1,847.460	1,689.251	1,579.060	1,503.612
Essential Utilities, Inc.	12,134.488	12,134.488	11,172.680	10,300.796	9,573.211	6,358.657	5,930.326	5,399.860	5,001.615	4,688.925	4,401.990	4,138.568
Middlesex Water Company	1,013.049	1,013.049	935.584	881.299	813.014	722.044	628.476	566.718	526.907	491.069	474.603	455.919
SJW Group	3,168.753	3,168.753	2,654.825	2,518.530	2,356.988	2,230.343	1,365.771	1,278.025	1,180.481	1,082.639	1,011.434	953.401
The York Water Company	495.273	495.273	431.901	383.626	344.365	313.993	299.871	289.524	271.652	262.189	253.959	245.000

		2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
		Customers	Customers	Customers	Customers	Customers	Customers	Customers	Customers	Customers	Customers	Customers
American States Water Company	288,870	288,870	287,970	287,500	286,341	285,128	284,272	283,223	284,942	283,997	280,717	279,036
American Water Works Company, Inc.	3,486,000	3,486,000	3,449,000	3,530,000	3,496,000	3,434,000	3,382,000	3,353,000	3,312,000	3,252,691	3,219,499	3,158,226
Artesian Resources Corporation	106,640	106,640	104,740	100,640	95,640	92,640	90,440	86,500	85,000	81,400	81,900	81,200
California Water Service Group	553,600	553,600	553,000	547,600	543,000	520,600	517,500	514,300	511,500	508,404	502,900	500,700
Essential Utilities, Inc.	1,857,461	1,857,461	1,851,586	1,820,049	1,798,803	1,026,704	1,005,590	982,949	972,265	920,381	941,007	930,577
Middlesex Water Company	125,300	125,300	122,300	121,300	122,200	120,000	113,300	114,920	109,300	108,720	105,720	102,010
SJW Group	405,350	405,350	402,900	398,000	389,293	386,607	247,267	244,133	242,421	241,000	238,977	237,600
The York Water Company	77,893	77,893	76,731	73,144	72,681	71,411	70,263	69,604	67,052	66,000	64,118	63,779

		2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
		population	population	population	population	population	population	population	population	population	population	population
American States Water Company	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
American Water Works Company, Inc.	14,000,000	14,000,000	14,000,000	14,000,000	15,000,000	15,000,000	14,000,000	15,000,000	12,200,000	12,100,000	11,500,000	11,400,000
Artesian Resources Corporation	325,740	325,740	324,220	326,700	300,000	300,000	300,000	290,000	314,300	301,000	260,000	260,000
California Water Service Group	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	1,600,000	1,600,000	1,600,000
Essential Utilities, Inc.	5,500,000	5,500,000	5,000,000	5,000,000	5,000,000	3,000,000	3,000,000	3,000,000	3,053,800	2,890,800	3,000,000	3,000,000
Middlesex Water Company	500,000	500,000	500,000	500,000	500,000	400,000	400,000	412,000	400,000	390,000	385,878	400,000
SJW Group	1,544,000	1,544,000	1,536,000	1,526,000	1,614,866	1,604,442	1,114,200	1,100,200	1,092,600	1,089,000	1,077,000	1,071,000
The York Water Company	209,000	209,000	208,000	204,000	202,000	201,000	199,000	198,000	196,000	194,000	190,000	189,000

	1	2	3	4	5	6	7	8	9	10	11	12
	SPOT		2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
Average Gross Property, Plant & Equipment												
American States Water Company	2,532.952		2,455.645	2,324.660	2,198.622	2,064.060	1,934.198	1,806.586	1,719.577	1,645.928	1,560.316	1,495.122
American Water Works Company, Inc.	32,275.000		31,046.500	28,661.500	26,607.000	24,876.500	23,624.000	22,460.000	20,835.000	19,229.000	17,886.500	16,883.382
Artesian Resources Corporation	904.705		875.444	800.560	733.544	692.271	650.883	605.697	560.848	527.263	505.535	484.576
California Water Service Group	4,905.949		4,714.602	4,352.981	4,030.576	3,709.239	3,372.368	3,076.335	2,821.691	2,590.571	2,404.715	2,259.400
Essential Utilities, Inc.	15,014.437		14,396.779	13,219.214	12,169.830	9,947.578	7,931.636	7,326.231	6,756.555	6,298.564	5,897.514	5,528.943
Middlesex Water Company	1,252.689		1,203.332	1,118.899	1,042.146	947.067	839.764	749.427	687.813	640.024	605.001	579.437
SJW Group	4,129.656		4,002.904	3,765.561	3,528.991	3,297.895	2,584.614	1,905.286	1,769.354	1,640.397	1,521.910	1,420.970
The York Water Company	612.887		577.005	512.218	459.738	417.716	389.035	371.229	352.250	333.816	320.422	306.864
Average Net Property, Plant & Equipment												
American States Water Company	1,908.480		1,840.293	1,724.412	1,617.327	1,508.266	1,381.639	1,258.974	1,186.515	1,114.702	1,045.347	1,009.170
American Water Works Company, Inc.	25,524.000		24,414.500	22,240.500	20,490.500	19,070.000	17,872.000	16,827.500	15,619.000	14,462.500	13,481.000	12,708.677
Artesian Resources Corporation	718.483		695.361	633.436	579.225	549.415	518.770	483.456	446.884	419.473	403.693	390.463
California Water Service Group	3,765.909		3,618.396	3,159.971	2,751.543	2,531.950	2,315.373	2,128.922	1,942.216	1,768.356	1,634.156	1,541.336
Essential Utilities, Inc.	12,134.488		11,653.584	10,736.738	9,937.004	7,965.934	6,144.492	5,665.093	5,200.738	4,845.270	4,545.458	4,270.279
Middlesex Water Company	1,013.049		974.317	908.442	847.157	767.529	675.260	597.597	546.813	508.988	482.836	465.261
SJW Group	3,168.753		2,911.789	2,586.678	2,437.759	2,293.666	1,798.057	1,321.898	1,229.253	1,131.560	1,047.037	982.418
The York Water Company	495.273		463.587	407.764	363.996	329.179	306.932	294.698	280.588	266.921	258.074	249.480
Average Customers												
American States Water Company	288,870		288,420	287,735	286,921	285,735	284,700	283,748	284,083	284,470	282,357	279,877
American Water Works Company, Inc.	3,486,000		3,467,500	3,489,500	3,513,000	3,465,000	3,408,000	3,367,500	3,332,500	3,282,346	3,236,095	3,188,863
Artesian Resources Corporation	106,640		105,690	102,690	98,140	94,140	91,540	88,470	85,750	83,200	81,650	81,550
California Water Service Group	553,600		553,300	550,300	545,300	531,800	519,050	515,900	512,900	509,952	505,652	501,800
Essential Utilities, Inc.	1,857,461		1,854,524	1,835,818	1,809,426	1,412,754	1,016,147	994,270	977,607	946,323	930,694	935,792
Middlesex Water Company	125,300		123,800	121,800	121,750	121,100	116,650	114,110	112,110	109,010	107,220	103,865
SJW Group	405,350		404,125	400,450	393,647	387,950	316,937	245,700	243,277	241,711	239,989	238,289
The York Water Company	77,893		77,312	74,938	72,913	72,046	70,837	69,934	68,328	66,526	65,059	63,949
Average Population												
American States Water Company	1,000,000		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
American Water Works Company, Inc.	14,000,000		14,000,000	14,000,000	14,500,000	15,000,000	14,500,000	14,500,000	13,600,000	12,150,000	11,800,000	11,450,000
Artesian Resources Corporation	325,740		324,980	325,460	313,350	300,000	300,000	295,000	302,150	307,650	280,500	260,000
California Water Service Group	2,000,000		2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	1,800,000	1,600,000	1,600,000
Essential Utilities, Inc.	5,500,000		5,250,000	5,000,000	5,000,000	4,000,000	3,000,000	3,000,000	3,026,900	2,972,300	2,945,400	3,000,000
Middlesex Water Company	500,000		500,000	500,000	500,000	450,000	400,000	406,000	406,000	395,000	387,939	392,939
SJW Group	1,544,000		1,540,000	1,531,000	1,570,433	1,609,654	1,359,321	1,107,200	1,096,400	1,090,800	1,083,000	1,074,000
The York Water Company	209,000		208,500	206,000	203,000	201,500	200,000	198,500	197,000	195,000	192,000	189,500

Midpoint Ent Value

3	American States Water Company	3,576	3,945	3,924	3,836	3,501	3,429	2,591	2,241	1,923	1,759	1,557
4	American Water Works Company, Inc.	35,864	37,596	38,151	40,799	34,579	28,850	23,690	21,807	19,820	15,891	14,366
5	Artesian Resources Corporation	559	659	673	561	491	474	450	446	389	336	310
6	California Water Service Group	3,892	4,130	4,220	4,311	3,476	3,431	2,810	2,582	1,982	1,607	1,618
7	Essential Utilities, Inc.	17,238	17,299	18,312	17,663	13,947	10,226	8,464	8,136	7,623	6,506	6,085
8	Middlesex Water Company	1,348	1,676	1,938	1,958	1,424	1,262	908	825	731	548	506
9	SJW Group	3,552	3,775	3,736	3,531	2,851	2,028	1,803	1,623	1,316	1,028	977
10	The York Water Company	701	727	721	728	679	610	487	541	501	382	354

Midpoint GPPE

3	American States Water Company	1.41	1.61	1.69	1.74	1.70	1.77	1.43	1.30	1.17
4	American Water Works Company, Inc.	1.11	1.21	1.33	1.53	1.39	1.22	1.05	1.05	1.03
5	Artesian Resources Corporation	0.62	0.75	0.84	0.76	0.71	0.73	0.74	0.80	0.74
6	California Water Service Group	0.79	0.88	0.97	1.07	0.94	1.02	0.91	0.92	0.77
7	Essential Utilities, Inc.	1.15	1.20	1.39	1.45	1.40	1.29	1.16	1.20	1.21
8	Middlesex Water Company	1.08	1.39	1.73	1.88	1.50	1.50	1.21	1.20	1.14
9	SJW Group	0.86	0.94	0.99	1.00	0.86	0.78	0.95	0.92	0.80
10	The York Water Company	1.14	1.26	1.41	1.58	1.62	1.57	1.31	1.54	1.50
	Median	1.09	1.21	1.36	1.49	1.40	1.26	1.11	1.12	1.09

Midpoint NPPE

3	American States Water Company	1.87	2.14	2.28	2.37	2.32	2.48	2.06	1.89	1.72
4	American Water Works Company, Inc.	1.41	1.54	1.72	1.99	1.81	1.61	1.41	1.40	1.37
5	Artesian Resources Corporation	0.78	0.95	1.06	0.97	0.89	0.91	0.93	1.00	0.93
6	California Water Service Group	1.03	1.14	1.34	1.57	1.37	1.48	1.32	1.33	1.12
7	Essential Utilities, Inc.	1.42	1.48	1.71	1.78	1.75	1.66	1.49	1.56	1.57
8	Middlesex Water Company	1.33	1.72	2.13	2.31	1.86	1.87	1.52	1.51	1.44
9	SJW Group	1.12	1.30	1.44	1.45	1.24	1.13	1.36	1.32	1.16
10	The York Water Company	1.41	1.57	1.77	2.00	2.06	1.99	1.65	1.93	1.88
	Median	1.37	1.51	1.71	1.88	1.78	1.64	1.45	1.45	1.40

Midpoint Customers

3	American States Water Company	12,379	13,679	13,639	13,371	12,251	12,045	9,132	7,887	6,758
4	American Water Works Company, Inc.	10,288	10,842	10,933	11,614	9,979	8,465	7,035	6,544	6,038
5	Artesian Resources Corporation	5,239	6,239	6,550	5,713	5,214	5,180	5,081	5,205	4,679
6	California Water Service Group	7,030	7,465	7,669	7,905	6,537	6,611	5,446	5,034	3,887
7	Essential Utilities, Inc.	9,280	9,328	9,975	9,762	9,872	10,064	8,512	8,323	8,055
8	Middlesex Water Company	10,755	13,541	15,915	16,083	11,759	10,823	7,959	7,359	6,706
9	SJW Group	8,762	9,341	9,329	8,969	7,348	6,398	7,339	6,671	5,443
10	The York Water Company	8,994	9,399	9,616	9,987	9,418	8,614	6,969	7,914	7,531
	Median	9,137	9,370	9,795	9,874	9,645	8,540	7,187	7,015	6,372

Midpoint Population

3	American States Water Company	3,576	3,945	3,924	3,836	3,501	3,429	2,591	2,241	1,923
4	American Water Works Company, Inc.	2,562	2,685	2,725	2,814	2,305	1,990	1,634	1,603	1,631
5	Artesian Resources Corporation	1,715	2,029	2,067	1,789	1,636	1,581	1,524	1,477	1,265
6	California Water Service Group	1,946	2,065	2,110	2,155	1,738	1,716	1,405	1,291	1,101
7	Essential Utilities, Inc.	3,134	3,295	3,662	3,533	3,487	3,409	2,821	2,688	2,565
8	Middlesex Water Company	2,695	3,353	3,877	3,916	3,165	3,156	2,237	2,032	1,851
9	SJW Group	2,300	2,451	2,440	2,248	1,771	1,492	1,629	1,480	1,206
10	The York Water Company	3,352	3,485	3,498	3,587	3,367	3,051	2,455	2,745	2,569

Median	2,628	2,990	3,112	3,173	2,735	2,520	1,935	1,818	1,741

	SPOT	2023	2022	2021	2020	2019	2018	2017	2016
Median Enterprise Value as a Multiple of:									
GPPE	1.09	1.21	1.36	1.49	1.40	1.26	1.11	1.12	1.09
NPPE	1.37	1.51	1.71	1.88	1.78	1.64	1.45	1.45	1.40
Customers	9,137	9,370	9,795	9,874	9,645	8,540	7,187	7,015	6,372
Population	2,628	2,990	3,112	3,173	2,735	2,520	1,935	1,818	1,741

	SPOT	2023	2022	2021	2020	2019	2018	2017	2016
Index Values of Multiples:									
GPPE	1.00	1.10	1.24	1.36	1.28	1.15	1.01	1.03	0.99
NPPE	1.00	1.11	1.25	1.38	1.30	1.20	1.06	1.06	1.03
Customers	1.00	1.03	1.07	1.08	1.06	0.93	0.79	0.77	0.70
Population	1.00	1.14	1.18	1.21	1.04	0.96	0.74	0.69	0.66

NetPlant Advances CIAC DefTax ITC

		2023 Net Property, Plant & Equipment	Advances for construction	Contributions in aid of construction	Deferred income taxes, net	Deferred investment tax credits	2023 Known "Cost Free" Capital	2023 Percentage of Known "Cost Free" Capital
		(Millions of $)						
	Comparable Group							
1	American States Water Co	$1,892.280	$67.431	$151.414	$161.577	$1.011	$381.433	20%
2	American Water Works Co Inc	$25,438.000	$352.000	$1,551.000	$1,481.000	$0.000	$3,384.000	13%
3	Artesian Resources -CL A	$714.284	$2.797	$247.934	$58.381	$0.423	$309.535	43%
4	California Water Service Gp	$3,773.255	$199.448	$286.491	$352.762	$0.000	$838.701	22%
5	Essential Utilities, Inc.	$12,097.072	$128.755	$645.066	$1,628.324	$0.000	$2,402.145	20%
6	Middlesex Water Co	$998.342	$21.313	$122.270	$88.736	$0.000	$232.319	23%
7	SJW Corp	$3,183.810	$146.582	$326.451	$238.528	$0.000	$711.561	22%
8	York Water Co	$495.273	$18.853	$47.321	$55.235	$0.000	$121.409	25%
	Median							22%

CONSOLIDATED BALANCE SHEETS - USD ($) $ in Thousands	Dec. 31, 2023	Dec. 31, 2022
Regulated utility plant, at cost		
Water	$2,082,927	$2,006,468
Electric	156,471	133,815
Total	2,239,398	2,140,283
Non-regulated utility property, at cost	40,223	38,066
Total utility plant, at cost	2,279,621	2,178,349
Less — accumulated depreciation	-624,472	-606,231
Utility plant before construction work in progress	1,655,149	1,572,118
Construction work in progress	237,131	181,648
Net utility plant	1,892,280	1,753,766
Other Property and Investments		
Goodwill	1,116	1,116
Other property and investments	42,932	36,907
Total other property and investments	44,048	38,023
Current Assets		
Cash and cash equivalents	14,073	5,997
Accounts receivable — customers, less allowance for doubtful accounts	34,250	26,206
Unbilled receivable (Note 2)	23,516	20,663
Receivable from U.S. government, less allowance for doubtful accounts (Note 2)	49,306	34,974
Other accounts receivable, less allowance for doubtful accounts	6,340	4,215
Income taxes receivable	52	3901
Materials and supplies	17,574	14,623
Regulatory assets — current	45,144	14,028
Prepayments and other current assets	5,767	5,450
Contract assets (Note 2)	9,956	9,390
Purchase power contract derivatives at fair value	0	11,847
Total current assets	205,978	151,294
Regulatory and Other Assets		
Unbilled revenue, receivable from U.S government	4,886	6,456
Receivable from U.S. government (Note 2)	42,183	50,482
Contract assets (Note 2)	4,422	5,592
Operating lease right-of-use assets	7,982	9,535
Regulatory assets	25,585	5,694
Other	18,758	13,532
Total other assets	103,816	91,291
Total Assets	2,246,122	2,034,374
Capitalization		
Common shareholder's equity	776,109	709,549
Long-term debt	575,555	446,547
Total capitalization	1,351,664	1,156,096
Current Liabilities		
Notes payable to bank	42,000	255,500
Long-term debt — current	353	399
Accounts payable	68,705	84,849
Income taxes payable	492	1,848
Accrued other taxes	14,654	16,257
Accrued employee expenses	14,738	13,996
Accrued interest	8,607	5,308
Regulatory liabilities	0	4,574
Contract liabilities (Note 2)	1352	903
Operating lease liabilities	1,856	1,892
Purchase power contract derivative at fair value (Note 5)	2,360	0
Other	11,506	10,996
Total current liabilities	166623	396522
Other Credits		
Note payable to bank, noncurrent	291,500	22,000
Advances for construction	67,431	64,351
Contributions in aid of construction — net	151,414	147,918
Deferred income taxes	161,577	149,677
Regulatory liabilities	1,222	40,602
Unamortized investment tax credits	1,011	1,082
Accrued pension and other post-retirement benefits	32,652	33,636
Operating lease liabilities	6,619	8,090
Other	14,409	14,400
Total other credits	727,835	481,756
Commitments and Contingencies		
Total liabilities and capitalization	$2,246,122	$2,034,374

NetPlant	1,892,280	1,753,766
Advances	67,431	64,351
CIAC	151,414	147,918
DefTax	161,577	149,677
ITC	1,011	1,082

Consolidated Balance Sheets - USD ($) $ in Millions	Dec. 31, 2023	Dec. 31, 2022
ASSETS		
Property, plant and equipment	$32,189	$29,736
Accumulated depreciation	-6,751	-6,513
Property, plant and equipment, net	25,438	23,223
Current assets:		
Cash and cash equivalents	330	85
Restricted funds	34	32
Accounts receivable, net of allowance for uncollectible accounts of $51 and $60, respectively	339	334
Income tax receivable	86	114
Unbilled revenues	302	275
Materials and supplies	112	98
Other	186	312
Total current assets	1,389	1,250
Regulatory and other long-term assets:		
Regulatory assets	1106	990
Seller promissory note from the sale of the Homeowner Services Group	720	720
Operating lease right-of-use assets	86	82
Goodwill	1,143	1,143
Other	416	379
Total regulatory and other long-term assets	3,471	3,314
Total assets	30,298	27,787
Capitalization:		
Common stock ($0.01 par value; 500,000,000 shares authorized; 200,144,968 and 187,200,539 shares issued, respectively)	2	2
Paid-in-capital	8,550	6,824
Retained earnings	1,659	1267
Accumulated other comprehensive loss	-26	-23
Treasury stock, at cost (5,414,867 and 5,342,477 shares, respectively)	-388	-377
Total common shareholders' equity	9,797	7,693
Long-term debt	11,715	10,926
Redeemable preferred stock at redemption value	3	3
Total long-term debt	11,718	10,929
Total capitalization	21,515	18,622
Current liabilities:		
Short-term debt	179	1175
Current portion of long-term debt	475	281
Accounts payable	294	254
Accrued liabilities	791	706
Accrued taxes	67	49
Accrued interest	93	91
Other	252	255
Total current liabilities	2,151	2,811
Regulatory and other long-term liabilities:		
Advances for construction	352	316
Deferred income taxes and investment tax credits	2,717	2,437
Regulatory liabilities	1,481	1,590
Operating lease liabilities	73	70
Accrued pension expense	262	235
Other	196	202
Total regulatory and other long-term liabilities	5,081	4,850
Contributions in aid of construction	1,551	1,504
Commitments and contingencies		
Total capitalization and liabilities	$30,298	$27,787

NetPlant	25,438	23,223
Advances	352	316
CIAC	1,551	1,504
DefTax	1,481	1,590
ITC	0	0

CONSOLIDATED BALANCE SHEETS - USD ($) $ in Thousands	Dec. 31, 2023	Dec. 31, 2022
ASSETS		
Utility plant, at original cost (less accumulated depreciation - 2023 - $185,170; 2022 - $172,954	$714,284	$668,031
Current assets		
Cash and cash equivalents	2,505	1309
Accounts and other receivables (less provision for expected credit loss 2023 - $328; 2022 - $41	12,830	13,511
Income tax receivable	1,799	1,632
Unbilled operating revenues	1,934	1,586
Materials and supplies	5,983	4,702
Prepaid property taxes	2,269	2,186
Prepaid expenses and other	3,297	2,878
Total current assets	30,617	27,804
Other assets		
Non-utility property (less accumulated depreciation - 2023 - $1,052; 2022 - $990)	3,693	3,740
Other deferred assets	8,504	10,536
Goodwill	1,939	1939
Operating lease right of use assets	506	467
Total other assets	14,642	16,682
Regulatory assets, net	7,289	7,274
Total assets	766,832	719,791
Stockholders' equity		
Common stock	10,285	9,502
Preferred stock	0	0
Additional paid-in capital	143,369	107,142
Retained earnings	76,743	71,286
Total stockholders' equity	230,397	187,930
Long-term debt, net of current portion	178,307	175,619
Total stockholders' equity and long-term debt	408,704	363,549
Current liabilities		
Lines of credit	0	20,174
Current portion of long-term debt	2,235	2,003
Accounts payable	9,697	10,929
Accrued expenses	3,519	4,246
Overdraft payable	9	43
Accrued interest	2275	989
Income taxes payable	2	6
Customer and other deposits	2,983	2,489
Other	1,694	3,191
Total current liabilities	22,414	44,070
Commitments and contingencies		
Deferred credits and other liabilities		
Net advances for construction	2,797	3,686
Operating lease liabilities	503	466
Regulatory liabilities	25,676	28,721
Deferred investment tax credits	423	439
Deferred income taxes	58,381	54,552
Total deferred credits and other liabilities	87,780	87,864
Net contributions in aid of construction	247,934	224,308
Total Liabilities and Stockholders' Equity	$766,832	$719,791

NetPlant	714,284	668,031
Advances	2,797	3,686
CIAC	247,934	224,308
DefTax	58,381	54,552
ITC	423	439

Consolidated Balance Sheets - USD ($) $ in Thousands	Dec. 31, 2023	Dec. 31, 2022
Utility plant:		
Land	$47,002	$45,861
Depreciable plant and equipment	4,557,964	4,215,619
Construction work in progress	287,596	247,013
Intangible assets	32,921	27,779
Total utility plant	4,925,483	4,536,272
Less accumulated depreciation and amortization	-1,152,228	-1,063,341
Net utility plant	3,773,255	3,472,931
Current assets:		
Cash and cash equivalents	39,591	62,100
Restricted cash	45,375	22,925
Receivables:		
Customers, net	59,349	55,079
Regulatory balancing accounts	64,240	66,826
Other, net	16,431	20,932
Unbilled revenue, net	36,999	33,140
Materials and supplies at weighted average cost	16,170	12,564
Taxes, prepaid expenses, and other assets	18,130	21,969
Total current assets	296,285	295,535
Other assets:		
Regulatory assets	257,621	283,620
Goodwill	37,039	36,814
Other	231,333	175,913
Total other assets	525,993	496,347
TOTAL ASSETS	4,595,533	4,264,813
Capitalization:		
Common stock, $0.01 par value; 136,000 shares authorized, 57,724 and 55,598 outstanding in 2023 and 2022, respectively	577	556
Additional paid-in capital	876,583	760,336
Retained earnings	549,573	556,698
Noncontrolling interests	3,579	4,804
Total equity	1,430,312	1,322,394
Long-term debt, net	1,052,768	1,052,487
Total capitalization	2,483,080	2,374,881
Current liabilities:		
Current maturities of long-term debt, net	672	3,310
Short-term borrowings	180,000	70,000
Accounts payable	157,305	140,986
Regulatory balancing accounts	21,540	12,240
Accrued other taxes	4,591	8,607
Accrued interest	6,625	6,490
Other accrued liabilities	59,606	53,017
Total current liabilities	430,339	294,650
Deferred income taxes	352,762	330,251
Regulatory Liabilities	683,717	627,740
Pension	82,920	78,443
Advances for construction	199,448	199,832
Contributions in aid of construction	286,491	285,401
Other long-term liabilities	76,776	73,615
Commitments and contingencies (Note 14)		
TOTAL CAPITALIZATION AND LIABILITIES	$4,595,533	$4,264,813

NetPlant	3,773,255	3,472,931
Advances	199,448	199,832
CIAC	286,491	285,401
DefTax	352,762	330,251
ITC	0	0

Consolidated Balance Sheets - USD ($) $ in Thousands	Dec. 31, 2023	Dec. 31, 2022
Assets		
Property, plant and equipment, at cost	$14,977,021	$13,737,387
Less: accumulated depreciation	2,879,949	2,606,441
Net property, plant and equipment	12,097,072	11,130,946
Current assets:		
Cash and cash equivalents	4,612	11,398
Accounts receivable, net	144,300	206,324
Unbilled revenues	101,436	170,504
Inventory - materials and supplies	47,494	46,592
Inventory - gas stored	65,173	153,143
Current assets held for sale		11167
Prepayments and other current assets	99,884	39,759
Regulatory assets	29,080	19,272
Total current assets	491,979	658,159
Regulatory assets	1,766,892	1,342,753
Deferred charges and other assets, net	102,388	166,653
Funds restricted for construction activity	1,381	1,342
Goodwill	2,340,738	2,340,792
Non-current assets held for sale		32124
Operating lease right-of-use assets	37,416	41,734
Intangible assets	3,593	4,604
Total assets	16,841,459	15,719,107
Essential Utilities stockholders' equity:		
Common stock at $0.50 par value, authorized 600,000,000 shares, issued 276,595,228 and 266,973,321 as of December 31, 2023 and December 31, 2022	138,297	133,486
Capital in excess of par value	4,137,696	3,793,262
Retained earnings	1,706,675	1,534,331
Treasury stock, at cost, 3,299,191 and 3,236,237 shares as of December 31, 2023 and December 31, 2022	-86,485	-83,693
Total stockholders' equity	5,896,183	5,377,386
Long-term debt, excluding current portion	6,870,593	6,418,039
Less: debt issuance costs	44,508	46,982
Long-term debt, excluding current portion, net of debt issuance costs	6,826,085	6,371,057
Commitments and contingencies (See Note 9)		
Current liabilities:		
Current portion of long-term debt	67,415	199,356
Loans payable	160,123	228,500
Accounts payable	221,191	238,843
Book overdraft	13,358	28,694
Accrued interest	53,084	47,063
Accrued taxes	40,641	34,393
Liabilities related to assets held for sale		3263
Regulatory liabilities	31,270	35276
Dividends payable	83,929	75808
Other accrued liabilities	126,916	130,673
Total current liabilities	797,927	1,021,869
Deferred credits and other liabilities:		
Deferred income taxes and investment tax credits	1,628,324	1,345,766
Customers' advances for construction	128,755	114,732
Regulatory liabilities	820,910	778,754
Asset retirement obligations	848	843
Operating lease liabilities	34,425	37,666
Non-current liabilities related to assets held for sale		974
Pension and other postretirement benefit liabilities	38,850	31,244
Other	24,086	28,562
Total deferred credits and other liabilities	2,676,198	2,338,541
Contributions in aid of construction	645,066	610,254
Total liabilities and equity	$15,719,107	$14,658,278

NetPlant	12,097,072	11,130,946
Advances	128,755	114,732
CIAC	645,066	610,254
DefTax	1,628,324	1,345,766
ITC	0	0

CONSOLIDATED BALANCE SHEETS - USD ($) $ in Thousands	Dec. 31, 2023	Dec. 31, 2022
Statement of Financial Position [Abstract]		
Water Production	$303,791	$249,153
Transmission and Distribution	809,862	735,138
General	100,593	97,581
Construction Work in Progress	19,636	53,570
TOTAL	1,233,882	1,135,442
Less Accumulated Depreciation	235,540	214,891
UTILITY PLANT - NET	998,342	920,551
Cash and Cash Equivalents	2,390	3,828
Accounts Receivable, net of allowance for uncollectible accounts of $2,137 and $2,326, respectively	18,172	16,018
Litigation Settlement Receivable	69,872	
Unbilled Revenues	9,297	8,659
Materials and Supplies (at average cost)	6,972	6,177
Prepayments	1833	2624
TOTAL CURRENT ASSETS	108,536	37,306
Operating Lease Right of Use Asset	3,185	3,826
Preliminary Survey and Investigation Charges	1,932	2,806
Regulatory Assets	90,694	90,046
Non-utility Assets - Net	11,522	11,207
Employee Benefit Plans	21,779	8689
Other	62	19
TOTAL OTHER ASSETS	129,174	116,593
TOTAL ASSETS	1,236,052	1,074,450
CAPITALIZATION AND LIABILITIES		
Common Stock, No Par Value	246,764	233,054
Retained Earnings	176,227	167,274
TOTAL COMMON EQUITY	422,991	400,328
Preferred Stock	2,084	2,084
Long-term Debt	358,153	290,280
TOTAL CAPITALIZATION	783,228	692,692
Current Portion of Long-term Debt	7,740	17,462
Notes Payable	42,750	55,500
Accounts Payable	27,618	24,847
Litigation Settlement Payable	6,237	
Accrued Taxes	10,535	12,162
Accrued Interest	3,138	2,535
Unearned Revenues and Advanced Service Fees	1,390	1,365
Other	4421	3988
TOTAL CURRENT LIABILITIES	103,829	117,859
COMMITMENTS AND CONTINGENT LIABILITIES (Note 4)		
Customer Advances for Construction	21,313	21,382
Lease Obligations	3,063	3,706
Accumulated Deferred Income Taxes	88,736	77,783
Regulatory Liabilities	113021	46,734
Other	592	919
TOTAL OTHER LIABILITIES	226,725	150,524
CONTRIBUTIONS IN AID OF CONSTRUCTION	122,270	113,375
TOTAL CAPITALIZATION AND LIABILITIES	$1,236,052	$1,074,450

NetPlant	998,342	920,551
Advances	21,313	21,382
CIAC	122,270	113,375
DefTax	88,736	77,783
ITC	0	0

Consolidated Balance Sheets - USD ($) $ in Thousands	Dec. 31, 2023	Dec. 31, 2022
Utility plant:		
Land	$41,415	$39,982
Depreciable plant and equipment	3,967,911	3,661,285
Construction work in progress	106,980	116,851
Intangible assets	35,946	35,959
Total utility plant	4,152,252	3,854,077
Less accumulated depreciation and amortization	981,598	1,223,760
Net utility plant	3,170,654	2,630,317
Nonutility properties and real estate investments	13,350	58,033
Less accumulated depreciation and amortization	194	17,158
Net nonutility properties and real estate investments	13,156	40,875
Current assets:		
Cash and cash equivalents	9,723	12,344
Accounts receivable:		
Customers, net of allowances for uncollectible accounts of $6,551 and $5,753 in 2023 and 2022, respectively	67,870	59,172
Income tax	5187	0
Other	3,684	5,560
Accrued unbilled revenue	49,543	45,722
Assets held for sale	40,850	0
Prepaid expenses	11,110	9,753
Current regulatory assets	4,276	19,740
Other current assets	6146	6095
Total current assets	198,389	158,386
Other assets:		
Regulatory assets, less current portion	235,910	246,035
Investments	16,411	14,819
Postretirement benefit plans	33,794	16,990
Other intangible asset	28,386	0
Goodwill	640,311	640,311
Other	8,056	7,323
Total other assets	962,868	925,478
Total assets	4,345,067	3,755,056
Stockholders' equity:		
Common stock, $0.001 par value; authorized 70,000,000 shares in 2023 and 2022; issued and outstanding 32,023,004 shares i	32	31
Additional paid-in capital	736,191	651,004
Retained earnings	495,383	458,356
Accumulated other comprehensive income	1,791	1,477
Total stockholders' equity	1,233,397	1,110,868
Long-term debt, less current portion	1,526,699	1,491,965
Total capitalization	2,760,096	2,602,833
Current liabilities:		
Lines of credit	171,500	159,578
Current portion of long-term debt	48,975	4,360
Accrued groundwater extraction charges, purchased water and power	24,479	19,707
Accounts payable	46,121	29,581
Accrued interest	15,816	13,907
Accrued payroll	12,229	11,908
Income tax payable	0	2696
Current regulatory liabilities	3,059	3,672
Other current liabilities	20795	22913
Total current liabilities	342,974	268,322
Deferred income taxes	238,528	218,155
Advances for construction	146,582	137,696
Contributions in aid of construction	326,451	323,668
Postretirement benefit plans	46,836	59,738
Regulatory liabilities, less current portion	461,108	118,760
Other noncurrent liabilities	22,492	25,884
Commitments and contingencies		
Total equity and liabilities	$4,345,067	$3,755,056

NetPlant	3,183,810	2,671,192
Advances	146,582	137,696
CIAC	326,451	323,668
DefTax	238,528	218,155
ITC	0	0

Balance Sheets - USD ($) $ in Thousands	Dec. 31, 2023	Dec. 31, 2022
ASSETS		
UTILITY PLANT, at original cost	$620,201	$549,141
Plant acquisition adjustments	-9,384	-9,178
Accumulated depreciation	-117,113	-108,758
Net utility plant	493,704	431,205
OTHER PHYSICAL PROPERTY, net of accumulated depreciation of $501 in 2023 and $463 in 2022	1,569	696
CURRENT ASSETS:		
Cash and cash equivalents	1	1
Accounts receivable, net of reserves of $1,005 in 2023 and $855 in 2022	7,837	6,701
Unbilled revenues	3,484	3,290
Recoverable income taxes	332	882
Materials and supplies inventories, at cost	3,109	2,335
Prepaid expenses	821	1,025
Total current assets	15,584	14,234
OTHER LONG-TERM ASSETS:		
Prepaid pension cost	23,380	17,090
Note receivable	255	255
Deferred regulatory assets	48,949	42,545
Other assets	4,764	4,570
Total other long-term assets	77,348	64,460
Total Assets	588,205	510,595
COMMON STOCKHOLDERS' EQUITY:		
Common stock, no par value, authorized 46,500,000 shares, issued and outstanding 14,332,245 shares in 2023 and 14,285,584 shares in 2022	136,174	134,220
Retained earnings	85,004	72,963
Total common stockholders' equity	221,178	207,183
PREFERRED STOCK, authorized 500,000 shares, no shares issued	0	0
LONG-TERM DEBT	180,007	139,465
COMMITMENTS		
CURRENT LIABILITIES:		
Accounts payable	10873	10,766
Dividends payable	2,754	2,628
Accrued compensation and benefits	1,629	1,541
Accrued interest	1,741	965
Deferred regulatory liabilities	644	593
Other accrued expenses	502	488
Total current liabilities	18,143	16,981
DEFERRED CREDITS:		
Customers' advances for construction	18,853	14,911
Deferred income taxes	55,235	47,901
Deferred employee benefits	3,847	3,725
Deferred regulatory liabilities	42,989	37,448
Other deferred credits	632	680
Total deferred credits	121,556	104,665
Contributions in aid of construction	47,321	42,301
Total Stockholders' Equity and Liabilities	$588,205	$510,595

NetPlant	495,273	431,901
Advances	18,853	14,911
CIAC	47,321	42,301
DefTax	55,235	47,901
ITC	0	0

Commonwealth of Pennsylvania
Department of Environmental Protection
Population Projections Report

County	Municipality	DE	2000	2010	2020	2030	2040
	Greenville (D) B	43803	6,380	5,919	5,519	5,084	4,670
	Hempfield T	43917	4,004	3,741	3,730	3,575	3,502
	West Salem T	43944	3,565	3,538	3,537	3,521	3,513

Geocode	County	Municipality	2010	2020	Change		Munic. Rank
					Numeric	Percent	
	Pennsylvania	Pennsylvania	**12,702,379**	**13,002,700**	**300,321**	**2.4%**	
085	Mercer County	Mercer County	116,638	110,652	-5,986	-5.1%	
08531328	Mercer County	Greenville borough	5919	5540	-379	-6.4%	1,865
08533784	Mercer County	Hempfield township	3741	3735	-6	-0.2%	1,006
08583976	Mercer County	West Salem township	3538	3216	-322	-9.1%	2,124

State-Level Census Counts, 1900 to 2020

State	1900	1910	1920	1980	1990	2000	2010	2020
United States	76,212,168	92,228,496	106,021,537	226,545,805	248,709,873	281,421,906	308,745,538	331,449,281
Alabama	1,828,697	2,138,093	2,348,174	3,893,888	4,040,587	4,447,100	4,779,736	5,024,279
Alaska	63,592	64,356	55,036	401,851	550,043	626,932	710,231	733,391
Arizona	122,931	204,354	334,162	2,718,215	3,665,228	5,130,632	6,392,017	7,151,502
Arkansas	1,311,564	1,574,449	1,752,204	2,286,435	2,350,725	2,673,400	2,915,918	3,011,524
California	1,485,053	2,377,549	3,426,861	23,667,902	29,760,021	33,871,648	37,253,956	39,538,223
Colorado	539,700	799,024	939,629	2,889,964	3,294,394	4,301,261	5,029,196	5,773,714
Connecticut	908,420	1,114,756	1,380,631	3,107,576	3,287,116	3,405,565	3,574,097	3,605,944
Delaware	184,735	202,322	223,003	594,338	666,168	783,600	897,934	989,948
District of Columbia	278,718	331,069	437,571	638,333	606,900	572,059	601,723	689,545
Florida	528,542	752,619	968,470	9,746,324	12,937,926	15,982,378	18,801,310	21,538,187
Georgia	2,216,331	2,609,121	2,895,832	5,463,105	6,478,216	8,186,453	9,687,653	10,711,908
Hawaii	154,001	191,874	255,881	964,691	1,108,229	1,211,537	1,360,301	1,455,271
Idaho	161,772	325,594	431,866	943,935	1,006,749	1,293,953	1,567,582	1,839,106
Illinois	4,821,550	5,638,591	6,485,280	11,426,518	11,430,602	12,419,293	12,830,632	12,812,508
Indiana	2,516,462	2,700,876	2,930,390	5,490,224	5,544,159	6,080,485	6,483,802	6,785,528
Iowa	2,231,853	2,224,771	2,404,021	2,913,808	2,776,755	2,926,324	3,046,355	3,190,369
Kansas	1,470,495	1,690,949	1,769,257	2,363,679	2,477,574	2,688,418	2,853,118	2,937,880
Kentucky	2,147,174	2,289,905	2,416,630	3,660,777	3,685,296	4,041,769	4,339,367	4,505,836
Louisiana	1,381,625	1,656,388	1,798,509	4,205,900	4,219,973	4,468,976	4,533,372	4,657,757
Maine	694,466	742,371	768,014	1,124,660	1,227,928	1,274,923	1,328,361	1,362,359
Maryland	1,188,044	1,295,346	1,449,661	4,216,975	4,781,468	5,296,486	5,773,552	6,177,224
Massachusetts	2,805,346	3,366,416	3,852,356	5,737,037	6,016,425	6,349,097	6,547,629	7,029,917
Michigan	2,420,982	2,810,173	3,668,412	9,262,078	9,295,297	9,938,444	9,883,640	10,077,331
Minnesota	1,751,394	2,075,708	2,387,125	4,075,970	4,375,099	4,919,479	5,303,925	5,706,494
Mississippi	1,551,270	1,797,114	1,790,618	2,520,638	2,573,216	2,844,658	2,967,297	2,961,279
Missouri	3,106,665	3,293,335	3,404,055	4,916,686	5,117,073	5,595,211	5,988,927	6,154,913
Montana	243,329	376,053	548,889	786,690	799,065	902,195	989,415	1,084,225
Nebraska	1,066,300	1,192,214	1,296,372	1,569,825	1,578,385	1,711,263	1,826,341	1,961,504
Nevada	42,335	81,875	77,407	800,493	1,201,833	1,998,257	2,700,551	3,104,614
New Hampshire	411,588	430,572	443,083	920,610	1,109,252	1,235,786	1,316,470	1,377,529
New Jersey	1,883,669	2,537,167	3,155,900	7,364,823	7,730,188	8,414,350	8,791,894	9,288,994
New Mexico	195,310	327,301	360,350	1,302,894	1,515,069	1,819,046	2,059,179	2,117,522
New York	7,268,894	9,113,614	10,385,227	17,558,072	17,990,455	18,976,457	19,378,102	20,201,249
North Carolina	1,893,810	2,206,287	2,559,123	5,881,766	6,628,637	8,049,313	9,535,483	10,439,388
North Dakota	319,146	577,056	646,872	652,717	638,800	642,200	672,591	779,094
Ohio	4,157,545	4,767,121	5,759,394	10,797,630	10,847,115	11,353,140	11,536,504	11,799,448
Oklahoma	790,391	1,657,155	2,028,283	3,025,290	3,145,585	3,450,654	3,751,351	3,959,353
Oregon	413,536	672,765	783,389	2,633,105	2,842,321	3,421,399	3,831,074	4,237,256
Pennsylvania	6,302,115	7,665,111	8,720,017	11,863,895	11,881,643	12,281,054	12,702,379	13,002,700
Rhode Island	428,556	542,610	604,397	947,154	1,003,464	1,048,319	1,052,567	1,097,379
South Carolina	1,340,316	1,515,400	1,683,724	3,121,820	3,486,703	4,012,012	4,625,364	5,118,425
South Dakota	401,570	583,888	636,547	690,768	696,004	754,844	814,180	886,667
Tennessee	2,020,616	2,184,789	2,337,885	4,591,120	4,877,185	5,689,283	6,346,105	6,910,840
Texas	3,048,710	3,896,542	4,663,228	14,229,191	16,986,510	20,851,820	25,145,561	29,145,505
Utah	276,749	373,351	449,396	1,461,037	1,722,850	2,233,169	2,763,885	3,271,616
Vermont	343,641	355,956	352,428	511,456	562,758	608,827	625,741	643,077
Virginia	1,854,184	2,061,612	2,309,187	5,346,818	6,187,358	7,078,515	8,001,024	8,631,393
Washington	518,103	1,141,990	1,356,621	4,132,156	4,866,692	5,894,121	6,724,540	7,705,281
West Virginia	958,800	1,221,119	1,463,701	1,949,644	1,793,477	1,808,344	1,852,994	1,793,716
Wisconsin	2,069,042	2,333,860	2,632,067	4,705,767	4,891,769	5,363,675	5,686,986	5,893,718
Wyoming	92,531	145,965	194,402	469,557	453,588	493,782	563,626	576,851

Source: STATS Indiana, using U.S. Census Bureau data

	WORKING NOTES										WORKING NOTES	
	2019	2020	2021	2022	2023	2024	**2025**	**2026**	2027	2028	2029	2030
GROSS Property, plant and equipment	-	-	-		27,382,498	27,382,498	27,706,395	28,034,123	28,365,728	28,701,254	29,040,750	29,384,261
Accumulated Depreciation	-	-	-		7,013,534	7,013,534	7,347,101	7,684,613	8,026,119	8,371,664	8,721,296	9,075,062
NET PPE	-	-	-		20,368,964	20,368,964	20,359,294	20,349,510	20,339,609	20,329,590	20,319,454	20,309,199
TER Total Debt	-	-	-	-	-	*6,713,192*						
Net Equity	-	-	-	-	-	*14,110,326*						
Investor Provided Capital	-	-	-	-	-	20,823,518	-					
Depreciation / GROSS PPE	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	0.00%	1.42%						
										0	0	
				Muni CAPX	**0**	**323,951**	**0**	**0**	**0**	**0**	**0**	**0**
			IOU savings	**0%**			100%	100%	100%	100%	100%	100%
				CAPX/Prior Yr. GROSS PPE			1.39%	1.39%	1.39%	1.39%	1.39%	1.39%
				CAPX	**2,959,807**	**323,951**	**381,055**	**385,562**	**390,123**	**394,737**	399,407	404,131
				Dep rate	0.00%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%
				Half yr. Dep	0.00%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%
				Dep on CAPX	-	2,300	2,705	2,737	2,770	2,803	2,836	2,869
				Rate of retirement	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
				Retired property	443,971	48,593	57,158	57,834	58,518	59,211	59,911	60,620
				Dep on Retired property	-	690	812	821	831	841	851	861
				Dep on Prior yr. GROSS	393,673	361,512	388,831	393,431	398,085	402,793	407,558	412,379
				Total Dep	393,673	-	390,725	395,347	400,024	404,756	409,543	414,387
GreenWATER												
Depreciation Expense	**-**	**347,516**	**369,597**	**393,673**	**361,512**							
				part of OCN								
				NET PPE			PURTA	0.001527765				
				Rev			Reg Assessment Fee	0.005652534				
					2023	2024	1 2025	2 2026	3 2027	4 2028	5 2029	6 2030
GreenWATER												
	FIX CIP			**CIP**	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
					part of OCN	= to DepX						
					2,959,807	323,951						
									191	71	72	56
					2023	**2024**						
						-	-	-	-	-	-	-
Sewer Rental Charges	0	1,937,648	1,948,448	2,111,110	2,184,059	2,181,171	2,225,247	1,529,960	1,529,960	1,529,960		
EDUs	0	0	0	0	3,326	3,326	3326	3326	3326	3326	3326	3326
					0	0	0	0	0	0	0	0
		0	0	0	1663	3326	3326	3326	3326	3326		
	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	656.6623572							
						$ 460.00	$ 460.00	$ 460.00	$ 460.00	$ 460.00		
		#DIV/0!	#DIV/0!	#DIV/0!	1313.324714	655.7940469						
GreenWATER					C	2,951	0					
					E	3,326	0					
						0.89						
				1742000								
		Customer Growth				**0**	**0**	**0**	**0**	**0**	0.00%	0.00%
		Delivered to Customer	-	20.33	20	20	20	20	20	20	20	20
GreenWATER		Customers	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951
		Total Revenue (Less TAP)	1,948,448	2,111,110	2,184,059	2,181,171	2,225,247	2,225,247	2,670,296	2,670,296	2,670,296	2,777,108
										100.00%		
		avg CUST rev	660.27	715.39	740.11	739.13	754.07	754.07	904.88	904.88	904.88	941.07
		avg CUST flow	-	0	0	0	0	0	0	0	0	0

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	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
GROSS Property, plant and equipment	29,731,835	30,083,521	30,439,367	30,799,422	31,163,736	31,532,360	31,905,343	32,282,739	32,664,599	33,050,976	33,441,922	33,837,493	34,237,744	34,642,728
Accumulated Depreciation	9,433,014	9,795,201	10,161,671	10,532,477	10,907,668	11,287,297	11,671,417	12,060,080	12,453,341	12,851,253	13,253,872	13,661,253	14,073,454	14,490,530
NET PPE	20,298,821	20,288,320	20,277,696	20,266,945	20,256,068	20,245,063	20,233,926	20,222,659	20,211,258	20,199,723	20,188,050	20,176,240	20,164,290	20,152,198
TER Total Debt														
Net Equity														
Investor Provided Capital														
Depreciation / GROSS PPE														
	0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%
	408,911	413,748	418,642	423,594	428,605	433,675	438,804	443,995	449,247	454,561	459,937	465,378	470,883	476,452
	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%
	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%
	2,903	2,938	2,972	3,008	3,043	3,079	3,116	3,152	3,190	3,227	3,266	3,304	3,343	3,383
	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
	61,337	62,062	62,796	63,539	64,291	65,051	65,821	66,599	67,387	68,184	68,991	69,807	70,632	71,468
	871	881	892	902	913	924	935	946	957	968	980	991	1,003	1,015
	417,257	422,192	427,186	432,239	437,352	442,525	447,760	453,056	458,415	463,837	469,324	474,875	480,492	486,176
	419,289	424,249	429,266	434,345	439,482	444,680	449,941	455,262	460,648	466,096	471,610	477,188	482,832	488,544
GreenWATER														
Depreciation Expense														

	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sewer Rental Charges														
EDUs	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GreenWATER														
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	20	20	20	20	20	20	20	20	20	20	20	20	20	20
GreenWATER	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951
	2,777,108	2,777,108	2,888,193	2,888,193	2,888,193	3,003,720	3,003,720	3,003,720	3,123,869	3,123,869	3,186,346	3,186,346	3,294,682	3,294,682
	100.00%													
	941.07	941.07	978.72	978.72	978.72	1,017.87	1,017.87	1,017.87	1,058.58	1,058.58	1,079.75	1,079.75	1,116.46	1,116.46
	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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WORKING NOTES												WORKING NOTES
	2019	2020	2021	2022	2023	2024	**2025**	**2026**	2027	2028	2029	2030
		avg EDU rev	#DIV/0!	#DIV/0!	656.66	655.79	669.05	669.05	802.86	802.86	802.86	834.97
		avg EDU flow	#DIV/0!	#DIV/0!	0	0	0	0	0	0	0	0
		Rev Calculated				2,184,059	2,181,171	2,225,247	2,225,247	2,670,296	2,670,296	2,670,296

						2024	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
						Change		20.0%			4.0%	
					$ 740.11	$ 739.13	$ 754.07	$ 904.88	$ 904.88	$ 904.88	$ 941.07	$ 941.07
								$ 150.81	**$ -**	**$ -**	**$ 36.20**	**$ -**
						-	-	-	2,670,296	-	-	-
						2,184,059	2,181,171	2,225,247	2,670,296	2,670,296	2,670,296	2,777,108
						-	-	445,049	-	-	106,812	-
Prior yr												
NET PURTA			0.1432%				29,168	29,155	29,140	29,126	29,112	29,097
REV Reg Assessment			0.5690%				12,638	12,896	15,428	15,428	15,428	16,036
							41,806	42,051	44,568	44,554	44,540	45,133

Greenville Municipal Water Authority	
Investor Provide	20,823,518
Gross PP&E	27,382,498
Net PP&E	20,368,964
Revenues	2,221,171
EBITDA	626,835
EBIT	237,960
Customers	2,951
Population	7,256

	2019	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**			
GreenWATER										
LESS: EOS - Wages & Benefits	0	-	-	-	-	942,821	927,650		0.15	LESS: EOS - Wages Wages & Benefits
LESS: EOS - Professional Services	0	0	0	0	-	223,321	205,301		0.5	LESS: EOS - Profes Net Professional Serv
LESS: EOS - Eliminated Expenses	0	0	0	0	-	-	-			LESS: EOS - Elir Line Rentals
GreenWATER										
Wages			0	0	0	942,821	927,650			
Professional Services					0	223,321	205,301			
Eliminated Exp			0	0	0	0				

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	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
	834.97	834.97	868.37	868.37	868.37	903.10	903.10	903.10	939.23	939.23	958.01	958.01	990.58	990.58
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2,777,108	2,777,108	2,777,108	2,888,193	2,888,193	2,888,193	3,003,720	3,003,720	3,003,720	3,123,869	3,123,869	3,186,346	3,186,346	3,294,682

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
		4.0%			4.0%			4.0%		2.0%		3.4%		3.4%
	$ 941.07	$ 978.72	$ 978.72	$ 978.72	$ 1,017.87	$ 1,017.87	$ 1,017.87	$ 1,058.58	$ 1,058.58	$ 1,079.75	$ 1,079.75	$ 1,116.46	$ 1,116.46	$ 1,154.42
	$ -	$ 37.64	$ -	$ -	$ 39.15	$ -	$ -	$ 40.71	$ -	$ 21.17	$ -	$ 36.71	$ -	$ 37.96
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2,777,108	2,777,108	2,888,193	2,888,193	2,888,193	3,003,720	3,003,720	3,003,720	3,123,869	3,123,869	3,186,346	3,186,346	3,294,682	3,294,682
	-	111,084	-	-	115,528	-	-	120,149	-	62,477	-	108,336	-	112,019
												4.22%		4.26%
	29,083	29,068	29,053	29,038	29,022	29,007	28,991	28,975	28,959	28,943	28,926	28,909	28,892	28,875
	16,036	16,036	16,668	16,668	16,668	17,326	17,326	17,326	18,009	18,009	18,365	18,365	18,981	18,981
	45,119	45,104	45,721	45,706	45,690	46,333	46,317	46,301	46,968	46,952	47,291	47,274	47,873	47,856

GreenWATER

LESS: EOS - Wages & Benefits		15% savings	15%	0.15
LESS: EOS - Professional Services	ices	50% savings	50%	0.5
LESS: EOS - Eliminated Expenses		10% savings	100%	1

GreenWATER

Wages

Professional Services

Eliminated Exp

WORKING NOTES												WORKING NOTES	
	2019	2020	2021	2022	2023	2024	**2025**	**2026**	2027	2028	2029	2030	
GreenWATER						included in OCN	= to DepX						
Reported CAPX - from the financials	0	651,253	329,699	2,740,347	2,959,807	**323,951**							

	2019	**2020**	**2021**	**2022**	**2023**			Assets	Per Books	Difference		2023
												2024
GROSS Property, plant and equipment	-	-	-	-	27,382,498			**27,382,498**	-			2025
Accumulated Depreciation	-	-	-	-	7,013,534			**7,013,534**	-			2026
NET PPE	-	-	-	-	20,368,964			**20,368,964**	-	20,368,964		2027
												2028
Total Debt	-	-	-	-	6,713,192			**388,875**				2029
Net Equity	-	-	-	-	14,110,326							2030
Investor Provided Capital	-	-	-	-	20,823,518							2031
Depreciation Rate	0.00%	0.00%	0.00%	0.00%	1.42%							
Depreciation Expense	-	347,516	369,597	393,673	361,512	388,875.00	OCNLD Study					

	2024	2025	2026	2027	2028	
CAPX	0	100,000	0	0	0	25,000

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	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
GreenWATER														
Reported CAPX - from the financials														
										1.500%		3.250%		3.370%
	0.0899	28.10%								1.35%				
	0.0849	27.71%								2.850%				
GROSS Property, plant and equipment	0.0799	27.31%						39						
Accumulated Depreciation	0.0749	26.92%						41						
NET PPE	0.0699	26.52%						42						
	0.0649	26.13%						40.66666667						
Total Debt	0.0599	25.73%						13.55555556						
Net Equity	0.0549	25.34%												
Investor Provided Capital	0.0499	24.94%												
Depreciation Rate														
Depreciation Expense														
CAPX														

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	WORKING NOTES										WORKING NOTES	
	2019	2020	2021	2022	2023	2024	**2025**	**2026**	2027	2028	2029	2030
GROSS Property, plant and equipment	-	-	-		27,382,498	27,382,498	27,706,395	28,034,123	28,365,728	28,701,254	29,040,750	29,384,261
Accumulated Depreciation	-	-	-		7,013,534	7,013,534	7,347,101	7,684,613	8,026,119	8,371,664	8,721,296	9,075,062
NET PPE	-	-	-		20,368,964	20,368,964	20,359,294	20,349,510	20,339,609	20,329,590	20,319,454	20,309,199
TER Total Debt	-	-	-	-	-	*6,713,192*						
Net Equity	-	-	-	-	-	*14,110,326*						
Investor Provided Capital	-	-	-	-	-	20,823,518	-					
Depreciation / GROSS PPE	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	0.00%	1.42%						
										0	0	
				Muni CAPX	**0**	**323,951**	**0**	**0**	**0**	**0**	**0**	**0**
			IOU savings	**0%**			100%	100%	100%	100%	100%	100%
				CAPX/Prior Yr. GROSS PPE			1.39%	1.39%	1.39%	1.39%	1.39%	1.39%
				CAPX	**2,959,807**	**323,951**	**381,055**	**385,562**	**390,123**	**394,737**	399,407	404,131
				Dep rate	0.00%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%
				Half yr. Dep	0.00%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%
				Dep on CAPX	-	2,300	2,705	2,737	2,770	2,803	2,836	2,869
				Rate of retirement	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
				Retired property	443,971	48,593	57,158	57,834	58,518	59,211	59,911	60,620
				Dep on Retired property	-	690	812	821	831	841	851	861
				Dep on Prior yr. GROSS	393,673	361,512	388,831	393,431	398,085	402,793	407,558	412,379
				Total Dep	393,673	-	390,725	395,347	400,024	404,756	409,543	414,387
GreenWATER												
Depreciation Expense	**-**	**347,516**	**369,597**	**393,673**	**361,512**							
				part of OCN								
				NET PPE			PURTA	0.001527765				
				Rev			Reg Assessment Fee	0.005652534				
					2023	2024	1 2025	2 2026	3 2027	4 2028	5 2029	6 2030
	GreenWATER											
	FIX CIP			**CIP**	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
					part of OCN	= to DepX						
					2,959,807	323,951						
									191	71	72	56
					2023	**2024**						
						-	-	-	-	-	-	-
Sewer Rental Charges	0	1,937,648	1,948,448	2,111,110	2,184,059	2,181,171	2,225,247	1,529,960	1,529,960	1,529,960		
EDUs	0	0	0	0	3,326	3,326	3326	3326	3326	3326	3326	3326
					0	0	0	0	0	0	0	0
		0	0	0	1663	3326	3326	3326	3326	3326		
	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	656.6623572							
						$ 460.00	$ 460.00	$ 460.00	$ 460.00	$ 460.00		
		#DIV/0!	#DIV/0!	#DIV/0!	1313.324714	655.7940469						
GreenWATER					C	2,951	0					
					E	3,326	0					
						0.89						
				1742000								
		Customer Growth				**0**	**0**	**0**	**0**	**0**	0.00%	0.00%
		Delivered to Customer	-	20.33	20	20	20	20	20	20	20	20
GreenWATER		Customers	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951
		Total Revenue (Less TAP)	1,948,448	2,111,110	2,184,059	2,181,171	2,225,247	2,225,247	2,670,296	2,670,296	2,670,296	2,777,108
										100.00%		
		avg CUST rev	660.27	715.39	740.11	739.13	754.07	754.07	904.88	904.88	904.88	941.07
		avg CUST flow	-	0	0	0	0	0	0	0	0	0

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	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
GROSS Property, plant and equipment	29,731,835	30,083,521	30,439,367	30,799,422	31,163,736	31,532,360	31,905,343	32,282,739	32,664,599	33,050,976	33,441,922	33,837,493	34,237,744	34,642,728
Accumulated Depreciation	9,433,014	9,795,201	10,161,671	10,532,477	10,907,668	11,287,297	11,671,417	12,060,080	12,453,341	12,851,253	13,253,872	13,661,253	14,073,454	14,490,530
NET PPE	20,298,821	20,288,320	20,277,696	20,266,945	20,256,068	20,245,063	20,233,926	20,222,659	20,211,258	20,199,723	20,188,050	20,176,240	20,164,290	20,152,198
TER Total Debt														
Net Equity														
Investor Provided Capital														
Depreciation / GROSS PPE														
	0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%
	408,911	413,748	418,642	423,594	428,605	433,675	438,804	443,995	449,247	454,561	459,937	465,378	470,883	476,452
	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%
	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%
	2,903	2,938	2,972	3,008	3,043	3,079	3,116	3,152	3,190	3,227	3,266	3,304	3,343	3,383
	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
	61,337	62,062	62,796	63,539	64,291	65,051	65,821	66,599	67,387	68,184	68,991	69,807	70,632	71,468
	871	881	892	902	913	924	935	946	957	968	980	991	1,003	1,015
	417,257	422,192	427,186	432,239	437,352	442,525	447,760	453,056	458,415	463,837	469,324	474,875	480,492	486,176
	419,289	424,249	429,266	434,345	439,482	444,680	449,941	455,262	460,648	466,096	471,610	477,188	482,832	488,544
GreenWATER														
Depreciation Expense														

	7 2031	8 2032	9 2033	10 2034	11 2035	12 2036	13 2037	14 2038	15 2039	16 2040	17 2041	18 2042	19 2043	20 2044
	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sewer Rental Charges														
EDUs	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GreenWATER														
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	20	20	20	20	20	20	20	20	20	20	20	20	20	20
GreenWATER	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951
	2,777,108	2,777,108	2,888,193	2,888,193	2,888,193	3,003,720	3,003,720	3,003,720	3,123,869	3,123,869	3,186,346	3,186,346	3,294,682	3,294,682
	100.00%													
	941.07	941.07	978.72	978.72	978.72	1,017.87	1,017.87	1,017.87	1,058.58	1,058.58	1,079.75	1,079.75	1,116.46	1,116.46
	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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WORKING NOTES												WORKING NOTES
	2019	2020	2021	2022	2023	2024	**2025**	**2026**	2027	2028	2029	2030
		avg EDU rev	#DIV/0!	#DIV/0!	656.66	655.79	669.05	669.05	802.86	802.86	802.86	834.97
		avg EDU flow	#DIV/0!	#DIV/0!	0	0	0	0	0	0	0	0
		Rev Calculated				2,184,059	2,181,171	2,225,247	2,225,247	2,670,296	2,670,296	2,670,296

						2024	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
						Change		20.0%			4.0%	
					$ 740.11	$ 739.13	$ 754.07	$ 904.88	$ 904.88	$ 904.88	$ 941.07	$ 941.07
								$ 150.81	**$ -**	**$ -**	**$ 36.20**	**$ -**
						-	-	-	2,670,296	-	-	-
						2,184,059	2,181,171	2,225,247	2,670,296	2,670,296	2,670,296	2,777,108
						-	-	445,049	-	-	106,812	-

Prior yr												
NET PURTA		0.1432%					29,168	29,155	29,140	29,126	29,112	29,097
REV Reg Assessment		0.5690%					12,638	12,896	15,428	15,428	15,428	16,036
							41,806	42,051	44,568	44,554	44,540	45,133

Greenville Municipal Water Authority	
Investor Provide	20,823,518
Gross PP&E	27,382,498
Net PP&E	20,368,964
Revenues	2,221,171
EBITDA	879,919
EBIT	491,044
Customers	2,951
Population	7,256

	2019	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**			
GreenWATER										
LESS: EOS - Wages & Benefits	0	-	-	-	-	942,821	927,650		0.15	LESS: EOS - Wages Wages & Benefits
LESS: EOS - Professional Services	0	0	0	0	-	223,321	205,301		0.5	LESS: EOS - Profes Net Professional Serv
LESS: EOS - Eliminated Expenses	0	0	0	0	-	-	-			LESS: EOS - Elir Line Rentals
GreenWATER										
Wages			0	0	0	942,821	927,650			
Professional Services					0	223,321	205,301			
Eliminated Exp			0	0	0	0				

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
	834.97	834.97	868.37	868.37	868.37	903.10	903.10	903.10	939.23	939.23	958.01	958.01	990.58	990.58
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2,777,108	2,777,108	2,777,108	2,888,193	2,888,193	2,888,193	3,003,720	3,003,720	3,003,720	3,123,869	3,123,869	3,186,346	3,186,346	3,294,682

	2031	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**
		4.0%			4.0%			4.0%		2.0%		3.4%		3.4%
	$ 941.07	$ 978.72	$ 978.72	$ 978.72	$ 1,017.87	$ 1,017.87	$ 1,017.87	$ 1,058.58	$ 1,058.58	$ 1,079.75	$ 1,079.75	$ 1,116.46	$ 1,116.46	$ 1,154.42
	$ -	**$ 37.64**	**$ -**	**$ -**	**$ 39.15**	**$ -**	**$ -**	**$ 40.71**	**$ -**	**$ 21.17**	**$ -**	**$ 36.71**	**$ -**	**$ 37.96**
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2,777,108	2,777,108	2,888,193	2,888,193	2,888,193	3,003,720	3,003,720	3,003,720	3,123,869	3,123,869	3,186,346	3,186,346	3,294,682	3,294,682
	-	111,084	-	-	115,528	-	-	120,149	-	62,477	-	108,336	-	112,019
												3.66%		3.70%
	29,083	29,068	29,053	29,038	29,022	29,007	28,991	28,975	28,959	28,943	28,926	28,909	28,892	28,875
	16,036	16,036	16,668	16,668	16,668	17,326	17,326	17,326	18,009	18,009	18,365	18,365	18,981	18,981
	45,119	45,104	45,721	45,706	45,690	46,333	46,317	46,301	46,968	46,952	47,291	47,274	47,873	47,856

GreenWATER

LESS: EOS - Wages & Benefits		15% savings	15%	0.15
LESS: EOS - Professional Services	ices	50% savings	50%	0.5
LESS: EOS - Eliminated Expenses		10% savings	100%	1

GreenWATER

Wages

Professional Services

Eliminated Exp

WORKING NOTES												WORKING NOTES
	2019	2020	2021	2022	2023	2024	**2025**	**2026**	2027	2028	2029	2030
GreenWATER					included in OCN	= to DepX						
Reported CAPX - from the financials	0	651,253	329,699	2,740,347	2,959,807	**323,951**						

	2019	**2020**	**2021**	**2022**	**2023**			Assets	Per Books	Difference	
GROSS Property, plant and equipment	-	-	-	-	27,382,498			**27,382,498**	-		2023
Accumulated Depreciation	-	-	-	-	7,013,534			**7,013,534**	-		2024
NET PPE	-	-	-	-	20,368,964			**20,368,964**	-	20,368,964	2025
											2026
Total Debt	-	-	-	-	6,713,192			**388,875**			2027
Net Equity	-	-	-	-	14,110,326						2028
Investor Provided Capital	-	-	-	-	20,823,518						2029
											2030
Depreciation Rate	0.00%	0.00%	0.00%	0.00%	1.42%						2031
Depreciation Expense	-	347,516	369,597	393,673	361,512	388,875.00	OCNLD Study				

	2024	2025	2026	2027	2028	
CAPX	0	100,000	0	0	0	25,000

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	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
GreenWATER														
Reported CAPX - from the financials														
										1.500%		3.250%		3.370%
	0.0899	28.10%								1.35%				
	0.0849	27.71%								2.850%				
GROSS Property, plant and equipment	0.0799	27.31%						39						
Accumulated Depreciation	0.0749	26.92%						41						
NET PPE	0.0699	26.52%						42						
	0.0649	26.13%						40.66666667						
Total Debt	0.0599	25.73%						13.55555556						
Net Equity	0.0549	25.34%												
Investor Provided Capital	0.0499	24.94%												
Depreciation Rate														
Depreciation Expense														
CAPX														

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	WORKING NOTES										WORKING NOTES	
	2019	2020	2021	2022	2023	2024	**2025**	**2026**	2027	2028	2029	2030
GROSS Property, plant and equipment	-	-	-		27,382,498	27,382,498	27,706,395	28,034,123	28,365,728	28,701,254	29,040,750	29,384,261
Accumulated Depreciation	-	-	-		7,013,534	7,013,534	7,347,101	7,684,613	8,026,119	8,371,664	8,721,296	9,075,062
NET PPE	-	-	-		20,368,964	20,368,964	20,359,294	20,349,510	20,339,609	20,329,590	20,319,454	20,309,199
TER Total Debt	-	-	-	-	-	*6,713,192*						
Net Equity	-	-	-	-	-	*14,110,326*						
Investor Provided Capital	-	-	-	-	-	20,823,518	-					
Depreciation / GROSS PPE	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	0.00%	1.42%						
										0	0	
				Muni CAPX	**0**	**323,951**	**0**	**0**	**0**	**0**	**0**	**0**
			IOU savings	**0%**			100%	100%	100%	100%	100%	100%
				CAPX/Prior Yr. GROSS PPE			1.39%	1.39%	1.39%	1.39%	1.39%	1.39%
				CAPX	**2,959,807**	**323,951**	**381,055**	**385,562**	**390,123**	**394,737**	399,407	404,131
				Dep rate	0.00%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%
				Half yr. Dep	0.00%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%
				Dep on CAPX	-	2,300	2,705	2,737	2,770	2,803	2,836	2,869
				Rate of retirement	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
				Retired property	443,971	48,593	57,158	57,834	58,518	59,211	59,911	60,620
				Dep on Retired property	-	690	812	821	831	841	851	861
				Dep on Prior yr. GROSS	393,673	361,512	388,831	393,431	398,085	402,793	407,558	412,379
				Total Dep	393,673	-	390,725	395,347	400,024	404,756	409,543	414,387
GreenWATER												
Depreciation Expense	**-**	**347,516**	**369,597**	**393,673**	**361,512**							
				part of OCN								
				NET PPE			PURTA	0.001527765				
				Rev			Reg Assessment Fee	0.005652534				
					2023	2024	1 2025	2 2026	3 2027	4 2028	5 2029	6 2030
	GreenWATER											
	FIX CIP			**CIP**	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
					part of OCN	= to DepX						
					2,959,807	323,951						
									191	71	72	56
					2023	**2024**						
						-	-	-	-	-	-	-
Sewer Rental Charges	0	1,937,648	1,948,448	2,111,110	2,184,059	2,181,171	2,225,247	1,529,960	1,529,960	1,529,960		
EDUs	0	0	0	0	3,326	3,326	3326	3326	3326	3326	3326	3326
					0	0	0	0	0	0	0	0
		0	0	0	1663	3326	3326	3326	3326	3326		
	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	656.6623572							
						$ 460.00	$ 460.00	$ 460.00	$ 460.00	$ 460.00		
		#DIV/0!	#DIV/0!	#DIV/0!	1313.324714	655.7940469						
GreenWATER					C	2,951	0					
					E	3,326	0					
						0.89						
				1742000								
		Customer Growth				**0**	**0**	**0**	**0**	**0**	0.00%	0.00%
		Delivered to Customer	-	20.33	20	20	20	20	20	20	20	20
GreenWATER		Customers	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951
		Total Revenue (Less TAP)	1,948,448	2,111,110	2,184,059	2,181,171	2,225,247	2,225,247	3,560,395	3,560,395	3,560,395	3,916,435
										100.00%		
		avg CUST rev	660.27	715.39	740.11	739.13	754.07	754.07	1,206.50	1,206.50	1,206.50	1,327.16
		avg CUST flow	-	0	0	0	0	0	0	0	0	0

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	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
GROSS Property, plant and equipment	29,731,835	30,083,521	30,439,367	30,799,422	31,163,736	31,532,360	31,905,343	32,282,739	32,664,599	33,050,976	33,441,922	33,837,493	34,237,744	34,642,728
Accumulated Depreciation	9,433,014	9,795,201	10,161,671	10,532,477	10,907,668	11,287,297	11,671,417	12,060,080	12,453,341	12,851,253	13,253,872	13,661,253	14,073,454	14,490,530
NET PPE	20,298,821	20,288,320	20,277,696	20,266,945	20,256,068	20,245,063	20,233,926	20,222,659	20,211,258	20,199,723	20,188,050	20,176,240	20,164,290	20,152,198
TER Total Debt														
Net Equity														
Investor Provided Capital														
Depreciation / GROSS PPE														
	0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%
	408,911	413,748	418,642	423,594	428,605	433,675	438,804	443,995	449,247	454,561	459,937	465,378	470,883	476,452
	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%	1.42%
	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%
	2,903	2,938	2,972	3,008	3,043	3,079	3,116	3,152	3,190	3,227	3,266	3,304	3,343	3,383
	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
	61,337	62,062	62,796	63,539	64,291	65,051	65,821	66,599	67,387	68,184	68,991	69,807	70,632	71,468
	871	881	892	902	913	924	935	946	957	968	980	991	1,003	1,015
	417,257	422,192	427,186	432,239	437,352	442,525	447,760	453,056	458,415	463,837	469,324	474,875	480,492	486,176
	419,289	424,249	429,266	434,345	439,482	444,680	449,941	455,262	460,648	466,096	471,610	477,188	482,832	488,544
GreenWATER														
Depreciation Expense														

	7 2031	8 2032	9 2033	10 2034	11 2035	12 2036	13 2037	14 2038	15 2039	16 2040	17 2041	18 2042	19 2043	20 2044
	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sewer Rental Charges														
EDUs	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GreenWATER														
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	20	20	20	20	20	20	20	20	20	20	20	20	20	20
GreenWATER	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951
	3,916,435	3,916,435	4,308,078	4,308,078	4,308,078	4,652,724	4,652,724	4,652,724	4,815,570	4,815,570	4,931,143	4,931,143	5,049,491	5,049,491
	100.00%													
	1,327.16	1,327.16	1,459.87	1,459.87	1,459.87	1,576.66	1,576.66	1,576.66	1,631.84	1,631.84	1,671.01	1,671.01	1,711.11	1,711.11
	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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WORKING NOTES												WORKING NOTES
	2019	2020	2021	2022	2023	2024	**2025**	**2026**	2027	2028	2029	2030
		avg EDU rev	#DIV/0!	#DIV/0!	656.66	655.79	669.05	669.05	1,070.47	1,070.47	1,070.47	1,177.52
		avg EDU flow	#DIV/0!	#DIV/0!	0	0	0	0	0	0	0	0
		Rev Calculated				2,184,059	2,181,171	2,225,247	2,225,247	3,560,395	3,560,395	3,560,395

						2024	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
						Change		60.0%			10.0%	
					$ 740.11	$ 739.13	$ 754.07	$ 1,206.50	$ 1,206.50	$ 1,206.50	$ 1,327.16	$ 1,327.16
								$ 452.44	**$ -**	**$ -**	**$ 120.65**	**$ -**
						-	-	-	3,560,395	-	-	-
						2,184,059	2,181,171	2,225,247	3,560,395	3,560,395	3,560,395	3,916,435
						-	-	1,335,148	-	-	356,040	-

Prior yr									
NET PURTA	0.1432%				29,168	29,155	29,140	29,126	29,112	29,097
REV Reg Assessment	0.5690%				12,638	12,896	20,493	20,493	20,493	22,519
					41,806	42,051	49,633	49,619	49,605	51,616

Greenville Municipal Water Authority	
Investor Provide	20,823,518
Gross PP&E	27,382,498
Net PP&E	20,368,964
Revenues	2,221,171
EBITDA	879,919
EBIT	491,044
Customers	2,951
Population	7,256

	2019	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**			
GreenWATER										
LESS: EOS - Wages & Benefits	0	-	-	-	-	942,821	927,650		0.15	LESS: EOS - Wages Wages & Benefits
LESS: EOS - Professional Services	0	0	0	0	-	223,321	205,301		0.5	LESS: EOS - Profes Net Professional Serv
LESS: EOS - Eliminated Expenses	0	0	0	0	-	-	-			LESS: EOS - Elir Line Rentals
GreenWATER										
Wages			0	0	0	942,821	927,650			
Professional Services					0	223,321	205,301			
Eliminated Exp			0	0	0	0				

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	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
	1,177.52	1,177.52	1,295.27	1,295.27	1,295.27	1,398.89	1,398.89	1,398.89	1,447.86	1,447.86	1,482.60	1,482.60	1,518.19	1,518.19
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3,916,435	3,916,435	3,916,435	4,308,078	4,308,078	4,308,078	4,652,724	4,652,724	4,652,724	4,815,570	4,815,570	4,931,143	4,931,143	5,049,491

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
		10.0%			8.0%			3.5%		2.4%		2.4%		2.4%
	$ 1,327.16	$ 1,459.87	$ 1,459.87	$ 1,459.87	$ 1,576.66	$ 1,576.66	$ 1,576.66	$ 1,631.84	$ 1,631.84	$ 1,671.01	$ 1,671.01	$ 1,711.11	$ 1,711.11	$ 1,752.18
	$ -	$ 132.72	$ -	$ -	$ 116.79	$ -	$ -	$ 55.18	$ -	$ 39.16	$ -	$ 40.10	$ -	$ 41.07
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3,916,435	3,916,435	4,308,078	4,308,078	4,308,078	4,652,724	4,652,724	4,652,724	4,815,570	4,815,570	4,931,143	4,931,143	5,049,491	5,049,491
	-	391,643	-	-	344,646	-	-	162,845	-	115,574	-	118,347	-	121,188
												2.38%		2.42%
	29,083	29,068	29,053	29,038	29,022	29,007	28,991	28,975	28,959	28,943	28,926	28,909	28,892	28,875
	22,519	22,519	24,747	24,747	24,747	26,708	26,708	26,708	27,635	27,635	28,293	28,293	28,966	28,966
	51,602	51,587	53,800	53,785	53,769	55,715	55,699	55,683	56,594	56,578	57,219	57,202	57,858	57,841

GreenWATER

LESS: EOS - Wages & Benefits		15% savings	15%	0.15
LESS: EOS - Professional Services	ices	50% savings	50%	0.5
LESS: EOS - Eliminated Expenses		10% savings	100%	1

GreenWATER

Wages

Professional Services

Eliminated Exp

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WORKING NOTES												WORKING NOTES	
	2019	2020	2021	2022	2023	2024	**2025**	**2026**	2027	2028	2029	2030	
GreenWATER						included in OCN	= to DepX						
Reported CAPX - from the financials	0	651,253	329,699	2,740,347	2,959,807	**323,951**							

	2019	**2020**	**2021**	**2022**	**2023**			Assets	Per Books	Difference		2023
												2024
GROSS Property, plant and equipment	-	-	-	-	27,382,498			**27,382,498**	-			2025
Accumulated Depreciation	-	-	-	-	7,013,534			**7,013,534**	-			2026
NET PPE	-	-	-	-	20,368,964			**20,368,964**	-	20,368,964		2027
												2028
Total Debt	-	-	-	-	6,713,192			**388,875**				2029
Net Equity	-	-	-	-	14,110,326							2030
Investor Provided Capital	-	-	-	-	20,823,518							2031
Depreciation Rate	0.00%	0.00%	0.00%	0.00%	1.42%							
Depreciation Expense	-	347,516	369,597	393,673	361,512	388,875.00	OCNLD Study					

	2024	2025	2026	2027	2028	
CAPX	0	100,000	0	0	0	25,000

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	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
GreenWATER														
Reported CAPX - from the financials														
										1.500%		3.250%		3.370%
	0.0899	28.10%								1.35%				
	0.0849	27.71%								2.850%				
GROSS Property, plant and equipment	0.0799	27.31%						39						
Accumulated Depreciation	0.0749	26.92%						41						
NET PPE	0.0699	26.52%						42						
	0.0649	26.13%						40.66666667						
Total Debt	0.0599	25.73%						13.55555556						
Net Equity	0.0549	25.34%												
Investor Provided Capital	0.0499	24.94%												
Depreciation Rate														
Depreciation Expense														
CAPX														

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	WORKING NOTES										WORKING NOTES	
	2019	2020	2021	2022	2023	2024	**2025**	**2026**	2027	2028	2029	2030
GROSS Property, plant and equipment	-	-	-		41,180,606	41,180,606	41,657,424	42,139,762	42,627,686	43,121,259	43,620,547	44,125,616
Accumulated Depreciation	-	-	-		-	-	490,996	987,676	1,490,107	1,998,356	2,512,489	3,032,575
NET PPE	-	-	-		41,180,606	41,180,606	41,166,428	41,152,086	41,137,579	41,122,903	41,108,058	41,093,041
TER Total Debt	-	-	-	-	-	*6,713,192*						
Net Equity	-	-	-	-	-	*14,110,326*						
Investor Provided Capital	-	-	-	-	-	20,823,518	-					
Depreciation / GROSS PPE	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	0.00%	1.39%						
										0	0	
				Muni CAPX	**0**	**323,951**	**0**	**0**	**0**	**0**	**0**	**0**
			IOU savings	**0%**			100%	100%	100%	100%	100%	100%
				CAPX/Prior Yr. GROSS PPE			1.36%	1.36%	1.36%	1.36%	1.36%	1.36%
				CAPX	**2,959,807**	**323,951**	**560,962**	**567,457**	**574,028**	**580,674**	587,398	594,199
				Dep rate	0.00%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%
				Half yr. Dep	0.00%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%
				Dep on CAPX	-	2,251	3,899	3,944	3,989	4,036	4,082	4,130
				Rate of retirement	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
				Retired property	443,971	48,593	84,144	85,119	86,104	87,101	88,110	89,130
				Dep on Retired property	-	675	1,170	1,183	1,197	1,211	1,225	1,239
				Dep on Prior yr. GROSS	393,673	361,512	572,410	579,038	585,743	592,525	599,386	606,326
				Total Dep	393,673	-	575,140	581,799	588,535	595,350	602,243	609,217
GreenWATER												
Depreciation Expense	**-**	**347,516**	**369,597**	**393,673**	**361,512**							
				part of OCN								
				NET PPE			PURTA	0.001527765				
				Rev			Reg Assessment Fee	0.005652534				
								1	2	3	4	5	6
					2023	2024		2025	2026	2027	2028	2029	2030
GreenWATER													
	FIX CIP			**CIP**	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
					part of OCN	= to DepX							
					2,959,807	323,951							
									191	71	72	56	
					2023	**2024**							
						-	-	-	-	-	-	-	-
Sewer Rental Charges	0	1,937,648	1,948,448	2,111,110	2,184,059	2,181,171	2,225,247	1,529,960	1,529,960	1,529,960			
EDUs	0	0	0	0	3,326	3,326	3326	3326	3326	3326	3326	3326	
					0	0	0	0	0	0	0	0	
		0	0	0	1663	3326	3326	3326	3326	3326			
	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	656.6623572								
						$ 460.00	$ 460.00	$ 460.00	$ 460.00	$ 460.00			
		#DIV/0!	#DIV/0!	#DIV/0!	1313.324714	655.7940469							
GreenWATER					C	2,951	0						
					E	3,326	0						
						0.89							
				1742000									
		Customer Growth				**0**	**0**	**0**	**0**	**0**	0.00%	0.00%	
		Delivered to Customer	-	20.33	20	20	20	20	20	20	20	20	
GreenWATER		Customers	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	
		Total Revenue (Less TAP)	1,948,448	2,111,110	2,184,059	2,181,171	2,225,247	2,225,247	3,004,083	3,004,083	3,004,083	3,184,328	
										100.00%			
		avg CUST rev	660.27	715.39	740.11	739.13	754.07	754.07	1,017.99	1,017.99	1,017.99	1,079.07	
		avg CUST flow	-	0	0	0	0	0	0	0	0	0	

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	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
GROSS Property, plant and equipment	44,636,533	45,153,366	45,676,183	46,205,054	46,740,048	47,281,237	47,828,692	48,382,486	48,942,692	49,509,384	50,082,638	50,662,530	51,249,136	51,842,535
Accumulated Depreciation	3,558,683	4,090,883	4,629,246	5,173,841	5,724,742	6,282,022	6,845,755	7,416,015	7,992,878	8,576,421	9,166,719	9,763,852	10,367,899	10,978,942
NET PPE	41,077,850	41,062,483	41,046,937	41,031,213	41,015,306	40,999,215	40,982,937	40,966,471	40,949,814	40,932,963	40,915,919	40,898,678	40,881,237	40,863,593
TER Total Debt														
Net Equity														
Investor Provided Capital														
Depreciation / GROSS PPE														
	0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%
	601,079	608,039	615,079	622,201	629,405	636,693	644,065	651,522	659,066	666,697	674,417	682,226	690,125	698,116
	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%
	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%
	4,177	4,226	4,275	4,324	4,374	4,425	4,476	4,528	4,581	4,634	4,687	4,741	4,796	4,852
	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
	90,162	91,206	92,262	93,330	94,411	95,504	96,610	97,728	98,860	100,005	101,163	102,334	103,519	104,717
	1,253	1,268	1,282	1,297	1,312	1,328	1,343	1,358	1,374	1,390	1,406	1,422	1,439	1,456
	613,346	620,448	627,632	634,899	642,250	649,687	657,209	664,819	672,517	680,303	688,180	696,149	704,209	712,363
	616,270	623,406	630,624	637,926	645,312	652,784	660,342	667,988	675,723	683,547	691,461	699,467	707,566	715,759
GreenWATER														
Depreciation Expense														

	7 2031	8 2032	9 2033	10 2034	11 2035	12 2036	13 2037	14 2038	15 2039	16 2040	17 2041	18 2042	19 2043	20 2044
	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sewer Rental Charges														
EDUs	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GreenWATER														
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	20	20	20	20	20	20	20	20	20	20	20	20	20	20
GreenWATER	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951
	3,184,328	3,184,328	3,375,388	3,375,388	3,375,388	3,577,911	3,577,911	3,577,911	3,792,586	3,792,586	3,906,364	3,906,364	4,023,555	4,023,555
	100.00%													
	1,079.07	1,079.07	1,143.81	1,143.81	1,143.81	1,212.44	1,212.44	1,212.44	1,285.19	1,285.19	1,323.74	1,323.74	1,363.45	1,363.45
	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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WORKING NOTES											WORKING NOTES	
2019	2020	2021	2022	2023	2024	**2025**	**2026**	2027	2028	2029	2030
	avg EDU rev	#DIV/0!	#DIV/0!	656.66	655.79	669.05	669.05	903.21	903.21	903.21	957.40
	avg EDU flow	#DIV/0!	#DIV/0!	0	0	0	0	0	0	0	0
	Rev Calculated				2,184,059	2,181,171	2,225,247	2,225,247	3,004,083	3,004,083	3,004,083

			2024	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
			Change		35.0%			6.0%	
		$ 740.11	$ 739.13	$ 754.07	$ 1,017.99	$ 1,017.99	$ 1,017.99	$ 1,079.07	$ 1,079.07
					$ 263.92	**$ -**	**$ -**	**$ 61.08**	**$ -**
			-	-	-	3,004,083	-	-	-
			2,184,059	2,181,171	2,225,247	3,004,083	3,004,083	3,004,083	3,184,328
			-	-	778,836	-	-	180,245	-

Prior yr								
NET PURTA	0.1432%		58,971	58,950	58,930	58,909	58,888	58,867
REV Reg Assessment	0.5690%		12,638	12,896	17,328	17,328	17,328	18,353
			71,609	71,846	76,258	76,237	76,216	77,220

Greenville Municipal Water Authority	
Investor Provide	20,823,518
Gross PP&E	41,180,606
Net PP&E	41,180,606
Revenues	2,221,171
EBITDA	879,919
EBIT	307,509
Customers	2,951
Population	7,256

	2019	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**		
GreenWATER									
LESS: EOS - Wages & Benefits	0	-	-	-	-	942,821	927,650	0.15	LESS: EOS - Wages Wages & Benefits
LESS: EOS - Professional Services	0	0	0	0	-	223,321	205,301	0.5	LESS: EOS - Profes Net Professional Servi
LESS: EOS - Eliminated Expenses	0	0	0	0	-	-	-		LESS: EOS - Elir Line Rentals
GreenWATER									
Wages			0	0	0	942,821	927,650		
Professional Services					0	223,321	205,301		
Eliminated Exp			0	0	0	0			

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	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
	957.40	957.40	1,014.85	1,014.85	1,014.85	1,075.74	1,075.74	1,075.74	1,140.28	1,140.28	1,174.49	1,174.49	1,209.73	1,209.73
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3,184,328	3,184,328	3,184,328	3,375,388	3,375,388	3,375,388	3,577,911	3,577,911	3,577,911	3,792,586	3,792,586	3,906,364	3,906,364	4,023,555

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
		6.0%			6.0%			6.0%		3.0%		3.0%		3.0%
	$ 1,079.07	$ 1,143.81	$ 1,143.81	$ 1,143.81	$ 1,212.44	$ 1,212.44	$ 1,212.44	$ 1,285.19	$ 1,285.19	$ 1,323.74	$ 1,323.74	$ 1,363.45	$ 1,363.45	$ 1,404.36
	$ -	$ 64.74	$ -	$ -	$ 68.63	$ -	$ -	$ 72.75	$ -	$ 38.56	$ -	$ 39.71	$ -	$ 40.90
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3,184,328	3,184,328	3,375,388	3,375,388	3,375,388	3,577,911	3,577,911	3,577,911	3,792,586	3,792,586	3,906,364	3,906,364	4,023,555	4,023,555
	-	191,060	-	-	202,523	-	-	214,675	-	113,778	-	117,191	-	120,707
												3.23%		3.27%
	58,845	58,823	58,801	58,779	58,757	58,734	58,711	58,688	58,664	58,640	58,616	58,592	58,567	58,542
	18,353	18,353	19,440	19,440	19,440	20,593	20,593	20,593	21,814	21,814	22,462	22,462	23,128	23,128
	77,198	77,176	78,241	78,219	78,197	79,327	79,304	79,281	80,478	80,454	81,078	81,054	81,695	81,670

GreenWATER

LESS: EOS - Wages & Benefits		15% savings	15%	0.15
LESS: EOS - Professional Services	ces	50% savings	50%	0.5
LESS: EOS - Eliminated Expenses		10% savings	100%	1

GreenWATER

Wages

Professional Services

Eliminated Exp

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WORKING NOTES												WORKING NOTES	
	2019	2020	2021	2022	2023	2024	**2025**	**2026**	2027	2028	2029	2030	
GreenWATER						included in OCN	= to DepX						
Reported CAPX - from the financials	0	651,253	329,699	2,740,347	2,959,807	**323,951**							

	2019	**2020**	**2021**	**2022**	**2023**			Assets	Per Books	Difference		2023
												2024
GROSS Property, plant and equipment	-	-	-	-	41,180,606			**41,180,606**	-			2025
Accumulated Depreciation	-	-	-	-	-			-	-			2026
NET PPE	-	-	-	-	41,180,606			**41,180,606**	-	41,180,606		2027
												2028
Total Debt	-	-	-	-	6,713,192			**572,410**				2029
Net Equity	-	-	-	-	14,110,326							2030
Investor Provided Capital	-	-	-	-	20,823,518							2031
Depreciation Rate	0.00%	0.00%	0.00%	0.00%	1.39%							
Depreciation Expense	-	347,516	369,597	393,673	361,512	572,410.00	OCNLD Study					

	2024	2025	2026	2027	2028	
CAPX	0	100,000	0	0	0	25,000

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	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
GreenWATER														
Reported CAPX - from the financials														
										1.500%		3.250%		3.370%
	0.0899	28.10%								1.35%				
	0.0849	27.71%								2.850%				
GROSS Property, plant and equipment	0.0799	27.31%						39						
Accumulated Depreciation	0.0749	26.92%						41						
NET PPE	0.0699	26.52%						42						
	0.0649	26.13%						40.66666667						
Total Debt	0.0599	25.73%						13.55555556						
Net Equity	0.0549	25.34%												
Investor Provided Capital	0.0499	24.94%												
Depreciation Rate														
Depreciation Expense														
CAPX														

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	WORKING NOTES										WORKING NOTES	
	2019	2020	2021	2022	2023	2024	**2025**	**2026**	2027	2028	2029	2030
GROSS Property, plant and equipment	-	-	-		41,180,606	41,180,606	41,657,424	42,139,762	42,627,686	43,121,259	43,620,547	44,125,616
Accumulated Depreciation	-	-	-		-	-	490,996	987,676	1,490,107	1,998,356	2,512,489	3,032,575
NET PPE	-	-	-		41,180,606	41,180,606	41,166,428	41,152,086	41,137,579	41,122,903	41,108,058	41,093,041
TER Total Debt	-	-	-	-	-	*6,713,192*						
Net Equity	-	-	-	-	-	*14,110,326*						
Investor Provided Capital	-	-	-	-	-	20,823,518	-					
Depreciation / GROSS PPE	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	0.00%	1.39%						
										0	0	
				Muni CAPX	**0**	**323,951**	**0**	**0**	**0**	**0**	**0**	**0**
			IOU savings	**0%**			100%	100%	100%	100%	100%	100%
				CAPX/Prior Yr. GROSS PPE			1.36%	1.36%	1.36%	1.36%	1.36%	1.36%
				CAPX	**2,959,807**	**323,951**	**560,962**	**567,457**	**574,028**	**580,674**	587,398	594,199
				Dep rate	0.00%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%
				Half yr. Dep	0.00%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%
				Dep on CAPX	-	2,251	3,899	3,944	3,989	4,036	4,082	4,130
				Rate of retirement	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
				Retired property	443,971	48,593	84,144	85,119	86,104	87,101	88,110	89,130
				Dep on Retired property	-	675	1,170	1,183	1,197	1,211	1,225	1,239
				Dep on Prior yr. GROSS	393,673	361,512	572,410	579,038	585,743	592,525	599,386	606,326
				Total Dep	393,673	-	575,140	581,799	588,535	595,350	602,243	609,217
GreenWATER												
Depreciation Expense	**-**	**347,516**	**369,597**	**393,673**	**361,512**							
				part of OCN								
				NET PPE			PURTA	0.001527765				
				Rev			Reg Assessment Fee	0.005652534				
							1	2	3	4	5	6
					2023	2024	2025	2026	2027	2028	2029	2030
GreenWATER												
	FIX CIP			**CIP**	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
					part of OCN	= to DepX						
					2,959,807	323,951						
									191	71	72	56
					2023	**2024**						
						-	-	-	-	-	-	-
Sewer Rental Charges	0	1,937,648	1,948,448	2,111,110	2,184,059	2,181,171	2,225,247	1,529,960	1,529,960	1,529,960		
EDUs	0	0	0	0	3,326	3,326	3326	3326	3326	3326	3326	3326
					0	0	0	0	0	0	0	0
		0	0	0	1663	3326	3326	3326	3326	3326		
	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	656.6623572							
						$ 460.00	$ 460.00	$ 460.00	$ 460.00	$ 460.00		
		#DIV/0!	#DIV/0!	#DIV/0!	1313.324714	655.7940469						
GreenWATER					C	2,951	0					
					E	3,326	0					
						0.89						
				1742000								
		Customer Growth				**0**	**0**	**0**	**0**	**0**	0.00%	0.00%
		Delivered to Customer	-	20.33	20	20	20	20	20	20	20	20
GreenWATER		Customers	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951
		Total Revenue (Less TAP)	1,948,448	2,111,110	2,184,059	2,181,171	2,225,247	2,225,247	3,894,182	3,894,182	3,894,182	4,400,426
										100.00%		
		avg CUST rev	660.27	715.39	740.11	739.13	754.07	754.07	1,319.61	1,319.61	1,319.61	1,491.16
		avg CUST flow	-	0	0	0	0	0	0	0	0	0

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	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
GROSS Property, plant and equipment	44,636,533	45,153,366	45,676,183	46,205,054	46,740,048	47,281,237	47,828,692	48,382,486	48,942,692	49,509,384	50,082,638	50,662,530	51,249,136	51,842,535
Accumulated Depreciation	3,558,683	4,090,883	4,629,246	5,173,841	5,724,742	6,282,022	6,845,755	7,416,015	7,992,878	8,576,421	9,166,719	9,763,852	10,367,899	10,978,942
NET PPE	41,077,850	41,062,483	41,046,937	41,031,213	41,015,306	40,999,215	40,982,937	40,966,471	40,949,814	40,932,963	40,915,919	40,898,678	40,881,237	40,863,593
TER Total Debt														
Net Equity														
Investor Provided Capital														
Depreciation / GROSS PPE														
	0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%
	601,079	608,039	615,079	622,201	629,405	636,693	644,065	651,522	659,066	666,697	674,417	682,226	690,125	698,116
	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%	1.39%
	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%	0.70%
	4,177	4,226	4,275	4,324	4,374	4,425	4,476	4,528	4,581	4,634	4,687	4,741	4,796	4,852
	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
	90,162	91,206	92,262	93,330	94,411	95,504	96,610	97,728	98,860	100,005	101,163	102,334	103,519	104,717
	1,253	1,268	1,282	1,297	1,312	1,328	1,343	1,358	1,374	1,390	1,406	1,422	1,439	1,456
	613,346	620,448	627,632	634,899	642,250	649,687	657,209	664,819	672,517	680,303	688,180	696,149	704,209	712,363
	616,270	623,406	630,624	637,926	645,312	652,784	660,342	667,988	675,723	683,547	691,461	699,467	707,566	715,759
GreenWATER														
Depreciation Expense														

	7 2031	8 2032	9 2033	10 2034	11 2035	12 2036	13 2037	14 2038	15 2039	16 2040	17 2041	18 2042	19 2043	20 2044
	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sewer Rental Charges														
EDUs	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326	3326
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GreenWATER														
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	20	20	20	20	20	20	20	20	20	20	20	20	20	20
GreenWATER	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951	2,951
	4,400,426	4,400,426	4,972,481	4,972,481	4,972,481	5,618,904	5,618,904	5,618,904	5,899,849	5,899,849	6,065,045	6,065,045	6,198,476	6,198,476
	100.00%													
	1,491.16	1,491.16	1,685.02	1,685.02	1,685.02	1,904.07	1,904.07	1,904.07	1,999.27	1,999.27	2,055.25	2,055.25	2,100.47	2,100.47
	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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WORKING NOTES											WORKING NOTES	
2019	2020	2021	2022	2023	2024	**2025**	**2026**	2027	2028	2029	2030
	avg EDU rev	#DIV/0!	#DIV/0!	656.66	655.79	669.05	669.05	1,170.83	1,170.83	1,170.83	1,323.04
	avg EDU flow	#DIV/0!	#DIV/0!	0	0	0	0	0	0	0	0
	Rev Calculated				2,184,059	2,181,171	2,225,247	2,225,247	3,894,182	3,894,182	3,894,182

	2024	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**
	Change		75.0%			13.0%	
$ 740.11	$ 739.13	$ 754.07	$ 1,319.61	$ 1,319.61	$ 1,319.61	$ 1,491.16	$ 1,491.16
			$ 565.55	$ -	$ -	$ 171.55	$ -
	-	-	-	3,894,182	-	-	-
	2,184,059	2,181,171	2,225,247	3,894,182	3,894,182	3,894,182	4,400,426
	-	-	1,668,935	-	-	506,244	-

Prior yr							
NET PURTA	0.1432%		58,971	58,950	58,930	58,909	58,888	58,867
REV Reg Assessment	0.5690%		12,638	12,896	22,392	22,392	22,392	25,273
			71,609	71,846	81,322	81,301	81,280	84,140

Greenville Municipal Water Authority	
Investor Provide	20,823,518
Gross PP&E	41,180,606
Net PP&E	41,180,606
Revenues	2,221,171
EBITDA	879,919
EBIT	307,509
Customers	2,951
Population	7,256

	2019	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**		
GreenWATER									
LESS: EOS - Wages & Benefits	0	-	-	-	-	942,821	927,650	0.15	LESS: EOS - Wages Wages & Benefits
LESS: EOS - Professional Services	0	0	0	0	-	223,321	205,301	0.5	LESS: EOS - Profes Net Professional Servi
LESS: EOS - Eliminated Expenses	0	0	0	0	-	-	-		LESS: EOS - Elir Line Rentals
GreenWATER									
Wages			0	0	0	942,821	927,650		
Professional Services					0	223,321	205,301		
Eliminated Exp			0	0	0	0			

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	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
	1,323.04	1,323.04	1,495.03	1,495.03	1,495.03	1,689.39	1,689.39	1,689.39	1,773.86	1,773.86	1,823.53	1,823.53	1,863.64	1,863.64
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4,400,426	4,400,426	4,400,426	4,972,481	4,972,481	4,972,481	5,618,904	5,618,904	5,618,904	5,899,849	5,899,849	6,065,045	6,065,045	6,198,476

	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
		13.0%			13.0%			5.0%		2.8%		2.2%		2.2%
	$ 1,491.16	$ 1,685.02	$ 1,685.02	$ 1,685.02	$ 1,904.07	$ 1,904.07	$ 1,904.07	$ 1,999.27	$ 1,999.27	$ 2,055.25	$ 2,055.25	$ 2,100.47	$ 2,100.47	$ 2,146.68
	$ -	$ 193.85	$ -	$ -	$ 219.05	$ -	$ -	$ 95.20	$ -	$ 55.98	$ -	$ 45.22	$ -	$ 46.21
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4,400,426	4,400,426	4,972,481	4,972,481	4,972,481	5,618,904	5,618,904	5,618,904	5,899,849	5,899,849	6,065,045	6,065,045	6,198,476	6,198,476
	-	572,055	-	-	646,423	-	-	280,945	-	165,196	-	133,431	-	136,366
												2.09%		2.13%
	58,845	58,823	58,801	58,779	58,757	58,734	58,711	58,688	58,664	58,640	58,616	58,592	58,567	58,542
	25,273	25,273	28,528	28,528	28,528	32,206	32,206	32,206	33,805	33,805	34,745	34,745	35,504	35,504
	84,118	84,096	87,329	87,307	87,285	90,940	90,917	90,894	92,469	92,445	93,361	93,337	94,071	94,046

GreenWATER

LESS: EOS - Wages & Benefits		15% savings	15%	0.15
LESS: EOS - Professional Services	ces	50% savings	50%	0.5
LESS: EOS - Eliminated Expenses		10% savings	100%	1

GreenWATER

Wages

Professional Services

Eliminated Exp

WORKING NOTES												WORKING NOTES	
	2019	2020	2021	2022	2023	2024	**2025**	**2026**	2027	2028	2029	2030	
GreenWATER					included in OCN	= to DepX							
Reported CAPX - from the financials	0	651,253	329,699	2,740,347	2,959,807	**323,951**							

	2019	**2020**	**2021**	**2022**	**2023**			Assets	Per Books	Difference		2023
												2024
GROSS Property, plant and equipment	-	-	-	-	41,180,606			**41,180,606**	-			2025
Accumulated Depreciation	-	-	-	-	-			-	-			2026
NET PPE	-	-	-	-	41,180,606			**41,180,606**	-	41,180,606		2027
												2028
Total Debt	-	-	-	-	6,713,192			**572,410**				2029
Net Equity	-	-	-	-	14,110,326							2030
Investor Provided Capital	-	-	-	-	20,823,518							2031
Depreciation Rate	0.00%	0.00%	0.00%	0.00%	1.39%							
Depreciation Expense	-	347,516	369,597	393,673	361,512	572,410.00	OCNLD Study					

	2024	2025	2026	2027	2028	
CAPX	0	100,000	0	0	0	25,000

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	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
GreenWATER														
Reported CAPX - from the financials														
										1.500%		3.250%		3.370%
	0.0899	28.10%								1.35%				
	0.0849	27.71%								2.850%				
GROSS Property, plant and equipment	0.0799	27.31%						39						
Accumulated Depreciation	0.0749	26.92%						41						
NET PPE	0.0699	26.52%						42						
	0.0649	26.13%						40.66666667						
Total Debt	0.0599	25.73%						13.55555556						
Net Equity	0.0549	25.34%												
Investor Provided Capital	0.0499	24.94%												
Depreciation Rate														
Depreciation Expense														
CAPX														

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Greenville Municipal Water Authority Water System Assets			
Total Debt	6,713,192	4,685,185	5,257,910
Purchase of Capital Assets	2,959,807	2,740,347	329,699
	2023	2022	2021
Income (Loss) Before Transfers	320,856	83,344	175,163
Interest paid	68,790	68,465	79,164
Depreciation	361,512	393,673	369,597
Total Source	$751,158	$545,482	$623,924
Income tax	0	0	0
Principal	579,575	571,446	564,208
Interest paid	68,790	68,465	79,164
Total Use	$648,365	$639,911	$643,372
W/Out Trans			
Debt Service Coverage	1.16	0.85	0.97
Pre-Tax Interest Coverage - Including AFC(3)(x)	5.66	2.22	3.21
Post-Tax Interest Coverage - Including AFC(3)(x)	5.66	2.22	3.21
GCF / Interest Coverage(4)(x)	10.92	7.97	7.88
GCF / Tot. Debt(7)(%)	10.16	10.18	10.36
GCF / Construction(6)(%)	23.05	17.41	165.23

Comparable Group

Debt Service Coverage - As Reported

Comparable Group	2023	2022	2021
AMERICAN STATES WATER COMPANY	4.9	5.4	3.1
AMERICAN WATER WORKS COMPANY, INC.	2.8	4.2	3.0
ARTESIAN RESOURCES CORPORATION	3.5	3.9	3.9
CALIFORNIA WATER SERVICE GROUP	4.2	5.0	5.1
ESSENTIAL UTILITIES, INC.	1.0	0.8	1.0
MIDDLESEX WATER COMPANY	2.4	4.7	1.2
SJW GROUP	3.7	1.6	1.6
THE YORK WATER COMPANY	0.6	0.5	0.7
Median	3.2	4.1	2.3

Company Name	2023 DEPRECIATION	2022 DEPRECIATION	2021 DEPRECIATION	2023 TOTAL INTERST EXPENSE	2022 TOTAL INTERST EXPENSE	2021 TOTAL INTERST EXPENSE
AMERICAN STATES WATER COMPANY	43.254	41.697	39.974	42.762	27.027	22.834
AMERICAN WATER WORKS COMPANY, INC.	704.000	649.000	636.000	460.000	433.000	403.000
ARTESIAN RESOURCES CORPORATION	13.335	12.620	11.885	9.156	8.502	7.592
CALIFORNIA WATER SERVICE GROUP	123.124	117.364	111.581	52.809	46.686	44.980
ESSENTIAL UTILITIES, INC.	343.695	321.177	297.952	283.362	238.116	207.709
MIDDLESEX WATER COMPANY	29.442	27.475	26.799	13.143	9.367	8.114
SJW GROUP	108.138	106.439	96.474	66.144	58.062	54.339
THE YORK WATER COMPANY	11.746	10.139	8.859	7.047	5.114	4.926

	2023 INCOME TO PREF+COMM	2022 INCOME TO PREF+COMM	2021 INCOME TO PREF+COMM	2023 REPAY LT DEBT	2022 REPAY LT DEBT	2021 REPAY LT DEBT
AMERICAN STATES WATER COMPANY	42.762	27.027	22.834	0.334	0.377	28.356
AMERICAN WATER WORKS COMPANY, INC.	460.000	433.000	403.000	282.000	15.000	372.000
ARTESIAN RESOURCES CORPORATION	9.156	8.502	7.592	2.010	1.643	1.825
CALIFORNIA WATER SERVICE GROUP	52.809	46.686	44.980	1.811	5.423	5.353
ESSENTIAL UTILITIES, INC.	283.362	238.116	207.709	876.379	977.175	769.546
MIDDLESEX WATER COMPANY	13.143	9.367	8.114	17.463	7.423	52.691
SJW GROUP	66.144	58.062	54.339	4.347	89.177	76.113
THE YORK WATER COMPANY	7.047	5.114	4.926	64.148	61.458	37.649

Company Name	Pretax Operating Income			Interest expense			Net Income		
	2023	2022	2021	2023	2022	2021	2023	2022	2021
AMERICAN STATES WATER CO	209.282	129.087	147.604	42.762	27.027	22.834	124.921	78.396	94.347
AMERICAN WATER WORKS CO INC	1,656.000	1,441.000	2,043.000	460.000	433.000	403.000	944.000	820.000	1,263.000
ARTESIAN RESOURCES -CL A	32.203	32.378	30.156	9.156	8.502	7.592	16.699	17.998	16.827
CALIFORNIA WATER SERVICE GP	97.939	149.072	150.197	52.809	46.686	44.980	51.911	96.011	101.125
ESSENTIAL UTILITIES, INC.	715.143	689.024	629.709	283.362	238.116	207.709	498.226	465.237	431.612
MIDDLESEX WATER CO	45.708	55.036	39.169	13.143	9.367	8.114	31.524	42.429	36.543
SJW GROUP	157.087	140.386	123.186	66.144	58.062	54.339	84.987	73.828	60.478
YORK WATER CO	32.081	24.709	23.030	7.047	5.114	4.926	23.757	19.580	16.984

Company Name	Gross Cash Flow			Total debt			CAPX		
	2023	2022	2021	2023	2022	2021	2023	2022	2021
AMERICAN STATES WATER CO	172.958	122.896	137.882	917.883	734.428	629.017	188.540	166.240	144.515
AMERICAN WATER WORKS CO INC	1,832.000	1,535.000	2,119.000	12,455.000	12,455.000	11,065.000	2,575.000	2,297.000	1,764.000
ARTESIAN RESOURCES -CL A	31.418	30.882	30.266	181.063	198.307	172.029	62.177	48.483	40.814
CALIFORNIA WATER SERVICE GP	165.261	215.546	211.586	1,247.007	1,140.700	1,111.389	386.563	335.523	293.194
ESSENTIAL UTILITIES, INC.	745.109	739.704	700.258	7,108.766	6,874.589	6,114.443	1,199.103	1,062.763	1,020.519
MIDDLESEX WATER CO	55.556	69.024	61.981	412.306	366.948	330.618	90.179	91.335	79.378
SJW GROUP	181.715	172.320	149.679	1,747.174	1,655.903	1,595.037	271.772	218.784	233.933
YORK WATER CO	31.880	28.222	24.786	180.639	140.145	148.455	65.265	53.920	46.400

Company Name	Pretax Interest Coverage			Posttax Interest Coverage			GCF Interest Coverage		
	2023	2022	2021	2023	2022	2021	2023	2022	2021
AMERICAN STATES WATER CO	4.9	4.8	6.5	3.9	3.9	5.1	5.0	5.5	7.0
AMERICAN WATER WORKS CO INC	3.6	3.3	5.1	3.1	2.9	4.1	5.0	4.5	6.3
ARTESIAN RESOURCES -CL A	3.5	3.8	4.0	2.8	3.1	3.2	4.4	4.6	5.0
CALIFORNIA WATER SERVICE GP	1.9	3.2	3.3	2.0	3.1	3.2	4.1	5.6	5.7
ESSENTIAL UTILITIES, INC.	2.5	2.9	3.0	2.8	3.0	3.1	3.6	4.1	4.4
MIDDLESEX WATER CO	3.5	5.9	4.8	3.4	5.5	5.5	5.2	8.4	8.6
SJW GROUP	2.4	2.4	2.3	2.3	2.3	2.1	3.7	4.0	3.8
YORK WATER CO	4.6	4.8	4.7	4.4	4.8	4.4	5.5	6.5	6.0
Median	3.5	3.6	4.4	3.0	3.1	3.7	4.7	5.1	5.9

Company Name	GCF To Debt			GCF To CAPX		
	2023	2022	2021	2023	2022	2021
AMERICAN STATES WATER CO	18.8	16.7	21.9	91.7	73.9	95.4
AMERICAN WATER WORKS CO INC	14.7	12.3	19.2	71.1	66.8	120.1
ARTESIAN RESOURCES -CL A	17.4	15.6	17.6	50.5	63.7	74.2
CALIFORNIA WATER SERVICE GP	13.3	18.9	19.0	42.8	64.2	72.2
ESSENTIAL UTILITIES, INC.	10.5	10.8	11.5	62.1	69.6	68.6
MIDDLESEX WATER CO	13.5	18.8	18.7	61.6	75.6	78.1
SJW GROUP	10.4	10.4	9.4	66.9	78.8	64.0
YORK WATER CO	17.6	20.1	16.7	48.8	52.3	53.4
Median	14.1	16.2	18.2	61.9	68.2	73.2

	2023	2022	2021
Pre-Tax Interest Coverage - Including AFC(3)(x)	3.5	3.6	4.4
Post-Tax Interest Coverage - Including AFC(3)(x)	3.0	3.1	3.7
GCF / Interest Coverage(4)(x)	4.7	5.1	5.9
GCF / Tot. Debt(7)(%)	14.1	16.2	18.2
GCF / Construction(6)(%)	61.9	68.2	73.2

Bulletin No. 199

1912 to January1, 2024

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Trends of Construction Costs

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	BCWSA			ACSA			ALTOONA WATER AUTHORITY			CRWA		
	2020	**2019**	**2018**	**2020**	**2019**	**2018**	**2020**	**2019**	**2018**	**2020**	**2019**	**2018**
NET Property, plant and equipment	457,544,068	453,174,193	444,814,214	643,502,136	629,097,945	622,343,318	94,458,106	100,528,196	106,598,286	224,285,248	203,420,262	178,131,377
Operating Income	17,944,985	19,821,564	15,116,318	80,147,473	75,382,370	68,023,690	4,082,275	6,157,037	14,022,174	19,083,482	21,336,089	20,313,529
ROR/N PPE	3.92%	4.37%	3.40%	12.45%	11.98%	10.93%	4.32%	6.12%	13.15%	8.51%	10.49%	11.40%
3-Year Average	3.90%			11.79%			7.87%			10.13%		
Median of Each Year		5.08%										
Median of Each Entity		5.42%										
Conclusion			5.25%									

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	CHESTER WATER AUTHORITY			ERIE CITY WATER AUTHORITY			LASA*			RAWA		
	2020	**2019**	**2018**	**2020**	**2019**	**2018**	**2020**	**2019**	**2018**	**2020**	**2019**	**2018**
NET Property, plant and equipment	280,862,318	282,920,765	277,881,505	200,008,941	194,099,358	191,070,499	147,014,498	140,405,221	142,318,075	63,336,954	66,455,706	64,973,550
Operating Income	4,928,913	4,705,194	1,487,430	13,461,619	9,549,652	10,005,109	6,069,056	6,901,580	6,054,460	3,653,656	3,556,133	2,945,874
ROR/N PPE	1.75%	1.66%	0.54%	6.73%	4.92%	5.24%	4.13%	4.92%	4.25%	5.77%	5.35%	4.53%
3-Year Average	1.32%			5.63%			4.43%			5.22%		
								* Fiscal year 3/31				
Median of Each Year												
Median of Each Entity												
Conclusion												

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	WCMA*			PITTSBURGH WATER & SEWER		
	2020	**2019**	**2018**	**2020**	**2019**	**2018**
NET Property, plant and equipment	617,498,278	590,631,677	554,245,152	921,650,000	830,578,000	757,480,000
Operating Income	26,537,557	23,281,341	27,079,696	50,831,000	65,808,000	61,660,000
ROR/N PPE	4.30%	3.94%	4.89%	5.52%	7.92%	8.14%
3-Year Average	4.38%			7.19%		

*Fiscal Year 3/31

Median of Each Year

Median of Each Entity

Conclusion

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BUCKS COUNTY WATER AND SEWER AUTHORITY
STATEMENTS OF NET POSITION
YEARS ENDED DECEMBER 31, 2020 AND 2019

	2020	2019
ASSETS		
Current Assets		
Cash and Cash Equivalents	$ 5,872,075	$ 5,870,876
Investments	17,122,426	23,051,730
Accounts Receivable, Net of Allowance for Doubtful Accounts	8,310,705	6,175,101
Unbilled Revenue Receivable	9,768,802	9,020,572
Prepaid Expenses	729,044	692,186
Total Current Assets	41,803,052	44,810,465
Non-Current Assets		
Restricted Assets		
Cash and Cash Equivalents	3,617,503	3,922,837
Investments	63,732,897	60,095,138
Interest Receivable	920,477	748,766
Total Restricted Assets	68,270,877	64,766,741
Capital Assets		
Land, Rights-of-Way and Construction in Progress	81,292,208	77,851,553
Other Capital Assets, Net of Accumulated Depreciation	376,251,860	375,322,640
Total Capital Assets, Net	457,544,068	453,174,193
Total Non-Current Assets	525,814,945	517,940,934
Total Assets	567,617,997	562,751,399
Deferred Outflows of Resources		
Deferred Amount from Debt Refundings	7,790,319	8,818,011
Pension: Changes in Assumptions	591,106	591,106
Pension: Difference Between Expected and Actual Experience	805,127	805,127
Pension: Difference Between Projected and Actual Earnings on Investments	1,691,386	1,691,386
Pension: Contributions Made Subsequent to Measurement Date	4,326,752	4,326,752
OPEB: Difference Between Expected and Actual Experience	26,180	34,877
OPEB: Difference Between Projected and Actual Earnings on Plan Investments	-	1,972
Total Deferred Outflows of Resources	15,230,870	16,269,231
LIABILITIES AND NET POSITION		
Current Liabilities		
Accounts Payable and Accrued Expenses	12,749,312	11,887,091
Current Portion of Bonds Payable	22,375,000	21,345,000
Interest Payable	745,039	803,887
Total Current Liabilities	35,869,351	34,035,978
Non-Current Liabilities		
Customer and Developer Deposits	3,613,254	3,715,610
Bonds Payable, Net of Unamortized Bond Discount and Premium	223,030,306	233,209,683
Net Pension Liability	1,880,256	1,880,256
Net OPEB Liability	4,026,011	3,953,798
Total Non-Current Liabilities	232,549,827	242,759,347
Total Liabilities	268,419,178	276,795,325
Deferred Inflows of Resources		
Pension: Changes in Assumptions	32,118	32,118
OPEB: Changes in Assumptions	241,345	321,526
OPEB: Difference Between Projected and Actual Earnings on Investments	86,429	-
Proceeds from Sale of Future Revenues	3,795,454	3,967,975
Total Deferred Inflows of Resources	4,155,346	4,321,619
Net Position		
Net Investment in Capital Assets	229,523,791	216,079,031
Restricted for Capital Activity	15,719,591	12,077,609
Restricted for Debt Service	31,553,004	31,514,000
Unrestricted	33,477,957	38,233,046
Total Net Position	$ 310,274,343	$ 297,903,686

See accompanying notes to the financial statements.

BUCKS COUNTY WATER AND SEWER AUTHORITY
STATEMENTS OF REVENUES, EXPENSES,
AND CHANGES IN NET POSITION
YEARS ENDED DECEMBER 31, 2020 AND 2019

	2020	2019
Operating Revenues		
Retail Sewer Service	$ 54,861,161	$ 49,612,675
Wholesale Sewer Service	14,337,247	20,728,839
Retail Water Service	11,747,314	11,481,175
Wholesale Water Service	4,663,441	4,315,851
Improvement and Tapping Fees	263,705	580,375
Other Revenues	3,557,822	5,875,885
Total Operating Revenues	89,430,690	92,594,800
Expenses		
Operating Expenses		
Sewage Treatment and Water Procurement		
Sewage Treatment	19,678,584	20,534,850
Water Procurement	5,736,644	5,352,970
Total Sewage Treatment and Water Procurement	25,415,228	25,887,820
Plant Operations		
Payroll and Related Costs	2,732,227	1,927,213
Repairs and Maintenance	1,945,504	1,292,778
Electricity	521,131	405,213
Water and Sewage Testing	249,680	256,279
Total Plant Operations	5,448,542	3,881,483
Collection, Transmission and Distribution Service		
Payroll and Related Costs	8,845,809	9,070,825
Repairs and Maintenance	3,084,311	2,347,631
Electricity	885,701	807,210
Other Related Costs	216,408	274,544
Total Collection, Transmission and Distribution Service	13,032,229	12,500,210
Total Operating Expenses	43,895,999	42,269,513
General and Administrative Expenses		
Payroll and Related Costs	4,412,980	4,536,162
Professional Fees	2,329,876	2,732,816
Insurance	497,923	522,165
Other	2,382,465	3,199,536
Total General and Administrative Expense	9,623,244	10,990,679
Total Expenses	53,519,243	53,260,192
Income From Operations Before Depreciation	35,911,447	39,334,608
Depreciation	(17,966,462)	(19,513,044)
Operating Income	17,944,985	19,821,564
Nonoperating Revenue (Expense)		
Interest Expense, Net of Amounts Capitalized	(7,770,635)	(8,517,857)
Investment Income	628,113	2,078,449
Improvement and Tapping Fees	1,821,485	1,262,884
Amortization	(253,291)	(218,126)
Total Nonoperating Expense	(5,574,328)	(5,394,650)
Increase In Net Position	12,370,657	14,426,914
Net Position - Beginning of Year	297,903,686	283,476,772
Net Position - End of Year	$ 310,274,343	$ 297,903,686

See accompanying notes to the financial statements.

BUCKS COUNTY WATER AND SEWER AUTHORITY
NOTES TO THE FINANCIAL STATEMENTS (CONTINUED)
DECEMBER 31, 2019 AND 2018

NOTE 6: SEGMENT INFORMATION

As of and for the years ended December 31, 2019 and 2018 segment information is as follows:

	2019			
Assets	Sewer System	Water System	Administrative Account	Totals
Current Assets				
Cash and Investments	$ 14,429,267	$ 11,367,223	$ 3,126,116	$ 28,922,606
Accounts Receivable, Unbilled Revenue and Net Intercompany Transfers	6,989,222	17,310,475	(9,104,024)	15,195,673
Other	608,655	83,531	-	692,186
Non-Current Assets				
Restricted Assets	48,050,977	12,345,721	4,370,043	64,766,741
Capital Assets	304,158,678	142,902,978	6,112,537	453,174,193
Total Assets	374,236,799	184,009,928	4,504,672	562,751,399
Deferred Outflows of Resources				
Deferred Amount from Debt Refundings	2,839,649	5,978,362	-	8,818,011
Pension: Changes in Assumptions	465,033	126,073	-	591,106
Pension: Difference Between Expected and Actual Experience	674,207	130,920	-	805,127
Pension: Difference Between Projected and Actual Earnings on Investments	1,437,679	253,707	-	1,691,386
Pension: Contributions Made Subsequent to Measurement Date	3,275,976	1,050,776	-	4,326,752
OPEB: Difference Between Expected and Actual Experience	29,645	5,232	-	34,877
OPEB: Difference Between Projected and Actual Earnings on Plan Investments	1,676	296	-	1,972
Total Deferred Outflows of Resources	8,723,865	7,545,366	-	16,269,231
Liabilities and Net Position				
Liabilities				
Current Liabilities	29,501,359	3,745,556	789,063	34,035,978
Non-Current Liabilities	150,796,046	88,247,692	3,715,609	242,759,347
Total Liabilities	180,297,405	91,993,248	4,504,672	276,795,325
Deferred Inflows of Resources				
Pension: Changes in Assumptions	27,086	5,032	-	32,118
Pension: Difference Between Projected and Actual Earnings on Investments	(165,256)	165,256	-	-
OPEB: Changes in Assumptions	273,297	48,229	-	321,526
Proceeds from Sale of Future Revenues	-	3,967,975	-	3,967,975
Total Deferred Inflows of Resources	135,127	4,186,492	-	4,321,619
Net Position				
Net Investment in Capital Assets	156,941,099	53,025,395	6,112,537	216,079,031
Restricted for Capital Activity	5,071,173	6,352,002	654,434	12,077,609
Restricted for Debt Service	25,520,284	5,993,716	-	31,514,000
Unrestricted	14,995,576	30,004,441	(6,766,971)	38,233,046
Total Net Position	$ 202,528,132	$ 95,375,554	$ -	$ 297,903,686

BUCKS COUNTY WATER AND SEWER AUTHORITY
NOTES TO THE FINANCIAL STATEMENTS (CONTINUED)
DECEMBER 31, 2019 AND 2018

NOTE 6: SEGMENT INFORMATION (CONTINUED)

Assets	2018 Sewer System	2018 Water System	2018 Administrative Account	2018 Totals
Current Assets				
Cash and Investments	$ 13,996,611	$ 9,258,718	$ 1,343,631	$ 24,598,960
Accounts Receivable, Unbilled Revenue and Net Intercompany Transfers	6,114,899	18,137,594	(6,574,182)	17,678,311
Other	610,549	85,000	-	695,549
Non-Current Assets				
Restricted Assets	47,524,162	12,202,731	3,988,462	63,715,355
Capital Assets	293,945,954	145,484,365	5,383,895	444,814,214
Total Assets	362,192,175	185,168,408	4,141,806	551,502,389
Deferred Outflows of Resources				
Deferred Amount from Debt Refundings	3,503,369	6,462,562	-	9,965,931
Pension: Changes in Assumptions	632,513	155,628	-	788,141
Pension: Difference Between Expected and Actual Experience	162,431	40,607	-	203,038
Pension: Contributions Made Subsequent to Measurement Date	6,428,229	1,607,056	-	8,035,285
Total Deferred Outflows of Resources	10,726,542	8,265,853	-	18,992,395
Liabilities and Net Position				
Liabilities				
Current Liabilities	24,140,550	3,373,492	645,278	28,159,320
Non-Current Liabilities	156,519,961	91,561,281	3,496,528	251,577,770
Total Liabilities	180,660,511	94,934,773	4,141,806	279,737,090
Deferred Inflows of Resources				
Pension: Changes in Assumptions	36,187	6,638	-	42,825
Pension: Difference Between Projected and Actual Earnings on Investments	2,478,081	619,520	-	3,097,601
Proceeds from the Sale of Future Revenues	-	4,140,496	-	4,140,496
Total Deferred Inflows of Resources	2,514,268	4,766,654	-	7,280,922
Net Position				
Net Investment in Capital Assets	129,539,966	61,197,479	5,383,898	196,121,343
Restricted for Capital Activity	18,722,168	-	491,930	19,214,098
Restricted for Debt Service	28,801,994	6,333,246	-	35,135,240
Unrestricted	12,679,810	26,202,109	(5,875,828)	33,006,091
Total Net Position	$ 189,743,938	$ 93,732,834	$ -	$ 283,476,772

BUCKS COUNTY WATER AND SEWER AUTHORITY
STATEMENTS OF NET POSITION
DECEMBER 31, 2019 AND 2018

ASSETS	2019	2018
Current Assets		
Cash and Cash Equivalents	$ 5,870,876	$ 3,803,232
Investments	23,051,730	20,795,728
Accounts Receivable, Net of Allowance for Doubtful Accounts	6,175,101	7,707,994
Unbilled Revenue Receivable	9,020,572	9,970,317
Prepaid Expenses	692,186	695,549
Total Current Assets	44,810,465	42,972,820
Non-Current Assets		
Restricted Assets		
Cash and Cash Equivalents	3,922,837	3,541,256
Investments	60,095,138	59,883,991
Interest Receivable	748,766	290,108
Total Restricted Assets	64,766,741	63,715,355
Capital Assets		
Land, Rights-of-Way and CIP	77,851,553	79,376,857
Other Capital Assets, Net of Accumulated Depreciation	375,322,640	365,437,357
Total Capital Assets, Net	453,174,193	444,814,214
Total Non-Current Assets	517,940,934	508,529,569
Total Assets	562,751,399	551,502,389
Deferred Outflows of Resources		
Deferred Amount from Debt Refundings	8,818,011	9,965,931
Pension: Changes in Assumptions	591,106	788,141
Pension: Difference Between Expected and Actual Experience	805,127	203,038
Pension: Difference Between Projected and Actual Earnings on Investments	1,691,386	-
Pension: Contributions Made Subsequent to Measurement Date	4,326,752	8,035,285
OPEB: Difference Between Expected and Actual Experience	34,877	-
OPEB: Difference Between Projected and Actual Earnings on Plan Investments	1,972	-
Total Deferred Outflows of Resources	16,269,231	18,992,395
LIABILITIES AND NET POSITION		
Current Liabilities		
Accounts Payable and Accrued Expenses	11,887,091	6,872,214
Current Portion of Bonds Payable	21,345,000	20,460,000
Interest Payable	803,887	827,106
Total Current Liabilities	34,035,978	28,159,320
Non-Current Liabilities		
Customer and Developer Deposits	3,715,610	3,496,528
Bonds Payable, Net of Unamortized Bond Discount and Premium	233,209,683	239,927,805
Net Pension Liability	1,880,256	2,296,351
Net OPEB Liability	3,953,798	5,857,086
Total Non-Current Liabilities	242,759,347	251,577,770
Total Liabilities	276,795,325	279,737,090
Deferred Inflows of Resources		
Pension: Changes in Assumptions	32,118	42,825
Pension: Difference Between Projected and Actual Earnings on Investments	-	3,097,601
OPEB: Changes in Assumptions	321,526	-
Proceeds from Sale of Future Revenues	3,967,975	4,140,496
Total Deferred Inflows of Resources	4,321,619	7,280,922
Net Position		
Net Investment in Capital Assets	216,079,031	196,121,343
Restricted for Capital Activity	12,077,609	19,214,098
Restricted for Debt Service	31,514,000	35,135,240
Unrestricted	38,233,046	33,006,091
Total Net Position	$ 297,903,686	$ 283,476,772

See accompanying notes to the financial statements.

BUCKS COUNTY WATER AND SEWER AUTHORITY
STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION
YEARS ENDED DECEMBER 31, 2019 AND 2018

	2019	2018
Operating Revenues		
Retail Sewer Service	$ 49,612,675	$ 48,634,267
Wholesale Sewer Service	20,728,839	19,105,200
Retail Water Service	11,481,175	11,755,194
Wholesale Water Service	4,315,851	4,357,235
Improvement and Tapping Fees	580,375	279,425
Other Revenues	5,875,885	4,697,553
Total Operating Revenues	92,594,800	88,828,874
Expenses		
Operating Expenses		
Sewage Treatment and Water Procurement		
Sewage Treatment	20,534,850	20,862,709
Water Procurement	5,352,970	5,611,587
Total Sewage Treatment and Water Procurement	25,887,820	26,474,296
Plant Operations		
Payroll and Related Costs	1,927,213	1,592,995
Repairs and Maintenance	1,292,778	1,251,844
Electricity	405,213	461,808
Water and Sewage Testing	256,279	218,091
Total Plant Operations	3,881,483	3,524,738
Collection, Transmission and Distribution Service		
Payroll and Related Costs	9,070,825	8,191,888
Repairs and Maintenance	2,347,631	1,992,003
Electricity	807,210	995,191
Other Related Costs	274,544	298,459
Total Collection, Transmission and Distribution Service	12,500,210	11,477,541
Total Operating Expenses	42,269,513	41,476,575
General and Administrative Expenses		
Payroll and Related Costs	4,536,162	6,780,772
Professional Fees	2,732,816	1,981,255
Insurance	522,165	476,597
Other	3,199,536	4,933,790
Total General and Administrative Expense	10,990,679	14,172,414
Total Expenses	53,260,192	55,648,989
Income From Operations Before Depreciation	39,334,608	33,179,885
Depreciation	(19,513,044)	(18,063,567)
Operating Income	19,821,564	15,116,318
Nonoperating Revenue (Expense)		
Interest Expense,		
Net of Amounts Capitalized	(8,517,857)	(9,017,615)
Investment Income	2,078,449	2,015,753
Other	-	4,824
Improvement and Tapping Fees	1,262,884	2,750,737
Amortization	(218,126)	(51,377)
Total Nonoperating Expense	(5,394,650)	(4,297,678)
Increase In Net Position, Before Contributed Capital	14,426,914	10,818,640
Contributed Capital	-	779,914
Net Position - Beginning of Year, as Previously Reported	283,476,772	275,130,457
Adjustment for GASB No. 75	-	(3,252,239)
Net Position - Beginning of Year, Restated	283,476,772	271,878,218
Net Position - End of Year	$ 297,903,686	$ 283,476,772

See accompanying notes to the financial statements.

BUCKS COUNTY WATER AND SEWER AUTHORITY
NOTES TO THE FINANCIAL STATEMENTS (CONTINUED)
DECEMBER 31, 2018 AND 2017

NOTE 6: SEGMENT INFORMATION

As of and for the years ended December 31, 2018 and 2017 segment information is as follows:

	2018			
Assets	Sewer System	Water System	Administrative Account	Totals
Current Assets				
Cash and Investments	$ 13,996,611	$ 9,258,718	$ 1,343,631	$ 24,598,960
Accounts Receivable and Unbilled Revenue	6,114,899	18,137,594	(6,574,182)	17,678,311
Other	610,549	85,000	-	695,549
Non-Current Assets				
Restricted Assets	47,524,162	12,202,731	3,988,462	63,715,355
Capital Assets	293,945,954	145,484,365	5,383,895	444,814,214
Total Assets	362,192,175	185,168,408	4,141,806	551,502,389
Deferred Outflows of Resources				
Deferred Amount from Debt Refundings	3,503,369	6,462,562	-	9,965,931
Changes in Assumptions	632,513	155,628	-	788,141
Difference Between Expected and Actual Experience	162,431	40,607	-	203,038
Contributions Made Subsequent to Measurement Date	6,428,229	1,607,056	-	8,035,285
Total Deferred Outflows of Resources	10,726,542	8,265,853	-	18,992,395
Liabilities and Net Position				
Liabilities				
Current Liabilities	24,140,550	3,373,492	645,278	28,159,320
Non-Current Liabilities	156,519,961	91,561,281	3,496,528	251,577,770
Total Liabilities	180,660,511	94,934,773	4,141,806	279,737,090
Deferred Inflows of Resources				
Changes in Assumptions	36,187	6,638	-	42,825
Difference Between Projected and Actual Earnings on Investments	2,478,081	619,520	-	3,097,601
Proceeds from the Sale of Future Revenues	-	4,140,496	-	4,140,496
Total Deferred Inflows of Resources	2,514,268	4,766,654	-	7,280,922
Net Position				
Net Investment in Capital Assets	129,539,966	61,197,479	5,383,898	196,121,343
Restricted for Capital Activity	18,722,168	-	491,930	19,214,098
Restricted for Debt Service	28,801,994	6,333,246	-	35,135,240
Unrestricted	12,679,810	26,202,109	(5,875,828)	33,006,091
Total Net Position	$ 189,743,938	$ 93,732,834	$ -	$ 283,476,772

BUCKS COUNTY WATER AND SEWER AUTHORITY
NOTES TO THE FINANCIAL STATEMENTS (CONTINUED)
DECEMBER 31, 2018 AND 2017

NOTE 6: SEGMENT INFORMATION (CONTINUED)

	2018		
	Sewer System	Water System	Totals
Operating Revenues			
Retail Sewer Service	$ 48,634,267	$ -	$ 48,634,267
Wholesale Sewer Service	19,105,200	-	19,105,200
Retail Water Service	-	11,755,194	11,755,194
Wholesale Water Service	-	4,357,235	4,357,235
Improvement and Tapping Fees	-	279,425	279,425
Other Revenues	3,130,165	1,567,388	4,697,553
Total Operating Revenues	70,869,632	17,959,242	88,828,874
Expenses			
Operating Expenses			
Sewage Treatment and Water Procurement			
Sewage Treatment	20,862,709	-	20,862,709
Water Procurement	-	5,611,587	5,611,587
Total Sewage and Water Procurement	20,862,709	5,611,587	26,474,296
Plant Operations			
Payroll and Related Costs	1,592,995	-	1,592,995
Repairs and Maintenance	1,251,844	-	1,251,844
Electricity	461,808	-	461,808
Water and Sewage Testing	218,091	-	218,091
Total Plant Operations	3,524,738	-	3,524,738
Collection, Transmission and Distribution Service			
Payroll and related costs	6,404,591	1,787,297	8,191,888
Repairs and maintenance	1,660,514	331,489	1,992,003
Electricity	822,812	172,379	995,191
Other related costs	209,224	89,235	298,459
Total Collection, Transmission and Distribution	9,097,141	2,380,400	11,477,541
Service Expense			
Total Operating Expense	33,484,588	7,991,987	41,476,575
General and Administrative Expenses			
Payroll and related costs	5,714,319	1,066,453	6,780,772
Professional fees	1,747,815	233,440	1,981,255
Insurance	395,522	81,075	476,597
Other	4,821,938	111,852	4,933,790
Total General and Administrative Expenses	12,679,594	1,492,820	14,172,414
Income from Operations before depreciation	24,705,450	8,474,435	33,179,885
Depreciation	(14,696,296)	(3,367,271)	(18,063,567)
Operating Income	10,009,154	5,107,164	15,116,318
Nonoperating Revenue (Expense)			
Interest Expense, net of Amounts Capitalized	(5,405,915)	(3,611,700)	(9,017,615)
Investment Income	1,623,182	392,571	2,015,753
Other	4,824	-	4,824
Improvement and Tapping Fees	2,750,737	-	2,750,737
Amortization	(51,377)	-	(51,377)
Total Nonoperating Expense	(1,078,549)	(3,219,129)	(4,297,678)
Increase in Net Position, Before Contributed Capital	8,930,605	1,888,035	10,818,640
Contributed Capital	710,204	69,710	779,914
Net Position - Beginning of Year, as Previously Reported	182,867,532	92,262,925	275,130,457
Adjustment for GASB No. 75	(2,764,403)	(487,836)	(3,252,239)
Net Position - Beginning of Year, Restated	180,103,129	91,775,089	271,878,218
Net Position, End of Year	$ 189,743,938	$ 93,732,834	$ 283,476,772

BUCKS COUNTY WATER AND SEWER AUTHORITY
NOTES TO THE FINANCIAL STATEMENTS (CONTINUED)
DECEMBER 31, 2018 AND 2017

NOTE 6: SEGMENT INFORMATION (CONTINUED)

	2018			
	Sewer System	Water System	Administrative Account	Totals
Cash Flows from Operating Activities				
Cash Received from Customers	$ 72,660,789	$ 17,539,631	$ -	$ 90,200,420
Payments to Suppliers	(31,373,585)	(6,551,971)	-	(37,925,556)
Payroll and Related Payments	(13,711,973)	(3,095,494)	-	(16,807,467)
Other Operating (Payments) / Transactions	12,644,098	(13,022,354)	222,511	(155,745)
Net Cash Provided from Operations	40,219,329	(5,130,188)	222,511	35,311,652
Cash Flows from Capital and Related Financing Activities				
Acquisition and Construction of Capital Assets	(12,799,197)	(860,416)	(191,958)	(13,851,571)
Improvement and Tapping Fees	2,750,737	-	-	2,750,737
Bond Principal Repayments	(17,784,999)	(2,475,000)	-	(20,259,999)
Interest Paid	(6,364,234)	(3,537,201)	-	(9,901,435)
Net Cash Used in Capital and Related Financing Activities	(34,197,693)	(6,872,617)	(191,958)	(41,262,268)
Cash Flows from Investing Activities				
Sale of Investments, Net	(5,599,131)	12,069,155	-	6,470,024
Interest Received	14,790	392,571	-	407,361
Net Cash Used in Investing Activities	(5,584,341)	12,461,726	-	6,877,385
Net Increase (Decrease) in Cash and Cash Equivalents	437,295	458,921	30,553	926,769
Cash and Cash Equivalents - Beginning of Year	1,529,900	33,485	4,854,334	6,417,719
Cash and Cash Equivalents - End of Year	$ 1,967,195	$ 492,406	$ 4,884,887	$ 7,344,488
Displayed as:				
Cash and Cash Equivalents	$ 1,967,195	$ 492,406	$ 1,343,631	$ 3,803,232
Restricted Cash and Cash Equivalents	-	-	3,541,256	3,541,256
	$ 1,967,195	$ 492,406	$ 4,884,887	$ 7,344,488
Reconciliation of Operating Income to Net Cash Provided from Operations:				
Operating Income	$ 10,009,154	$ 5,107,164	$ -	$ 15,116,318
Adjustments to Reconcile Operating Income to Net Cash Provided from Operating Activities				
Depreciation	14,696,296	3,367,271	-	18,063,567
Changes in Assets and Liabilities:				
Receivables and Unbilled Revenue, Net	3,276,483	(247,091)	-	3,029,392
Prepaid Expenses	(34,155)	(5,410)	-	(39,565)
Intercompany Receivables (Payables)	12,685,022	(13,036,180)	351,158	-
Accounts Payable and Accrued Expenses	531,336	(121,266)	(164,592)	245,478
Interest Payable	(37,555)	16,262	-	(21,293)
Customer and Developer Deposits	-	-	35,945	35,945
Net Pension and OPEB Liabilities and Related Pension Deferrals	(907,252)	(210,938)	-	(1,118,190)
Net Cash Provided from Operations	$ 40,219,329	$ (5,130,188)	$ 222,511	$ 35,311,652

ALLEGHENY COUNTY SANITARY AUTHORITY

STATEMENTS OF NET POSITION

DECEMBER 31, 2020 AND 2019

Assets and Deferred Outflows of Resources

	2020	2019
Assets:		
Current assets:		
Cash and cash equivalents	$ 209,431,473	$ 175,476,686
Accounts receivable:		
Billed sewer revenue	20,446,710	16,702,983
Unbilled sewer revenue	44,044,901	43,666,409
Other	4,734	30,225
Other current assets	6,634,434	6,604,244
Total current assets	280,562,252	242,480,547
Restricted/designated assets:		
Cash and cash equivalents	272,815,362	150,150,904
Investments	-	84,963,478
Accrued interest receivable	-	375,444
Total restricted/designated assets	272,815,362	235,489,826
Prepaid bond costs	5,815,062	6,591,319
Nondepreciable capital assets:		
Land	5,344,896	5,344,896
Construction in progress	94,302,298	81,287,241
Total nondepreciable capital assets	99,647,194	86,632,137
Depreciable capital assets - at cost, net of accumulated depreciation	543,854,942	542,465,808
Total	643,502,136	629,097,945
Total Assets	1,202,694,812	1,113,659,637
Deferred Outflows of Resources:		
Related to pensions	27,581,534	35,676,281
Other post-retirement benefits	1,758,333	853,236
Refunding adjustment	5,247,763	6,278,101
Total Deferred Outflows of Resources	34,587,630	42,807,618
Total Assets and Deferred Outflows of Resources	$ 1,237,282,442	$ 1,156,467,255

Liabilities, Deferred Inflows of Resources, and Net Position

	2020	2019
Liabilities:		
Current liabilities:		
Accounts payable	$ 6,092,972	$ 7,349,003
Accrued liabilities:		
Compensated absences	5,950,167	4,994,678
Salaries and wages	1,985,019	1,751,181
Accrued interest on bonds	2,592,551	2,638,762
Reserve for litigation	2,371,900	2,371,900
Pretreatment advance payments	2,600	1,850
Current maturities of sewer revenue bonds	28,785,000	27,635,000
Total current liabilities	47,780,209	46,742,374
Long-term liabilities:		
Other post-employment benefits	13,901,968	12,087,137
Net pension liability	7,266,922	28,684,748
Sewer revenue bonds - less current maturities	670,495,000	650,300,000
Unamortized bond premium	67,960,993	50,763,732
Net long-term debt	738,455,993	701,063,732
Total long-term liabilities	759,624,883	741,835,617
Total Liabilities	807,405,092	788,577,991
Deferred Inflows of Resources:		
Related to pensions	25,133,372	9,341,236
Other post-retirement benefits	3,169,749	1,904,424
Total Deferred Inflows of Resources	28,303,121	11,245,660
Net Position:		
Net investment in capital assets	154,324,268	142,167,140
Unrestricted	247,249,961	214,476,464
Total Net Position	401,574,229	356,643,604
Total Liabilities, Deferred Inflows of Resources, and Net Position	$ 1,237,282,442	$ 1,156,467,255

The notes to financial statements are an integral part of this statement.

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ALLEGHENY COUNTY SANITARY AUTHORITY

STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION

YEARS ENDED DECEMBER 31, 2020 AND 2019

	2020	2019
Operating Revenues	$ 186,799,875	$ 180,238,305
Operating Expenses:		
Treatment	50,981,608	49,805,868
Intercepting sewer systems	8,771,952	8,753,813
Upper Allegheny system	307,944	298,412
Administrative and engineering	15,682,596	15,962,845
Billing and collecting	4,461,391	3,572,073
Management information systems	4,071,959	3,690,385
Total operating expenses before depreciation	84,277,450	82,083,396
Operating Income Before Depreciation	102,522,425	98,154,909
Depreciation	22,374,952	22,772,539
Operating Income	80,147,473	75,382,370
Non-operating Revenues (Expenses):		
Interest income	2,002,687	8,966,272
Interest expense on bonds	(27,485,399)	(28,261,390)
Amortization of prepaid bond costs	(516,597)	(596,640)
Loss on capital assets retired	(4,573,423)	-
Change in value of pension related items	(2,469,057)	(4,177,854)
Change in value of OPEB related items	(2,175,059)	(774,061)
Total non-operating revenues (expenses)	(35,216,848)	(24,843,673)
Change in Net Position	44,930,625	50,538,697
Net Position:		
Beginning of year	356,643,604	306,104,907
End of year	$ 401,574,229	$ 356,643,604

The notes to financial statements are an integral part of this statement.

ALLEGHENY COUNTY SANITARY AUTHORITY

STATEMENTS OF NET POSITION

DECEMBER 31, 2019 AND 2018

Assets and Deferred Outflows of Resources

	2019	2018
Assets:		
Current assets:		
Cash and cash equivalents	$ 175,476,686	$ 142,482,220
Accounts receivable:		
Billed sewer revenue	16,702,983	16,544,587
Unbilled sewer revenue	43,666,409	41,408,016
Other	30,225	4,469
Other current assets	6,604,244	6,556,274
Total current assets	242,480,547	206,995,566
Restricted/designated assets:		
Cash and cash equivalents	150,150,904	83,445,720
Investments	84,963,478	167,782,528
Accrued interest receivable	375,444	622,842
Total restricted/designated assets	235,489,826	251,851,090
Prepaid bond costs	6,591,319	7,187,959
Nondepreciable capital assets:		
Land	5,344,896	5,344,896
Construction in progress	81,287,241	59,836,813
Total nondepreciable capital assets	86,632,137	65,181,709
Depreciable capital assets - at cost, net of accumulated depreciation	542,465,808	557,161,609
Total	629,097,945	622,343,318
Net pension asset	-	2,705,577
Total Assets	1,113,659,637	1,091,083,510
Deferred Outflows of Resources:		
Related to pensions	35,676,281	17,633,917
Other post-retirement benefits	853,236	932,894
Refunding adjustment	6,278,101	7,077,328
Total Deferred Outflows of Resources	42,807,618	25,644,139
Total Assets and Deferred Outflows of Resources	$ 1,156,467,255	$ 1,116,727,649

Liabilities, Deferred Inflows of Resources, and Net Position

	2019	2018
Liabilities:		
Current liabilities:		
Accounts payable	$ 7,349,003	$ 7,180,579
Accrued liabilities:		
Compensated absences	4,994,678	4,539,483
Salaries and wages	1,751,181	1,529,529
Accrued interest on bonds	2,638,762	2,745,875
Reserve for litigation	2,371,900	2,371,900
Pretreatment advance payments	1,850	24,375
Current maturities of sewer revenue bonds	27,635,000	26,630,000
Total current liabilities	46,742,374	45,021,741
Long-term liabilities:		
Other post-employment benefits	12,087,137	13,297,158
Net pension liability	28,684,748	6,121,872
Sewer revenue bonds - less current maturities	650,300,000	677,935,000
Unamortized bond premium	50,763,732	55,857,500
Net long-term debt	701,063,732	733,792,500
Total long-term liabilities	741,835,617	753,211,530
Total Liabilities	788,577,991	798,233,271
Deferred Inflows of Resources:		
Related to pensions	9,341,236	12,389,471
Other post-retirement benefits	1,904,424	-
Total Deferred Inflows of Resources	11,245,660	12,389,471
Net Position:		
Net investment in capital assets	142,167,140	120,849,236
Unrestricted	214,476,464	185,255,671
Total Net Position	356,643,604	306,104,907
Total Liabilities, Deferred Inflows of Resources, and Net Position	$ 1,156,467,255	$ 1,116,727,649

The notes to financial statements are an integral part of this statement.

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ALLEGHENY COUNTY SANITARY AUTHORITY

STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION

YEARS ENDED DECEMBER 31, 2019 AND 2018

	2019	2018
Operating Revenues	$ 180,238,305	$ 169,724,327
Operating Expenses:		
Treatment	49,805,868	47,633,280
Intercepting sewer systems	8,753,813	8,490,808
Upper Allegheny system	298,412	563,244
Administrative and engineering	15,962,845	14,736,160
Billing and collecting	3,572,073	3,482,212
Management information systems	3,690,385	3,723,344
Total operating expenses before depreciation	82,083,396	78,629,048
Operating Income Before Depreciation	98,154,909	91,095,279
Depreciation	22,772,539	23,071,589
Operating Income	75,382,370	68,023,690
Non-operating Revenues (Expenses):		
Interest income, net of amounts capitalized	8,966,272	3,127,451
Interest expense on bonds	(28,261,390)	(20,735,872)
Amortization of prepaid bond costs	(596,640)	(629,995)
Change in value of pension related items	(4,177,854)	(61,702)
Change in value of OPEB related items	(774,061)	(789,172)
Total non-operating revenues (expenses)	(24,843,673)	(19,089,290)
Change in Net Position	50,538,697	48,934,400
Net Position:		
Beginning of year	306,104,907	257,170,507
End of year	$ 356,643,604	$ 306,104,907

The notes to financial statements are an integral part of this statement.

ALLEGHENY COUNTY SANITARY AUTHORITY

STATEMENTS OF NET POSITION

DECEMBER 31, 2018 AND 2017

Assets and Deferred Outflows of Resources	2018	2017
Assets:		
Current assets:		
Cash and cash equivalents	$ 142,482,220	$ 119,248,255
Accounts receivable:		
Billed sewer revenue	16,544,587	17,185,654
Unbilled sewer revenue	41,408,016	40,232,780
Other	4,469	4,635
Other current assets	6,556,274	6,432,263
Total current assets	206,995,566	183,103,587
Restricted/designated assets:		
Cash and cash equivalents	83,445,720	100,289,509
Investments	167,782,528	-
Accrued interest receivable	622,842	-
Total restricted/designated assets	251,851,090	100,289,509
Prepaid bond costs	7,187,959	6,472,479
Nondepreciable capital assets:		
Land	5,344,896	5,344,896
Construction in progress	59,836,813	38,371,565
Total nondepreciable capital assets	65,181,709	43,716,461
Depreciable capital assets - at cost, net of accumulated depreciation	557,161,609	564,883,734
Total	622,343,318	608,600,195
Net pension asset	2,705,577	-
Total Assets	1,091,083,510	898,465,770
Deferred Outflows of Resources:		
Related to pensions	17,633,917	21,247,515
Other post-retirement benefits	932,894	-
Refunding adjustment	7,077,328	8,074,203
Total Deferred Outflows of Resources	25,644,139	29,321,718
Total Assets and Deferred Outflows of Resources	$ 1,116,727,649	$ 927,787,488

Liabilities, Deferred Inflows of Resources, and Net Position	2018	2017
Liabilities:		
Current liabilities:		
Accounts payable	$ 7,180,579	$ 7,167,120
Accrued liabilities:		
Compensated absences	4,539,483	4,689,828
Salaries and wages	1,529,529	1,441,024
Accrued interest on bonds	2,745,875	2,260,535
Reserve for litigation	2,371,900	2,371,900
Pretreatment advance payments	24,375	71,600
Current maturities of sewer revenue bonds	26,630,000	25,395,000
Total current liabilities	45,021,741	43,397,007
Long-term liabilities:		
Other post-employment benefits	13,297,158	6,199,726
Net pension liability	6,121,872	16,421,705
Sewer revenue bonds - less current maturities	677,935,000	547,335,000
Unamortized bond premium	55,857,500	48,952,220
Net long-term debt	733,792,500	596,287,220
Total long-term liabilities	753,211,530	618,908,651
Total Liabilities	798,233,271	662,305,658
Deferred Inflows of Resources:		
Related to pensions	12,389,471	2,935,957
Net Position:		
Net investment in capital assets	120,849,236	95,281,689
Unrestricted	185,255,671	167,264,184
Total Net Position	306,104,907	262,545,873
Total Liabilities, Deferred Inflows of Resources, and Net Position	$ 1,116,727,649	$ 927,787,488

The notes to financial statements are an integral part of this statement.

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ALLEGHENY COUNTY SANITARY AUTHORITY

STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION

YEARS ENDED DECEMBER 31, 2018 AND 2017

	2018	2017
Operating Revenues	$ 169,724,327	$ 170,182,173
Operating Expenses:		
Treatment	47,633,280	44,821,531
Intercepting sewer systems	8,490,808	7,100,846
Upper Allegheny system	563,244	487,512
Administrative and engineering	14,736,160	13,772,696
Billing and collecting	3,482,212	4,439,250
Management information systems	3,723,344	3,778,272
Total operating expenses before depreciation	78,629,048	74,400,107
Operating Income Before Depreciation	91,095,279	95,782,066
Depreciation	23,071,589	22,426,718
Operating Income	68,023,690	73,355,348
Non-operating Revenues (Expenses):		
Interest income, net of amounts capitalized	3,127,451	1,096,517
Interest expense on bonds, net of amounts capitalized	(20,735,872)	(21,544,440)
Amortization of prepaid bond costs	(629,995)	(693,501)
Change in value of pension related items	(61,702)	(3,196,667)
Change in value of OPEB related items	(789,172)	-
Total non-operating revenues (expenses)	(19,089,290)	(24,338,091)
Change in Net Position	48,934,400	49,017,257
Net Position:		
Beginning of year, as restated for 2018	257,170,507	213,528,616
End of year	$ 306,104,907	$ 262,545,873

The notes to financial statements are an integral part of this statement.

CAPITAL REGION WATER

BALANCE SHEETS

DECEMBER 31, 2020 AND 2019

	2020	2019
Assets and Deferred Outflows of Resources		
Assets:		
Current assets:		
Cash and cash equivalents	$ 33,125,086	$ 37,818,930
Accounts receivable, net of allowance for uncollectible accounts of $6,812,663 and $6,179,939	12,990,450	11,392,879
Grants receivable	207,125	481,413
Due from the City of Harrisburg	3,247,428	3,030,340
Prepaid expenses	631,891	407,379
Inventory	226,727	219,675
Total current assets	50,428,707	53,350,616
Restricted assets:		
Cash and cash equivalents - restricted under trust indentures and guarantee agreement	10,339,323	10,728,097
Investments - restricted under trust indentures	19,133,382	23,792,020
Total restricted assets	29,472,705	34,520,117
Noncurrent assets:		
Capital assets, not being depreciated	41,304,196	25,938,916
Capital assets, net of accumulated depreciation of $138,312,983 and $132,254,413	182,981,052	177,481,346
Net pension asset	793,994	-
Total noncurrent assets	225,079,242	203,420,262
Total Assets	304,980,654	291,290,995
Deferred Outflows of Resources:		
Deferred loss on refunding	6,138,866	6,849,812
Deferred outflows of resources for other postemployment benefits	154,587	78,714
Deferred outflows of resources for pension	1,018,573	1,518,157
Total Deferred Outflows of Resources	7,312,026	8,446,683
Total Assets and Deferred Outflows of Resources	$ 312,292,680	$ 299,737,678

CAPITAL REGION WATER

STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION

YEARS ENDED DECEMBER 31, 2020 AND 2019

	2020	2019
Operating Revenues:		
User charges	$ 46,053,281	$ 47,556,016
Total operating revenues	46,053,281	47,556,016
Operating Expenses:		
Operating	15,078,242	14,776,480
Administrative	5,832,986	5,788,495
Depreciation	6,058,571	5,654,952
Total operating expenses	26,969,799	26,219,927
Operating Income	19,083,482	21,336,089
Non-Operating Revenues (Expenses):		
Investment income	426,489	1,193,936
Grant revenue	177,024	1,184,617
Gain on sale of easements	191,516	40,000
Miscellaneous income (expense)	921,942	606,499
Gain (loss) on disposal of capital assets	2,000	(74,363)
Interest expense	(5,725,558)	(5,836,796)
Total non-operating revenues (expenses)	(4,006,587)	(2,886,107)
Change in Net Position	15,076,895	18,449,982
Net Position:		
Beginning of year	94,622,873	76,172,891
End of year	$109,699,768	$ 94,622,873

The accompanying notes are an integral part of these financial statements.

CAPITAL REGION WATER

BALANCE SHEET

DECEMBER 31, 2019

(with comparative totals as of December 31, 2018)

Assets and Deferred Outflows of Resources	2019	2018
Assets:		
Current assets:		
Cash and cash equivalents	$ 37,818,930	$ 48,169,716
Accounts receivable, net of allowance for uncollectible accounts of $6,179,939 and $5,914,774	11,392,879	10,001,747
Grants receivable	481,413	905,431
Due from the City of Harrisburg	3,030,340	3,686,285
Prepaid expenses	407,379	403,089
Inventory	219,675	347,960
Total current assets	53,350,616	63,514,228
Restricted assets:		
Cash and cash equivalents - restricted under trust indentures and guarantee agreement	10,728,097	19,430,292
Investments - restricted under trust indentures	23,792,020	19,433,058
Total restricted assets	34,520,117	38,863,350
Noncurrent assets:		
Capital assets, not being depreciated	25,938,916	16,946,141
Capital assets, net of accumulated depreciation of $132,254,413 and $128,988,007	177,481,346	160,175,578
Net pension asset	-	1,009,658
Total noncurrent assets	203,420,262	178,131,377
Total Assets	291,290,995	280,508,955
Deferred Outflows of Resources:		
Deferred loss on refunding	6,849,812	7,877,263
Deferred outflows of resources for other postemployment benefits	78,714	77,533
Deferred outflows of resources for pension	1,518,157	651,522
Total Deferred Outflows of Resources	8,446,683	8,606,318
Total Assets and Deferred Outflows of Resources	$ 299,737,678	$ 289,115,273

CAPITAL REGION WATER

STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION

YEAR ENDED DECEMBER 31, 2019

(with comparative totals for the year ended December 31, 2018)

	2019	2018
Operating Revenues:		
User charges	$ 47,556,016	$ 44,895,271
Total operating revenues	47,556,016	44,895,271
Operating Expenses:		
Operating	14,776,480	13,894,496
Administrative	5,788,495	5,293,225
Depreciation	5,654,952	5,394,021
Total operating expenses	26,219,927	24,581,742
Operating Income	21,336,089	20,313,529
Non-Operating Revenues (Expenses):		
Investment income	1,193,936	568,004
Grant revenue	1,184,617	1,502,468
Gain on sale of easements	40,000	4,838,927
Miscellaneous income (expense)	606,499	(180,383)
Loss on disposal of capital assets	(74,363)	-
Interest expense	(5,836,796)	(6,812,458)
Total non-operating revenues (expenses)	(2,886,107)	(83,442)
Change in Net Position	18,449,982	20,230,087
Net Position:		
Beginning of year	76,172,891	55,942,804
End of year	$ 94,622,873	$ 76,172,891

The accompanying notes are an integral part of these financial statements.

CAPITAL REGION WATER

BALANCE SHEET

DECEMBER 31, 2018

Assets and Deferred Outflows of Resources	
Assets:	
Current assets:	
Cash and cash equivalents	$ 48,169,716
Accounts receivable, net of allowance for uncollectible accounts of $5,914,774	10,001,747
Grants receivable	905,431
Due from the City of Harrisburg	3,686,285
Prepaid expenses	403,089
Inventory	347,960
Total current assets	63,514,228
Restricted assets:	
Cash and cash equivalents - restricted under trust indentures and guarantee agreement	19,430,292
Investments - restricted under trust indentures	19,433,058
Total restricted assets	38,863,350
Noncurrent assets:	
Capital assets, not being depreciated	16,946,141
Capital assets, net of accumulated depreciation of $128,988,007	160,175,578
Net pension asset	1,009,658
Total noncurrent assets	178,131,377
Total Assets	280,508,955
Deferred Outflows of Resources:	
Deferred loss on refunding	7,877,263
Deferred outflows of resources for other postemployment benefits	77,533
Deferred outflows of resources for pension	651,522
Total Deferred Outflows of Resources	8,606,318
Total Assets and Deferred Outflows of Resources	$ 289,115,273

CAPITAL REGION WATER

STATEMENT OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION

YEAR ENDED DECEMBER 31, 2018

Operating Revenues:	
User charges	$ 44,895,271
Total operating revenues	44,895,271
Operating Expenses:	
Operating	13,894,496
Administrative	5,293,225
Depreciation	5,394,021
Total operating expenses	24,581,742
Operating Income	20,313,529
Non-Operating Revenues (Expenses):	
Investment income	568,004
Grant revenue	1,502,468
Gain on sale of easements	4,838,927
Miscellaneous expense	(180,383)
Interest expense	(6,812,458)
Total non-operating revenues (expenses)	(83,442)
Change in Net Position	20,230,087
Net Position:	
Beginning of year - restated	55,942,804
End of year	$ 76,172,891

The accompanying notes are an integral part of these financial statements.

CITY OF ALTOONA
BLAIR COUNTY, PENNSYLVANIA
STATEMENT OF NET POSITION
DECEMBER 31, 2020
(AMOUNTS EXPRESSED IN WHOLE DOLLARS)

	PRIMARY GOVERNMENT	COMPONENT UNITS		
	Governmental Activities	Altoona Water Authority	Redevelopment Authority of Altoona	The Parking Authority of the City of Altoona
ASSETS				
Cash and Cash Equivalents	$ 31,413,012	$ 5,350,729	$ 246,634	$ 128,655
Investments	237,289	10,115,673	0	0
Taxes Receivable	4,127,451	0	0	0
Accounts Receivable	0	3,890,554	0	692
Intergovernmental Receivables	200,975	0	0	0
Loans Receivable - Current	687,316	0	9,826	0
Other Receivables	537,728	8,295	0	0
Prepaid Expenses	302,750	228,189	0	1,017
Inventory	406,484	0	0	0
Loans Receivable - Long-Term	5,731,660	0	94,387	0
Right to Use Asset, Net	0	94,458,106	0	0
Capital Assets, Net of Accumulated Depreciation	404,818,897	0	248,717	2,489,094
TOTAL ASSETS	$448,463,562	$114,051,546	$ 599,564	$2,619,458
Deferred Outflows of Resources				
Deferred Charges:				
Bond Discounts	$ 43,943	$ 0	$ 0	$ 0
Defined Benefit Pensions	9,503,418	1,160,795	0	0
OPEB Plans	410,933	0	0	0
Total Deferred Outflows of Resources	$ 9,958,294	$ 1,160,795	$ 0	$ 0
LIABILITIES				
Accounts Payable	$ 1,940,050	$ 1,137,391	$ 580	$ 17,229
Accrued Payroll	478,552	0	0	4,136
Payroll Taxes and Benefits Payable	321,792	0	0	3,263
Accrued Expenses	0	302,112	0	0
Accrued Payroll, Taxes, and Withholding	0	247,835	0	0
Accumulated Compensated Absences	0	0	0	1,093
Accrued Interest	484,310	0	0	291
Deposits Held	136,987	83,805	0	0
Unearned Revenues - Grants	6,720,952	0	0	0
Unearned Revenues - Rent Received in Advance	0	0	200	32,749
Noncurrent Liabilities:				
Due Within One Year	4,813,139	4,243,433	0	23,132
Due in More Than One Year	129,441,566	139,374,630	0	141,860
TOTAL LIABILITIES	$144,337,348	$145,389,206	$ 780	$ 223,753
Deferred Inflows of Resources				
Defined Benefit Pensions	$ 13,641,984	$ 1,975,668	$ 0	$ 0
NET POSITION				
Net Investment in Capital Assets	$335,150,152	$ 0	$ 248,717	$2,324,102
Restricted for:				
Highway Aid	966,475	0	0	0
Capital Expenditures	6,100,506	0	0	0
Recreation	243,369	0	0	0
Other Projects	4,410,401	0	344,636	0
Water Authority	0	0	0	0
Unrestricted (Deficit)	(46,428,379)	(32,152,533)	5,431	71,603
TOTAL NET POSITION	$300,442,524	($ 32,152,533)	$ 598,784	$2,395,705

See Accompanying Notes and Independent Auditor's Report

ALTOONA WATER AUTHORITY
WATER DIVISION
WATER OPERATING FUND

	2020 BUDGET 0%
REVENUE	
WATER SALES	17,900,000
SALES TO OTHER UTILITIES	500,000
BULK SALES	-
CAPITAL SURCHARGE	500,000
PENALTIES	90,000
INSTALL/RENEW-SERVICE LINES	95,000
METER INCOME	30,000
SHUT OFFS	60,000
FIRE LINES	330,000
FINAL READINGS	45,000
CAPACITY FEES	30,000
REIMBURSEMENTS-BELLWOOD BORO	96,589
REIMBURSEMENTS-HOLLIDAYSBURG BORO	342,652
INTEREST INCOME	50,000
SERVICE-WASTEWATER DIVISION	1,161,358
TIMBER SALES	50,000
OTHER RENTALS	172,000
MISCELLANEOUS INCOME	96,000
BAD DEBT RECOVERY	4,000
TOTAL REVENUES	**21,552,599**
EXPENDITURES-ADMINSITRATIVE	
WAGES	794,997
OFFICER'S COMPENSATION	1,200
CONSULTING ENGINEERS	50,000
AUDITING	15,000
LEGAL FEES	25,000
TRUSTEES EXPENSE	-
OTHER PROFESSIONAL FEES	75,000
ADVERTISING	6,000
PUBLIC RELATIONS AND MARKETING	1,000
TRAVEL/CONFERENCES/EDUCATION	3,000
DUES & SUPSCRIPTIONS	7,500
MAINTENANCE BUILDING	20,000
MAINTENANCE-EQUIPMENT	12,000
OFFICE SUPPLIES	6,000
POSTAGE	2,000
LEASE PAYMENT	3,799,870
HUMAN RESOURCE EXPENSE	2,500
SAFETY COMMITTEE EXPENSE	12,000
TELEPHONE EXPENSE	15,000
BAD DEBT EXPENSE	20,000
UTILITIES	22,000
SMALL TOOLS, EQUIPMENT, FURNITURE	4,500
TOTAL ADMINISTRATIVE EXPENDITURES	**4,894,567**

ALTOONA WATER AUTHORITY
WATER DIVISION
WATER OPERATING FUND

	2020 BUDGET
EXPENDITURES-EMPLOYEE BENEFITS & INSURANCE	
SOCIAL SECURITY	423,599
WORKERS COMPENSATION	84,000
PA UNEMPLOYMENT COMPENSATION	5,000
PENSION	488,366
GROUP LIFE, AD&D, LTD , STD	90,000
HOSPITALIZATION & MAJOR MEDICAL	1,515,415
HEALTH & WELFARE(AFSCME)	28,000
MEDICAL EXAMINATIONS	8,000
INSURANCE-FLEET	17,773
INSURANCE-ALL RISK PROPERTY	142,219
INSURANCE-PUBLIC OFFICIAL LIABILITY	5,954
CONTINGENCIES	250,000
TOTAL EMPLOYEE FRINGE BENEFITS & INSURANCE	**3,058,326**
TOTAL OPERATING EXPENDITURES	**15,711,419**
CAPITAL EXPENDITURES	
CONSTRUCTION & RENEWAL	438,500
VEHICLES	310,143
OFFICE FURNITURE & EQUIPMENT	-
METERS	10,000
COMPUTER EQUIPMENT	7,500
FIRE HYDRANTS	40,000
PLANT EQUIPMENT/RENEWAL	480,264
OTHER EQUIPMENT	24,650
TOTAL CAPITAL EXPENDITURES	**1,311,057**
DEBT SERVICE & INTEREST	
DEBT SERVICE PAYMENT	4,408,904
TOTAL DEBT SERVICE PAYMENT	**4,408,904**
TOTAL EXPENDITURES	**21,431,380**
NET REVENUE/(DEFICIT)	**121,219**

ALTOONA WATER AUTHORITY
WASTEWATER DIVISION
SEWER OPERATING FUND

	2020 BUDGET
REVENUE	**0%**
WASTEWATER RENTALS	11,600,000
CAPITAL SURCHARGE	500,000
PENALTIES	65,000
CAPACITY FEES	10,000
SEWER INSTALL/TAP FEES	20,000
SEWER-SURCHARGE/PRETREATMENT	150,000
SEPTIC HAULER FEES	500,000
INTERMUNICIPAL SERVICE REIMBURSEMENT	668,680
INTEREST INCOME	75,000
MISCELLANEOUS INCOME	90,000
RECOVERY - CHARGED OFF ACCOUNTS	2,000
TOTAL REVENUES	**13,680,680**
EXPENDITURES-ADMINISTRATIVE	
OFFICER'S COMPENSATION	1,200
CONSULTING ENGINEERS	85,000
AUDITING	12,000
LEGAL FEES	40,000
TRUSTEE EXPENSE	5,200
OTHER PROFESSIONAL FEES	35,000
ADVERTISING	3,000
PUBLIC RELATIONS EXPENSE	1,000
TRAVEL/CONFERENCES/EDUCATION	5,000
DUES & SUPSCRIPTIONS	7,700
MAINTENANCE-EQUIPMENT	12,000
OFFICE SUPPLIES	5,000
POSTAGE	3,000
LEASE PAYMENT	2,137,427
PAYMENT FOR WATER DIVISION SERVICES	1,161,358
HUMAN RESOURCE EXPENSE	2,500
SAFETY COMMITTEE EXPENSE	10,000
BAD DEBT EXPENSE	15,000
TELEPHONE EXPENSE	7,000
SMALL TOOLS, EQUIPMENT, FURNITURE	2,000
TOTAL ADMINISTRATIVE EXPENDITURES	**3,550,385**

ALTOONA WATER AUTHORITY
WASTEWATER DIVISION
SEWER OPERATING FUND

	2020 BUDGET
EXPENDITURES-SANITARY SEWERS	
WAGES	690,528
MAINTENANCE-BUILDING	5,000
GIS SYSTEM EXPENSE	17,033
TELEPHONE EXPENSE	2,400
SAFETY EQUIPMENT/CLOTHING	4,000
MATERIALS & SUPPLIES	200,000
MAINTENANCE-VEHICLE	50,000
GASOLINE & OIL	25,000
DIESEL FUEL	30,000
STREET CUTS	150,000
ONE CALL SYSTEM EXPENSE	4,000
SMALL TOOLS, EQUIPMENT, FURNITURE	7,100
TOTAL SANITARY SEWERS EXPENDITURES	**1,185,061**
EXPENDITURES-EMPLOYEE BENEFITS & INSURANCE	
SOCIAL SECURITY	164,435
WORKERS COMPENSATION	42,000
PA UNEMPLOYMENT COMPENSATION	2,500
PENSION	230,800
GROUP LIFE, AD&D, LTD	30,000
HOSPITALIZATION & MAJR MEDICAL	653,800
HEALTH & WELFARE(AFSCME)	11,000
MEDICAL EXAMINATIONS	5,000
INSURANCE-FLEET	11,972
INSURANCE-ALL RISK PROPERTY	113,442
INSURANCE-BOILER MACHINERY	-
INSURANCE-PUBLIC OFFICIAL LIAB	5,658
CONTINGENCIES	100,000
TOTAL EMPLOYEE FRINGE BENEFITS & INSURANCE	**1,370,607**
TOTAL OPERATING EXPENDITURES	**9,369,495**

CITY OF ALTOONA
BLAIR COUNTY, PENNSYLVANIA
STATEMENT OF NET POSITION
DECEMBER 31, 2019
(AMOUNTS EXPRESSED IN WHOLE DOLLARS)

	PRIMARY GOVERNMENT	COMPONENT UNITS		
	Governmental Activities	Altoona Water Authority	Redevelopment Authority of Altoona	The Parking Authority of the City of Altoona
ASSETS				
Cash and Cash Equivalents	$ 24,556,757	$ 2,142,068	$ 217,510	$ 157,819
Investments	366,982	12,127,836	0	0
Taxes Receivable	4,174,803	0	0	0
Accounts Receivable	0	3,750,328	2,816	3,568
Intergovernmental Receivables	321,540	0	0	0
Loans Receivable – Current	795,935	0	8,972	0
Other Receivables	193,952	14,619	0	0
Prepaid Expenses	314,090	25,755	0	1,667
Inventory	512,219	0	0	0
Loans Receivable – Long-Term	5,374,360	0	103,723	0
Right to Use Asset, Net	0	100,528,196	0	0
Capital Assets, Net of Accumulated Depreciation	405,378,818	0	254,542	2,527,780
TOTAL ASSETS	$441,989,456	$118,588,802	$ 587,563	$2,690,834
Deferred Outflows of Resources				
Deferred Charges:				
Bond Discounts	$ 780,363	$ 0	$ 0	$ 0
Defined Benefit Pensions	10,878,514	1,651,319		
OPEB Plans	1,130,677	0	0	0
Total Deferred Outflows of Resources	$ 12,789,554	$ 1,651,319	$ 0	$ 0
LIABILITIES				
Accounts Payable	$ 2,790,042	$ 1,732,865	$ 4,978	$ 14,842
Accrued Payroll	362,296	0	0	0
Payroll Taxes and Benefits Payable	134,704	0	0	3,459
Accrued Expenses	0	0	0	2,958
Accrued Payroll, Taxes, and Withholding	0	427,226	0	0
Accumulated Compensated Absences	0	279,288	0	2,119
Accrued Interest	295,444	0	0	321
Deposits Held	112,334	83,805	0	0
Unearned Revenues – Grants	6,271,037	0	0	0
Unearned Revenues - Rent Received in Advance	0	0	200	39,412
Noncurrent Liabilities:				
Due Within One Year	3,835,073	7,205,690	0	22,257
Due in More Than One Year	118,568,396	150,406,922	0	164,998
TOTAL LIABILITIES	$132,369,326	$160,135,796	$ 5,178	$ 250,366
Deferred Inflows of Resources				
Defined Benefit Pensions	$ 12,696,000	$ 1,965,233	$ 0	$ 0
NET POSITION				
Net Investment in Capital Assets	$345,530,381	$ 0	$ 254,542	$2,340,525
Restricted for:			0	0
Highway Aid	894,316	0	0	0
Capital Expenditures	8,184,878	0	0	0
Recreation	231,511	0	0	0
Other Projects	5,470,093	0	339,715	0
Water Authority	0	0	0	0
Unrestricted (Deficit)	(50,597,495)	(41,860,908)	(11,872)	99,943
TOTAL NET POSITION	$309,713,684	($ 41,860,908)	$ 582,385	$2,440,468

See Accompanying Notes and Independent Auditor's Report

ALTOONA WATER AUTHORITY
STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION

	Year Ended December 31, 2017	2016
Operating Revenues, Securing Revenue Bonds		
Water/Sewer Rentals	$ 28,033,026	$ 27,234,701
Installations and Renewals Service Lines	119,509	116,080
Meter Sales, Shut-Offs, and Remotes	224,910	224,676
Timber Sales	40,197	142,007
Septic Hauler Fees	75,649	81,269
Fire Hydrant and Line Rentals	343,767	331,999
Service to Wastewater Division	1,057,455	1,097,406
Miscellaneous	322,114	414,937
Intermunicipal Service Reimbursements	1,409,183	1,346,227
Total Operating Revenues	31,625,810	30,989,302
Operating Expenses - Functional and Departmental		
Administration	2,117,738	5,106,472
Billing and Collection	709,035	750,662
Purification and Distribution/Disposal	5,001,575	5,078,445
Meter Division	482,163	476,819
Maintenance	3,823,793	3,918,953
Fringe Benefits and Insurance	3,706,216	3,838,891
Depreciation and Amortization	6,796,548	7,861,126
Total Operating Expenses-Functional and Departmental	22,637,068	27,031,368
Operating Income	8,988,742	3,957,934
Nonoperating Revenues and (Expenses)		
Capital Contribution to City of Altoona	(223,701,014)	--
Investment Income	80,223	50,052
Interest Expense	(2,813,892)	(2,983,688)
Fees and Miscellaneous	(379)	(839)
Gain on Disposition of Fixed Assets	45,961	34,612
Contributed Capital	16,825	--
Amortization Bond Issue Costs	(125,478)	(126,251)
Total Nonoperating Revenues and (Expenses)	(226,497,754)	(3,026,114)
Net Income	(217,509,012)	931,820
Net Position - January 1	146,894,669	145,962,849
Net Position - December 31	**$(70,614,343)**	**$ 146,894,669**

See Accompanying Notes to Financial Statements

ALTOONA WATER AUTHORITY
STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION

	Year Ended December 31, 2018	2017
Operating Revenues, Securing Revenue Bonds		
Water/Sewer Rentals	$ 30,794,341	$ 28,033,026
Installations and Renewals Service Lines	139,503	119,509
Meter Sales, Shut-Offs, and Remotes	250,565	224,910
Timber Sales	116,337	40,197
Septic Hauler Fees	2,269,905	75,649
Fire Hydrant and Line Rentals	341,023	343,767
Service to Wastewater Division	1,047,022	1,057,455
Miscellaneous	421,392	322,114
Intermunicipal Service Reimbursements	1,231,099	1,409,183
Total Operating Revenues	36,611,187	31,625,810
Operating Expenses - Functional and Departmental		
Administration	2,180,781	2,117,738
Billing and Collection	681,880	709,035
Purification and Distribution/Disposal	5,060,425	5,001,575
Meter Division	505,784	482,163
Maintenance	3,956,167	3,823,793
Fringe Benefits and Insurance	4,133,886	3,706,216
Depreciation and Amortization	6,070,090	6,796,548
Total Operating Expenses-Functional and Departmental	22,589,013	22,637,068
Operating Income	14,022,174	8,988,742
Nonoperating Revenues and (Expenses)		
Capital Contribution to City of Altoona	(4,277,135)	(223,701,014)
Investment Income	170,111	80,223
Interest Expense	(6,783,092)	(2,813,892)
Fees and Miscellaneous	--	(379)
Gain on Disposition of Fixed Assets	105,075	45,961
Contributed Capital	201,042	16,825
Amortization Bond Issue Costs	(154,988)	(125,478)
Total Nonoperating Revenues and (Expenses)	(10,738,987)	(226,497,754)
Net Income/(Loss)	3,283,187	(217,509,012)
Net Position - January 1	(70,614,343)	146,894,669
Net Position - December 31	**$(67,331,156)**	**$(70,614,343)**

See Accompanying Notes to Financial Statements

ALTOONA WATER AUTHORITY
WATER DIVISION
WATER REVENUE FUND

	2019 BUDGET
REVENUE	
WATER SALES	17,474,179
SALES TO OTHER UTILITIES	450,000
BULK SALES	-
CAPITAL SURCHARGE	500,000
PENALTIES	90,000
INSTALL/RENEW-SERVICE LINES	95,000
METER INCOME	30,000
SHUT OFFS	60,000
FIRE LINES	330,000
FINAL READINGS	45,000
CAPACITY FEES	30,000
REIMBURSEMENTS-BELLWOOD BORO	261,257
REIMBURSEMENTS-HOLLIDAYSBURG BORO	743,153
INTEREST INCOME	70,000
SERVICE-WASTEWATER DIVISION	1,112,400
TIMBER SALES	50,000
OTHER RENTALS	172,000
MISCELLANEOUS INCOME	96,000
BAD DEBT RECOVERY	4,000
TOTAL REVENUES	**21,612,989**
EXPENDITURES-ADMINSITRATIVE	
WAGES	770,879
OFFICER'S COMPENSATION	1,200
CONSULTING ENGINEERS	45,000
AUDITING	15,000
LEGAL FEES	25,000
TRUSTEES EXPENSE	4,200
OTHER PROFESSIONAL FEES	100,000
ADVERTISING	6,000
PUBLIC RELATIONS AND MARKETING	1,000
TRAVEL/CONFERENCES/EDUCATION	2,500
DUES & SUPSCRIPTIONS	6,500
MAINTENANCE BUILDING	15,000
MAINTENANCE-EQUIPMENT	12,000
OFFICE SUPPLIES	6,000
POSTAGE	2,000
LEASE PAYMENT	2,730,010
HUMAN RESOURCE EXPENSE	2,500
SAFETY COMMITTEE EXPENSE	12,000
TELEPHONE EXPENSE	15,000
BAD DEBT EXPENSE	20,000
UTILITIES	22,000
SMALL TOOLS, EQUIPMENT, FURNITURE	2,500
TOTAL ADMINISTRATIVE EXPENDITURES	**3,816,289**

ALTOONA WATER AUTHORITY
WATER DIVISION
WATER REVENUE FUND

	2019 BUDGET
EXPENDITURES-BILLING & COLLECTION	
WAGES	467,320
TRAVEL/CONFERENCES/EDUCATION	500
MAINTENANCE-EQUIPMENT	10,000
OFFICE SUPPLIES	20,000
UTILITY BILLING SOFTWARE HOSTING	85,000
POSTAGE	145,000
COLLECTION EXPENSE	7,000
TELEPHONE EXPENSE	3,000
SMALL TOOLS, EQUIPMENT, FURNITURE	4,000
TOTAL BILLING & COLLECTION EXPENDITRURES	**741,820**
EXPENDITURES-PURIFICATION & DISTRIBUTION	
WAGES	1,247,592
TRAVEL/CONFERENCES/EDUCATION	7,000
DAM INSPECTIONS	27,000
TELEPHONE EXPENSE	2,700
MAINTENANCE-WATER PUMP STATION	-
MAINTENANCE-TANKS	-
MAINTENANCE-WATERSHED	15,000
SOURCE WATER PROTECTION	6,000
UTILITIES	105,000
SMALL TOOLS, EQUIPMENT, FURNITURE	8,000
TOTAL PURIFICATION & DISTRIBUTION EXPENDITURES	**1,418,292**
EXPENDITURES-HORSESHOE CURVE WTP	
LAB COSTS/SUPPLIES	32,500
TELEPHONE EXPENSE	4,200
ELECTRICITY	130,000
CHEMICALS	89,250
MAINTENANCE	86,250
SLUDGE DISPOSAL	10,000
UTILITIES - PROPANE HEATING	65,000
TOTAL HORSESHOE CURVE EXPENDITURES	**417,200**
EXPENDITURES-MILL RUN WTP	
LAB COSTS/SUPPLIES	17,300
TELEPHONE EXPENSE	1,300
ELECTRICITY	40,000
CHEMICALS	18,900
MAINTENANCE	25,000
SLUDGE DISPOSAL	3,000
UTILITIES - PROPANE HEATING	15,000
TOTAL MILL RUN EXPENDITURES	**120,500**

ALTOONA WATER AUTHORITY
WATER DIVISION
WATER REVENUE FUND

	2019 BUDGET
EXPENDITURES-TIPTON WTP	
LAB COSTS/SUPPLIES	25,800
TELEPHONE EXPENSE	1,500
ELECTRICITY	54,000
CHEMICALS	31,500
MAINTENANCE	23,000
SLUDGE DISPOSAL	3,000
UTILITIES - PROPANE HEATING	10,000
TOTAL TIPTON EXPENDITURES	**148,800**
EXPENDITURES-KETTLE WTP	
LAB COSTS/SUPPLIES	3,000
TELEPHONE EXPENSE	1,000
ELECTRICITY	7,000
CHEMICALS	2,000
MAINTENANCE	5,000
SLUDGE DISPOSAL	
UTILITIES - PROPANE HEATING	4,500
TOTAL KETTLE EXPENDITURES	**22,500**
EXPENDITURES-HOMER GAP WTP	
LAB COSTS/SUPPLIES	2,000
TELEPHONE EXPENSE	400
ELECTRICITY	7,000
CHEMICALS	2,000
MAINTENANCE	4,000
SLUDGE DISPOSAL	-
UTILITIES - PROPANE HEATING	5,000
TOTAL HOMER GAP EXPENDITURES	**20,400**
EXPENDITURES-PLANE NINE WTP	
LAB COSTS/SUPPLIES	32,500
TELEPHONE EXPENSE	1,500
ELECTRICITY	75,000
CHEMICALS	31,500
MAINTENANCE	23,000
SLUDGE DISPOSAL	3,000
UTILITIES - PROPANE HEATING	15,000
INSURANCE	11,000
TOTAL PLANE NINE EXPENDITURES	**192,500**

ALTOONA WATER AUTHORITY
WATER DIVISION
WATER REVENUE FUND

	2019 BUDGET
EXPENDITURES-BELLWOOD WTP	
LAB COSTS/SUPPLIES	32,500
TELEPHONE EXPENSE	1,400
ELECTRICITY	75,000
CHEMICALS	54,600
MAINTENANCE	28,750
SLUDGE DISPOSAL	4,000
UTILITIES - PROPANE HEATING	20,000
INSURANCE	10,000
TOTAL BELLWOOD EXPENDITURES	**226,250**
EXPENDITURES-METER DIVISION	
WAGES	450,182
MAINTENANCE-EQUIPMENT	30,000
TELEPHONE EXPENSE	5,000
OFFICE SUPPLIES/UNIFORMS/MAINT.	2,000
MATERIALS & SUPPLIES	20,000
GASOLINE & OIL	18,000
SMALL TOOLS, EQUIPMENT, FURNITURE	3,500
	-
TOTAL METER DIVISION EXPENDITURES	**528,682**
EXPENDITURES-MAINTENANCE	
WAGES	2,446,757
TRAVEL/CONFERENCES/EDUCATION	14,000
MAINTENANCE-BUILDING	10,000
MAINTENANCE-EQUIPMENT	8,000
MAINTENANCE-COMMUNICATION EQUIPMENT	500
OFFICE SUPPLIES	3,000
GIS SYSTEM EXPENSE	11,200
TELEPHONE EXPENSE	16,000
SAFETY EQUIPMENT/CLOTHING	10,000
MAINTENANCE - WATER PUMP STATIONS	12,000
MAINTENANCE - TANKS	30,000
UTILITIES	18,000
MECHANICS UNIFORMS	2,000
MATERIALS & SUPPLIES	400,000
LEASE EXPENSE	14,051
MAINTENANCE-VEHICLE	75,000
GASOLINE & OIL	55,000
DIESEL FUEL	65,000
STREET CUTS	325,000
ONE CALL SYSTEM EXPENSE	7,000
SMALL TOOLS, EQUIPMENT, FURNITURE	15,000
TOTAL MAINTENANCE EXPENDITURES	**3,537,508**

ALTOONA WATER AUTHORITY
WATER DIVISION
WATER REVENUE FUND

	2019 BUDGET
EXPENDITURES-EMPLOYEE BENEFITS & INSURANCE	
SOCIAL SECURITY	411,779
WORKMENS COMPENSATION	140,000
PA UNEMPLOYMENT COMPENSATION	5,000
PENSION	486,300
GROUP LIFE, AD&D, LTD , STD	90,000
HOSPITALIZATION & MAJOR MEDICAL	1,480,000
HEALTH & WELFARE(AFSCME)	28,329
MEDICAL EXAMINATIONS	8,000
INSURANCE-FLEET	24,601
INSURANCE-ALL RISK PROPERTY	147,898
INSURANCE-PUBLIC OFFICIAL LIABILITY	3,685
CONTINGENCIES	-
TOTAL EMPLOYEE FRINGE BENEFITS & INSURANCE	**2,825,592**
TOTAL OPERATING EXPENDITURES	**14,016,333**
CAPITAL EXPENDITURES	
CONSTRUCTION & RENEWAL	612,912
VEHICLES	-
OFFICE FURNITURE & EQUIPMENT	-
METERS	-
COMPUTER EQUIPMENT	-
FIRE HYDRANTS	-
PLANT EQUIPMENT/RENEWAL	-
OTHER EQUIPMENT	-
TOTAL CAPITAL EXPENDITURES	**612,912**
DEBT SERVICE & INTEREST	
DEBT SERVICE PAYMENT	6,435,936
TOTAL DEBT SERVICE PAYMENT	**6,435,936**
TOTAL EXPENDITURES	**21,065,181**
NET REVENUE/(DEFICIT)	**547,808**

ALTOONA WATER AUTHORITY
WASTEWATER DIVISION
SEWER REVENUE FUND

	2019 BUDGET
REVENUE	**0%**
WASTEWATER RENTALS	11,343,481
CAPITAL SURCHARGE	500,000
PENALTIES	65,000
CAPACITY FEES	10,000
SEWER INSTALL/TAP FEES	20,000
SEWER-SURCHARGE/PRETREATMENT	150,000
SEPTIC HAULER FEES	190,000
INTERMUNICIPAL SERVICE REIMBURSEMENT	592,855
INTEREST INCOME	25,000
MISCELLANEOUS INCOME	90,000
RECOVERY - CHARGED OFF ACCOUNTS	2,000
TOTAL REVENUES	**12,988,336**
EXPENDITURES-ADMINISTRATIVE	
OFFICER'S COMPENSATION	1,200
CONSULTING ENGINEERS	113,000
AUDITING	12,000
LEGAL FEES	40,000
TRUSTEE EXPENSE	5,200
OTHER PROFESSIONAL FEES	35,000
ADVERTISING	3,000
PUBLIC RELATIONS EXPENSE	1,000
TRAVEL/CONFERENCES/EDUCATION	5,000
DUES & SUPSCRIPTIONS	6,700
MAINTENANCE-EQUIPMENT	12,000
OFFICE SUPPLIES	5,000
POSTAGE	3,000
PAYMENT FOR CITY SERVICES	1,535,630
PAYMENT FOR WATER DIVISION SERVICES	1,112,400
HUMAN RESOURCE EXPENSE	2,500
SAFETY COMMITTEE EXPENSE	10,000
BAD DEBT EXPENSE	15,000
TELEPHONE EXPENSE	7,000
SMALL TOOLS, EQUIPMENT, FURNITURE	2,000
TOTAL ADMINISTRATIVE EXPENDITURES	**2,926,630**

ALTOONA WATER AUTHORITY
WASTEWATER DIVISION
SEWER REVENUE FUND

	2019 BUDGET
EXPENDITURES-DISPOSAL PLANTS	
WAGES	1,338,792
TRAVEL/CONFERENCE/EDUCATION	16,000
PRETREATMENT MONITORING	60,000
TELEPHONE EXPENSE	4,500
SAFETY EQUIPMENT/CLOTHING	1,500
MAINTENANCE - PUMP STATIONS	4,000
SMALL TOOLS, EQUIPMENT, FURNITURE	10,000
TOTAL DISPOSAL PLANTS EXPENDITURES	**1,434,792**
EXPENDITURES - EASTERLY PLANT	
LAB COSTS & SUPPLIES	55,000
TELEPHONE EXPENSE	2,000
ELECTRICITY-PLANTS	350,000
CHEMICALS	70,000
MAINTENANCE-PLANTS	103,000
MAINTENANCE-CSO'S	15,000
SLUDGE DISPOSAL	20,000
NATURAL GAS & OIL	35,000
TOTAL EASTERLY PLANT EXPENDITURES	**650,000**
EXPENDITURES - WESTERLY PLANT	
LAB COSTS & SUPPLIES	55,000
TELEPHONE EXPENSE	10,000
ELECTRICITY-PLANTS	500,000
CHEMICALS	95,000
MAINTENANCE-PLANTS	204,000
MAINTENANCE-CSO'S	15,000
SLUDGE DISPOSAL	20,000
NATURAL GAS & OIL	55,000
TOTAL WESTERLY PLANT EXPENDITURES	**954,000**

ALTOONA WATER AUTHORITY
WASTEWATER DIVISION
SEWER REVENUE FUND

	2019 BUDGET
EXPENDITURES-SANITARY SEWERS	
WAGES	682,400
MAINTENANCE-BUILDING	4,000
GIS SYSTEM EXPENSE	11,200
TELEPHONE EXPENSE	2,400
SAFETY EQUIPMENT/CLOTHING	4,000
MATERIALS & SUPPLIES	180,000
MAINTENANCE-VEHICLE	40,000
GASOLINE & OIL	20,000
DIESEL FUEL	30,000
STREET CUTS	150,000
ONE CALL SYSTEM EXPENSE	4,000
SMALL TOOLS, EQUIPMENT, FURNITURE	3,000
TOTAL SANITARY SEWERS EXPENDITURES	**1,131,000**
EXPENDITURES-EMPLOYEE BENEFITS & INSURANCE	
SOCIAL SECURITY	154,621
WORKMENS COMPENSATION	68,000
PA UNEMPLOYMENT COMPENSATION	2,500
PENSION	230,000
GROUP LIFE, AD&D, LTD	30,000
HOSPITALIZATION & MAJR MEDICAL	636,354
HEALTH & WELFARE(AFSCME)	11,600
MEDICAL EXAMINATIONS	5,000
INSURANCE-FLEET	16,436
INSURANCE-ALL RISK PROPERTY	103,458
INSURANCE-BOILER MACHINERY	-
INSURANCE-PUBLIC OFFICIAL LIAB	3,474
CONTINGENCIES	-
TOTAL EMPLOYEE FRINGE BENEFITS & INSURANCE	**1,261,443**
TOTAL OPERATING EXPENDITURES	**8,357,865**

ALTOONA WATER AUTHORITY
WASTEWATER DIVISION
SEWER REVENUE FUND

	2019 BUDGET
CAPITAL EXPENTITURES	
CONSTRUCTION & RENEWAL	-
VEHICLES	431,000
OFFICE FURNITURE & EQUIPMENT	8,000
COMPUTER EQUIPMENT	15,500
PLANT EQUIPMENT/RENEWAL	-
OTHER EQUIPMENT	9,000
TOTAL CAPITAL EXPENDITURES	**463,500**
DEBT SERVICE & INTEREST	
DEBT SERVICE PAYMENT	4,154,608
TOTAL DEBT SERVICE PAYMENT	**4,154,608**
TOTAL EXPENDITURES	**12,975,973**
NET REVENUE/(DEFICIT)	**12,363**

CITY OF READING

COMBINING STATEMENT OF NET POSITION - WATER FUNDS

December 31, 2019

	City Water Fund	Reading Area Water Authority	Eliminations	Total Water Fund
ASSETS				
Current assets:				
Cash	$ 1,858,893	$ 13,894,351	$ -	$ 15,753,244
Investments	119,120	-	-	119,120
Accounts receivable, net	1,687	5,230,760	-	5,232,447
Interfund receivables	293,208	-	(224,755)	68,453
Inventory	-	160,309	-	160,309
Prepaid expenses	-	54,600	-	54,600
Total current assets	2,272,908	19,340,020	(224,755)	21,388,173
Restricted assets - cash and investments	-	9,570,456	-	9,570,456
Noncurrent assets:				
Capital assets not being depreciated	2,059,359	270,252	-	2,329,611
Capital assets, net of accumulated depreciation	9,380,774	66,185,454	-	75,566,228
Total capital assets, net	11,440,133	66,455,706	-	77,895,839
Rights to leased land	-	917,715	-	917,715
Total noncurrent assets	11,440,133	67,373,421	-	78,813,554
TOTAL ASSETS	13,713,041	96,283,897	(224,755)	109,772,183
DEFERRED OUTFLOWS				
Deferred charge on bond refunding	123,536	917,612	-	1,041,148
Deferred outflows of resources for pension	599,238	-	-	599,238
Deferred outflows of resources for other postemployment benefits	20,939	-	-	20,939
TOTAL DEFERRED OUTFLOWS	743,713	917,612	-	1,661,325
LIABILITIES				
Current liabilities:				
Accounts payable	14,606	378,233	-	392,839
Interfund payables	4,214,064	224,755	(224,755)	4,214,064
Accrued interest	-	297,398	-	297,398
Accrued payroll and compensated absences	-	790,915	-	790,915
Escrow deposits	-	107,245	-	107,245
Current portion notes and bonds payable	99,498	3,379,254	-	3,478,752
Total current liabilities	4,328,168	5,177,800	(224,755)	9,281,213
Noncurrent liabilities:				
Notes and Bonds payable, net	3,065,323	77,462,829	-	80,528,152
Net pension liability	1,178,813	-	-	1,178,813
Other postemployment benefits	144,972	-	-	144,972
Total noncurrent liabilities	4,389,108	77,462,829	-	81,851,937
TOTAL LIABILITIES	8,717,276	82,640,629	(224,755)	91,133,150
DEFERRED INFLOWS				
Deferred inflows of resources for pension	576,698	-	-	576,698
Deferred inflows of resources for other postemployment benefits	1,900	-	-	1,900
TOTAL DEFERRED INFLOWS	578,598	-	-	578,598
NET POSITION				
Net investment in capital assets	8,398,848	(13,468,765)	-	(5,069,917)
Restricted for debt service	-	7,592,650	-	7,592,650
Restricted for capital assets	-	1,879,990	-	1,879,990
Unrestricted	(3,237,968)	18,557,005	-	15,319,037
TOTAL NET POSITION	$ 5,160,880	$ 14,560,880	$ -	$ 19,721,760

See note to supplementary information.

CITY OF READING

COMBINING STATEMENT OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION - WATER FUNDS

Year Ended December 31, 2019

	City Water Fund	Reading Area Water Authority	Eliminations	Total Water Fund
OPERATING REVENUES				
Charges for services	$ 12,151,531	$ 32,093,301	$ (12,151,531)	$ 32,093,301
Other	487,110	41,836	-	528,946
TOTAL OPERATING REVENUES	12,638,641	32,135,137	(12,151,531)	32,622,247
OPERATING EXPENSES				
Lease payments	-	12,142,535	(12,142,535)	-
Personnel	441,051	6,372,046	-	6,813,097
Depreciation and amortization	596,856	4,311,994	-	4,908,850
Risk management	65,800	-	-	65,800
Contracted Services	-	907,019	-	907,019
Chemicals and supplies	-	1,173,058	-	1,173,058
Utilities	-	655,444	-	655,444
Other	1,869,230	3,016,908	(8,996)	4,877,142
TOTAL OPERATING EXPENSES	2,972,937	28,579,004	(12,151,531)	19,400,410
OPERATING INCOME	9,665,704	3,556,133	-	13,221,837
NONOPERATING REVENUES (EXPENSES)				
Intergovernmental revenue	-	125,000	-	125,000
Interest income	2,445	597,173	-	599,618
Interest expense	(154,896)	(3,768,727)	-	(3,923,623)
Gain (loss) on sale of solid waste accounts receivable	-	68,728	-	68,728
Other	-	19,797	-	19,797
NET NONOPERATING REVENUES (EXPENSES)	(152,451)	(2,958,029)	-	(3,110,480)
INCOME BEFORE TRANSFERS	9,513,253	598,104	-	10,111,357
Transfers out - lease payments	(9,774,710)	-	-	(9,774,710)
CHANGE IN NET POSITION	(261,457)	598,104	-	336,647
NET POSITION - BEGINNING OF YEAR - RESTATED	5,422,337	13,962,776	-	19,385,113
NET POSITION - END OF YEAR	$ 5,160,880	$ 14,560,880	$ -	$ 19,721,760

Financial Information

Net Position - The following schedule presents a summary of net position comparison at December 31, 2018, 2017, and 2016:

	2018	2017 (As Restated)	2016 (As Restated)
Assets			
Unrestricted current assets	**$ 25,886,197**	$ 24,371,571	$ 20,614,911
Restricted current assets	**3,389,010**	11,067,725	19,177,064
Capital assets, net	**64,973,550**	59,036,648	55,262,527
Other asset	**351,810**	1,020,000	1,020,000
Deferred Outflow of Resources	**1,054,979**	1,197,798	1,346,286
Total Assets and Deferred Outflow of Resources	**$ 102,255,546**	$ 96,693,742	$ 97,420,788
Liabilities			
Current liabilities	**$ 7,496,258**	$ 5,387,837	$ 5,985,559
Long-term debt	**80,796,512**	84,017,089	87,200,895
Total Liabilities	**$ 88,292,770**	$ 89,404,926	$ 93,186,454
Net Position			
Net investment in capital assets	**$ (18,130,096)**	$ (27,177,795)	$ (22,222,481)
Restricted for debt service	**7,513,275**	7,426,839	7,409,503
Unrestricted	**24,579,597**	27,039,772	19,047,312
Total Net Position	**$ 13,962,776**	$ 7,288,816	$ 4,234,334

Current liabilities increased by 39.1% in 2018 compared to a decrease by 10.0% in 2017 and an increase by 20.7% in 2016. The 2018 increase is attributable to increases in capital accounts payable.

Revenues - The following schedule presents a summary of revenues for the years ended December 31, 2018, 2017, and 2016:

	2018	2017	2016
Operating Revenues			
Water billings	**$ 29,663,185**	$ 29,736,140	$ 29,622,297
Interest and penalty charges	**541,209**	472,340	586,502
Tampered meter and other charges	**310,720**	449,933	591,344
Tapping and connection fees	**50,610**	177,175	86,244
Abandonment fees	**20,107**	60,907	32,001
Total Operating Revenues	**$ 30,585,831**	$ 30,896,495	$ 30,918,388

The 2018 fiscal year's total operating revenue decreased by 1.0% compared to 2017, and decreased by 0.1% and increased by 11.7% in 2017 and 2016, respectively.

Financial Information (continued)

Expenses - The following schedule presents a summary of expenses for the years ended December 31, 2018, 2017, and 2016:

	2018	2017 (As Restated)	2016 (As Restated)
Operating Expenses			
Lease payments, City of Reading	**$ 11,640,032**	$ 11,426,339	$ 11,441,419
Chemical supplies	**1,051,101**	746,486	1,197,002
Meter reading	**-**	-	539,483
Salaries, payroll taxes, and employee benefits	**6,213,345**	5,877,245	5,529,809
Contracted services	**967,302**	849,520	1,089,676
Other	**3,895,738**	3,176,042	2,881,120
Total Operating Expenses	**$ 23,767,518**	$ 22,075,632	$ 22,678,509

The $1,691,886 increase in expenses is primarily the result of the increase in chemical supplies, salaries, payroll taxes and employee benefits, and bad debt expense.

Changes in Net Position - The following schedule presents a summary of changes in net position for the years ended December 31, 2018, 2017, and 2016:

	2018	2017 (As Restated)	2016 (As Restated)
Operating revenues	**$ 30,585,831**	$ 30,896,495	$ 30,918,388
Operating expenses	**23,767,518**	22,075,632	22,678,509
Operating Income before Depreciation	**6,818,313**	8,820,863	8,239,879
Depreciation and amortization	**3,872,439**	3,304,835	2,946,682
Operating Income	**2,945,874**	5,516,028	5,293,197
Nonoperating revenues (expenses), net	**3,728,086**	(2,461,546)	(3,468,433)
Increase in Net Position	**$ 6,673,960**	$ 3,054,482	$ 1,824,764

LANCASTER AREA SEWER AUTHORITY
Statements of Net Position
March 31, 2021 and 2020

	2021	2020
Assets and Deferred Outflows of Resources		
Current Assets		
Cash and cash equivalents	$ 4,644,074	$ 2,445,432
Funds in custody of trustee, restricted cash	4,210,000	6,209,890
Investments	-	1,500,000
Accounts receivable	3,593,825	2,752,178
Prepaid expenses	71,764	69,116
Total Current Assets	12,519,663	12,976,616
Capital Assets		
Capital assets not being depreciated		
Land	875,181	95,181
Construction in progress	4,742,245	5,206,076
Capital assets being depreciated		
Sewer system - lines	122,165,152	112,758,402
Sewer system - pump stations	41,931,866	41,163,499
Sewer system - treatment plant	72,170,735	70,517,190
Buildings and improvements	4,090,201	3,669,937
Technology	1,424,091	1,424,091
Vehicles	2,529,916	2,346,319
Equipment	1,077,480	996,387
Accumulated depreciation	(103,992,369)	(97,771,861)
Capital Assets, Net	147,014,498	140,405,221
Accounts receivable, net of current portion	161,167	188,278
Funds in custody of trustee, restricted cash, net of current portion	21,447,170	19,013,907
Funds in custody of trustee, restricted investments	4,337,053	6,978,398
Total Assets	185,479,551	179,562,420
Deferred Outflows of Resources		
Pension	496,415	957,717
Total Assets and Deferred Outflows of Resources	$ 185,975,966	$ 180,520,137

The Notes to Financial Statements are an integral part of these statements. | 14

LANCASTER AREA SEWER AUTHORITY
Statements of Revenues, Expenses, and Changes in Net Position
Years Ended March 31, 2021 and 2020

	2021	2020
Operating Revenue		
Sewer rental	$ 22,534,309	$ 21,682,126
Industrial waste surcharges	357,471	416,698
Bulk treatment fees	406,091	118,171
Trucked waste program	503,123	465,481
Interest and penalties	254,311	317,239
Miscellaneous income	321,335	304,333
Total operating revenue	24,376,640	23,304,048
Operating Expenses		
Administrative	3,841,748	4,069,985
Collection department	7,913,564	6,702,101
Treatment plant	5,168,757	4,508,047
Pretreatment program and laboratory department	306,245	346,310
Columbia Borough	741,975	776,025
West Earl	335,295	-
Total operating expenses	18,307,584	16,402,468
Operating income	6,069,056	6,901,580
Nonoperating Revenues (Expenses)		
Interest income	99,485	793,490
Tapping fees	1,322,458	1,123,675
Capacity reservation fees	287,960	215,181
Proceeds from sale of assets	66,100	40,911
Interest expense	(2,519,082)	(2,603,702)
Bond issue costs	(109,314)	-
Amortization	555,179	286,257
Total nonoperating revenues (expenses)	(297,214)	(144,188)
Income before capital contributions	5,771,842	6,757,392
Capital contributions	1,075,815	851,741
Increase in net position	6,847,657	7,609,133
Net position at beginning of year	104,086,085	96,476,952
Net position at end of year	$ 110,933,742	$ 104,086,085

The Notes to Financial Statements are an integral part of these statements. | 16

Table 2 below shows a Condensed Statement of Revenue, Expenses, and Changes in Net Position for the years ended March 31, 2018, 2017, and 2016. The change in net position increased from $ 4.6 million in fiscal year 2017 to $ 9.0 million in fiscal year 2018. Operating income increased $ 381,000 over last year while non-operating revenue (expense) increased $ 3.2 million over fiscal year 2017.

	2018	2017	2016
Operating revenue	$ 21,499,186	$ 20,849,832	$ 19,713,716
Operating expenses	15,978,558	15,710,138	14,557,000
Operating income	5,520,628	5,139,694	5,156,716
Non-operating revenue (expenses)	2,251,417	(908,165)	(1,983,244)
Income before capital contribution	7,772,045	4,231,529	3,173,472
Capital contribution	1,224,093	324,142	551,477
Change in net position	8,996,138	4,555,671	3,724,949
Net position, beginning of year	81,380,843	76,825,172	73,100,223
Net position, end of year	$ 90,376,981	$ 81,380,843	$ 76,825,172

Table 2 - Condensed Statement of Revenues, Expenses, and Changes in Net Position

Table 3 and Table 4 below show a breakdown of fiscal year 2018 Operating Revenue and Operating Expenses, respectively.

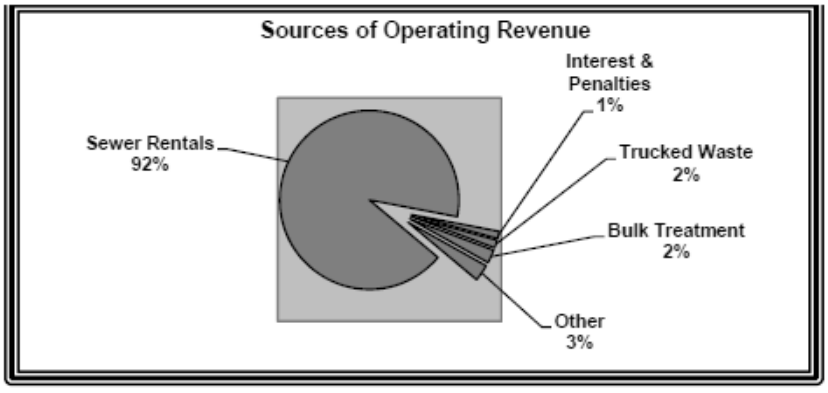


Table 3 - Sources of Operating Revenue - Fiscal Year 2018

Financial Analysis (Continued)

Table 2 below shows a Condensed Statement of Revenue, Expenses, and Changes in Net Position for the years ended March 31, 2019, 2018, and 2017. The change in net position decreased from $ 9.0 million in fiscal year 2018 to $ 6.1 million in fiscal year 2019. Operating income increased $ 564,000 over last year while non-operating revenue (expense) decreased $ 3.1 million over fiscal year 2018.

	2019	2018	2017
Operating revenue	$ 22,974,614	$ 21,499,186	$ 20,849,832
Operating expenses	16,889,502	15,978,558	15,710,138
Operating income	6,085,112	5,520,628	5,139,694
Non-operating revenue (expenses)	(825,158)	2,251,417	(908,165)
Income before capital contribution	5,259,954	7,772,045	4,231,529
Capital contribution	840,017	1,224,093	324,142
Change in net position	6,099,971	8,996,138	4,555,671
Net position, beginning of year	90,376,981	81,380,843	76,825,172
Net position, end of year	$ 96,476,952	$ 90,376,981	$ 81,380,843

Table 2 - Condensed Statement of Revenues, Expenses, and Changes in Net Position

Table 3 and Table 4 below show a breakdown of fiscal year 2019 Operating Revenue and Operating Expenses, respectively.

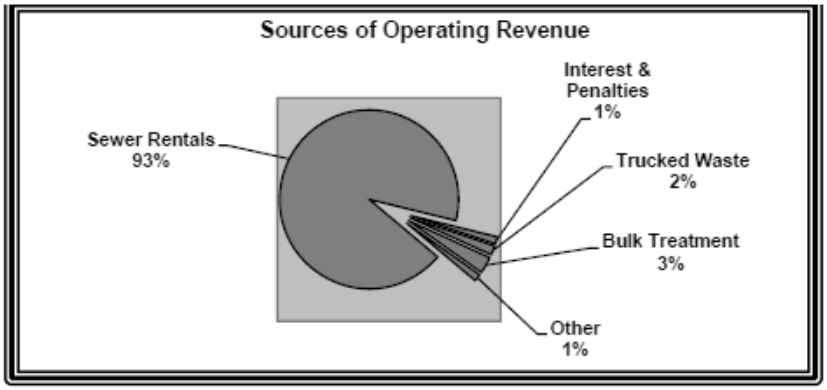


Table 3 - Sources of Operating Revenue - Fiscal Year 2019

Table 2 below shows a Condensed Statement of Revenue, Expenses, and Changes in Net Position for the years ended March 31, 2020, 2019, and 2018. The change in net position increased from $ 6.1 million in fiscal year 2019 to $ 7.6 million in fiscal year 2020. Operating income increased $ 847,000 over last year while non-operating expenses decreased $ 650,000 over fiscal year 2019.

	2020	2019	2018
Operating revenue	$ 23,304,048	$ 22,943,962	$ 21,499,186
Operating expenses	16,402,468	16,889,502	15,978,558
Operating income	6,901,580	6,054,460	5,520,628
Non-operating revenue (expenses)	(144,188)	(794,506)	2,251,417
Income before capital contribution	6,757,392	5,259,954	7,772,045
Capital contribution	851,741	840,017	1,224,093
Change in net position	7,609,133	6,099,971	8,996,138
Net position, beginning of year	96,476,952	90,376,981	81,380,843
Net position, end of year	$ 104,086,085	$ 96,476,952	$ 90,376,981

Table 2 - Condensed Statement of Revenues, Expenses, and Changes in Net Position

Table 3 and Table 4 below show a breakdown of fiscal year 2020 Operating Revenue and Operating Expenses, respectively.

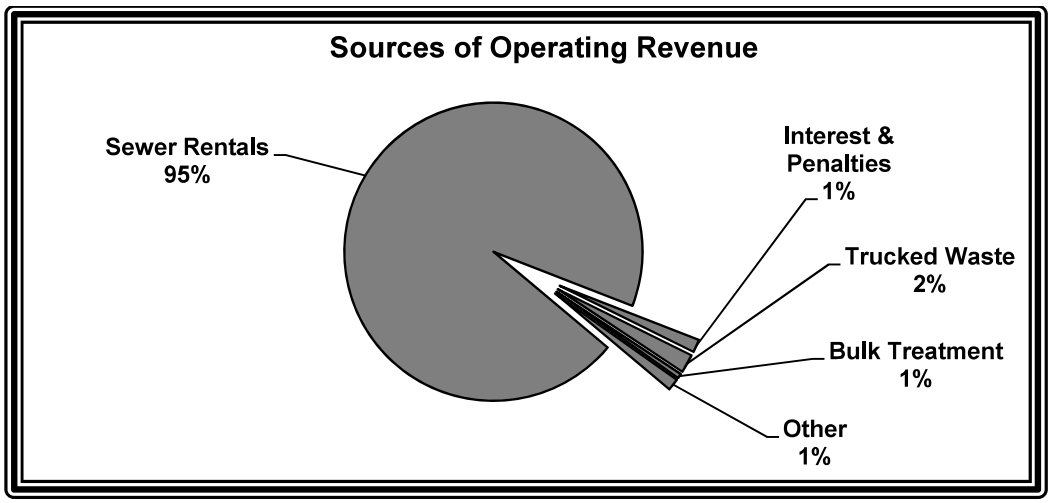


Table 3 - Sources of Operating Revenue - Fiscal Year 2020

Revenue

In fiscal year 2018, revenue exceeded budgeted revenue by 7.2% resulting from capacity reservation and tapping fee income exceeding budget, which offset below-budget investment and other income.

Expenses

Expenses, excluding depreciation, were 5.3% over budget. Interest expense was below budget as 52% of paid interest expense was capitalized as project costs. This was offset by above-budget expenditures in Administrative and Treatment Plant expenses. Higher than budgeted legal expenses of $ 31,000 and amortization of pension liability of $ 58,000 generated above-budget Administrative expenses. Treatment plant expenses for nutrient credit purchases to remain in compliance with the Authority's discharge permit were over-budget by $ 62,000 and expenses for sludge disposal were over-budget by $ 91,000. Above-budget expense for depreciation of $ 573,000 accounts for 71.2% of the negative budget variance in operating expenses.

CAPITAL ASSETS AND DEBT ADMINISTRATION

Capital Assets

The Authority's capital assets, net of accumulated depreciation, as of March 31, 2018 were $ 141.2 million. The Authority capitalizes all assets costing more than $ 20,000 whose expected life exceeds 12 months. A condensed statement of capital assets for fiscal years 2018, 2017, and 2016 is presented in Table 6 below. Additional information on the Authority's capital assets can be found in Note 5 of the financial statements.

	2018	2017	2016
Construction in progress	$ 41,124,606	$ 24,247,571	$ 8,328,405
Land	95,181	95,181	95,181
Sewer System			
Lines	102,594,800	99,909,426	99,088,012
Pump stations	38,845,592	33,042,528	32,887,101
Treatment plant	38,193,779	38,039,056	37,266,392
Buildings and improvements	3,640,150	3,640,150	3,199,420
Technology	1,424,091	1,353,402	1,295,369
Vehicles	2,291,170	1,760,826	1,706,256
Equipment	830,745	830,745	830,745
	229,040,114	202,918,885	184,696,881
Total accumulated depreciation	(87,820,739)	(83,211,180)	(78,843,305)
Total Capital Assets	$ 141,219,375	$ 119,707,705	$ 105,853,576

Table 6 - Condensed Statement of Capital Assets - Fiscal Years 2018, 2017, and 2016

Budgetary Highlights (Continued)

Revenue

In fiscal year 2019, actual revenue exceeded budgeted revenue by $ 820,000 resulting from sewer rental, investment, and other income exceeding budget. These were partially offset by below-budget revenue in capacity reservation and tapping fee income.

Expenses

Expenses, excluding depreciation, were $ 1.5 million over budget. Above average rainfall generated a 40% increase in flow through the collection system and treatment plant for the year. Consequently, electricity and chemical costs, sewer treatment costs from the City of Lancaster and the Borough of Columbia, and nutrient credit purchase costs were $ 1.4 million over budget. When combined with extensive rehabilitation of the centrifuge at the treatment plant, the operating expenses, excluding depreciation, exceeded budget by $ 1.5 million. Above-budget expense for depreciation of $ 308,000 accounts for the balance of the negative budget variance in operating expenses.

CAPITAL ASSETS AND DEBT ADMINISTRATION

Capital Assets

The Authority's capital assets, net of accumulated depreciation, as of March 31, 2019 were $ 142.3 million. The Authority capitalizes all assets costing more than $ 20,000 whose expected life exceeds 12 months. A condensed statement of capital assets for fiscal years 2019, 2018, and 2017 is presented in Table 6 below. Additional information on the Authority's capital assets can be found in Note 5 of the financial statements.

	2019	2018	2017
Construction in progress	$ 37,011,554	$ 41,124,606	$ 24,247,571
Land	95,181	95,181	95,181
Sewer System			
Lines	110,392,727	102,594,800	99,909,426
Pump stations	40,897,235	38,845,592	33,042,528
Treatment plant	38,262,279	38,193,779	38,039,056
Buildings and improvements	3,640,150	3,640,150	3,640,150
Technology	1,424,091	1,424,091	1,353,402
Vehicles	2,295,745	2,291,170	1,760,826
Equipment	977,181	830,745	830,745
	234,996,143	229,040,114	202,918,885
Total accumulated depreciation	(92,678,068)	(87,820,739)	(83,211,180)
Total Capital Assets	$ 142,318,075	$ 141,219,375	$ 119,707,705

**Table 6 - Condensed Statement of Capital Assets -
Fiscal Years 2019, 2018, and 2017**

In fiscal year 2020, actual revenue was below budgeted revenue by $ 7,000 resulting from below-budget revenue in sewer rental and surcharges. These were offset by above-budget revenue in capacity reservation and tapping fee income and investment income.

Expenses

Expenses were $ 127,000 under budget. Above-budget expenses for required equipment maintenance in our collection system were offset by below-budget depreciation costs as well as below-budget expenditures at the treatment plant and laboratory.

CAPITAL ASSETS AND DEBT ADMINISTRATION

Capital Assets

The Authority's total capital assets, net of accumulated depreciation, as of March 31, 2020 were $ 140.4 million. The Authority capitalizes all assets costing more than $ 20,000 whose expected life exceeds 12 months. A condensed statement of capital assets for fiscal years 2020, 2019, and 2018 is presented in Table 6 below. Additional information on the Authority's capital assets can be found in Note 5 of the financial statements.

	2020	2019	2018
Construction in progress	$ 5,206,076	$ 37,011,554	$ 41,124,606
Land	95,181	95,181	95,181
Sewer System			
Lines	112,758,402	110,392,727	102,594,800
Pump stations	41,163,499	40,897,235	38,845,592
Treatment plant	70,517,190	38,262,279	38,193,779
Buildings and improvements	3,669,937	3,640,150	3,640,150
Technology	1,424,091	1,424,091	1,424,091
Vehicles	2,346,319	2,295,745	2,291,170
Equipment	996,387	977,181	830,745
	238,177,082	234,996,143	229,040,114
Total accumulated depreciation	(97,771,861)	(92,678,068)	(87,820,739)
Total Capital Assets	$ 140,405,221	$ 142,318,075	$ 141,219,375

Table 6 - Condensed Statement of Capital Assets -
Fiscal Years 2020, 2019, and 2018

Debt Administration

As of March 31, 2020, the Authority had $ 66.4 million of bonds outstanding including $ 56.5 million in Sewer Revenue Bonds and $ 9.9 million of bonds through a subsidy agreement with the Borough of Columbia. Unamortized bond premiums of $ 2.8 million bring the total bonds payable liability to $ 69.3 million. Bond principal payments of $ 5.8 million and amortization of bond premiums of $ 0.3 million reduced the total bonds payable liability by $ 6.1 million from the March 31, 2019 balance of $ 75.4 million.

MUNICIPAL AUTHORITY OF WESTMORELAND COUNTY
Statements of Net Position
March 31, 2021 and 2020

	2021	2020
Current Assets		
Cash and cash equivalents, unrestricted (Note 3)	$ 32,955,491	$ 29,663,969
Accounts receivable, customers (net of allowance for doubtful accounts of $474,033 in 2021 and 2020)	6,110,790	7,014,694
Unbilled water and sewer service	10,669,704	10,722,797
Surcharges receivable, current portion	350,000	350,000
Other receivables	235,285	216,612
Material and supplies	3,914,453	3,630,945
Prepaid expenses	1,023,104	1,121,573
Total Current Assets	55,258,827	52,720,590
Property, Plant and Equipment		
Property, plant and equipment (Note 2)	857,061,066	813,804,411
Less: accumulated depreciation	(239,562,788)	(225,388,158)
Property, Plant and Equipment, Net	617,498,278	588,416,253
Non-Current Assets		
Surcharges receivable, net of current portion and allowance for doubtful accounts of $200,000 in 2021 and 2020	1,166,543	1,465,670
Prepaid bond insurance	920,538	867,810
Restricted assets:		
Special funds held by trustee (Note 4 & 5)	140,795,056	176,264,906
Restricted cash held by the Authority (Note 6)	3,613,385	6,663,291
Total Non-Current Assets	146,495,522	185,261,677
Total Assets	819,252,627	826,398,520
Deferred Outflows of Resources		
Net difference between projected and actual earnings on pension plan investments	-	7,199,443
Changes in assumptions related to pensions	29,403	-
Difference between expected and actual experience related to pensions	549,765	835,078
Contribution to pension plan subsequent to measurement date	51,812	-
Difference between expected and actual experience related to OPEB	16,345	20,431
Changes in assumptions related to OPEB	7,818,150	7,138,277
Deferred losses on bond refundings, net of amortization (Note 8)	3,104,156	3,413,275
Total Deferred Outflows of Resources	11,569,631	18,606,504

(continued)
See accompanying notes to the financial statements.

MUNICIPAL AUTHORITY OF WESTMORELAND COUNTY
Statements of Revenues, Expenses and Changes in Net Position
Fiscal Years Ended March 31, 2021 and 2020

	2021	2020
Operating Revenues		
Water	$ 88,548,010	$ 86,373,308
Wastewater	17,024,421	16,156,229
Other operating revenues	1,945,458	2,930,304
Total Operating Revenues	107,517,889	105,459,841
Operating Expenses		
Source of supply	1,075,085	1,072,453
Treatment system	8,688,752	8,651,822
Distribution	21,126,537	20,592,367
Engineering	1,674,676	1,599,655
Wastewater system	9,424,097	8,871,707
Landfill	4,842	4,790
Depreciation and amortization	15,777,383	14,151,165
Commercial and general	21,858,960	25,934,541
Management fee	1,350,000	1,300,000
Total Operating Expenses	80,980,332	82,178,500
Operating Income Before Non-Operating Expenses	26,537,557	23,281,341
Non-Operating Revenues (Expenses)		
Investment income	2,891,362	4,775,646
Net increase in the fair value of investments	40,103	43,786
Interest expense	(19,831,042)	(21,188,625)
Loss on disposals of property, plant and equipment	(199,495)	(775,797)
Total Non-Operating Expenses	(17,099,072)	(17,144,990)
Income Before Capital Contributions	9,438,485	6,136,351
Capital Contributions	6,497,060	5,193,678
Increase in Net Position	15,935,545	11,330,029
Total Net Position, Beginning of Fiscal Year	156,507,789	145,177,760
Total Net Position, End of Fiscal Year	$ 172,443,334	$ 156,507,789

See accompanying notes to the financial statements.

MUNICIPAL AUTHORITY OF WESTMORELAND COUNTY
Statements of Net Position
March 31, 2020 and 2019

	2020	2019
Current Assets		
Cash and cash equivalents, unrestricted (Note 3)	$ 29,663,969	$ 27,812,712
Accounts receivable, customers (net of allowance for doubtful accounts of $474,033 in 2020 and $473,827 in 2019)	7,014,694	6,547,940
Unbilled water and sewer service	10,722,797	9,852,958
Surcharges receivable, current portion	350,000	350,000
Other receivables	216,612	498,933
Material and supplies	3,630,945	2,868,304
Prepaid expenses	1,121,573	352,547
Total Current Assets	52,720,590	48,283,394
Property, Plant and Equipment		
Property, plant and equipment (Note 2)	816,019,835	767,648,700
Less: accumulated depreciation	(225,388,158)	(213,403,548)
Property, Plant and Equipment, Net	590,631,677	554,245,152
Non-Current Assets		
Surcharges receivable, net of current portion and allowance for doubtful accounts of $200,000 in 2020 and 2019	1,465,670	1,509,942
Prepaid bond insurance	867,810	913,328
Restricted assets:		
Special funds held by trustee (Note 4 & 5)	176,264,906	207,837,151
Restricted cash held by the Authority (Note 6)	6,663,291	16,415,126
Total Non-Current Assets	185,261,677	226,675,547
Total Assets	828,613,944	829,204,093
Deferred Outflows of Resources		
Net difference between projected and actual earnings on pension plan investments	7,199,443	30,552
Changes in assumptions related to pensions	-	57,541
Difference between expected and actual experience related to pensions	835,078	602,541
Contribution to pension plan subsequent to measurement date	-	150,548
Difference between expected and actual experience related to OPEB	20,431	24,517
Changes in assumptions related to OPEB	7,138,277	1,501,026
Deferred losses on bond refundings, net of amortization (Note 8)	3,413,275	4,283,283
Total Deferred Outflows of Resources	18,606,504	6,650,008

(continued)

See accompanying notes to the financial statements.

MUNICIPAL AUTHORITY OF WESTMORELAND COUNTY
Statements of Net Position
March 31, 2019 and 2018

	2019	Restated 2018
Current Assets		
Cash and cash equivalents, unrestricted (Note 3)	$ 27,812,712	$ 19,209,356
Accounts receivable, customers (net of allowance for doubtful accounts of $473,827 in 2019 and $470,533 in 2018)	6,547,940	6,298,373
Unbilled water and sewer service	9,852,958	9,851,714
Surcharges receivable, current portion	350,000	350,000
Other receivables	498,933	1,070,190
Inventory - material and supplies	2,868,304	2,515,551
Prepaid expenses	352,547	200,121
Total Current Assets	48,283,394	39,495,305
Property, Plant and Equipment		
Property, plant and equipment (Note 2)	767,648,700	711,563,565
Less: accumulated depreciation	(213,403,548)	(201,495,896)
Property, Plant and Equipment, Net	554,245,152	510,067,669
Non-Current Assets		
Surcharges receivable, net of current portion and allowance for doubtful accounts of $200,000 in 2019 and 2018	1,509,942	1,653,673
Prepaid bond insurance	913,328	958,845
Restricted assets:		
Special funds held by trustee (Note 4 & 5)	207,837,151	234,717,525
Restricted cash held by the Authority (Note 6)	16,415,126	19,597,310
Total Non-Current Assets	226,675,547	256,927,353
Total Assets	829,204,093	806,490,327
Deferred Outflows of Resources		
Net difference between projected and actual earnings on pension plan investments	30,552	-
Changes in assumptions related to pensions	57,541	77,283
Difference between expected and actual experience related to pensions	602,541	825,024
Contribution to pension plan subsequent to measurement date	150,548	56,041
Difference between expected and actual experience related to OPEB	24,517	-
Changes in assumptions related to OPEB	1,501,026	-
Deferred losses on bond refundings, net of amortization (Note 8)	4,283,283	4,612,214
Total Deferred Outflows of Resources	6,650,008	5,570,562

(continued)

See accompanying notes to the financial statements.

MUNICIPAL AUTHORITY OF WESTMORELAND COUNTY
Statements of Net Position
March 31, 2018 and 2017

	2018	2017
Current Assets		
Cash and cash equivalents, unrestricted (Note 3)	$ 19,209,356	$ 15,067,865
Accounts receivable, customers (net of allowance for doubtful accounts of $470,533 in 2018 and $458,506 in 2017)	6,298,373	5,597,012
Unbilled water and sewer service	9,851,714	9,777,602
Surcharges receivable, current portion	350,000	350,000
Other receivables	1,070,190	5,178,590
Inventory - material and supplies	2,515,551	2,289,998
Prepaid expenses	200,121	129,312
Total Current Assets	39,495,305	38,390,379
Property, Plant and Equipment		
Property, plant and equipment (Note 2)	711,563,565	662,320,792
Less: accumulated depreciation	(201,495,896)	(189,824,163)
Property, Plant and Equipment, net	510,067,669	472,496,629
Non-Current Assets		
Surcharges receivable, net of current portion and allowance for doubtful accounts of $200,000 in 2018 and 2017	1,653,673	1,959,138
Prepaid bond insurance	958,845	596,655
Restricted assets:		
Special funds held by trustee (Note 4 & 5)	234,717,525	254,963,842
Restricted cash held by authority (Note 6)	19,597,310	19,003,328
Total Non-Current Assets	256,927,353	276,522,963
Total Assets	806,490,327	787,409,971
Deferred Outflows of Resources		
Net difference between projected and actual earnings on pension plan investments	-	170,728
Changes in assumptions related to pensions	77,283	-
Difference between expected and actual experience related to pensions	825,024	104,074
Contribution to pension plan subsequent to measurement date	56,041	-
Deferred losses on bond refundings, net of amortization (Note 8)	4,612,214	1,205,212
Total Deferred Outflows of Resources	5,570,562	1,480,014

(continued)

See accompanying notes to the financial statements.

MUNICIPAL AUTHORITY OF WESTMORELAND COUNTY
Statements of Revenues, Expenses and Changes in Net Position
Fiscal Years Ended March 31, 2020 and 2019

	2020	2019
Operating Revenues		
Water	$ 86,373,308	$ 86,597,707
Wastewater	16,156,229	15,286,438
Other operating revenues	2,930,304	5,450,849
Total Operating Revenues	105,459,841	107,334,994
Operating Expenses		
Source of supply	1,072,453	935,776
Treatment system	8,651,822	8,810,618
Distribution	20,592,367	18,735,370
Engineering	1,599,655	1,530,906
Wastewater system	8,871,707	8,444,588
Landfill	4,790	4,765
Depreciation and amortization	14,151,165	13,433,385
Commercial and general	25,934,541	27,059,890
Management fee	1,300,000	1,300,000
Total Operating Expenses	82,178,500	80,255,298
Operating Income Before Non-Operating Expenses	23,281,341	27,079,696
Non-Operating Revenues (Expenses)		
Investment income	4,775,646	4,943,913
Net increase in the fair value of investments	43,786	20,450
Interest expense	(21,188,625)	(20,975,541)
Loss on disposals of property, plant and equipment	(775,797)	(403,367)
Total Non-Operating Expenses	(17,144,990)	(16,414,545)
Income Before Capital Contributions	6,136,351	10,665,151
Capital Contributions	5,193,678	6,523,749
Increase in Net Position	11,330,029	17,188,900
Total Net Position, Beginning of Fiscal Year	145,177,760	127,988,860
Total Net Position, End of Fiscal Year	$ 156,507,789	$ 145,177,760

See accompanying notes to the financial statements.

MUNICIPAL AUTHORITY OF WESTMORELAND COUNTY
Statements of Revenues, Expenses and Changes in Net Position
Fiscal Years Ended March 31, 2019 and 2018

	2019	Restated 2018
Operating Revenues		
Water	$ 86,597,707	$ 81,638,410
Wastewater	15,286,438	14,901,786
Other operating revenues	5,450,849	3,527,303
Total Operating Revenues	107,334,994	100,067,499
Operating Expenses		
Source of supply	935,776	865,364
Treatment system	8,810,618	8,002,831
Distribution	18,735,370	17,775,014
Engineering	1,530,906	1,307,465
Wastewater system	8,444,588	8,509,813
Landfill	4,765	43,367
Depreciation and amortization	13,433,385	12,577,264
Commercial and general	27,059,890	28,228,521
Management fee	1,300,000	1,225,000
Total Operating Expenses	80,255,298	78,534,639
Operating Income Before Non-Operating Revenues	27,079,696	21,532,860
Non-Operating Revenues (Expenses)		
Investment income	4,943,913	3,535,070
Net increase (decrease) in the fair value of investments	20,450	(407,750)
Interest expense	(20,975,541)	(15,262,836)
Loss on disposals of property	(403,367)	(336,175)
Total Non-Operating Expenses	(16,414,545)	(12,471,691)
Income Before Capital Contributions	10,665,151	9,061,169
Capital Contributions	6,523,749	13,400,327
Increase in Net Position	17,188,900	22,461,496
Total Net Position, Beginning of Fiscal Year	127,988,860	135,957,658
Prior Period Adjustment, see Note 19	-	(30,430,294)
Total Net Position, End of Fiscal Year	$ 145,177,760	$ 127,988,860

See accompanying notes to the financial statements.

MUNICIPAL AUTHORITY OF WESTMORELAND COUNTY
Statements of Revenues, Expenses and Changes in Net Position
Fiscal Years Ended March 31, 2018 and 2017

	2018	2017
Operating Revenues		
Water	$ 81,638,410	$ 77,440,502
Wastewater	14,901,786	14,121,562
Other operating revenues	3,527,303	2,858,021
Total Operating Revenues	100,067,499	94,420,085
Operating Expenses		
Source of supply	865,364	861,886
Treatment system	8,002,831	8,006,826
Distribution	17,775,014	17,459,687
Engineering	1,307,465	1,271,392
Wastewater system	8,509,813	7,632,386
Landfill	43,367	12,005
Depreciation and amortization	12,577,264	11,562,121
Commercial and general	28,228,521	25,817,145
Management fee	1,225,000	1,200,000
Total Operating Expenses	78,534,639	73,823,448
Operating Income Before Non-Operating Revenues	21,532,860	20,596,637
Non-Operating Revenues (Expenses)		
Investment income	3,535,070	3,225,914
Net increase (decrease) in the fair value of investments	(407,750)	431,964
Interest expense	(15,262,836)	(15,032,096)
Loss on disposals of property	(336,175)	(1,732,987)
Total Non-Operating Expenses	(12,471,691)	(13,107,205)
Income Before Capital Contributions	9,061,169	7,489,432
Capital Contributions	13,400,327	13,432,729
Increase in Net Position	22,461,496	20,922,161
Total Net Position, Beginning of Year	135,957,658	115,035,497
Total Net Position, End of Year	$ 158,419,154	$ 135,957,658

See accompanying notes to the financial statements.

ERIE CITY WATER AUTHORITY
(AKA ERIE WATER WORKS)
Statement of Net Position
December 31, 2020 and 2019

	2020	2019
ASSETS AND DEFERRED OUTFLOWS OF RESOURCES		
Current Assets		
Cash and cash equivalents	**$ 15,840,370**	$ 12,385,206
Restricted cash - workers' compensation fund	**279,455**	338,915
Investments - cash and certificates of deposit (at par)	**795,109**	846,875
Receivables - customers, net	**5,791,611**	3,974,224
Current portion of customer receivables	**19,600**	19,600
Inventories, at cost	**1,549,331**	1,627,035
Prepaid expenses	**1,340,963**	865,774
Total current assets	**25,616,439**	20,057,629
Non-Current Assets		
Restricted investments		
Amount provided for retirement of long-term debt	**7,686,000**	8,864,436
Amount provided for future system improvements	**11,941,433**	19,881,874
Board designated reserve for capital expenditures	**5,000,000**	5,000,000
Investment in self-liquidity bonds	**5,225,000**	5,325,000
Long-term customer receivables	**117,932**	137,221
Capital assets, net of accumulated depreciation		
Contributed capital assets	**2,508,257**	2,829,653
Purchased capital assets	**197,500,684**	191,269,705
Total non-current assets	**229,979,306**	233,307,889
Total assets	**255,595,745**	253,365,518
Deferred Outflows of Resources		
Deferred City of Erie lease payments	**103,067,058**	5,033,530
Changes in pension experience	**1,753,594**	1,254,876
Changes in pension investment returns	**-**	-
Changes in pension assumptions	**1,969,111**	2,724,471
Deferred loss on advanced bond refunding, net	**23,376,680**	11,836,635
Deferred bond swap fee, net	**11,179,830**	11,912,546
Total deferred outflow of resources	**141,346,273**	32,762,058
Total assets and deferred outflow of resources	**$ 396,942,018**	$ 286,127,576

The notes to the financial statements are an integral part of these statements.

ERIE CITY WATER AUTHORITY
(AKA ERIE WATER WORKS)
Statement of Revenues, Expenses and Changes in Net Position
December 31, 2020 and 2019

	2020	2019
Operating revenues	**$ 40,725,085**	$ 40,086,711
Operating expenses		
Personnel	**6,112,365**	6,345,483
Personnel benefits	**3,504,971**	4,689,942
Supplies and materials	**2,012,909**	2,010,029
Other services and charges	**5,037,083**	5,498,375
City of Erie lease	**2,850,000**	3,600,000
Total operating expenses	**19,517,328**	22,143,829
Operating income before depreciation	**21,207,757**	17,942,882
Depreciation	**7,746,138**	8,393,230
Operating income	**13,461,619**	9,549,652
Non-operating revenue (expense)		
Interest expense	**(13,588,313)**	(12,123,859)
Other revenue (expense), net	**(153,290)**	1,651,260
Net loss before contributed capital	**(279,984)**	(922,947)
Capital asset contributions	**-**	-
CHANGE IN NET POSITION	**(279,984)**	(922,947)
Net Position		
Beginning of year	**(55,786,094)**	(54,863,147)
End of year	**$ (56,066,078)**	$ (55,786,094)

The notes to the financial statements are an integral part of these statements.

Erie City Water Authority
Statements of Financial Position

	As of December 31,			
	2019	2018	Change	% Change
ASSETS				
Current assets	$ 20,057,629	$ 17,026,267	$ 3,031,362	17.80%
Restricted investments	28,746,310	32,386,195	(3,639,885)	-11.24%
Capital assets, net of accumulated depreciation	194,099,358	191,070,499	3,028,859	1.59%
Other non-current assets	10,462,221	10,481,961	(19,740)	-0.19%
Deferred outflows of resources	32,762,058	34,530,203	(1,768,145)	-5.12%
Total Assets and Deferred Outflows	$ 286,127,576	$ 285,495,125	$ 632,451	0.22%
LIABILITIES AND NET POSITION				
Current liabilities	$ 7,175,123	$ 8,766,073	$ (1,590,950)	-18.15%
Long-term debt, net of unaccreted discounts	306,968,863	310,547,787	(3,578,924)	-1.15%
Other non-current liabilities	25,881,649	21,044,412	4,837,237	22.99%
Deferred inflow of resources	1,888,035	-	1,888,035	0.00%
Total liabilities and deferred inflow of resources	341,913,670	340,358,272	1,555,398	0.46%
Net position -				
Net investment in capital assets	15,948,959	11,468,894	4,480,065	39.06%
Restricted for capital projects, debt service	8,864,436	9,849,537	(985,101)	-10.00%
Unrestricted	(80,599,489)	(76,181,578)	(4,417,911)	5.80%
Total net position	(55,786,094)	(54,863,147)	(922,947)	1.68%
Total liabilities and net position	$ 286,127,576	$ 285,495,125	$ 632,451	0.22%

Changes in Net Position –

The Authority's net position decreased by $922,947 in 2019. The 2019 decrease in the net position resulted from several factors related to materials and supplies costs and personnel related costs that was offset by savings on interest expense.

Total operating revenues for the year ended December 31, 2019 of $40,086,711 increased $316,562 (0.80%) compared to December 31, 2018.

Total operating expenses of $22,143,829 increased $756,012 (3.53%).

Total 2019 expenses of $42,660,918 compared to $44,001,398 in 2018 decreased $1,340,480 (11.11%).

to $285.50 million. Total liabilities and inflows increased $36.14 million [11.88%] to $340.36 million. The primary reasons for the increase are discussed in the following *Changes in Net Position* section.

Restricted investments of $32.39 million increased $21.03 million [285.19%], primarily from $27 million of new capital project funds from the 2018 bond issue.

Capital assets (net of depreciation) increased $3.09 million. Gross capital assets (before depreciation) increased $11.47 million representing capital additions in accordance with the Authority's adopted capital project program.

ERIE CITY WATER AUTHORITY
STATEMENTS OF FINANCIAL POSITION

	As of December 31,			
	2018	2017	$ Change	% Change
ASSETS				
Current assets	$ 17,026,267	$ 13,116,705	$ 3,909,562	29.8%
Restricted investments	32,386,195	11,356,255	21,029,940	185.2%
Capital assets, net of accumulated depreciation	191,070,499	187,981,855	3,088,644	1.6%
Other non-current assets	10,481,961	10,665,706	(183,745)	(1.7%)
Deferred outflows of resources	34,530,203	30,999,314	3,530,889	11.4%
Total Assets and Deferred Outflows	$ 285,495,125	$ 254,119,835	$ 31,375,290	12.3%

	As of December 31,			
	2018	2017	$ Change	% Change
LIABILITIES AND NET ASSETS				
Current liabilities	$ 8,766,073	$ 7,893,978	$ 872,095	29.8%
Long-term debt, net of unaccreted discounts	310,547,787	284,395,079	26,152,708	9.2%
Other non-current liabilities	21,044,412	11,930,218	(9,114,194)	76.4%
Deferred inflow of resources	-	1,113,991	(1,113,991)	-
Total liabilities and deferred outflow of resources	340,358,272	305,333,266	35,025,006	11.5%
Net position –				
Invested in capital assets, net of related debt	11,468,894	7,320,870	4,148,024	56.7%
Restricted for capital projects, debt service	9,849,537	7,691,083	2,158,454	28.1%
Unrestricted	(76,181,578)	(66,225,384)	(9,956,194)	(15.0%)
Total net position	(54,863,147)	(51,213,431)	(3,649,716)	(7.1%)
Total liabilities and net position	$ 285,495,125	$ 254,119,835	($ 31,375,290)	(12.3%)

Changes in Net Position –

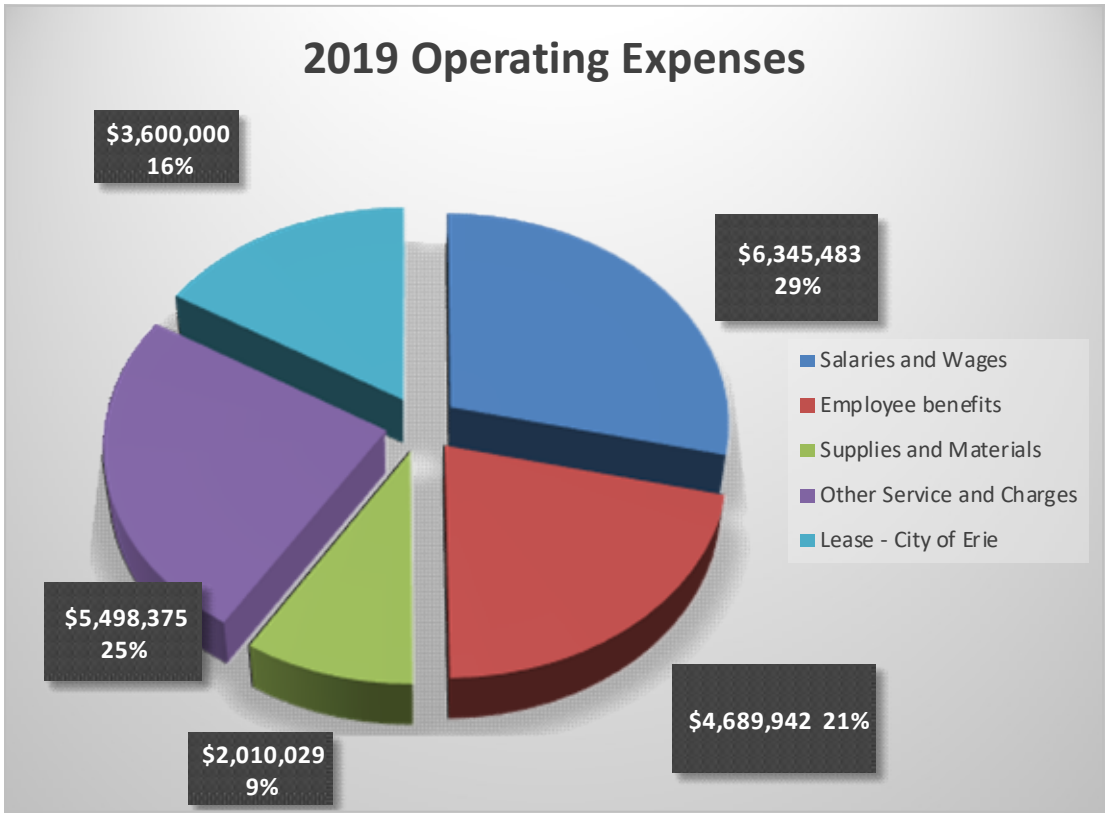
The Authority's net position decreased by <$3.65> million in 2018, compared to a <$.84> million decrease in 2017. The 2018 decrease in the net position resulted from several factors – $1.84 million increase in pension costs, $1.1 million increase in interest expense and $1.03 million of bond issue costs.

Total operating revenues for the year ended December 31, 2018 of $39.8 million increased $1.3 million [3.3%] compared to December 31, 2017.

Total operating expenses of $21.4 million increased $2.48 million [13.1%]. The majority of the

ERIE CITY WATER AUTHORITY
STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

	For the year ended December 31,			
	2019	2018	Change	% Change
Operations				
Operating revenues	$ 40,086,711	$ 39,770,149	$ 316,562	0.80%
Operating expenses	(22,143,829)	(21,387,817)	(756,012)	3.53%
Depreciation	(8,393,230)	(8,377,223)	(16,007)	0.19%
Operating income	$ 9,549,652	$ 10,005,109	$ (455,457)	-4.55%
Non-operating revenue (expense)				
Interest expense	$ (12,123,859)	$ (14,236,358)	$ 2,112,499	-14.84%
Other revenues	2,302,321	1,948,092	354,229	18.18%
Other expenses	(651,061)	(1,446,534)	795,473	-54.99%
	(10,472,599)	(13,734,800)	3,262,201	-23.75%
Net loss before capital contributions	(922,947)	(3,729,691)	2,806,744	-75.25%
Capital assets contributions	-	79,975	(79,975)	-100.00%
Change in net position	$ (922,947)	$ (3,649,716)	$ 2,726,769	-74.71%

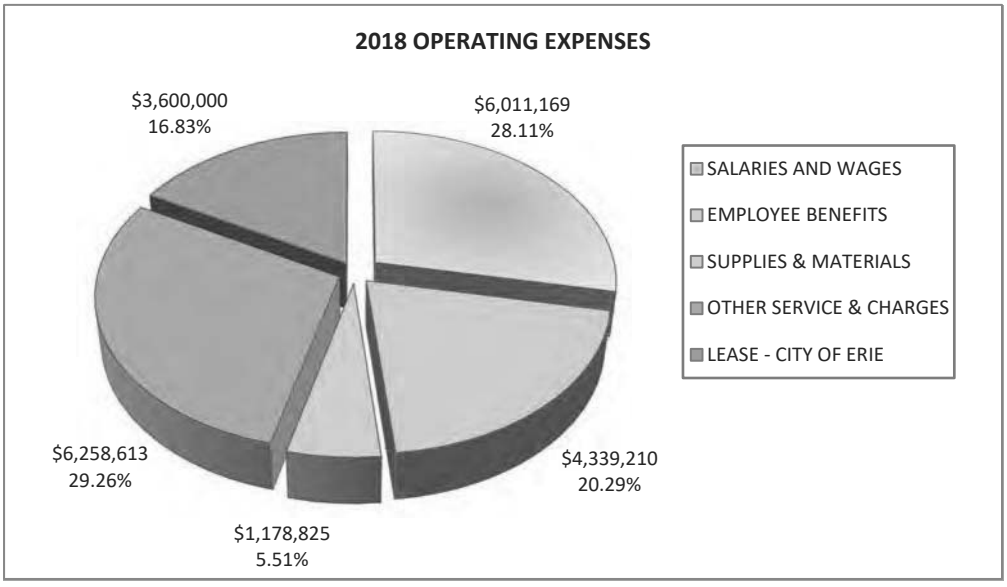


2018 decrease in operating expenses was attributable to higher pension costs and contracted services.

Total 2018 expenses of $44.0 million $40.3 million increased $3.7 million [9.18%] compared to 2017.

ERIE CITY WATER AUTHORITY
STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

	For the year ended December 31,			
	2018	2017	$ Change	% Change
Operations -				
Operating revenues	$ 39,770,149	$ 38,483,311	$ 1,286,838	3.3%
Operating expenses	(21,387,817)	(18,912,253)	2,475,564	13.1%
Depreciation	(8,377,223)	(8,214,879)	162,344	(2.0%)
Operating income	10,005,109	11,356,179	1,351,070	(11.9%)
Non-operating revenue (expense)				
Interest expense	(14,236,358)	(13,165,069)	1,071,289	8.1%
Other revenues	1,948,092	1,326,328	621,764	46.9%
Other expenses	(1,446,534)	(354,727)	1,091,807	307.8%
	(13,734,800)	(12,193,468)	1,541,332	12.6%
Net loss before capital contributions	(3,729,691)	(837,289)	(2,892,402)	(345.4%)
Capital asset contributions	79,975		79,975	-
Change in net position	($ 3,649,716)	($ 837,289)	($ 2,812,427)	(335.9%)



Chester Water Authority
Statements of Net Position
December 31, 2019 and 2018

Assets and Deferred Outflows of Resources

	December 31, 2019	December 31, 2018
Current Assets		
Cash and cash equivalents	$ 12,498,028	$ 9,680,971
Investments	1,224,596	1,207,385
Accounts receivable, net of allowance for doubtful accounts of $300,000 in both 2019 and 2018	4,715,593	4,215,519
Unbilled revenue	4,184,067	4,143,347
Materials and supplies	2,392,807	2,894,794
Other current assets	225,137	44,735
Total Current Assets	25,240,228	22,186,751
Non-Current Assets		
Property, plant, and equipment—net of accumulated depreciation	282,114,520	277,881,505
Net pension asset	806,245	-
Total Non-Current Assets	282,920,765	277,881,505
Restricted Assets		
Cash and cash equivalents	28,304,535	7,629,992
Total Restricted Assets	28,304,535	7,629,992
Total Assets	336,465,528	307,698,248
Deferred Outflows of Resources		
Changes in pension investment returns and actuarial assumptions	1,134,806	4,646,383
Changes in OPEB investment returns and actuarial assumptions	1,912,766	420,158
Total Deferred Outflows of Resources	3,047,572	5,066,541
Total Assets and Deferred Outflows of Resources	$ 339,513,100	$ 312,764,789

See accompanying notes to financial statements.

Chester Water Authority
Statements of Revenues, Expenses, and Changes In Net Position
For The Years Ended December 31, 2019 and 2018

	December 31, 2019	December 31, 2018
Operating Revenues		
Residential	$ 16,511,126	$ 16,270,379
Commercial	7,179,069	7,006,726
Industrial	9,832,034	8,262,780
Fire protection	4,063,901	3,902,103
Capacity charges, flat and late fee revenues	1,374,484	1,134,612
Sales to other water utilities	6,802,562	6,749,553
Total Operating Revenues	45,763,176	43,326,153
Operating Expenses		
Purification and Pumping	7,409,809	7,479,180
Distribution	6,687,166	7,989,652
Administrative	13,672,346	12,605,483
Finance/customer service, billing and collections	3,834,971	4,189,300
Depreciation	9,453,690	9,575,108
Total Operating Expenses	41,057,982	41,838,723
Operating Income	4,705,194	1,487,430
Non-Operating Revenues/(Expenses)		
Net investment income	155,689	131,632
Interest expense	(2,810,444)	(2,776,729)
Other nonoperating revenues	311,563	514,232
Amortization of bond discounts and debt issuance costs	479,795	401,140
Gain (loss) on disposal of property and equipment	302,194	17,882
Total Non-Operating Revenues/(Expenses)	(1,561,203)	(1,711,843)
Income (Loss) Before Contributions	3,143,991	(224,413)
Capital Contributions	894,723	5,652,845
Change In Net Position	4,038,714	5,428,432
Net Position - Beginning of year, as previously reported	234,034,302	233,538,507
Cumulative effect of prior period adjustment for adoption of GASB 75 - Net OPEB Liability	-	(4,932,637)
Net Position - Beginning of year, restated	234,034,302	228,605,870
Net Position - End of year	$ 238,073,016	$ 234,034,302

See accompanying notes to financial statements.

Chester Water Authority
Statements of Net Position
December 31, 2018 and 2017

Assets and Deferred Outflows of Resources

	December 31, 2018	December 31, 2017
Current Assets		
Cash and cash equivalents	$ 9,680,971	$ 12,277,333
Investments	1,207,385	1,185,056
Accounts receivable, net of allowance for doubtful accounts of $300,000 in both 2018 and 2017	4,215,519	4,018,123
Unbilled revenue	4,143,347	4,100,936
Materials and supplies	2,894,794	2,438,785
Other current assets	44,734	72,551
Total Current Assets	22,186,750	24,092,784
Non-Current Assets		
Property, plant, and equipment—net of accumulated depreciation	277,881,505	271,133,389
Net pension asset	-	1,501,182
Total Non-Current Assets	277,881,505	272,634,571
Restricted Assets		
Cash and cash equivalents	7,629,992	7,549,260
Total Restricted Assets	7,629,992	7,549,260
Total Assets	307,698,247	304,276,615
Deferred Outflows of Resources		
Changes in pension investment returns and actuarial assumptions	4,646,383	1,479,458
Changes in OPEB investment returns and actuarial assumptions	420,158	-
Total Deferred Outflows of Resources	5,066,541	1,479,458
Total Assets and Deferred Outflows of Resources	$ 312,764,788	$ 305,756,073

See accompanying notes to financial statements.

Chester Water Authority
Statements of Revenues, Expenses, and Changes In Net Position
For The Years Ended December 31, 2018 and 2017

	December 31, 2018	December 31, 2017
Operating Revenues		
Residential	$ 16,270,379	$ 16,471,074
Commercial	7,006,726	5,885,341
Industrial	8,262,780	7,414,215
Fire protection	3,902,103	4,001,045
Capacity charges, flat and late fee revenues	1,134,612	1,360,899
Sales to other water utilities	6,749,553	7,158,892
Total Operating Revenues	43,326,153	42,291,466
Operating Expenses		
Purification and Pumping	7,479,180	7,326,031
Distribution	7,989,652	7,159,659
Administrative	12,605,483	11,664,820
Finance/customer service, billing and collections	4,189,300	3,824,583
Depreciation	9,575,108	9,521,150
Total Operating Expenses	41,838,723	39,496,243
Operating Income	1,487,430	2,795,223
Non-Operating Revenues (Expenses)		
Net investment income	131,632	146,144
Interest expense	(2,776,729)	(2,681,713)
Other nonoperating revenues	514,231	982,798
Amortization of bond discounts and debt issuance costs	401,140	250,136
Gain (loss) on disposal of property and equipment	17,882	(481,900)
Total Non-Operating Revenues/(Expenses)	(1,711,844)	(1,784,535)
(Loss) Income Before Contributions	(224,414)	1,010,688
Capital Contributions	5,652,845	2,699,498
Change In Net Position	5,428,431	3,710,186
Net Position—Beginning of year, as previously reported	233,538,507	229,828,321
Cumulative effect of prior period adjustment for adoption of GASB 75 - Net OPEB Liability	(4,932,637)	-
Net Position - Beginning of year, restated	228,605,870	229,828,321
Net Position—End of year	$ 234,034,301	$ 233,538,507

See accompanying notes to financial statements.

PITTSBURGH WATER AND SEWER AUTHORITY

STATEMENTS OF NET POSITION

(Dollars expressed in thousands)

DECEMBER 31, 2020 AND 2019

	2020	2019
Assets		
Current assets:		
Cash and cash equivalents	$ 60,210	$ 64,680
Accounts receivable, net:		
Water:		
Billed	7,400	7,138
Unbilled	7,955	8,965
Total water	15,355	16,103
Wastewater treatment:		
Billed	3,676	2,130
Unbilled	3,457	3,725
Total wastewater treatment	7,133	5,855
Other receivables	1,924	2,450
Total accounts receivable, net	24,412	24,408
Prepaid expenses	1,737	707
Inventory	2,075	1,597
Total current assets	88,434	91,392
Noncurrent assets:		
Restricted assets:		
Cash and cash equivalents	16,201	16,360
Investments	9,705	9,604
Total restricted assets	25,906	25,964
Capital assets, not being depreciated	155,050	135,287
Capital assets, net of accumulated depreciation	766,600	695,291
Total noncurrent assets	947,556	856,542
Total Assets	1,035,990	947,934
Deferred Outflows of Resources		
Deferred charge on refunding	91,827	99,012
Accumulated decrease in fair value of hedging derivatives	33,863	13,351
Total Deferred Outflows of Resources	125,690	112,363

(Continued)

The notes to financial statements are an integral part of this statement.

PITTSBURGH WATER AND SEWER AUTHORITY

STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION

(Dollars expressed in thousands)

YEARS ENDED DECEMBER 31, 2020 AND 2019

	2020	2019
Operating Revenues:		
Residential, commercial, and industrial water sales	$ 162,676	$ 171,681
Wastewater treatment	71,899	70,970
Other	7,422	6,398
Total operating revenues	241,997	249,049
Operating Expenses:		
Direct operating expenses	92,134	89,512
Wastewater treatment	72,698	72,389
Reimbursement for City of Pittsburgh indirect services	4,289	1,991
Expense of water provided by other entities	386	1,338
Depreciation	21,659	18,011
Total operating expenses	191,166	183,241
Operating Income	50,831	65,808
Non-operating Revenues (Expenses):		
Federal and private grants	7,001	6,922
Interest revenue	201	719
Investment income (loss) - change in fair value of swap	-	(4,180)
Interest and amortization	(37,463)	(38,740)
Bond issuance costs	(2,075)	(2,462)
Total non-operating revenues (expenses)	(32,336)	(37,741)
Net Income before Capital Contribution and Special Item	18,495	28,067
Capital Contribution:		
Donated property	76	110
Special Item:		
Private lead line replacement	(18,832)	(22,283)
Net Income (Loss)	(261)	5,894
Net Position:		
Beginning of year	1,535	(4,359)
End of year	$ 1,274	$ 1,535

The notes to financial statements are an integral part of this statement.

PITTSBURGH WATER AND SEWER AUTHORITY

STATEMENTS OF NET POSITION

(Dollars expressed in thousands)

DECEMBER 31, 2019 AND 2018

	2019	2018
Assets		
Current assets:		
Cash and cash equivalents	$ 64,680	$ 46,920
Accounts receivable, net:		
Water:		
Billed	7,138	8,537
Unbilled	8,965	8,583
Total water	16,103	17,120
Wastewater treatment:		
Billed	2,130	7,014
Unbilled	3,725	3,719
Total wastewater treatment	5,855	10,733
Other receivables	2,450	1,510
Total accounts receivable, net	24,408	29,363
Prepaid expenses	707	520
Inventory	1,597	1,984
Total current assets	91,392	78,787
Noncurrent assets:		
Restricted assets:		
Cash and cash equivalents	16,360	13,970
Investments	9,604	9,356
Total restricted assets	25,964	23,326
Hedging derivative - interest rate swap	-	4,750
Capital assets, not being depreciated	135,287	139,303
Capital assets, net of accumulated depreciation	695,291	618,177
Total noncurrent assets	856,542	785,556
Total Assets	947,934	864,343
Deferred Outflows of Resources		
Deferred charge on refunding	99,012	102,534
Accumulated decrease in fair value of hedging derivatives	13,351	757
Total Deferred Outflows of Resources	112,363	103,291

(Continued)

The notes to financial statements are an integral part of this statement.

PITTSBURGH WATER AND SEWER AUTHORITY

STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION

(Dollars expressed in thousands)

YEARS ENDED DECEMBER 31, 2019 AND 2018

	2019	2018
Operating Revenues:		
Residential, commercial, and industrial water sales	$ 171,681	$ 159,506
Wastewater treatment	70,970	67,261
Other	6,398	4,967
Total operating revenues	249,049	231,734
Operating Expenses:		
Direct operating expenses	89,512	72,633
Wastewater treatment	72,389	71,822
Reimbursement for City of Pittsburgh services	1,991	4,911
Expense of water provided by other entities:		
Subsidy of customers located in the City	1,338	3,814
Depreciation	18,011	16,894
Total operating expenses	183,241	170,074
Operating Income	65,808	61,660
Non-operating Revenues (Expenses):		
Federal and private grants	6,922	-
Donated property	110	13,649
Interest revenue	719	469
Investment income (loss) - change in fair value of swap	(4,180)	2,542
Interest and amortization	(38,740)	(34,365)
Bond issuance costs	(2,462)	-
Total non-operating revenues (expenses)	(37,631)	(17,705)
Net Income before Special Item	28,177	43,955
Special Item:		
Private lead line replacement	(22,283)	(4,478)
Net Income	5,894	39,477
Net Position:		
Beginning of year	(4,359)	(43,836)
End of year	$ 1,535	$ (4,359)

The notes to financial statements are an integral part of this statement.

PITTSBURGH WATER AND SEWER AUTHORITY

STATEMENTS OF NET POSITION

(Dollars expressed in thousands)

DECEMBER 31, 2018 AND 2017

	2018	2017
Assets		
Current assets:		
Cash and cash equivalents	$ 46,920	$ 11,076
Accounts receivable, net:		
Water:		
Billed	8,537	9,335
Unbilled	8,583	6,760
Total water	17,120	16,095
Wastewater treatment:		
Billed	7,014	9,975
Unbilled	3,719	3,746
Total wastewater treatment	10,733	13,721
Other receivables	1,510	1,074
Total accounts receivable, net	29,363	30,890
Prepaid expenses	520	674
Inventory	1,984	3,777
Total current assets	78,787	46,417
Noncurrent assets:		
Restricted assets:		
Cash and cash equivalents	13,970	18,264
Investments	9,356	11,684
Total restricted assets	23,326	29,948
Hedging derivative - interest rate swap	4,750	-
Capital assets, not being depreciated	139,303	100,240
Capital assets, net of accumulated depreciation	618,177	589,567
Total noncurrent assets	785,556	719,755
Total Assets	864,343	766,172
Deferred Outflows of Resources		
Deferred charge on refunding	102,534	110,326
Accumulated decrease in fair value of hedging derivatives	757	3,279
Total Deferred Outflows of Resources	103,291	113,605

(Continued)

The notes to financial statements are an integral part of this statement.

PITTSBURGH WATER AND SEWER AUTHORITY

STATEMENTS OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION

(Dollars expressed in thousands)

YEARS ENDED DECEMBER 31, 2018 AND 2017

	2018	2017
Operating Revenues:		
Residential, commercial, and industrial water sales	$ 159,506	$ 128,488
Wastewater treatment	67,261	68,935
Other	4,967	5,573
Total operating revenues	231,734	202,996
Operating Expenses:		
Direct operating expenses	72,633	71,156
Wastewater treatment	71,822	75,107
Reimbursement for City of Pittsburgh services	4,911	5,363
Expense of water provided by other entities:		
Subsidy of customers located in the City	3,814	5,594
Depreciation	16,894	16,172
Total operating expenses	170,074	173,392
Operating Income	61,660	29,604
Non-operating Revenues (Expenses):		
Donated property	13,649	1,595
Interest revenue	469	460
Investment income (loss) - change in fair value of swap	2,542	835
Interest and amortization	(34,365)	(34,913)
Bond issuance costs	-	(3,894)
Total non-operating revenues (expenses)	(17,705)	(35,917)
Special Item:		
Private lead line replacement	(4,478)	-
Net Income (Loss)	39,477	(6,313)
Net Position:		
Beginning of year	(43,836)	(37,523)
End of year	$ (4,359)	$ (43,836)

The notes to financial statements are an integral part of this statement.

Series Id: CUUR0000SA0,CUUS0000SA0
Not Seasonally Adjusted
Series Title: All items in U.S. city average, all urban consumers, not seasonally adjusted
Area: U.S. city average
Item: All items
Base Period: 1982-84=100

Download:

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	HALF1	HALF2
2000	168.8	169.8	171.2	171.3	171.5	172.4	172.8	172.8	173.7	174	174.1	174	170.8	173.6
2001	175.1	175.8	176.2	176.9	177.7	178	177.5	177.5	178.3	177.7	177.4	176.7	176.6	177.5
2002	177.1	177.8	178.8	179.8	179.8	179.9	180.1	180.7	181	181.3	181.3	180.9	178.9	180.9
2003	181.7	183.1	184.2	183.8	183.5	183.7	183.9	184.6	185.2	185	184.5	184.3	183.3	184.6
2004	185.2	186.2	187.4	188	189.1	189.7	189.4	189.5	189.9	190.9	191	190.3	187.6	190.2
2005	190.7	191.8	193.3	194.6	194.4	194.5	195.4	196.4	198.8	199.2	197.6	196.8	193.2	197.4
2006	198.3	198.7	199.8	201.5	202.5	202.9	203.5	203.9	202.9	201.8	201.5	201.8	200.6	202.6
2007	202.416	203.499	205.352	206.686	207.949	208.352	208.299	207.917	208.49	208.936	210.177	210.036	205.709	208.976
2008	211.08	211.693	213.528	214.823	216.632	218.815	219.964	219.086	218.783	216.573	212.425	210.228	214.429	216.177
2009	211.143	212.193	212.709	213.24	213.856	215.693	215.351	215.834	215.969	216.177	216.33	215.949	213.139	215.935
2010	216.687	216.741	217.631	218.009	218.178	217.965	218.011	218.312	218.439	218.711	218.803	219.179	217.535	218.576
2011	220.223	221.309	223.467	224.906	225.964	225.722	225.922	226.545	226.889	226.421	226.23	225.672	223.598	226.28
2012	226.665	227.663	229.392	230.085	229.815	229.478	229.104	230.379	231.407	231.317	230.221	229.601	228.85	230.338
2013	230.28	232.166	232.773	232.531	232.945	233.504	233.596	233.877	234.149	233.546	233.069	233.049	232.366	233.548
2014	233.916	234.781	236.293	237.072	237.9	238.343	238.25	237.852	238.031	237.433	236.151	234.812	236.384	237.088
2015	233.707	234.722	236.119	236.599	237.805	238.638	238.654	238.316	237.945	237.838	237.336	236.525	236.265	237.769
2016	236.916	237.111	238.132	239.261	240.229	241.018	240.628	240.849	241.428	241.729	241.353	241.432	238.778	241.237
2017	242.839	243.603	243.801	244.524	244.733	244.955	244.786	245.519	246.819	246.663	246.669	246.524	244.076	246.163
2018	247.867	248.991	249.554	250.546	251.588	251.989	252.006	252.146	252.439	252.885	252.038	251.233	250.089	252.125
2019	251.712	252.776	254.202	255.548	256.092	256.143	256.571	256.558	256.759	257.346	257.208	256.974	254.412	256.903
2020	257.971	258.678	258.115	256.389	256.394	257.797	259.101	259.918	260.28	260.388	260.229	260.474	257.557	260.065
2021	261.582	263.014	264.877	267.054	269.195	271.696	273.003	273.567	274.31	276.589	277.948	278.802	266.236	275.703
2022	281.148	283.716	287.504	289.109	292.296	296.311	296.276	296.171	296.808	298.012	297.711	296.797	288.347	296.963
2023	299.17	300.84	301.836	303.363	304.127	305.109	305.691	307.026	307.789	307.671	307.051	306.746	302.408	306.996
2024	308.417	310.326	312.332	313.548	314.069									

	Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman
	Line #	Line #	Line #	Line #	Line #	Line #	Line #
	8	**9**	**16**	**23**	**34**	**39**	**42**
					9 9	**6**	**35**
1912	**0**	**0**	**0**	**0**	**9**	**6**	**0**
1913	**0**	**0**	**0**	**0**	**10**	**6**	**0**
1914	**0**	**0**	**0**	**4**	**8**	**5**	**0**
1915	**0**	**0**	**0**	**0**	**9**	**6**	**0**
1916	**0**	**0**	**0**	**0**	**11**	**6**	**0**
1917	**0**	**0**	**0**	**0**	**16**	**9**	**0**
1918	**0**	**0**	**0**	**0**	**19**	**10**	**0**
1919	**0**	**0**	**0**	**0**	**20**	**11**	**0**
1920	**0**	**0**	**0**	**0**	**22**	**12**	**35**
1921	**0**	**0**	**0**	**0**	**22**	**13**	**35**
1922	**0**	**0**	**0**	**0**	**20**	**12**	**35**
1923	**0**	**0**	**0**	**0**	**21**	**12**	**35**
1924	**0**	**0**	**0**	**0**	**22**	**13**	**35**
1925	**18**	**0**	**20**	**0**	**21**	**13**	**35**
1926	**19**	**0**	**0**	**0**	**21**	**13**	**35**
1927	**18**	**0**	**0**	**0**	**21**	**13**	**35**
1928	**18**	**0**	**0**	**0**	**20**	**13**	**35**
1929	**18**	**0**	**0**	**0**	**20**	**14**	**35**
1930	**17**	**0**	**0**	**0**	**20**	**14**	**35**
1931	**16**	**0**	**0**	**0**	**20**	**14**	**35**
1932	**15**	**0**	**0**	**0**	**18**	**13**	**35**
1933	**15**	**0**	**0**	**0**	**18**	**11**	**35**
1934	**16**	**0**	**0**	**0**	**19**	**12**	**35**
1935	**16**	**0**	**0**	**0**	**19**	**13**	**35**
1936	**16**	**0**	**0**	**0**	**20**	**13**	**35**

EXHBIT 23
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	Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman
	Line #	Line #	Line #	Line #	Line #	Line #	Line #
	8	**9**	**16**	**23**	**34**	**39**	**42**
1937	**18**	**0**	**0**	**0**	**21**	**14**	**35**
1938	**18**	**0**	**0**	**0**	**22**	**14**	**35**
1939	**18**	**0**	**20**	**0**	**22**	**14**	**35**
1940	**20**	**0**	**0**	**14**	**24**	**14**	**35**
1941	**0**	**0**	**0**	**16**	**0**	**15**	**35**
1942	**0**	**0**	**0**	**16**	**0**	**16**	**35**
1943	**0**	**0**	**0**	**13**	**0**	**16**	**35**
1944	**21**	**0**	**0**	**14**	**25**	**17**	**35**
1945	**22**	**0**	**0**	**16**	**26**	**17**	**35**
1946	**24**	**0**	**0**	**20**	**29**	**19**	**35**
1947	**28**	**0**	**32**	**26**	**35**	**22**	**35**
1948	**32**	**0**	**35**	**29**	**41**	**25**	**35**
1949	**35**	**0**	**36**	**27**	**42**	**27**	**35**
1950	**36**	**0**	**38**	**28**	**43**	**28**	**37**
1951	**38**	**0**	**40**	**30**	**45**	**29**	**41**
1952	**38**	**0**	**41**	**31**	**47**	**31**	**41**
1953	**39**	**0**	**42**	**32**	**48**	**33**	**43**
1954	**41**	**55**	**0**	**0**	**48**	**35**	**44**
1955	**43**	**56**	**0**	**0**	**53**	**36**	**44**
1956	**46**	**63**	**0**	**0**	**57**	**0**	**48**
1957	**49**	**69**	**50**	**0**	**60**	**41**	**50**
1958	**50**	**73**	**0**	**0**	**63**	**44**	**51**
1959	**52**	**74**	**54**	**36**	**65**	**46**	**53**
1960	**53**	**74**	**55**	**35**	**68**	**48**	**54**
1961	**53**	**71**	**56**	**35**	**69**	**50**	**55**
1962	**54**	**71**	**58**	**35**	**71**	**51**	**56**
1963	**55**	**71**	**59**	**41**	**72**	**53**	**57**
1964	**56**	**73**	**60**	**44**	**73**	**55**	**58**
1965	**57**	**74**	**62**	**45**	**74**	**58**	**58**
1966	**56**	**78**	**64**	**46**	**75**	**60**	**61**

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Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman
Line #	Line #	Line #	Line #	Line #	Line #	Line #
8	**9**	**16**	**23**	**34**	**39**	**42**
1967	**61**	**81**	**67**	**47**	**76**	**63**	**64**
1968	**64**	**81**	**69**	**49**	**77**	**66**	**68**
1969	**69**	**84**	**73**	**53**	**80**	**72**	**72**
1970	**75**	**89**	**79**	**75**	**84**	**79**	**80**
1971	**84**	**93**	**89**	**82**	**94**	**89**	**90**
1972	**92**	**96**	**96**	**85**	**98**	**96**	**96**
1973	**100**	**100**	**100**	**100**	**100**	**100**	**100**
1974	**117**	**122**	**118**	**140**	**110**	**115**	**123**
1975	**127**	**155**	**134**	**159**	**146**	**123**	**143**
1976	**130**	**174**	**144**	**171**	**154**	**130**	**157**
1977	**137**	**184**	**152**	**172**	**162**	**139**	**167**
1978	**148**	**192**	**162**	**173**	**173**	**145**	**182**
1979	**163**	**205**	**175**	**178**	**185**	**160**	**194**
1980	**181**	**222**	**191**	**191**	**202**	**175**	**207**
1981	**191**	**245**	**208**	**208**	**219**	**184**	**222**
1982	**198**	**260**	**227**	**210**	**231**	**198**	**245**
1983	**206**	**271**	**242**	**182**	**239**	**207**	**264**
1984	**218**	**277**	**251**	**184**	**244**	**215**	**270**
1985	**225**	**282**	**262**	**181**	**254**	**221**	**285**
1986	**233**	**284**	**269**	**184**	**255**	**226**	**296**
1987	**239**	**299**	**276**	**196**	**263**	**230**	**307**
1988	**251**	**311**	**286**	**220**	**280**	**245**	**320**
1989	**265**	**330**	**301**	**216**	**295**	**258**	**343**
1990	**271**	**349**	**313**	**229**	**301**	**262**	**363**
1991	**274**	**355**	**322**	**253**	**307**	**272**	**372**
1992	**281**	**368**	**332**	**261**	**311**	**283**	**348**
1993	**294**	**386**	**342**	**248**	**321**	**292**	**385**
1994	**308**	**428**	**348**	**246**	**327**	**300**	**391**
1995	**316**	**442**	**357**	**250**	**332**	**307**	**398**

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Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman
Line #	Line #	Line #	Line #	Line #	Line #	Line #
8	**9**	**16**	**23**	**34**	**39**	**42**
1996	**321**	**450**	**367**	**251**	**339**	**321**	**418**
1997	**331**	**473**	**380**	**255**	**347**	**323**	**475**
1998	**337**	**489**	**391**	**268**	**355**	**330**	**493**
1999	**343**	**505**	**401**	**268**	**361**	**334**	**508**
2000	**362**	**530**	**413**	**270**	**377**	**348**	**526**
2001	**378**	**527**	**428**	**274**	**391**	**354**	**551**
2002	**389**	**529**	**443**	**275**	**404**	**360**	**565**
2003	**394**	**543**	**452**	**276**	**407**	**368**	**570**
2004	**421**	**572**	**466**	**308**	**432**	**388**	**585**
2005	**448**	**612**	**486**	**338**	**469**	**410**	**601**
2006	**466**	**624**	**504**	**398**	**499**	**454**	**643**
2007	**496**	**634**	**537**	**526**	**530**	**485**	**674**
2008	**538**	**663**	**586**	**676**	**588**	**514**	**706**
2009	**544**	**691**	**619**	**722**	**614**	**537**	**734**
2010	**560**	**704**	**637**	**759**	**624**	**555**	**728**
2011	**584**	**752**	**654**	**777**	**648**	**576**	**737**
2012	**604**	**788**	**680**	**798**	**687**	**598**	**762**
2013	**614**	**836**	**699**	**763**	**701**	**602**	**787**
2014	**631**	**896**	**725**	**735**	**731**	**608**	**846**
2015	**647**	**945**	**741**	**742**	**740**	**618**	**927**
2016	**661**	**1017**	**761**	**769**	**755**	**624**	**974**
2017	**675**	**1117**	**785**	**788**	**777**	**650**	**989**
2018	**704**	**1210**	**813**	**818**	**803**	**668**	**1027**
2019	**716**	**1332**	**847**	**833**	**830**	**688**	**1069**
2020	**735**	**1430**	**893**	**836**	**858**	**705**	**1123**
2021	**818**	**1490**	**957**	**982**	**922**	**743**	**1227**
2022	**901**	**1742**	**1066**	**1192**	**1027**	**804**	**1365**
2023	**948**	**1867**	**1151**	**1231**	**1105**	**854**	**1440**
2024	**974**	**1983**	**1207**	**1232**	**1165**	**875**	**1474**

	Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman	Handy-Whitman
	Line #	Line #	Line #	Line #	Line #	Line #	Line #
	8	**9**	**16**	**23**	**34**	**39**	**42**
SPOT	**974**	**1983**	**1207**	**1232**	**1165**	**875**	**1474**

EXHBIT 23
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Series Id: PCU336110336110

Series Title: PPI industry data for Automobile, light truck and utility vehicle mfg, not seasonally adjusted

Industry: Automobile, light truck and utility vehicle mfg

Product: Automobile, light truck and utility vehicle mfg

Base Date: 198206

Series Id: PCU3342--3342--

Series Title: PPI industry group data for Communications equipment mfg, not seasonally adjusted

Industry: Communications equipment mfg

Product: Communications equipment mfg

Base Date: 198512

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EXHIBIT 23
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Series Id: PCU336110336110

Series Title: PPI industry data for Automobile, light truck and utility vehicle mfg, not seasonally adjusted

Industry: Automobile, light truck and utility vehicle mfg

Product: Automobile, light truck and utility vehicle mfg

Base Date: 198206

Series Id: PCU3342--3342--

Series Title: PPI industry group data for Communications equipment mfg, not seasonally adjusted

Industry: Communications equipment mfg

Product: Communications equipment mfg

Base Date: 198512

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EXHBIT 23
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Series Id: PCU336110336110

Series Title: PPI industry data for Automobile, light truck and utility vehicle mfg, not seasonally adjusted

Industry: Automobile, light truck and utility vehicle mfg

Product: Automobile, light truck and utility vehicle mfg

Base Date: 198206

Series Id: PCU3342--3342--

Series Title: PPI industry group data for Communications equipment mfg, not seasonally adjusted

Industry: Communications equipment mfg

Product: Communications equipment mfg

Base Date: 198512

1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975	**1975**	62.900
1976	**1976**	64.025
1977	**1977**	68.192
1978	**1978**	72.892
1979	**1979**	78.667
1980	**1980**	85.983
1981	**1981**	94.533
1982	**1982**	99.567
1983	**1983**	102.108
1984	**1984**	104.625
1985	**1985**	107.208
1986	**1986**	111.008
1987	**1987**	112.967
1988	**1988**	114.117
1989	**1989**	117.358
1990	**1990**	119.850
1991	**1991**	125.292
1992	**1992**	129.108
1993	**1993**	133.167
1994	**1994**	137.950
1995	**1995**	139.100

Year	
1985	100.000
1986	101.867
1987	103.492
1988	103.875
1989	105.775
1990	107.475
1991	108.500
1992	109.742
1993	111.683
1994	113.325
1995	113.908

Series Id: PCU336110336110

Series Title: PPI industry data for Automobile, light truck and utility vehicle mfg, not seasonally adjusted

Industry: Automobile, light truck and utility vehicle mfg

Product: Automobile, light truck and utility vehicle mfg

Base Date: 198206

1996	**1996**	140.433
1997	**1997**	138.700
1998	**1998**	136.842
1999	**1999**	137.642
2000	**2000**	138.767
2001	**2001**	137.542
2002	**2002**	134.892
2003	**2003**	135.083
2004	**2004**	136.475
2005	**2005**	135.067
2006	**2006**	130.817
2007	**2007**	131.117
2008	**2008**	132.892
2009	**2009**	136.742
2010	**2010**	136.783
2011	**2011**	137.683
2012	**2012**	141.250
2013	**2013**	142.733
2014	**2014**	145.333
2015	**2015**	148.883
2016	**2016**	150.108
2017	**2017**	152.067
2018	**2018**	153.250
2019	**2019**	153.592
2020	**2020**	153.108
2021	**2021**	157.532
2022	**2022**	164.066
2023	**2023**	167.926
2024	**2024**	169.024

Series Id: PCU3342--3342--

Series Title: PPI industry group data for Communications equipment mfg, not seasonally adjusted

Industry: Communications equipment mfg

Product: Communications equipment mfg

Base Date: 198512

1996	114.983
1997	115.708
1998	114.983
1999	112.975
2000	110.408
2001	108.625
2002	105.033
2003	101.717
2004	98.358
2005	97.042
2006	95.883
2007	95.783
2008	97.083
2009	97.200
2010	96.925
2011	96.342
2012	95.625
2013	95.367
2014	95.625
2015	95.825
2016	95.208
2017	93.725
2018	93.075
2019	93.167
2020	93.658
2021	94.333
2022	98.592
2023	101.958
2024	103.854

	Series Id: PCU336110336110 Series Title: PPI industry data for Automobile, light truck and utility vehicle mfg, not seasonally adjusted Industry: Automobile, light truck and utility vehicle mfg Product: Automobile, light truck and utility vehicle mfg Base Date: 198206		Series Id: PCU3342--3342-- Series Title: PPI industry group data for Communications equipment mfg, not seasonally adjusted Industry: Communications equipment mfg Product: Communications equipment mfg Base Date: 198512	
SPOT	**SPOT**	169.054	**SPOT**	104.110

COMMUNICATION EQUIPMENT

Series Id: PCU3342--3342--
Series Tit PPI industry group data for Communications equipment mfg, not seasonally adjusted
Industry: Communications equipment mfg
Product: Communications equipment mfg
Base Dat 198512

Download:

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1985												100
1986	100.7	100.7	101.1	101.1	101.3	101.3	102.5	102.2	102.8	102.9	102.9	102.9
1987	103.6	103.4	103.4	103.4	103.4	103	103.6	103.6	103.4	103.6	103.7	103.8
1988	104.3	104.3	103.3	103.5	103.7	103.2	103.8	103.8	103.9	104.1	104.3	104.3
1989	105	105	104.9	105.2	105.3	105.5	106.5	106.3	106.3	106.4	106.4	106.5
1990	107.6	107.2	107.1	107.2	107.2	107.3	107.6	107.5	107.6	107.7	107.8	107.9
1991	108	108	108.2	108.4	108.4	108.4	108.7	108.7	108.7	108.7	108.9	108.9
1992	109.4	109.5	109.7	109.7	109.7	109.8	109.6	109.8	109.8	109.9	109.9	110.1
1993	111	111.3	111.4	111.1	111.1	111.2	111.6	112	112	112.6	112.3	112.6
1994	113.3	113.5	113.8	113.7	113.7	113.4	113.4	113.2	113.2	113	112.9	112.8
1995	114	114	114.1	114.3	114.3	113.8	113.7	113.8	113.8	113.8	113.7	113.6
1996	114.6	114.7	114.7	114.8	114.7	114.7	114.9	115.1	115.1	115.3	115.6	115.6
1997	115.7	115.8	115.4	115.5	115.7	115.7	116	115.7	115.8	115.8	115.7	115.7
1998	115.9	115.8	115.5	115.1	114.7	114.7	114.9	114.8	114.8	114.8	114.7	114.1
1999	114.5	113.8	113.8	113.5	113.4	113.1	113.2	113.2	111.9	112.1	111.9	111.3
2000	111.4	110.9	110.7	110.4	110.1	110.1	110.2	110.2	110.3	110.2	110.2	110.2
2001	110.4	110.4	110.4	108.5	108.6	108.5	108.1	107.6	107.8	107.8	107.7	107.7
2002	107.5	106.6	106.5	105.7	105.6	105.3	104.3	104.5	104.5	103.6	103.5	102.8
2003	102.7	101.9	102.8	102.7	102.6	102.1	101	101.1	101.4	100.5	100.9	100.9
2004	100.7	98.6	98.6	98.5	98.6	98.2	97.9	98.3	97.9	97.3	97.9	97.8
2005	97.5	97.3	97.4	97.5	97.4	97.2	97.1	97	96.6	96.6	96.5	96.4
2006	95.7	96.1	95.9	96	96	96.1	95.8	96	96.1	95.8	95.8	95.3
2007	95.5	95.7	95.9	95.8	95.8	95.8	95.8	95.8	95.8	95.9	95.8	95.8
2008	96.2	96.9	96.8	96.9	97.2	97.1	97.3	97.3	97.3	97.2	97.4	97.4
2009	97.5	97.2	97.2	97.2	97.1	97.1	97.2	97.1	97.2	97.2	97.2	97.2
2010	97.2	97.1	97.1	96.9	96.8	96.7	97	96.9	96.8	96.8	96.9	96.9
2011	96.8	96.7	96.8	96.4	96.4	96.2	96.3	96.4	96.4	95.9	95.9	95.9
2012	96	96	96	96	96.1	96.1	96	95.9	95	94.8	94.8	94.8
2013	95	95.1	95.1	95.3	95.2	95.5	95.5	95.6	95.8	95.4	95.4	95.5
2014	95.5	95.7	95.7	95.7	95.6	95.7	95.7	95.4	95.6	95.7	95.5	95.7
2015	95.8	95.8	95.9	95.9	96.1	96.1	96	95.9	95.4	95.7	95.7	95.6
2016	95.5	95.7	95.6	95.7	95.6	95.4	95.3	95.4	95.2	94.5	94.7	93.9
2017	94.1	93.9	94.1	94	93.8	93.9	93.9	93.6	93.3	93.2	93.5	93.4
2018	93.3	93.4	93.2	93.1	93.1	93.1	93	93.1	92.9	92.9	92.9	92.9
2019	93.3	93	93	93	93	93	93.1	93.1	93.1	93.3	93.5	93.6
2020	93.7	93.6	93.8	93.6	93.7	93.6	93.8	93.7	93.8	93.4	93.6	93.6
2021	93.5	93.8	93.8	93.9	93.7	93.6	94.108	94.197	94.65	95.308	95.645	95.791
2022	96.311	97.127	97.247	97.75	98.173	98.138	98.988	99.116	99.322	99.519	100.694	100.713
2023	101.378	101.16	101.168	101.98	101.913	102.569	102.287	102.321	102.345	102.459	02.710(P)	02.701(P)
2024	103.357	104.095	104.11	104.094	104.197							
P : Preliminary. All indexes are subject to monthly revisions up to four months after original publication.												
		104.095(P)	104.110(P)	104.094(P)	104.197(P)							

TRANSPORTATION EQUIPMENT

Series Id: PCU336110336110
Series Tit PPI industry data for Automobile, light truck and utility vehicle mfg, not seasonally adjusted
Industry: Automobile, light truck and utility vehicle mfg
Product: Automobile, light truck and utility vehicle mfg
Base Dat 198206

Download:

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1975												62.9
1976	63	62.9	63	63.1	62.9	63	63	63.3	63.4	66.9	66.9	66.9
1977	66.8	66.8	66.9	67.1	67.2	67.3	67.3	67.4	67.4	71.4	71.3	71.4
1978	71.4	71.4	71.4	71.4	72.5	72.7	72.5	72.5	72.5	75.4	75.4	75.6
1979	76.7	76.9	77	78.3	78.4	78.5	78.7	76.8	77	81.9	81.8	82
1980	83.5	82.8	82.9	85.2	84.6	84.6	86.3	86.7	82.7	90.9	91	90.6
1981	91.4	91.6	90.7	93.3	94.1	94.5	94.6	94.4	90.2	99.7	99.8	100.1
1982	100.5	97.5	97.5	97.4	98.8	100	100.1	100.4	94.9	102.5	102.5	102.7
1983	102.2	101.8	101.4	101.6	101.7	101.8	102	102.3	97.8	104.2	104.2	104.3
1984	104.5	104.5	104.6	104.9	104.6	104.4	104.7	104.4	101	106.1	106.3	105.5
1985	106.7	106.8	106.5	106.5	107	107.3	107.3	107.2	100.2	110.4	110.4	110.2
1986	109	109.3	108.7	110.3	110	110.2	110.3	109.7	105.6	116.9	116.7	115.4
1987	115.3	112.6	111.9	113.7	112.9	112.5	112.4	111.4	108.4	116.5	115.2	112.8
1988	113	113	112.5	112.6	113	113.1	113.2	113.3	110.2	119.5	118.1	117.9
1989	117.8	118.1	116.4	115.4	116.6	116.9	114.7	114.6	113.3	122.5	121.2	120.8
1990	118.4	118.5	118	117.8	117.3	119	119.2	118.2	117.2	125	124.8	124.8
1991	125.1	125.9	125.5	124.4	123.2	122.9	122.8	122.6	120.3	131	130.3	129.5
1992	129.2	129	129.3	129.2	128.9	128.3	128.4	127.5	123.5	132.1	132.1	131.8
1993	132.1	132.9	133	132.9	132.6	132.8	132.9	132.6	128	135.7	136.2	136.3
1994	137.3	137.5	137.4	137.4	138.3	138.1	138.2	138.2	133.9	140	139.3	139.8
1995	140.1	139.9	139.3	139.1	138.7	137.8	137.7	137.2	132.9	141.7	142.4	142.4
1996	141.2	141.1	141.1	140.5	140.6	140.7	139.5	139.2	135.6	142.2	141.9	141.6
1997	141.7	141.5	141.2	140.3	138.4	138	135.9	135.9	133.7	140.6	139.4	137.8
1998	137.8	138	137.8	137.2	135.4	134.3	134.8	133.9	132.7	140.6	140.4	139.2
1999	138.2	138.7	137.7	138	137.2	136	134.7	134.4	133.4	142.1	140.8	140.5
2000	139.9	139.4	139	138.9	138.9	137.4	136.8	135.8	135.5	141.2	141.3	141.1
2001	140.3	137.7	138.1	138.9	136.9	135.9	136.5	136	135.8	138.3	137.8	138.3
2002	136.8	137.7	136.4	136	134.9	134.4	131.3	130.3	130.4	139	136.5	135
2003	135.7	135.8	138.5	134	133.6	132	131.6	132	130.5	140.7	139	137.6
2004	137.4	136.8	137.1	135.9	136.2	136.2	132.8	132.4	131.5	142	139.9	139.5
2005	139.8	137.4	136.8	136.5	135.8	132.6	132.8	131.7	131.9	137.8	134.8	132.9
2006	133.7	133.7	133.4	132.3	132	130.6	123.7	125.7	126.5	129.4	135	133.8
2007	132.8	132.5	131.9	130.5	130.1	129.8	129.2	128.2	126.6	134.1	134.8	132.9
2008	133.6	133.5	132.1	133.1	132.2	129.5	128.2	129.1	128.7	139.4	137.7	137.6
2009	137	136.8	136	136.7	136.1	137.9	134.6	136.1	133.8	138.3	139.5	138.1
2010	139.3	139	137.8	137.2	137.3	135.4	134.8	135	134.5	137.7	137	136.4
2011	137	137	136.7	137.4	136.7	136.9	136.7	136.5	135.7	140.6	140.7	140.3
2012	141	140.4	140.3	140.6	139.7	140.1	140.9	140.8	139.6	143.9	144.1	143.6
2013	143.4	143.3	142.6	142.4	141.7	141.3	140.7	140.4	140.2	144.8	145.6	146.4
2014	146.8	146.6	145.5	145.2	144.4	143.8	143.6	143.4	142.6	148	147.8	146.3
2015	147.8	149.4	149.2	148.7	148.5	148.1	148.5	147.4	147.2	150.7	150.6	150.5
2016	149.9	150.2	149.8	149.6	149.7	149.8	148.5	147.7	147.6	152.7	152.4	153.4
2017	152.6	152.3	152.9	152.8	151.2	151.2	150.1	149.8	149.8	153.5	154.3	154.3
2018	153.3	152.9	152.9	152.5	152.5	152.7	152.2	152.1	152.4	155.3	155.2	155
2019	154.8	154.5	153.7	153.4	153.2	153	152.6	152	151.7	154.6	155.1	154.5
2020	152.9	153.6	152	153	152.4	152	152.1	152.3	152.3	154.3	154.9	155.5
2021	156	155.8	155.4	155.7	156.7	157.5	157.86	158.19	158.147	159.507	159.73	159.847
2022	160.201	161.186	161.19	162.807	163.481	164.007	164.545	164.812	164.878	166.89	167.079	167.712
2023	168.284	168.284	167.938	167.559	167.456	167.097	167.295	167.146	167.138	169.13	169.361	168.428
2024	168.849	169.17	169.054	168.815	168.689							
		169.170(P)	169.054(P)	168.815(P)	168.689(P)							

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Returns Reference – Start Year
EARLIEST YEAR (Y

Returns Reference – End Year
2020

Returns Calculation - Mean
Arithmetic
Geometric

ERP Size Premium IRP CoE WACC Summary

	Firms			Portfolio		Size Premium	
Decile	Count	Min size ('000)	Max Size ('000)	Annual Return	Beta	S&P 500	Beta Adjusted
1 - Largest	199	$29,075,803	$1,966,078,882	11.06%	0.92	(0.75%)	

2	186	$13,178,743	$28,808,073	12.82%	1.04	1.01%
3	210	$6,743,361	$13,177,828	13.66%	1.11	1.85%
4	218	$3,861,858	$6,710,676	13.67%	1.13	1.86%
5	255	$2,445,693	$3,836,536	14.49%	1.17	2.68%
6	246	$1,591,865	$2,444,745	14.82%	1.18	3.01%
7	306	$911,586	$1,591,765	15.63%	1.26	3.82%
8	365	$451,955	$911,103	15.91%	1.31	4.10%
9	412	$190,019	$451,800	16.69%	1.34	4.88%
10 - Smallest	569	$2,194	$189,831	19.64%	1.40	7.83%
1 through 2	385	$13,178,743	$1,966,078,882	11.32%	0.94	(0.48%)
3 through 5	683	$2,445,693	$13,177,828	13.80%	1.13	1.99%
6 through 8	917	$451,955	$2,444,745	15.27%	1.23	3.46%
9 through 10	981	$2,194	$451,800	17.53%	1.35	5.72%
1 through 5	1,068	$2,445,693	$1,966,078,882	11.64%	0.96	(0.17%)
6 through 10	1,898	$2,194	$2,444,745	15.49%	1.24	3.68%

S&P 500 Annual Return for Period 1928 - 2020 : 11.81%

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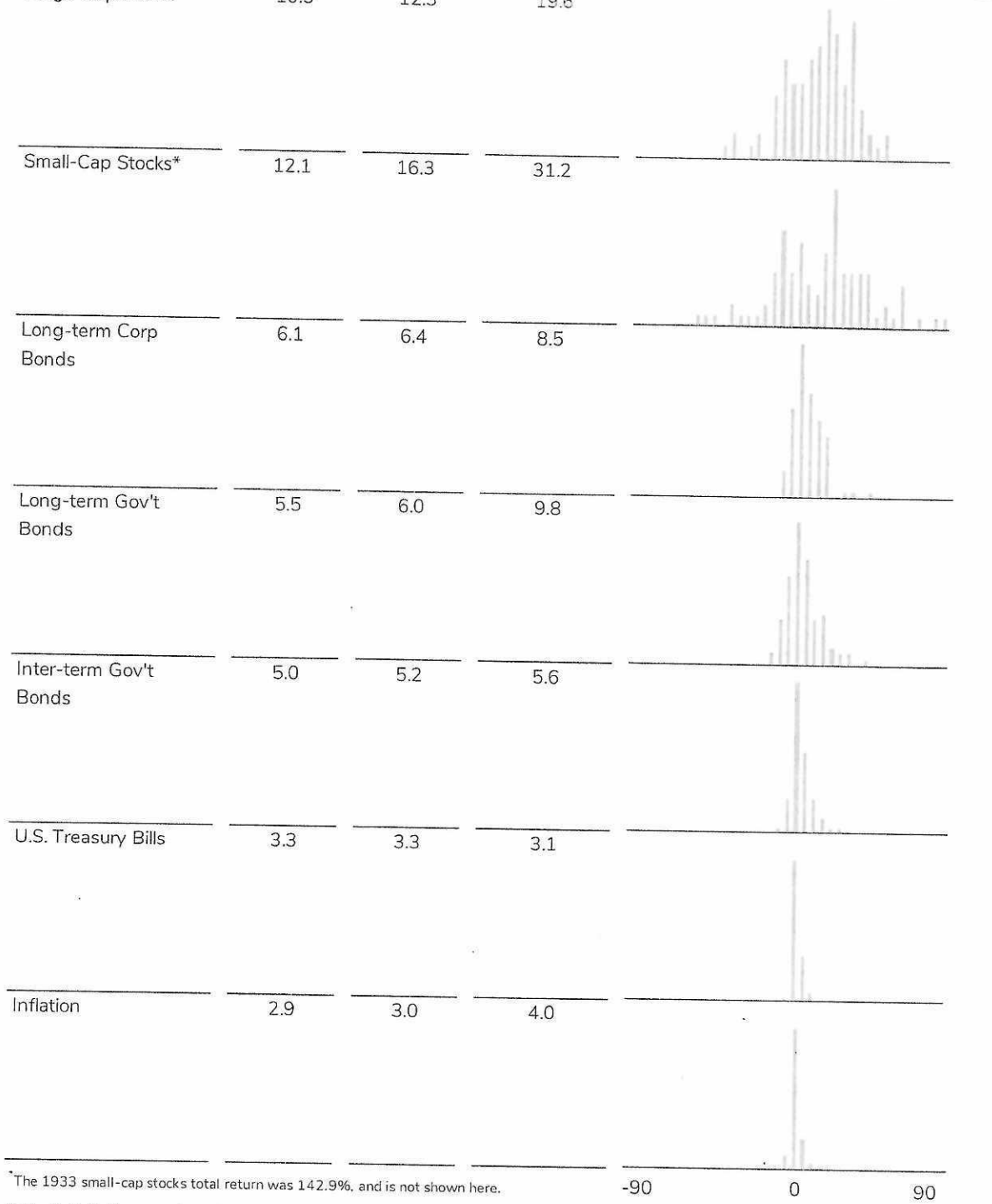
2022 SBBI® Yearbook

Stocks, Bonds, Bills, and Inflation®

U.S. Capital Markets Performance by
Asset Class 1926–2021

Exhibit 2.3: Basic Series, Summary Statistics of Annual Total Returns (%)
1926–2021

Series	Geometric Mean (%)	Arithmetic Mean (%)	Standard Deviation (%)	Distribution (%)
Large-Cap Stocks	10.5	12.3	19.6	
Small-Cap Stocks*	12.1	16.3	31.2	
Long-term Corp Bonds	6.1	6.4	8.5	
Long-term Gov't Bonds	5.5	6.0	9.8	
Inter-term Gov't Bonds	5.0	5.2	5.6	
U.S. Treasury Bills	3.3	3.3	3.1	
Inflation	2.9	3.0	4.0	



*The 1933 small-cap stocks total return was 142.9%, and is not shown here.

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Exhibit 6.8: Total Returns, Income Returns, and Capital Appreciation Returns of the SBBI® Asset Classes; Summary Statistics of Annual Returns (%)
1926–2021

	Geometric Mean (%)	Arithmetic Mean (%)	Standard Deviation (%)	Serial Correlation
Large-Cap Stocks				
Total Return	10.5	12.3	19.6	0.01
Income	3.9	3.9	1.6	0.92
Capital Appreciation	6.4	8.2	19.0	0.01
Small-Cap Stocks (TR)	12.1	16.3	31.2	0.05
Long-term Corp Bonds (TR)	6.1	6.4	8.5	0.01
Long-term Gov't Bonds				
Total Return	5.5	6.0	9.8	-0.16
Income	4.8	4.9	2.6	0.96
Capital Appreciation	0.5	0.9	8.9	-0.25
Inter-term Gov't Bonds				
Total Return	5.0	5.2	5.6	0.14
Income	4.3	4.3	2.9	0.96
Capital Appreciation	0.6	0.7	4.4	-0.17
U.S. Treasury Bills (TR)	3.3	3.3	3.1	0.92
Inflation	2.9	3.0	4.0	0.62

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In general, risk is rewarded by a higher return over the long term. For example, Exhibit 6.8 shows that over the 1926–2021 time horizon small-cap stocks were the riskiest asset class with a standard deviation of 31.2%, but also provided the greatest rewards to long-term investors, with an arithmetic mean annual return of 16.3%. Comparably, the risk (as measured by standard deviation) of large-cap stocks was significantly lower at 19.6%, and the reward (as measured by arithmetic average annual return) of large-cap stocks was correspondently lower at 12.3%.

U.S. Treasury bills, with a standard deviation of 3.1%, were nearly riskless and had the lowest arithmetic mean annual return at 3.3%.

Inflation-Adjusted Series Summary Statistics

Inflation-adjusted basic series summary statistics are presented in Exhibit 6.9. Note that the real rate of interest is close to zero (0.4%) on average. For the 96-year period, the geometric and arithmetic means are lower by the amount of inflation than those of the nominal series.

Note that this increased return comes at a price: risk (as measured by standard deviation) increased from 19.6% for large-cap stocks to 31.2% for small-cap stocks. The relationship between risk and return is a fundamental principle of finance. History tells us that small companies are riskier than large companies. Investors are compensated for taking on this additional risk by the higher returns provided by small companies.

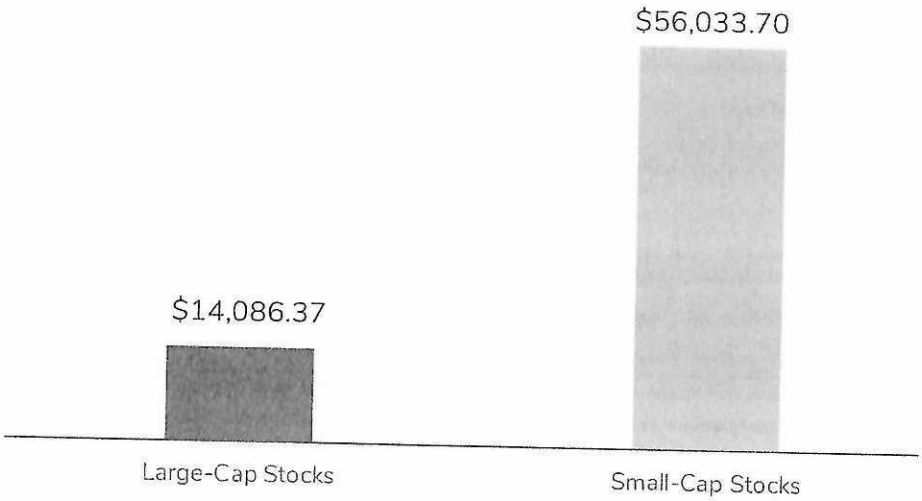
Exhibit 7.1: Summary Statistics of Large-Cap Stocks and Small-Cap Stocks (%)
1926–2021

	Geometric Mean (%)	Arithmetic Mean (%)	Standard Deviation (%)
Large-Cap Stocks	10.5	12.3	19.6
Small-Cap Stocks	12.1	16.3	31.2

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The differences in the performance of large-cap stocks and small-cap stocks can have important implications for investors. Exhibit 7.2 is a graphical depiction of the value of $1 invested at the end of 1925 in large-cap and small-cap stocks and held through December 31, 2021 (a total of 96 years).

Exhibit 7.2: The Value of $1 Invested in Large-Cap and Small-Cap Stocks, 1926–2021
Index (Year-end 1925 = $1.00)



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120 months (10-years), to 240 months (20-years) and finally to 360 months (30-years), small stocks increasingly outperform large stocks (55%, 66%, 88%, and 96% of the time, respectively).

This same pattern of increasing outperformance of small stocks as the holding period is increased can also be seen in the three "Post Banz" periods.

Long-term Returns in Excess of Systematic Risk

The capital asset pricing model, or CAPM, does not fully account for the higher returns of small-cap stocks. The textbook CAPM can be expressed as follows:

$$k_e = R_f + \beta \times (RP_m)$$

Where:

k_e	=	Cost of equity capital
R_f	=	Risk-free rate
β	=	Beta
RP_m	=	Equity risk premium (also referred as ERP)

According to the CAPM, the expected return on a security should consist of the riskless rate plus an additional return to compensate for the systematic risk of the security. The return in excess of the riskless rate is estimated in the context of the CAPM by multiplying the equity risk premium by beta. The equity risk premium is the return that compensates investors for taking on risk equal to the risk of the market as a whole (systematic risk). Beta measures the extent to which a security or portfolio is exposed to systematic risk.

The beta of each decile indicates the degree to which the decile's return moves with that of the overall market. A beta greater than one indicates that the security or portfolio has greater systematic risk than the market; according to the CAPM equation, investors are compensated for taking on this additional risk.

CAPM is an attempt to predict *future* returns. CAPM can be used to see how well it would have done predicting returns that we *already know* (i.e., historical returns; returns that have already occurred). This is called "back-testing". If what "actually happened" is greater than "what CAPM would have predicted", then CAPM fell short of explaining what actually happened.

Smaller companies tend to have returns that are not fully explained by their higher betas, so return in excess of that predicted by CAPM tends to *increase* as one moves from the largest companies to the smallest companies. This size related phenomenon prompted a revision to the CAPM to include a size premium. A size premium (as used in the CAPM equation) is thus a measure of "what actually happened" minus "what textbook CAPM predicted":

Size Premium = Actual Excess Return – Excess Return Predicted by CAPM

A size premium is a common adjustment that analysts make to the textbook CAPM when developing cost of equity capital estimates.[189] [190] This is sometimes referred to as the "modified" CAPM:

$$k_e = R_f + \beta \times (RP_m) + RPs$$

Where:

k_e	=	Cost of equity capital
R_f	=	Risk-free rate
β	=	Beta
RP_m	=	Equity risk premium (also referred as ERP)
RPs	=	Size Premium

The size effect is not without controversy, nor is this controversy something new. Traditionally, small companies are believed to have greater required rates of return than large companies because small companies are inherently riskier. It is not clear, however, whether this is due to size itself, or to other factors closely related to or correlated with size (e.g., liquidity).[191]

189 The CRSP Deciles Size Study and Risk Premium Report Study, both of which provide size premia and other risk premia based upon data licensed from the Center for Research in Security Prices (CRSP) at the University of Chicago Booth School of Business, are fully available in the Kroll Cost of Capital Navigator platform at kroll.com/costofcapitalnavigator (subscription required). CRSP® is a registered trademark and service mark of Center for Research in Security Prices, LLC and has been licensed for use by Kroll, LLC. The Kroll publications and services are not sponsored, sold or promoted by CRSP®, its affiliates or its parent company. To learn more about CRSP, visit www.crsp.org.

190 A detailed discussion of company size and return (and size premia) based upon CRSP deciles 1-10 and the 10th decile split (10a, 10b, 10w, 10x, 10y, and 10z) is available in the Resources Library of the Cost of Capital Navigator at kroll.com/costofcapitalnavigator. (subscription required).

191 For more information, see the Resources section of the Cost of Capital Navigator at kroll.com/costofcapitalnavigator. A comprehensive discussion of the size effect is in the Cost of Capital Navigator "U.S. Cost of Capital Module's" Resources Library.

Exhibit 10.8: Equity Risk Premium Calculated Using the S&P 500 and the Income Return on Three Government Bonds of Different Horizons (%)
1926–2021

	Long-horizon	Intermediate-horizon	Short-horizon
S&P 500	7.46	8.04	9.03

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The equity risk premium is calculated by subtracting the arithmetic mean of the government bond income return from the arithmetic mean of the stock market total return. Exhibit 10.9 demonstrates this calculation for the long-horizon equity risk premium, the intermediate-horizon equity risk premium, and the short-horizon equity risk premium.

Exhibit 10.9: Calculation of the Long-Horizon Equity Risk Premium, the Intermediate-Horizon Equity Risk Premium, and the Short-Horizon Equity Risk Premium (%)
1926–2021

	Arithmetic Annual Mean			
	S&P 500 (the "Market")	Risk-free Rate		Equity Risk Premium
S&P 500	12.33	4.87	=	7.46
Intermediate-horizon	12.33	4.29	=	8.04
Short-horizon	12.33	3.30	=	9.03

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The Market Benchmark and Firm Size

Although not restricted to the 500 largest companies, the S&P 500 is considered a large-cap index. The returns of the S&P 500 are market-cap-weighted. The larger companies in the index therefore receive the majority of the weight. If using a large-cap index to calculate the equity risk premium, an adjustment is usually needed to account for the different risk and return characteristics of small stocks. This was discussed in Chapter 7 on the size premium.

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2020

Returns Calculation - Mean
Arithmetic
Geometric

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Decile	Count	Min size ('000)	Max Size ('000)	Annual Return	Beta	S&P 500	Beta Adjusted
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S&P 500 Annual Return for Period 1928 - 2020 : 11.81%

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SJW Group makes $1.1 billion all-cash offer for Connecticut Water

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NEW YORK (Reuters) - SJW Group (SJW.N) and Connecticut Water Service Inc (CTWS.O) said on Monday they were changing from a merger to an acquisition agreement, with SJW offering to buy the New England utility for $1.1 billion in cash instead of combining stock.

The switch to an all-cash offer is worth $70 per Connecticut Water share, a 33 percent premium to Connecticut Water's share price prior to the original deal announced in March, according to a joint statement.

It was also higher than the implied $61.86 per share value of the Clinton, Connecticut-based firm under the merger-of-equals transaction, which would have created a combined company in which existing SJW shareholders would hold 60 percent of the stock.

SJW closed 2.3 percent lower, while Connecticut Water was 9 percent higher at $68.50.

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To pay for the acquisition, SJW will initially utilize a $975 million bridge loan from financial adviser JP Morgan Chase (JPM.N). Ultimately, the purchase would be covered by debt and between $450 million and $500 million of equity finance.

The new deal aims to conclude in the first quarter of 2019, subject to approvals from Connecticut Water's shareholders, as well as regulators in Connecticut and Maine.

The duo's original all-stock merger announcement in March triggered competing offers from Eversource Energy (ES.N) and California Water Service Group (CWT.N).

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"We have converted from a stock-for-stock deal to a cash offer, which will resolve any further market distractions from the inferior proposals," SJW Chief Executive Eric Thornburg told Reuters, in reference to the actions by Eversource and CalWater.

Switching to an acquisition, versus a merger structure, means that SJW shareholders will no longer be required to vote on approving the deal, the statement said.

CalWater has an open tender offer to acquire SJW that runs until Sept. 28.

However, asked if the change was aimed at heading off any shareholder challenge to the deal, Thornburg told Reuters it "wasn't a consideration" and it had received nothing but support from its shareholders.

RBS sounds alarm over Brexit

CalWater declined to comment. A spokesman for Eversource said the company was evaluating developments but, as it has made clear, it will be disciplined in pursuing this or any other transaction.

Reporting by David French in New York; Additional Reporting by Liana B. Baker; Editing by Lisa Shumaker

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BALANCE_SHEET2
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Period End: Dec 31, 2017
Date Filed: Mar 15, 2018
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CONNECTICUT WATER SERVICE, INC.

CONSOLIDATED BALANCE SHEETS

December 31, (in thousands, except share amounts)	2017	2016
ASSETS		
Utility Plant	$ 927,289	$ 777,860
Construction Work in Progress	11,761	33,748
	939,050	811,608
Accumulated Provision for Depreciation	(241,327)	(210,212)
Net Utility Plant	697,723	601,396
Other Property and Investments	10,662	9,071
Cash and Cash Equivalents	3,618	1,564
Accounts Receivable (Less Allowance, 2017 - $1,265; 2016 - $1,100)	14,965	13,024
Accrued Unbilled Revenues	8,481	8,171
Materials and Supplies, at Average Cost	1,593	1,536
Prepayments and Other Current Assets	7,021	5,069
Total Current Assets	35,678	29,364
Unrecovered Income Taxes - Regulatory Asset	66,631	93,264
Pension Benefits - Regulatory Asset	11,339	12,266
Post-Retirement Benefits Other Than Pension - Regulatory Asset	116	265
Goodwill	67,016	30,427
Deferred Charges and Other Costs	9,618	8,449
Total Regulatory and Other Long-Term Assets	154,720	144,671
Total Assets	$ 898,783	$ 784,502
CAPITALIZATION AND LIABILITIES		
Common Stockholders' Equity:		
Common Stock Without Par Value: Authorized - 25,000,000 Shares		
Issued and Outstanding:		
2017 - 12,065,016; 2016 - 11,248,458	$ 191,641	$ 145,739
Retained Earnings	102,417	91,213
Accumulated Other Comprehensive Loss	(428)	(924)
Common Stockholders' Equity	293,630	236,028
Preferred Stock	772	772
Long-Term Debt	253,367	197,047
Total Capitalization	547,769	433,847
Current Portion of Long-Term Debt	6,173	4,859
Interim Bank Loans Payable	19,281	32,953
Accounts Payable and Accrued Expenses	11,319	13,116
Accrued Interest	1,439	1,012
Current Portion of Refund to Customers - Regulatory Liability	64	855
Other Current Liabilities	3,262	2,330
Total Current Liabilities	41,538	55,125
Advances for Construction	20,024	19,127
Deferred Federal and State Income Taxes	33,579	50,558
Unfunded Future Income Taxes	58,384	90,977
Long-Term Compensation Arrangements	32,649	33,540
Unamortized Investment Tax Credits - Regulatory Liability	1,133	1,189
Excess Accumulated Deferred Income Tax - Regulatory Liability	30,937	4,373
Refund to Customers - Regulatory Liability	-	108
Other Long-Term Liabilities	1,241	701
Total Long-Term Liabilities	177,947	200,573
Contributions in Aid of Construction	131,529	94,957
Commitments and Contingencies	-	-
Total Capitalization and Liabilities	$ 898,783	$ 784,502

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CONNECTICUT WATER SERVICE INC / CT
INCOME_STATEMENT2
Form Type: 10-K
Period End: Dec 31, 2017
Date Filed: Mar 15, 2018
Table Of Contents

CONNECTICUT WATER SERVICE, INC.

CONSOLIDATED STATEMENTS OF INCOME

For the Years Ended December 31, (in thousands, except per share data)	2017	2016	2015
Operating Revenues	$ 107,054	$ 98,667	$ 96,041
Operating Expenses			
Operation and Maintenance	48,017	44,191	48,052
Depreciation	16,684	13,905	12,871
Income Taxes	(1,993)	2,570	(818)
Taxes Other Than Income Taxes	10,941	9,796	9,294
Total Operating Expenses	73,649	70,462	69,399
Net Operating Revenues	33,405	28,205	26,642
Other Utility Income, Net of Taxes	824	744	797
Total Utility Operating Income	34,229	28,949	27,439
Other Income (Deductions), Net of Taxes			
(Loss) Gain on Real Estate Transactions	33	(54)	349
Non-Water Sales Earnings	1,167	1,219	1,394
Allowance for Funds Used During Construction	774	1,198	530
Other	(2,308)	(1,009)	(214)
Total Other Income (Loss), Net of Taxes	(334)	1,354	2,059
Interest and Debt Expenses			
Interest on Long-Term Debt	9,054	7,714	7,087
Other Interest Income, Net	(359)	(922)	(458)
Amortization of Debt Expense and Premium, Net	146	124	108
Total Interest and Debt Expenses	8,841	6,916	6,737
Net Income	25,054	23,387	22,761
Preferred Stock Dividend Requirement	38	38	38
Total Net Income Applicable to Common Stock	$ 25,016	$ 23,349	$ 22,723
Weighted Average Common Shares Outstanding:			
Basic	11,540	11,009	10,958
Diluted	11,762	11,228	11,164
Earnings Per Common Share:			
Basic	$ 2.17	$ 2.12	$ 2.07
Diluted	$ 2.13	$ 2.08	$ 2.04

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

For the Years Ended December 31, (in thousands)	2017	2016	2015
Net Income	$ 25,054	$ 23,387	$ 22,761
Other Comprehensive Income (Loss), net of tax			
Adjustment to post-retirement benefit plans, net of tax benefit (expense) of $(419), $15, and $(505) in 2017, 2016, and 2015, respectively	289	(24)	765
Unrealized Investment gain (loss), net of tax (expense) benefit of $(13), $(22) and $62, in 2017, 2016, and 2015, respectively	207	35	(97)
Other Comprehensive Income, net of tax	$ 496	$ 11	$ 668
Comprehensive Income	$ 25,550	$ 23,398	$ 23,429

A-6 LIST OF TOWNS SERVED

List by operating divisions the towns served directly, indicating those in which franchise is for limited area by an asterisk (*) after name. Give population of the area and the number of customers.

Line No.	Town	Population of Area	Number of Customers	Line No.	Town	Population of Area	Number of Customers
					Sub Totals Forward:	30,120	725
1	Belmont N. H.	7,356	160	16			
2	Bow, N.H.	7,519	95	17			
3	Carroll, N.H.	763	409	18			
4	Belmont, NH	7,356	22	19			
5	Gilford, NH	7,126	39	20			
6				21			
7				22			
8				23			
9				24			
10				25			
11				26			
12				27			
13				28			
14				29			
15	Sub Totals Forward:	30,120	725	30	Total	30,120	725

A-7 PAYMENTS TO INDIVIDUALS

List names of all individuals, partnerships, or corporations to whom payments totaling $10,000 or more for services rendered were made or accrued during the year, and the amount paid or accrued to each. Where payments or accruals to the individual members of a partnership or firm together total $10,000 or more, list each individual and the amount paid or due each.

Line No.	Name	Address	Amount
1	NESC	Plainville,, Ct.	222,877
2	City of Laconia	Laconia, NH	91,004
3	Rowell's Services	Northfield, NH	57,242
4	Eversource	Boston, MA	43,226
5	CoBank	Greenwood Village, CO	43,000
6	Stephen P. St. Cyr & Associates	Biddeford, Me.	40,959
7	NH Brown Law	Somersworth, NH	37,206
8	PKF O'Conner Davies	Shelton, Ct.	36,020
9	State of NH	Concord, NH	16,544
10	Fortin Construction	Londonderry, NH	16,155
11	Town of Carroll	Carroll, NH	15,201
12	Town of Belmont	Belmont, NH	14,953
13	Harcros Chemicals	Chicago, IL	12,909
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30	Total		$ 647,296

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CONSUMPTION INFORMATION (Dover Division)

1. Estimated total population of territory covered by franchise		
2. Estimated population reached by the distributing system		
3. Estimated population actually supplied		1,809
4. Total consumption during the year in gallons		50,866,736
5. Average daily consumption (in gallons)		138,429
6. Day on which the greatest amount was pumped		8/13/2020
7. Gallons pumped on above day		368,000
8. Week during which greatest amount was pumped	8/9/20-8/15/20	
9. Gallons pumped during above week		1,906,000
10. Gallons per day per service		218
11. Consumption metered		50,866,736
12. Consumption metered,	100 percent of total consumption	

13. CUSTOMERS

Number Being Supplied at Beginning of Year	Discontinued Since	Connected Since	Number Being Supplied at Close of Year
637	1	0	636

Name of City, Town, or District	Number of Customers as of December 31
Dover, MA	636

Sixty-four of these connections represent contractual service to Town of Dover plus one master meter at town connection.

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CONSUMPTION INFORMATION (Plymouth Division)

1. Estimated total population of territory covered by franchise	2,513
2. Estimated population reached by the distributing system	2,513
3. Estimated population actually supplied	2,513
4. Total consumption during the year (GALS)	101,211,880
5. Average daily consumption	294,414
6. Day on which the greatest amount was pumped	7/27/2020
7. Gallons pumped on above day	724,300
8. Week during which greatest amount was pumped	7/26/2020-8/1/2020
9. Gallons pumped during above week	4,544,900
10. Gallons per day per service	219
11. Consumption metered	101,211,880
12. Consumption metered,	100% percent of total consumption

13. CUSTOMERS

Number Being Supplied at Beginning of Year	Discontinued Since	Connected Since	Number Being Supplied at Close of Year
853	0	9	862

Name of City, Town, or District	Number of Customers as of December 31
Plymouth, MA	862

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CONSUMPTION INFORMATION (Springdale Division)

1. Estimated total population of territory covered by franchise		115
2. Estimated population reached by the distributing system		115
3. Estimated population actually supplied		115
4. Total consumption during the year (GALS)		7,463,606
5. Average daily consumption		20,448
6. Day on which the greatest amount was pumped		6/27/2020
7. Gallons pumped on above day		88,000
8. Week during which greatest amount was pumped	6/21/20-6/27/20	
9. Gallons pumped during above week		407,000
10. Gallons per day per service		418
11. Consumption metered		7,463,606
12. Consumption metered,	100 percent of total consumption	

13. CUSTOMERS

Number Being Supplied at Beginning of Year	Discontinued Since	Connected Since	Number Being Supplied at Close of Year
41	0	1	42

Name of City, Town, or District	Number of Customers as of December 31
Dover, MA	42

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CONSUMPTION INFORMATION

1. Estimated total population of territory covered by franchise	1100	
2. Estimated population reached by the distributing system	1100	
3. Estimated population actually supplied	1100	
4. Total consumption during the year	31,956,826	gals.
5. Average daily consumption	87,553	gals.
6. Day on which the greatest amount was pumped	7/20/2020	
7. Gallons pumped on above day	173,596	
8. Week during which greatest amount was pumped	7/16/20-7/25/20	
9. Gallons pumped during above week	975,066	
10. Gallons per day per service	180	
11. Consumption metered	31,956,826	gals.
12. Consumption metered,	100	% of total consumption

13. CUSTOMERS

Number Being Supplied at Beginning of Year	Discontinued Since	Connected Since	Number Being Supplied at Close of Year
487	0		487

Name of City, Town, or District	Number of Customers as of December 31
Sheffield, MA	
*487 metered customers, 3 fixed fee customers	490

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Filed by Eversource Energy
(Commission File No. 001-05324) pursuant
to Rule 425 under the Securities Act of 1933

Subject Company: New England Service Company

JOINT NEWS RELEASE

New England Service Company To be Acquired by Aquarion Water Company

Region's largest private water company expands operations in
Connecticut, Massachusetts and New Hampshire

BRIDGEPORT, CONN. – April 8, 2021 – Aquarion Company (Aquarion), parent of Aquarion Water Company, and New England Service Company (NESC) (OTC Pink Sheets Trading Symbol: NESW) today announced that they have entered into a definitive agreement whereby Aquarion will acquire all outstanding shares of NESC and NESC will become a wholly-owned subsidiary of Aquarion. Aquarion is a water supply company and holding company based in Bridgeport, Connecticut, providing regulated water service to customers in Connecticut, Massachusetts, and New Hampshire. NESC is a holding company based in Plainville, Connecticut providing regulated water service to customers in Connecticut, Massachusetts, and New Hampshire.

Under the agreement, which was unanimously approved by the Boards of Directors of both Aquarion and NESC, the acquisition will be executed through a stock-for-stock transaction that is structured to be a tax-free reorganization. The agreement provides that the stockholders of NESC will receive 0.51208 shares of the common shares of Aquarion's parent, Eversource Energy (Eversource) (NYSE: ES), in exchange for each share of NESC common stock. The fixed exchange ratio implies a $44.90 per share price based on the $87.68 closing price of Eversource Energy common shares on April 6, 2021. In connection with the exchange, Eversource Energy will issue approximately 463,000 shares of ES Common Stock at closing.

The merger includes NESC's Valley Water System in Connecticut, Colonial Water Company and Mountain Water Systems in Massachusetts, and Abenaki Water Company in New Hampshire, as well as unregulated service operations throughout New England. The merger will add nearly 10,000 customers to Aquarion's existing base of 216,000 customers. Under the agreement, all NESC employees will be retained.

"This merger will create long-term benefits for customers, employees, and the communities we serve," said Donald Morrissey, President of Aquarion Water Company. "We will make investments in these water systems focused on reliability and water quality and deliver a superior customer experience. We also welcome NESC's dedicated employees to the Aquarion team. I'm confident that we share a similar passion for delivering superior water service to customers and the communities we serve and being great stewards of the environment."

Over the last ten years, Aquarion has integrated over 70 water systems into its operations, strengthening the company's ability to deliver high-quality water to communities throughout the region.

"I am pleased to announce the NESC and Aquarion combination and look forward to working with Aquarion's leadership team on a smooth transition for our customers and employees," said Don Vaughan, NESC Chairman. He also noted, "Aquarion is well-positioned to deliver the reliable high-quality water service that our customers expect." NESC President, Nicholas LaChance, added "The stockholders, customers and employees of NESC will benefit from this deal with Aquarion. We view this transaction with Aquarion as a win for all of our stakeholders, and we look forward to working closely with their team."

The completion of the transaction will require approval by the stockholders of NESC, and the NESC Board of Directors has resolved to recommend the adoption of the merger agreement by the stockholders. The transaction is also subject to the approval of regulatory authorities, including the Connecticut Public Utilities Regulatory Authority, Massachusetts Department of Public Utilities, and New Hampshire Public Utilities Commission, and satisfaction of several other conditions. The parties plan to file all required regulatory applications over the coming months with an anticipated closing by the end of 2021.

Advisors and Counsel

Ropes & Gray LLP served as counsel to Aquarion Company and Eversource Energy in the transaction. Boenning & Scattergood, Inc. provided a fairness opinion to the Board of Directors of New England Service Company. Cranmore, FitzGerald and Meaney served as counsel to New England Service Company.

About Aquarion Water Company:

Aquarion Water Company is the public water supply company for more than 625,000 people in 52 cities and towns throughout Connecticut, as well as serving customers in Massachusetts and New Hampshire. It is the largest investor-owned water utility in New England and among the seven largest in the U.S. Based in Bridgeport, CT, Aquarion has been in the public water supply business since 1857. Across its operations, Aquarion strives to act as a responsible steward of the environment and to assist the communities it serves in promoting sustainable practices. Aquarion Company is a wholly-owned subsidiary of Eversource.

For more information on Aquarion Water Company, please visit www.aquarionwater.com or www.facebook.com/aquarionwater.

About New England Service Company

Headquartered in Plainville, Connecticut, NESC is predominantly involved in the operation, management and financing of water systems and other related activities. NESC was formed in 1997 to operate in both regulated and unregulated water markets. NESC is the sole stockholder of four regulated water companies.

For more information on New England Service Company please visit
www.NewEnglandServiceCompany.com

This news release includes statements concerning Aquarion and Aquarion Water Company's expectations, beliefs, plans, objectives, goals, strategies, assumptions of future events, future financial performance or growth and other statements that are not historical facts, including statements regarding the planned merger with New England Service Company, the timing of such transaction and benefits anticipated from such transaction. These statements are "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. Generally, readers can identify these forward-looking statements through the use of words or phrases such as "will," "estimate," "expect," "anticipate," "intend," "plan," "project," "believe," "forecast," "should," "could" and other similar expressions. Forward-looking statements involve risks and uncertainties that may cause actual results or outcomes to differ materially from those included in the forward-looking statements. Factors that may cause actual results to differ materially from those included in the forward-looking statements include, but are not limited to: the transaction is subject to conditions to closing, including regulatory approvals, that may not be satisfied; it may take longer than anticipated to consummate the transaction; we may not realize the benefits we anticipate from the transaction; unforeseen liabilities; risks relating to integration of the acquired business; and other presently unknown or unforeseen factors.

Other risk factors are detailed in Eversource Energy's reports filed with the Securities and Exchange Commission (SEC) and updated as necessary, and are available on Eversource Energy's website at www.eversource.com and on the SEC's website at www.sec.gov. All such factors are difficult to predict and contain uncertainties that may materially affect Aquarion or Aquarion Water Company's actual results, many of which are beyond our control. You should not place undue reliance on the forward-looking statements; each speaks only as of the date on which such statement is made, except as required by federal securities laws, and Aquarion Water Company undertakes no obligation to update any forward-looking statement or statements to reflect events or circumstances after the date on which such statement is made or to reflect the occurrence of unanticipated events.

Additional Information

This communication does not constitute an offer to buy or solicitation of any offer to sell securities. This communication relates to a proposed business combination transaction between Aquarion Company and New England Service Company. In connection with the proposed business combination, Eversource Energy will file a registration statement with the SEC. This communication is not a substitute for any registration statement, prospectus/proxy statement or other document Eversource Energy, Aquarion Company and/or New England Service Company may file with the SEC in connection with the proposed transaction. INVESTORS AND SECURITY HOLDERS OF NEW ENGLAND SERVICE COMPANY ARE URGED TO READ CAREFULLY THE REGISTRATION STATEMENT, PROSPECTUS, PROXY STATEMENT AND OTHER DOCUMENTS FILED WITH THE SEC WHEN THEY BECOME AVAILABLE BECAUSE THEY WILL CONTAIN IMPORTANT INFORMATION ABOUT EVERSOURCE ENERGY, AQUARION COMPANY, NEW ENGLAND SERVICE COMPANY AND THE PROPOSED TRANSACTION. Investors and security holders may obtain free copies of these documents (when they are available) and other related documents filed with the SEC at the SEC's web site at www.sec.gov or by directing a request to Eversource's Investor Relations department at (860) 665-5154 or by email to jeffrey.kotkin@eversource.com.

Certain Information Regarding Participants

This filing may be deemed solicitation material in respect of the proposed business combination transaction between Aquarion Company and New England Service Company. The directors, trustees, executive officers and certain other members of management and employees of Eversource Energy, Aquarion Company and New England Service Company may be deemed "participants" in the solicitation of proxies from stockholders of New England Service Company in favor of the proposed merger. You can find information about Eversource's trustees and executive officers in Eversource's annual report on Form 10-K for the year ended December 31, 2020, which was filed with the SEC on February 17, 2021 and its proxy statement for its 2021 annual meeting filed with the SEC on March 26, 2021. Information regarding the persons who may, under the rules of the SEC, be considered participants in the solicitation of the stockholders of New England Service Company in connection with the proposed merger will be set forth in the registration statement, prospectus/proxy statement or other documents filed with the SEC if any when they become available. You may obtain these documents (when they become available) free of charge at the SEC's web site at www.sec.gov and from Investor Relations at Eversource as described above.

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NEW ENGLAND SERVICE COMPANY, INC. AND SUBSIDIARIES

Consolidated Balance Sheets

	December 31, 2020	December 31, 2019
ASSETS		
Utility plant, at cost	$ 52,176,919	$ 50,866,999
Less accumulated depreciation and amortization	(17,108,971)	(16,242,563)
Net Utility Plant	35,067,948	34,624,436
Non-utility property, plant and equipment	2,340,344	2,229,441
Less: accumulated depreciation	(841,502)	(736,994)
Net Non-Utility Property, Plant and Equipment	1,498,842	1,492,447
Current Assets		
Cash and cash equivalents	1,217,863	781,095
Marketable securities	387,294	456,385
Accounts receivable	682,735	728,725
Accrued unbilled revenues	391,450	369,136
Regulatory asset - revenue adjustment mechanism, current portion	83,303	218,322
Income taxes receivable	-	5,286
Materials and supplies inventory	105,343	99,032
Prepaid expenses	51,811	52,968
Total Current Assets	2,919,799	2,710,949
Other Assets		
Investment in cooperative capital plan	28,473	21,500
Deferred charges and other regulatory assets	2,243,524	1,750,628
Regulatory asset - revenue adjustment mechanism, net of current portion	10,426	48,847
Preliminary survey and investigation	5,111	4,883
Regulatory asset - income taxes recoverable	4,263,900	4,238,900
Total Other Assets	6,551,434	6,064,758
Total Assets	$ 46,038,023	$ 44,892,590

See Notes to Consolidated Financial Statements

NEW ENGLAND SERVICE COMPANY, INC. AND SUBSIDIARIES

Consolidated Balance Sheets *(continued)*

	December 31, 2020	December 31, 2019
STOCKHOLDERS' EQUITY AND LIABILITIES		
Stockholders' Equity		
Common stock, no par; 3,000,000 shares authorized; 906,418 shares issued, 903,325 and 900,850 shares outstanding at December 31, 2020 and 2019	$ 3,784,217	$ 3,784,217
Additional paid in capital	297,426	297,426
Treasury stock, at cost, 3,093 and 5,568 shares at December 31, 2020 and 2019	(72,974)	(128,758)
Retained earnings	12,776,934	12,511,864
Total Stockholders' Equity	16,785,603	16,464,749
Long-term debt, net of current portion	9,148,153	9,349,951
Current Liabilities		
Note payable, bank	122,000	70,500
Current portion of long-term debt	678,831	570,170
Accounts payable and accrued expenses	765,365	544,412
Accrued property and other taxes	234,396	215,792
Deferred revenues	117,927	76,874
Total Current Liabilities	1,918,519	1,477,748
Other Liabilities		
Deferred income taxes	5,739,210	5,443,590
Regulatory - excess deferred income taxes	762,275	763,669
Regulatory - excess income taxes	293,643	195,762
Security deposits and other deferred credits	105,525	109,249
Customer advances for construction	97,586	42,738
Contributions in aid of construction	9,519,329	9,431,954
Amortized contributions in aid of construction	1,668,180	1,614,180
Total Other Liabilities	18,185,748	17,601,142
Total Stockholder's Equity and Liabilities	$ 46,038,023	$ 44,893,590

See Notes to Consolidated Financial Statements

NEW ENGLAND SERVICE COMPANY, INC. AND SUBSIDIARIES

Consolidated Statements of Income

	Year Ended December 31, 2020	2019
OPERATING REVENUES		
Contracts with customers		
Utility revenues	$ 6,531,154	$ 6,047,244
Contracting and jobbing	1,519,110	1,497,323
Total Contracts with Customers	8,050,264	7,544,567
Alternative revenue programs	(56,176)	97,506
Total Operating Revenues	7,994,088	7,642,073
OPERATING EXPENSES		
Operation expenses	3,399,314	3,292,866
Maintenance expenses	369,749	322,583
Cost of contracting and jobbing	737,715	804,274
Depreciation and amortization	1,170,093	1,129,426
Taxes other than income taxes	757,357	743,266
Interest charges	347,298	350,372
Total Operating Expenses	6,781,526	6,642,787
Income from Operations	1,212,562	999,286
OTHER INCOME AND (DEDUCTIONS)		
Rental income and other	2,000	3,114
Investment income	21,350	70,550
Allowance for funds used during construction	10,771	5,275
Non-operating expense	(3,454)	(2,676)
Total Other Income	30,667	76,263
Income Before Income Taxes	1,243,229	1,075,549
Income tax expense	310,230	289,200
Net Income	$ 932,999	$ 786,349
PER SHARE AMOUNTS		
Weighted average shares outstanding	902,454	897,030
Net income	$ 1.03	$ 0.88
Dividends	$ 0.74	$ 0.70
Book value	$ 18.60	$ 18.35

See Notes to Consolidated Financial Statements

VALLEY WATER SYSTEMS, INC.

Notes to Financial Statements
Years Ended December 31, 2020 and 2019

1. Description of the Company

Valley Water Systems, Inc. (the "Company"), a wholly owned subsidiary of New England Service Company ("NESC"), is a public utility distributing water to approximately 6,760 customers in the towns of Plainville, Farmington, and Southington, Connecticut area. As a public utility operating in Connecticut, the Company functions under rules and regulations prescribed by the State of Connecticut Public Utilities Regulatory Authority ("PURA").

2. Summary of Significant Accounting Policies

Basis of Presentation

The Company maintains its accounts in accordance with the PURA Uniform System of Accounts as prescribed for Water Utilities Class A. The Company prepares its financial statements in accordance with accounting principles generally accepted in the United States of America which include the provisions of the Financial Accounting Standards Board ("FASB") Accounting Standards Codification ("ASC") Topic 980, *Regulated Operations* ("ASC 980"). Under ASC 980, regulated companies defer costs and credits on the balance sheet as regulatory assets and liabilities when it is probable that those costs and credits will be recognized in the rate setting process in a period different from the period in which they would have been reflected in income by an unregulated company. These deferred regulatory assets and liabilities are then reflected in the income statement in the period in which the same amounts are reflected in rates charged for service.

Use of Estimates

The preparation of financial statements require management to make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities, and the reported revenues and expenses. Accordingly, actual results could differ from these estimates.

Cash and Cash Equivalents

Cash and cash equivalents includes cash balances held in bank accounts and highly liquid debt instruments with maturities of three months or less at the time of purchase.

From time to time, the Company had on deposit at financial institutions cash and cash equivalents which exceed current federal deposit insurance limitations. The Company had not experienced any losses in such accounts to date and believes it is not exposed to any significant credit risk on cash and cash equivalents.

Accounts Receivable

Accounts receivable are stated at the amount management expects to collect from outstanding balances. The Company continuously monitors the creditworthiness of customers and establishes, when necessary, an allowance for amounts that may become uncollectible in the future based on current economic trends, historical payment and bad debt write-off experience.

subsidiary water companies, serving approximately 200,000 customers in 52 towns and cities with a population of approximately 674,000 throughout Connecticut's seven counties.[2] A map showing AWC-CT's current service area is attached to the Joint Application as Exhibit I. AWC-CT has provided water and water services to Connecticut residents and customers continuously since 1857. AWC-CT is well known to PURA and well respected by the water industry in Connecticut, and nationally. AWC-CT had over $1.68 billion of utility plant assets as of December 31, 2020 and operating revenues of $189.6 million in 2020.

Q. Please describe New England Service Company.

A. NESC is a Connecticut stock corporation. NESC was formed in 1996 as a holding company to operate in both regulated and unregulated water utility markets. NESC has one regulated water distribution operating subsidiary in Connecticut. VWS, a utility established in 1884 as the Plainville Water Company, delivers water to over 6,800 customers or a population of approximately 18,000 in Plainville, Southington, and Farmington, Connecticut. A map showing VWS' current service area is attached to the Joint Application as Exhibit I.

In addition to owning VWS, NESC is also the sole stockholder of Colonial Water Company, a utility that provides water to about 1,530 customers in Dover and Plymouth, Massachusetts; Mountain Water Systems, a utility that provides water to about 490 customers in Sheffield, Massachusetts; and Abenaki Water Company, a combination of

[2] AWC-CT has acquired and integrated 16 new water systems since its last general rate proceeding in September 2013 via the acquisitions of the assets of the Indian Fields, West Service Corp. (2 systems), Bedrock, East Derby, Litchfield Hills, Southeastern CT Water Authority Lantern Hill Division, Hickory Hills Corporation, Arlington Acres, Pleasure Valley, Hillside Water Corporation, Town of Marlborough, and Town of New Fairfield systems, in addition to the transfer of the Laurel Ridge, West Shore Owners Association and Interlaken Water System assets.

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Filed by Eversource Energy
(Commission File No. 001-05324) pursuant
to Rule 425 under the Securities Act of 1933
Subject Company: The Torrington Water Company

THE TORRINGTON WATER COMPANY LETTERHEAD

March 8, 2022

Dear Stockholder:

We are pleased to announce that on March 7, 2022, the Board of Directors of The Torrington Water Company (OTC Pink Sheets Trading Symbol: TORW) unanimously approved an Agreement and Plan of Merger (the "Agreement") with Aquarion Company (" Aquarion"), a wholly-owned subsidiary of Eversource Energy (NYSE: ES). Aquarion is a holding company based in Bridgeport, Connecticut with regulated water operations in Connecticut, Massachusetts, and New Hampshire. The Torrington Water Company ("TWC") is a public utility that provides water service to approximately 10,000 customers in the city of Torrington and the towns of Burlington, Harwinton, Litchfield and New Hartford, Connecticut.

Under the terms of the Agreement, which has been unanimously approved by the boards of directors of Aquarion and TWC, TWC would merge with and become a wholly-owned subsidiary of Aquarion, and the stockholdcrs of TWC would receive in exchange for their TWC shares a number of validly issued, fully paid and nonassessable common shares, par value $5.00 per share, of Eversource Energy. The exchange ratio ("Exchange Ratio") that determines the number of Eversource Energy common shares issued in the merger will float between 1.0241 and 1.07 IO and will be determined by dividing $93.51 by Eversource's volume weighted average share price for IO full trading days ending on and including the second full trading day prior to closing date of the merger ("Eversource Share Value"). The Exchange Ratio becomes fixed at 1.0710 if the Eversource Share Value is less than $87.32 and becomes fixed at 1.0241 if the Eversource Share Value is greater than $91.32. An Exchange Ratio of 1.0710 implies a $92.81 per share value based on the closing price of $88.66 for Eversource Energy common shares on March 7, 2022, or a market premium of approximately I 04% over TWC's $45.50 closing price on March 7, 2022. Boenning & Scattergood, Inc. provided a fairness opinion to the Board of Directors of TWC. Based on an Exchange Ratio or 1.07 IO and the most recently declared dividends by TWC and Eversource Energy, TWC shareholders would receive an equivalent dividend of $2.58 per share compared to their current dividend on TWC shares of$1.38 per share.

The completion of the merger will require approval by the stockholders of TWC, and the TWC Board of Directors has resolved to recommend the adoption of the Agreement by the stockholders. The merger is also subject to the satisfaction of several other customary closing conditions, including the approval of the Connecticut Public Utilities Regulatory Authority. The parties plan to file for the approval of the Connecticut Public Utilities Regulatory Authority shortly, with an anticipated consummation of the merger by the end of 2022.

Within the coming weeks, you will be mailed a Proxy Statement/Prospectus for the TWC Stockholder Meeting, at which TWC stockholders will consider and vote with respect to the proposed merger.

Enclosed with this letter is the press release announcing the signing of the Agreement. The press release provides additional information that will answer many of your questions.

Sincerely yours,
Susan Suhanovsky
President

Forward-Looking Statements

This letter includes statements concerning The Torrington Water Company's expectations, beliefs, plans, objectives, goals, strategies, assumptions of future events, future financial performance or growth and other statements that are not historical facts, including statements regarding the planned merger with Aquarion Water Company, the timing of such transaction and benefits anticipated from such transaction. These statements are "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. Generally, readers can identify these forward-looking statements through the use of words or phrases such as "will," "estimate," "expect," "anticipate," "intend," "plan," "project," "believe," "forecast," "should," "could" and other similar expressions. Forward-looking statements involve risks and uncertainties that may cause actual results or outcomes to differ materially from those included in the forward-looking statements. Factors that may cause actual results to differ materially from those included in the forward-looking statements include, but are not limited to: the transaction is subject to conditions to closing, including regulatory approvals, that may not be satisfied; it may take longer than anticipated to consummate the transaction; we may not realize the benefits we anticipate from the transaction; unforeseen liabilities; risks relating to integration of the acquired business; and other presently unknown or unforeseen factors.

This Communication Does Not Constitute a Solicitation of Proxies

This communication does not constitute an offer to buy or solicitation of any offer to sell securities. This communication relates to a proposed business combination transaction between Aquarion Company and The Torrington Water Company. In connection with the proposed business combination, Eversource Energy will file a registration statement with the SEC. This communication is not a substitute for any registration statement, prospectus/proxy statement or other document Eversource Energy, Aquarion Company and/or The Torrington Water Company may file with the SEC in connection with the proposed transaction. INVESTORS AND SECURITY HOLDERS OF THE TORRINGTON WATER COMPANY ARE URGED TO READ CAREFULLY THE REGISTRATION STATEMENT, PROSPECTUS, PROXY STATEMENT AND OTHER DOCUMENTS FILED WITH THE SEC WHEN THEY BECOME AVAILABLE BECAUSE THEY WILL CONTAIN IMPORTANT INFORMATION ABOUT EVERSOURCE ENERGY, AQUARION COMPANY, THE TORRINGTON WATER COMPANY AND THE PROPOSED TRANSACTION. Investors and security holders may be able to obtain free copies of these documents (when they are available) and other related documents filed with the SEC at the SEC's website at www.sec.gov. The materials may also be obtained for free by directing a written request to: Susan Suhanovsky, President, The Torrington Water Company, PO Box 867, Torrington, CT 06790, telephone (860) 489-4149. Investors should read the proxy materials/prospectus before making a decision regarding the merger.

This filing may be deemed solicitation material in respect of the proposed business combination transaction between Aquarion Company and The Torrington Water Company. The directors, trustees, executive officers and certain other members of management and employees of Eversource Energy, Aquarion Company and The Torrington Water Company may be deemed "participants" in the solicitation of proxies from stockholders of The Torrington Water Company in favor of the proposed merger. You can find information about Eversource's trustees and executive officers in Eversource's annual report on Form 10-K for the year ended December 31, 2021, which was filed with the SEC on February 17, 2022 and its proxy statement for its 2021 annual meeting filed with the SEC on March 26, 2021. Information regarding the persons who may, under the rules of the SEC, be considered participants in the solicitation of the stockholders of The Torrington Water Company in connection with the proposed merger will be set forth in the registration statement, prospectus/proxy statement or other documents filed with the SEC if any when they become available. You may obtain these documents (when they become available) free of charge at the SEC's web site at www.sec.gov and from Susan Suhanovsky at The Torrington Water Company as described above.

About Aquarion Water Company:

Aquarion Water Company is the public water supply company for more than 700,000 people in 68 cities and towns in Connecticut, Massachusetts and New Hampshire. It is the largest investor-owned water utility in New England and among the seven largest in the U.S. Based in Bridgeport, CT, Aquarion has been in the public water supply business since 1857. Across its operations, Aquarion strives to act as a responsible steward of the environment and to assist the communities it serves in promoting sustainable practices. Aquarion Water Company is a wholly-owned subsidiary of Eversource.

For more information on Aquarion Water Company, please visit www.aquarionwater.com or www.facebook.com/aquarionwater.

MUNICIPALITIES SUPPLIED

1. Show below the names of the municipalities in which the respondent supplies water and the number of customers in each.

Line No.	Name (a)	Estimated Population Supplied*** (b)	Number of customers served by meter* (c)	Number of customers not served by meter** (d)	Total customers supplied (e)
1	Torrington	29,000	9,789	-	9,789
2	New Hartford	18	7	-	7
3	Litchfield	171	57	-	57
4	Harwinton	402	134	-	134
5	Burlington	414	138		138
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55	Total	30,005	10,125	-	10,125

THE TORRINGTON WATER COMPANY

Balance Sheets

	December 31,		
	2021	2020	2019
ASSETS			
Utility plant, at cost	$74,999,793	$71,847,851	$69,057,611
Less: accumulated depreciation	26,458,744	25,210,076	24,139,469
Net utility plant	48,541,049	46,637,775	44,918,142
Nonutility property, net of accumulated depreciation	202,624	372,935	372,935
Current Assets			
Cash and cash equivalents	1,577,648	2,781,302	1,064,441
Accounts receivable	554,416	757,705	518,129
Accrued unbilled revenues	876,500	858,000	821,000
Regulatory asset-water revenue adjustment, current portion	627,149	631,461	707,560
Materials and supplies inventory	196,635	369,507	300,436
Prepaid expenses	168,630	183,413	132,139
Total Current Assets	4,000,978	5,581,388	3,543,705
Other Assets			
Other assets	1,924,448	1,976,334	2,306,894
Preliminary survey and investigation charges	154,216	154,216	230,862
Regulatory asset-income taxes recoverable	7,375,800	6,855,660	6,476,000
Regulatory asset-water revenue adjustment, net of current portion	146,373	142,065	154,160
Regulatory asset-unfunded postretirement benefits	3,371,985	3,205,165	3,038,255
Total Other Assets	12,972,822	12,333,440	12,206,171
Total Assets	$65,717,473	$64,925,538	$61,040,953

See notes to financial statements

THE TORRINGTON WATER COMPANY

Balance Sheets *(continued)*

	December 31,		
	2021	2020	2019
STOCKHOLDERS' EQUITY AND LIABILITIES			
Stockholders' Equity			
Common stock, no par; 1,000,000 shares authorized; 864,000 issued and outstanding	$ 1,800,000	$ 1,800,000	$ 1,800,000
Retained earnings	21,930,762	21,326,808	20,524,284
Total Stockholders' Equity	23,730,762	23,126,808	22,324,284
Long-term debt, net	12,305,080	12,656,619	10,515,289
Current Liabilities			
Current portion of long-term debt	360,000	360,000	360,000
Accounts payable	191,921	586,707	329,619
Accrued taxes	501,964	695,550	611,538
Accrued interest	173,400	179,520	185,640
Other current liabilities	113,561	131,691	133,408
Total Current Liabilities	1,340,846	1,953,468	1,620,205
Other Liabilities			
Deferred income taxes	9,589,665	8,889,230	8,416,575
Regulatory liability-excess deferred income taxes	1,139,918	1,200,609	1,261,300
Unfunded postretirement benefits	3,371,985	3,205,165	3,038,255
Customer advances for construction	506,436	544,075	515,481
Contributions in aid of construction	11,078,991	10,772,973	10,850,172
Amortized contributions in aid of construction	2,653,790	2,576,591	2,499,392
Total Other Liabilities	28,340,785	27,188,643	26,581,175
Total Stockholders' Equity and Liabilities	$65,717,473	$64,925,538	$61,040,953

See notes to financial statements

THE TORRINGTON WATER COMPANY

Statements of Income and Retained Earnings

	Year Ended December 31,		
	2021	2020	2019
OPERATING REVENUES			
Contracts with customers	$ 6,934,525	$ 6,956,272	$ 6,268,405
Alternative revenue programs	900,619	762,420	1,211,817
Total Operating Revenues	7,835,144	7,718,692	7,480,222
OPERATING EXPENSES			
Operation expenses	2,485,521	2,570,359	2,381,493
Maintenance expenses	703,589	698,831	647,629
Depreciation expense	1,217,968	1,170,187	1,146,922
Taxes other than income taxes	1,382,016	1,333,810	1,319,487
Income taxes	133,200	135,900	74,200
Total Operating Expenses	5,922,294	5,909,087	5,569,731
Utility Operating Income	1,912,850	1,809,605	1,910,491
Other Income and Deductions			
Merchandising and jobbing, net	123,068	123,170	116,208
Interest income	2,411	2,212	4,025
Miscellaneous non-operating income	247,496	192,286	160,412
Gain on forgiveness of Paycheck Protection Program loan	-	276,057	-
Allowance for funds used during construction	42,306	26,707	10,905
Total Other Income and Deductions	415,281	620,432	291,550
Taxes applicable to other income	33,604	28,604	21,055
Net Other Income and Deductions	381,677	591,828	270,495
Income Before Interest Expense	2,294,527	2,401,433	2,180,986
Interest Expense			
Interest on long-term debt	489,624	466,235	446,760
Amortization of deferred financing costs	8,461	7,998	7,350
Other interest	168	1,476	1,538
Total Interest Expense	498,253	475,709	455,648
Net Income	1,796,274	1,925,724	1,725,338
RETAINED EARNINGS			
Dividends declared	(1,192,320)	(1,123,200)	(1,080,000)
Retained earnings, beginning	21,326,808	20,524,284	19,878,946
Retained earnings, ending	$21,930,762	$21,326,808	$20,524,284
PER SHARE AMOUNTS			
Net income, basic	$ 2.08	$ 2.23	$ 2.00
Dividends declared	$ 1.38	$ 1.30	$ 1.25
Book value	$ 27.47	$ 26.77	$ 25.84

See notes to financial statements

The Water Utility Industry consists of six investor-owned companies that provide water services to residential, commercial, and industrial customers. It is a niche sector because most of the water utilities in the United States are run by states and local governments that do not issue stock.

In our last Industry report three months ago, we discussed how long-term interest rates had spiked higher. In retrospect, it was close to the peak yield on longer-duration Treasury bonds, which have declined sharply since the latter part of October.

The water infrastructure in the United States remains in subpar condition despite increased investment in this sector over the past decade or so.

Every water company we cover is in the midst of a large construction program. Many pipelines are corroding or leaking, and they need to be replaced.

Since the Industry is spending heavily on capital expenditures, the typical balance sheet in the this space is overleveraged.

The Water Utility Industry is very small. There are only six companies with a combined market capitalization of about $45 billion.

Shares of these stocks have performed very poorly in the recent past. Indeed, the Water Utility Industry is ranked among the lowest of the 93 industries followed by *Value Line*.

INDUSTRY TIMELINESS: 91 (of 93)

A Reversal In Long-Term Interest Rates

All types of utilities are often viewed as income equities due to their combination of high dividend yields and better-than-average distribution growth prospects. The yields on most water stocks are currently very close to the *Value Line* median, however. Indeed, *Essential Utilities's* 3.4% yield is the one exception in the group. In any case, as heavy borrowers of debt, lower interest rates ought to be beneficial to the Industry. On October 18th, the yield on the benchmark 10-year Treasury bond eclipsed 5% in intraday trading. Following some positive news on the inflation front and indications that the Federal Reserve may cut rates this year, long-duration bond prices have rallied strongly. Over the past 10 weeks, the yield on the 10-year Treasury has declined by about 110 basis points to approximately 3.90%.

Antiquated Infrastructure

For decades, annual capital expenditures on modernizing and upgrading assets such as pipelines and wastewater treatment facilities, were underfunded. For the sake of keeping customers bills low, major maintenance projects were deferred. About 10 to 15 years ago, both the operators of the water facilities and state regulators realized that the situation had to change. Depending upon the source of the information, the general condition of domestic pipelines is substandard, with the average age of pipes being anywhere from 50 to 75 years. As mentioned previously, water utilities have been working to upgrade their systems. Fortunately for them, this is a sort of pay-as-you go type of construction. Electric utilities, for example, have to make huge upfront payments to add a new base load unit. Hence, regulators have had a more-constructive relationship with water companies. However, in the years between the housing crisis of 2007-09 and the pandemic, inflation was very low. This made it easier to pass along high-single-digit rate increases without much pushback from customers. The spike in inflation that was caused by the monetary and fiscal policies aimed at combating COVID-19's impact on the economy has declined, but remains above the Federal Reserve's 2.0% target. Should double-digit rate hikes now be required to finance the construction programs, there could be greater displeasure shown by ratepayers (i.e. voters). This may cause regulators to become more restrictive in their rulings.

Growing Via Acquisitions

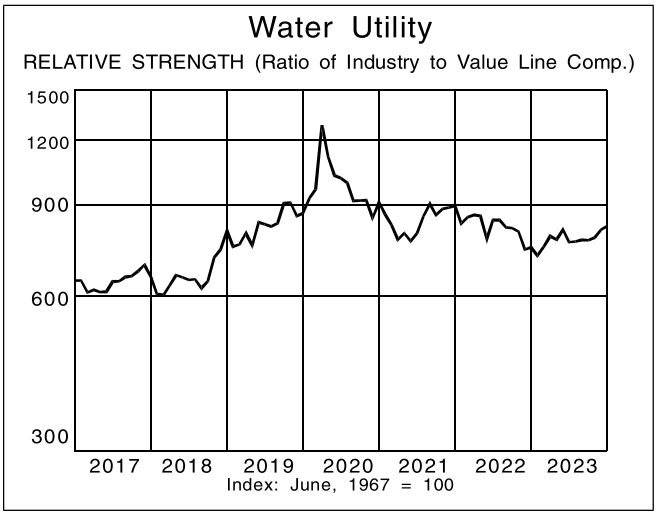
The water industry in the U.S. is mostly run by local, municipal water districts. (There are some major exceptions, such as in New York City.) As a result, there are tens of thousands of these entities operating separately. There is no need for such an immense number, as it leads to inefficiency. Small districts also do not have the financial wherewithal required to fund the needed upgrades. *American Water Works* and *Essential Utilities* are two companies that use bolt-on acquisitions as part of their overall strategy to expand their rate base. These big utilities can easily absorb smaller ones and achieve substantial cost savings by eliminating redundancies.

Conclusion

There are no stocks in this industry that stand out for having favorable short-term total appreciation potential. Despite the bad performance by these equities over the past few years, most continue to have high price-to-earnings ratios and are already trading in their 2026-2028 Target Price Ranges. One of the reasons these equities trade at such a premium is because of scarcity. Investors who want to be in this sector ought to be aware that they will have to pay for the privilege. The only equity followed here that has good long-term total-return potential is *Essential Utilities* and that's probably due to its presence in the gas utility sector.

As always, we strongly recommend that subscribers read each individual comment before investing to better understand the underlying risks associated with each stock.

James A. Flood



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AMER. STATES WATER NYSE-AWR

RECENT PRICE 81.67 | P/E RATIO 29.4 (Trailing: 24.6 Median: 30.0) | RELATIVE P/E RATIO 1.66 | DIV'D YLD 2.2% | VALUE LINE

TIMELINESS 3 Lowered 12/1/23
SAFETY 2 Raised 7/20/12
TECHNICAL 3 Raised 12/15/23
BETA .70 (1.00 = Market)

18-Month Target Price Range
Low-High Midpoint (% to Mid)
$66-$134 $100 (20%)

2026-28 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	110	(+35%)	10%
Low	70	(-15%)	-1%

Institutional Decisions

	1Q2023	2Q2023	3Q2023
to Buy	124	141	158
to Sell	158	138	133
Hld's(000)	27587	27816	28119

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	© VALUE LINE PUB. LLC	26-28
High:	24.1	33.1	38.7	44.1	47.2	58.4	69.6	96.0	96.6	103.8	103.4	99.2								
Low:	17.0	24.0	27.0	35.8	37.3	41.1	50.1	63.3	65.1	70.1	71.2	75.2								
	8.75	9.21	9.74	10.71	11.12	12.12	12.19	12.17	12.56	11.92	12.01	11.88	12.86	13.24	13.51	13.30	*16.35*	*15.05*	Revenues per sh	*19.20*
	1.65	1.69	1.70	2.11	2.13	2.48	2.65	2.67	2.81	2.70	2.96	2.84	3.26	3.34	3.64	3.25	*4.60*	*4.20*	"Cash Flow" per sh	*5.05*
	.81	.78	.81	1.11	1.12	1.41	1.61	1.57	1.61	1.62	1.88	1.72	2.28	2.33	2.55	2.11	*3.35*	*3.00*	Earnings per sh [A]	*3.40*
	.48	.50	.51	.52	.55	.64	.76	.83	.87	.91	.99	1.06	1.16	1.28	1.40	1.53	*1.66*	*1.80*	Div'd Decl'd per sh [B]■	*2.30*
	1.45	2.23	2.09	2.12	2.13	1.77	2.52	1.89	2.39	3.55	3.08	3.44	4.12	3.54	3.91	4.50	*4.95*	*5.15*	Cap'l Spending per sh	*4.25*
	8.77	8.97	9.70	10.13	10.84	11.80	12.72	13.24	12.77	13.52	14.45	15.19	16.33	17.39	18.57	19.20	*20.95*	*22.30*	Book Value per sh [D]	*24.55*
	34.46	34.60	37.06	37.26	37.70	38.53	38.72	38.29	36.50	36.57	36.68	36.76	36.85	36.89	36.94	36.96	*37.00*	*37.25*	Common Shs Outst'g [C]	*37.50*
	24.0	22.6	21.2	15.7	15.4	14.3	17.2	20.1	24.6	25.6	25.7	34.0	34.4	34.3	33.2	41.0	*25.8*		Avg Ann'l P/E Ratio	*25.0*
	1.27	1.36	1.41	1.00	.97	.91	.97	1.06	1.24	1.34	1.29	1.84	1.83	1.76	1.79	2.38	*1.49*		Relative P/E Ratio	*1.40*
	2.5%	2.9%	2.9%	3.0%	3.2%	3.1%	2.7%	2.6%	2.2%	2.2%	2.0%	1.8%	1.5%	1.6%	1.7%	1.8%	*1.9%*		Avg Ann'l Div'd Yield	*2.6%*
							472.1	465.8	458.6	436.1	440.6	436.8	473.9	488.2	498.9	491.5	*605*	*560*	Revenues ($mill)	*720*
							62.7	61.1	60.5	59.7	69.4	63.9	84.3	86.4	94.3	78.4	*125*	*110*	Net Profit ($mill)	*130*
							36.3%	38.4%	38.4%	36.8%	36.0%	22.0%	22.6%	24.6%	24.4%	23.2%	*24.5%*	*24.0%*	Income Tax Rate	*24.0%*
							--	--	--	--	--	--	--	--	2.5%	--	*1.5%*	*2.0%*	AFUDC % to Net Profit	*1.5%*
							39.8%	39.1%	41.1%	39.4%	38.0%	40.5%	44.4%	47.2%	46.1%	39.9%	*43.5%*	*46.5%*	Long-Term Debt Ratio	*50.0%*
							60.2%	60.9%	58.9%	60.6%	62.0%	59.5%	55.6%	52.8%	53.9%	60.1%	*56.5%*	*53.5%*	Common Equity Ratio	*50.0%*
							818.4	832.6	791.5	815.3	854.9	938.4	1082.5	1216.2	1272.6	1181.5	*1375*	*1550*	Total Capital ($mill)	*1840*
							981.5	1003.5	1060.8	1150.9	1205.0	1296.3	1415.7	1512.0	1626.0	1753.8	*1875*	*1985*	Net Plant ($mill)	*2225*
							8.9%	8.6%	9.0%	8.6%	9.3%	7.9%	8.9%	8.0%	8.3%	7.6%	*10.5%*	*9.0%*	Return on Total Cap'l	*8.0%*
							12.7%	12.0%	13.0%	12.1%	13.1%	11.4%	14.0%	13.5%	13.8%	11.0%	*16.0%*	*13.5%*	Return on Shr. Equity	*14.0%*
							12.7%	12.0%	13.0%	12.1%	13.1%	11.4%	14.0%	13.5%	13.8%	11.0%	*16.0%*	*13.5%*	Return on Com Equity	*14.0%*
							6.8%	5.7%	6.0%	5.3%	6.2%	4.5%	6.9%	6.1%	6.2%	3.1%	*10.5%*	*5.5%*	Retained to Com Eq	*4.5%*
							47%	53%	54%	56%	52%	61%	51%	55%	55%	72%	*50%*	*60%*	All Div'ds to Net Prof	*68%*

CAPITAL STRUCTURE as of 9/30/23
Total Debt $612.9 mill. **Due in 5 Yrs** $178.1 mill.
LT Debt $575.5 mill. **LT Interest** $44.0 mill. (43% of Cap'l)

Leases, Uncapitalized: Annual rentals $2.3 mill.
Pension Assets-12/22 $190.7 mill. **Oblig.** $186.9 mill.
Pfd Stock None

Common Stock 36,980,592 shs. as of 11/3/23

MARKET CAP: $3.0 billion (Mid Cap)

CURRENT POSITION ($MILL.)	2021	2022	9/30/23
Cash Assets	5.0	6.0	8.6
Accts Receivable	34.4	26.2	32.6
Other	98.7	119.1	150.5
Current Assets	138.1	151.3	191.7
Accts Payable	65.9	84.9	71.8
Debt Due	31.4	255.9	37.4
Other	58.3	55.7	85.9
Current Liab.	155.6	396.5	195.1

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '20-'22 to '26-'28
Revenues	1.5%	2.0%	*6.5%*
"Cash Flow"	4.5%	4.0%	*7.0%*
Earnings	6.5%	6.5%	*6.5%*
Dividends	9.5%	8.5%	*8.5%*
Book Value	5.5%	6.5%	*5.0%*

Calendar	QUARTERLY REVENUES ($ mill.) Mar.31	Jun. 30	Sep. 30	Dec. 31	Full Year
2020	109.1	121.3	133.6	124.2	488.2
2021	117.1	128.4	136.8	116.6	498.9
2022	108.6	122.5	135.0	125.4	491.5
2023	161.4	157.4	151.7	*134.5*	*605*
2024	*125*	*132*	*160*	*143*	*560*

Calendar	EARNINGS PER SHARE [A] Mar.31	Jun. 30	Sep. 30	Dec. 31	Full Year
2020	.38	.69	.72	.54	2.33
2021	.52	.72	.76	.55	2.55
2022	.38	.54	.69	.50	2.11
2023	.93	1.04	.85	*.53*	*3.35*
2024	*.60*	*.80*	*.85*	*.75*	*3.00*

Calendar	QUARTERLY DIVIDENDS PAID [B]■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2019	.275	.275	.305	.305	1.16
2020	.305	.305	.335	.335	1.28
2021	.335	.335	.365	.365	1.40
2022	.365	.365	.3975	.3975	1.53
2023	.3975	.3975	.43	.43	

BUSINESS: American States Water Co. operates as a holding company. Through its principal subsidiary, Golden State Water Co., it supplies water to 263,265 customers in 10 California counties. Service areas include the metropolitan areas of Los Angeles and Orange Counties. The company also provides electricity to 24,705 customers in Big Bear Lake and San Bernardino Cnty. Provides water & wastewater services to U.S. military bases through its ASUS subsidiary. Sold Chaparral City Wtr. of AZ. (6/11). Employs 811. BlackRock, Inc. owns 18.6% of out. shares; State St., 16.6%; off. & dir., 0.8% (4/23 Proxy). Chair.: Anne M. Holloway. Pres. & CEO: Robert Sprowls. Inc: CA. Address: 630 East Foothill Blvd., San Dimas, CA 91773. Tel.: 909-394-3600. Int.: www.aswater.com.

Rate relief probably enabled American States Water to complete a successful year. The water utility likely posted record profits last year due to a delay in a ruling by California authorities. According to the law, utilities seeking to raise customer bills to recoup expenses and capital investments must submit an official request to raise rates triennially. The California Public Utility Commission (CPUC) then rules on the petition. American States' Golden Water subsidiary followed the correct methods, but the CPUC issued its ruling very late. The utility was forced to absorb higher costs in 2022. Thus, when the rates were granted last year, they were retroactive to the beginning of 2022. The end result was that American States did poorly in 2022 and exceptionally well in 2023.

The bottom line will likely return to normal in 2024. We think that the company's share earnings can reach $3.00. Though it represents a decline, it will be a decent year. The question is whether the CPUC will permit new rates in 2025 or will make the company wait an additional year, like it did the last time.

Nonutility operations could well provide a lift to earnings growth. State regulators place a limit on the level that a utility can earn. There is less risk and less reward in this model. Through its ASUS subsidiary, the company is involved in managing water services at bases owned by the United States Army. There aren't many entities in this field, so ASUS has been successful in winning its share of bids on new 50-year contracts to service these facilities. Since rates of return aren't regulated in this sector, this business can generate higher returns than Golden States' regulated operations. Through the first three quarters, ASUS has been responsible for 14% of the American States share profits. We look for this percentage to rise as more military installations privatize their water operations.

These shares are ranked to perform in line with the market in the year ahead. Out to 2026-2028, the situation appears to be more unfavorable. Despite solid dividend growth prospects, the equity's total return potential to that time is well below the *Value Line* median.

James A. Flood *January 5, 2024*

(A) Primary earnings. Excludes nonrecurring gains/(losses):; '08, (14¢); '10, (23¢); '11, 10¢. Next earnings report due mid-February.
(B) Dividends historically paid in early March, June, September, and December. ■ Div'd reinvestment plan available.
(C) In millions, adjusted for split.
(D) Includes intangibles. As of 12/31/22; $1.1 million/$0.03 a share.

Company's Financial Strength	A
Stock's Price Stability	100
Price Growth Persistence	85
Earnings Predictability	85

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AMERICAN WATER NYSE-AWK

RECENT PRICE 131.56 | P/E RATIO 26.8 (Trailing: 27.3 Median: 28.0) | RELATIVE P/E RATIO 1.51 | DIV'D YLD 2.3% | VALUE LINE

TIMELINESS 4 Lowered 11/17/23
SAFETY 3 New 7/25/08
TECHNICAL 3 Raised 9/29/23
BETA .95 (1.00 = Market)

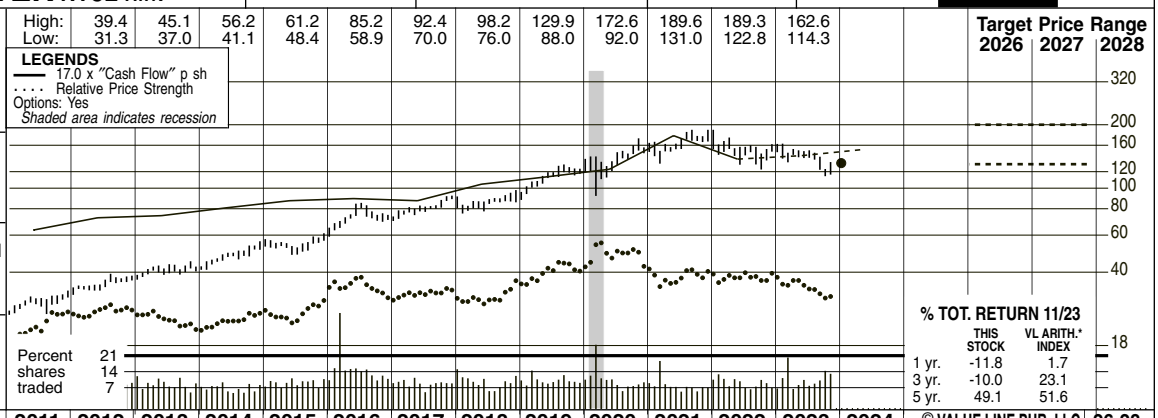
18-Month Target Price Range
Low-High Midpoint (% to Mid)
$106-$214 $160 (20%)

2026-28 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	200	(+50%)	13%
Low	130	(Nil)	2%

Institutional Decisions

	1Q2023	2Q2023	3Q2023
to Buy	460	436	441
to Sell	404	418	460
Hld's(000)	165074	166259	177196



2007E	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	© VALUE LINE PUB. LLC	26-28
13.84	14.61	13.98	15.49	15.18	16.25	16.28	16.78	17.72	18.54	18.81	19.04	19.97	20.83	21.58	20.85	*21.45*	*22.55*	Revenues per sh	*26.75*
d.47	2.87	2.89	3.56	3.73	4.27	4.36	4.75	5.13	5.26	5.14	6.15	6.65	7.24	10.46	8.08	*8.40*	*9.00*	"Cash Flow" per sh	*10.20*
d2.14	1.10	1.25	1.53	1.72	2.11	2.06	2.39	2.64	2.62	2.38	3.15	3.43	3.91	6.95	4.51	*4.80*	*5.15*	Earnings per sh A	*6.10*
- -	.40	.82	.86	.90	1.21	.84	1.21	1.33	1.47	1.62	1.78	1.96	2.15	2.36	2.57	*2.78*	*3.00*	Div'd Decl'd per sh B■	*3.80*
4.74	6.31	4.50	4.38	5.27	5.25	5.50	5.33	6.51	7.36	8.04	8.78	9.15	10.05	9.71	12.63	*13.00*	*13.25*	Cap'l Spending per sh	*15.75*
28.39	25.64	22.91	23.59	24.11	25.11	26.52	27.39	28.25	29.24	30.13	32.42	33.83	35.58	40.18	42.30	*50.95*	*53.25*	Book Value per sh D	*57.25*
160.00	160.00	174.63	175.00	175.66	176.99	178.25	179.46	178.28	178.10	178.44	180.68	180.81	181.30	181.61	181.86	*195.00*	*195.25*	Common Shs Outst'g C	*200.00*
- -	18.9	15.6	14.6	16.8	16.7	19.9	20.0	20.5	27.7	33.8	27.3	32.9	35.3	23.6	33.6	*29.3*		Avg Ann'l P/E Ratio	*27.0*
- -	1.14	1.04	.93	1.05	1.06	1.12	1.05	1.03	1.45	1.70	1.47	1.75	1.81	1.28	1.95	*1.70*		Relative P/E Ratio	*1.50*
- -	1.9%	4.2%	3.8%	3.1%	3.4%	2.0%	2.5%	2.5%	2.0%	2.0%	2.1%	1.7%	1.6%	1.4%	1.7%	*2.0%*		Avg Ann'l Div'd Yield	*2.3%*
2901.9	3011.3	3159.0	3302.0	3357.0	3440.0	3610.0	3777.0	3920.0	3792.0	*4180*	*4400*	Revenues ($mill)	*5350*
369.3	429.8	476.0	468.0	426.0	567.0	621.0	709.0	1263.0	820.0	*935*	*1005*	Net Profit ($mill)	*1220*
39.1%	39.4%	39.1%	39.2%	53.3%	28.2%	25.5%	23.3%	23.0%	18.7%	*21.0%*	*21.0%*	Income Tax Rate	*24.0%*
5.1%	- -	- -	- -	- -	- -	- -	- -	5.1%	2.9%	*3.5%*	*4.5%*	AFUDC % to Net Profit	*5.0%*
52.4%	52.4%	53.7%	52.4%	54.7%	56.3%	58.5%	59.1%	58.6%	58.7%	*55.0%*	*57.5%*	Long-Term Debt Ratio	*57.5%*
47.6%	47.4%	46.2%	47.5%	45.3%	43.6%	41.4%	40.9%	41.4%	41.3%	*45.0%*	*42.5%*	Common Equity Ratio	*42.5%*
9940.7	10364	10911	10967	11875	13433	14760	15787	17639	18619	*22000*	*24400*	Total Capital ($mill)	*27000*
12391	12900	13933	14992	16246	17409	18232	19710	21084	23223	*25200*	*27250*	Net Plant ($mill)	*30000*
5.1%	5.5%	5.7%	5.6%	4.9%	5.4%	5.4%	5.7%	8.2%	5.5%	*6.0%*	*5.5%*	Return on Total Cap'l	*5.5%*
7.8%	8.7%	9.4%	9.0%	7.9%	9.7%	10.1%	11.0%	17.3%	10.7%	*9.5%*	*9.5%*	Return on Shr. Equity	*10.5%*
7.8%	8.7%	9.4%	9.0%	7.9%	9.7%	10.1%	11.0%	17.3%	10.7%	*9.5%*	*9.5%*	Return on Com Equity	*10.5%*
4.7%	4.3%	4.7%	4.0%	2.5%	4.2%	4.4%	5.0%	11.4%	4.6%	*4.0%*	*4.0%*	Retained to Com Eq	*4.5%*
40%	50%	50%	56%	68%	56%	57%	55%	34%	57%	*58%*	*58%*	All Div'ds to Net Prof	*62%*

CAPITAL STRUCTURE as of 9/30/23
Total Debt $12190 mil. **Due in 5 Yrs** $2486 mil.
LT Debt $11698 mil. **LT Interest** $449 mil. (54% of Cap'l)

Leases, Uncapitalized: Annual rentals $9.0 mill.
Pension Assets 12/22 $1578.0 mill
Oblig. $1413.0 mill.
Pfd Stock $2.0 mill. **Pfd Div'd** $.1 mill

Common Stock 194,704,997 shares
as of 10/23/23

MARKET CAP: $25.6 billion (Large Cap)

CURRENT POSITION ($MILL.)	2021	2022	9/30/23
Cash Assets	136	117	661
Accts Receivable	271	334	382
Other	1147	799	761
Current Assets	1554	1250	1804
Accts Payable	235	254	228
Debt Due	641	1456	492
Other	1265	1101	1023
Current Liab.	2141	2811	1743

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '20-'22 to '26-'28
Revenues	3.0%	3.0%	*4.0%*
"Cash Flow"	8.5%	10.5%	*3.0%*
Earnings	11.0%	15.0%	*3.0%*
Dividends	9.0%	10.0%	*8.5%*
Book Value	5.0%	6.0%	*6.5%*

Calendar	QUARTERLY REVENUES ($ mill.) Mar.31	Jun. 30	Sep. 30	Dec. 31	Full Year
2020	844	931	1079	923	3777
2021	888	999	1082	951	3920
2022	842	937	1082	931	3792
2023	938	1097	1167	*978*	*4180*
2024	*990*	*1150*	*1235*	*1025*	*4400*

Calendar	EARNINGS PER SHARE A Mar.31	Jun. 30	Sep. 30	Dec. 31	Full Year
2020	.68	.97	1.46	.80	3.91
2021	.73	1.14	1.53	3.55	6.95
2022	.87	1.20	1.63	.81	4.51
2023	.91	1.44	1.66	*.79*	*4.80*
2024	*.95*	*1.50*	*1.85*	*.85*	*5.15*

Calendar	QUARTERLY DIVIDENDS PAID B■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2019	.455	.50	.50	.50	1.96
2020	.50	.55	.55	.55	2.15
2021	.55	.6025	.6025	.6025	2.36
2022	.6025	.655	.655	.655	2.57
2023	.655	.7075	.7075	.7075	

BUSINESS: American Water Works Company, Inc. is the largest investor-owned water and wastewater utility in the U.S., providing services to approximately 14 million people in 24 states. Nonregulated business assists municipalities and military bases with the maintenance and upkeep as well. Regulated operations made up 86% of 2022 revenues. New Jersey is its largest market accounting for 25.9% of regulated revenues; Pennsylvania, 23.4%; Missouri, 10.9%. Has 6,500 employees. Vanguard owns 11.7% of outstanding shares; BlackRock, 8.6%; State St., 5.4%; officers & directors, less than 1.0% (3/23 Proxy). President & Chief Executive Officer: Susan Hardwick. . Address: 1 Water Street, Camden, NJ 08102. Telephone: 856-346-8200. Internet: www.amwater.com.

American Water Works intends to continue to expand both its rate base and operating margins via bolt-on acquisitions. The water industry in the U.S. is made up mostly of thousands of small, independent, water districts. Not only are these entities inefficient, but they lack sufficient funds to modernize their antiquated infrastructure. American Water expects to spend $4 billion to $5 billion on these types of purchases through 2033. The company has proven that it can take assets from other utilities and realize substantial cost savings. This increases its revenues and operating margins.

The already massive projected capital expenditure budget has been raised again. Previously, leadership forecast that the 10-year construction program would be in the range of $27 billion to $30 billion. In the most recent presentation made in December of 2023, this budget was hiked 10%-11%, to $30 billion to $33 billion.

The balance sheet ought to be healthy enough to handle these outlays. In the year just ended, we think the water utility spent $2.6 billion on capital expenses. A large equity offering that raised $1.7 billion increased shares outstanding 7%-8%. This was unusual, as management has historically been disinclined to raise money in this fashion. Indeed, the number of shares rose only 2.7% in the previous decade. More debt and some new equity issues will be required going forward. American Water's financial condition should remain at least average, however.

Earnings and dividend growth rates here ought to outpace other members of the industry. Assuming reasonable treatment by regulators on the utility's requests for rate relief (more below), we think annual increases in the payout and bottom line can average 7%-9%.

The wild card is here is the regulatory climate. The company has enjoyed constructive relationships with the authorities who determine its allowed returns. This was before the pandemic, though, when low inflation made it easier to pass along big rate hikes to customers.

These shares are untimely. Moreover, despite the stock's underperformance over the last three years, we think that it still doesn't offer much value to 2026-2028.

James A. Flood *January 5, 2024*

(A) Diluted earnings. Excludes nonrecur. losses: '08, $4.62; '09, $2.63; '11, $0.07. Disc. oper.: '06, ($0.04); '11, $0.03; '12, ($0.10); '13,($0.01). GAAP used as of 2014. Includes $2.70 sh. gain from sale of HOS sub.in Q4,'21. Next earnings report due late mid-February.
(B) Dividends paid in March, June, September, and December. ■ Div. reinvestment available.
(C) In millions. **(D)** Includes intangibles. On 12/31/22: $1.225 billion, $6.75/share.
(E) Pro forma numbers for '07.

Company's Financial Strength	B++
Stock's Price Stability	80
Price Growth Persistence	75
Earnings Predictability	60

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Artesian Res Corp NASDAQ:ARTNA

Last Price	Day Change	Trailing P/E	Relative P/E Last FY	Dividend Yield	3 to 5-Year Target Price Range	Performance	Safety	Financial Strength
$41.39	$0.07 (0.16%)		1.74	2.80%	--			

As of 1:17 PM Nov 29, 2023. Delayed at least 15 minutes.

Industry Rank: Water Utility -

CHARTING

1d | 5d | 3m | 1y | 5y Show data

QUOTES

Last Price	Day's Change	Volume
$41.39	**$0.06 0.16%**	**3,509**

Bid (size)	Ask (size)	
$41.39 (2)	**$41.77 (1)**	**Below** 10-day avg.

As of 1:17 PM Nov 29, 2023. Delayed at least 15 minutes.

Previous close	41.32
Open	41.71
Trailing P/E	
Market cap	388.24M
Shares outstanding	9.40M
Beta	0.7
Next earnings date	5/8/2020

52 Week Low & High

$38.76 10/25/2023 — 1/25/2023 **$63.00**

$41.39

Hist. Prices

INDUSTRY ANALYSIS

Please sign in to view more data

SEC FILINGS

Filter SEC filings

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Filing	Filing Date	Category
4	Nov 24, 2023	Insider Activity
10-Q	Nov 7, 2023	Quarterly
SC 13G/A	Oct 6, 2023	Insider Activity
4	Sep 22, 2023	Insider Activity
4	Aug 14, 2023	Insider Activity
10-Q	Aug 8, 2023	Quarterly
11-K	Jun 28, 2023	Unknown
8-K	Jun 22, 2023	Quarterly
8-K	May 23, 2023	Quarterly
8-K	May 22, 2023	Quarterly

The EDGAR data presented on this website is sourced from the U.S. Securities and Exchange Commission (SEC), as available on https://www.sec.gov/edgar.shtml.

PAGE 1 OF 4

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Boeing Co	BA	3
Caterpillar Inc	CAT	2
Chevron Corporation	CVX	3
Cisco Systems Inc	CSCO	1
Coca Cola Company	KO	1
Dow Inc.	DOW	3

View all »

INSIDER TRANSACTIONS

Options | Buys & Sells

INSTITUTIONAL OWNERSHIP

Number of Transactions Show top holders

FINANCIAL STATEMENTS

Income Statement & Balance Sheet	2022	2 Year Trend
Gross Profit	55	
Total Operating Expenses	75	
Operating Income	**24**	

CALIFORNIA WATER NYSE-CWT

RECENT PRICE **52.29** | P/E RATIO **28.6** (Trailing:NMF Median: 28.0) | RELATIVE P/E RATIO **1.62** | DIV'D YLD **2.0%** | VALUE LINE

TIMELINESS **4** Raised 12/22/23
SAFETY **3** Lowered 7/27/07
TECHNICAL **3** Raised 12/15/23
BETA .75 (1.00 = Market)

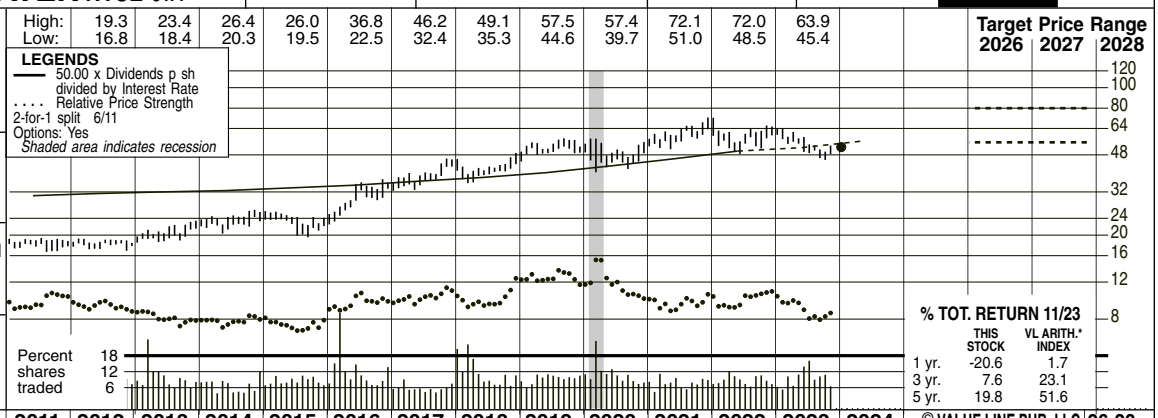
18-Month Target Price Range
Low-High Midpoint (% to Mid)
$39-$83 $61 (15%)

2026-28 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	80	(+55%)	*13%*
Low	55	(+5%)	*4%*

Institutional Decisions

	1Q2023	2Q2023	3Q2023
to Buy	125	139	125
to Sell	124	129	127
Hld's(000)	44814	46985	48886



2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	© VALUE LINE PUB. LLC	26-28
8.88	9.90	10.82	11.05	12.00	13.34	12.23	12.50	12.29	12.70	13.89	14.53	14.72	15.78	14.72	15.22	*13.95*	*16.10*	Revenues per sh	*19.30*
1.56	1.86	1.93	1.93	2.07	2.32	2.21	2.47	2.22	2.34	3.00	3.11	3.14	3.88	3.91	3.79	*2.20*	*3.70*	"Cash Flow" per sh	*4.35*
.75	.95	.98	.91	.86	1.02	1.02	1.19	.94	1.01	1.40	1.36	1.31	1.97	1.96	1.77	*.80*	*2.25*	Earnings per sh [A]	*2.75*
.58	.59	.59	.60	.62	.63	.64	.65	.67	.69	.72	.75	.79	.85	.92	1.00	*1.04*	*1.12*	Div'd Decl'd per sh [B] ■	*1.35*
1.84	2.41	2.66	2.97	2.83	3.04	2.58	2.76	3.69	4.77	5.40	5.65	5.64	5.93	5.46	5.90	*6.00*	*6.15*	Cap'l Spending per sh	*6.45*
9.25	9.72	10.13	10.45	10.76	11.28	12.54	13.11	13.41	13.75	14.44	15.19	16.07	18.30	21.92	23.70	*24.90*	*26.20*	Book Value per sh [C]	*29.50*
41.33	41.45	41.53	41.67	41.82	41.98	47.74	47.81	47.88	47.97	48.01	48.07	48.53	50.33	53.72	55.60	*57.00*	*55.00*	Common Shs Outst'g [D]	*50.00*
26.1	19.8	19.7	20.3	21.3	17.9	20.1	19.7	24.8	29.6	26.9	30.3	39.3	24.9	30.5	33.0	*NMF*		Avg Ann'l P/E Ratio	*24.0*
1.39	1.19	1.31	1.29	1.34	1.14	1.13	1.04	1.25	1.55	1.35	1.64	2.09	1.28	1.65	1.92	*NMF*		Relative P/E Ratio	*1.30*
3.0%	3.1%	3.1%	3.2%	3.4%	3.5%	3.1%	2.8%	2.9%	2.3%	1.9%	1.8%	1.5%	1.7%	1.5%	1.7%	*1.9%*		Avg Ann'l Div'd Yield	*2.0%*
584.1	597.5	588.4	609.4	666.9	698.2	714.6	794.3	790.9	846.4	*795*	*885*	Revenues ($mill) [E]	*965*
47.3	56.7	45.0	48.7	67.2	65.6	63.1	96.8	101.1	96.0	*46.0*	*124*	Net Profit ($mill)	*138*
30.3%	33.0%	36.0%	35.5%	30.1%	24.5%	19.1%	11.1%	20.1%	3.3%	*21.0%*	*21.0%*	Income Tax Rate	*21.0%*
4.3%	2.7%	4.3%	6.1%	3.5%	3.1%	5.8%	3.3%	1.7%	1.7%	*5.0%*	*5.0%*	AFUDC % to Net Profit	*5.0%*
41.6%	40.1%	44.4%	44.6%	42.7%	49.3%	50.2%	45.9%	47.3%	44.4%	*41.5%*	*40.5%*	Long-Term Debt Ratio	*38.0%*
58.4%	59.9%	55.6%	55.4%	57.3%	50.7%	49.8%	54.1%	52.7%	55.6%	*58.5%*	*59.5%*	Common Equity Ratio	*62.0%*
1024.9	1045.9	1154.4	1191.2	1209.3	1440.2	1566.7	1702.4	2233.4	2370.1	*2420*	*2415*	Total Capital ($mill)	*2375*
1515.8	1590.4	1701.8	1859.3	2048.0	2232.7	2406.4	2650.6	2846.9	3058.9	*3175*	*3225*	Net Plant ($mill)	*3450*
6.0%	6.3%	5.2%	5.5%	7.1%	5.9%	5.5%	7.0%	5.5%	5.0%	*2.5%*	*5.5%*	Return on Total Cap'l	*6.5%*
7.9%	9.1%	7.0%	7.4%	9.7%	9.0%	8.1%	10.5%	8.6%	7.3%	*3.0%*	*8.5%*	Return on Shr. Equity	*9.5%*
7.9%	9.1%	7.0%	7.4%	9.7%	9.0%	8.1%	10.5%	8.6%	7.3%	*3.0%*	*8.5%*	Return on Com Equity	*9.5%*
3.4%	4.1%	2.0%	2.4%	4.7%	4.0%	3.2%	6.0%	4.6%	3.2%	*NMF*	*4.5%*	Retained to Com Eq	*4.5%*
56%	55%	71%	68%	51%	55%	60%	43%	47%	56%	*NMF*	*50%*	All Div'ds to Net Prof	*49%*

CAPITAL STRUCTURE as of 9/30/23
Total Debt $1069.6 mill. **Due in 5 Yrs** $357.0 mill.
LT Debt $1052.8 mill. **LT Interest** $40.0 mill.
(Total interest coverage: 2.5x) (44% of Cap'l)

Pension Assets-12/22 $637.3 mill.
Oblig. $685.3 mill.

Pfd Stock None

Common Stock 57,711,000 shs.

MARKET CAP: $3.0 billion (Mid Cap)

CURRENT POSITION ($MILL.)	2021	2022	9/30/23
Cash Assets	78.4	62.1	34.7
Other	222.1	233.4	267.6
Current Assets	300.5	295.5	302.3
Accts Payable	144.4	141.0	152.9
Debt Due	40.2	73.3	116.8
Other	72.0	80.4	111.4
Current Liab.	256.6	294.7	381.1

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '20-'22 to '26-'28
Revenues	2.5%	3.5%	*4.0%*
"Cash Flow"	6.0%	9.0%	*2.0%*
Earnings	7.5%	11.0%	*6.5%*
Dividends	4.0%	6.0%	*6.5%*
Book Value	7.0%	9.0%	*5.5%*

Calendar	QUARTERLY REVENUES ($ mill.)[E] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2020	125.6	175.5	304.1	189.1	794.3
2021	147.7	213.1	256.7	173.4	790.9
2022	173.0	206.2	266.3	200.9	846.4
2023	131.1	194.0	255.0	*214.9*	*795*
2024	*180*	*210*	*275*	*220*	*885*

Calendar	EARNINGS PER SHARE [A] Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2020	d.42	.11	1.94	.31	1.97
2021	d.06	.75	1.20	.07	1.96
2022	.02	.36	1.03	.35	1.77
2023	d.40	.17	.60	*.43*	*.80*
2024	*.15*	*.60*	*1.00*	*.50*	*2.25*

Calendar	QUARTERLY DIVIDENDS PAID [B] ■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2019	.1975	.1975	.1975	.1975	.79
2020	.2125	.2125	.2125	.2125	.85
2021	.230	.230	.230	.230	.92
2022	.250	.250	.250	.250	1.00
2023	.260	.260	.260	.260	

BUSINESS: California Water Service Group provides regulated and nonregulated water service to 496,400 customers in 100 communities in the state of California. Accounts for about 90% of total customers. Also operates in Washington, New Mexico, and Hawaii. Main service areas: San Francisco Bay area, Sacramento Valley, Salinas Valley, San Joaquin Valley & parts of Los Angeles. Acquired Rio Grande Corp; West Hawaii Utilities (9/08). Revenue breakdown, '22: residential, 67%; business, 20%; industrial, 3%; public authorities, 5%; other 5%. Off. and dir. own 1% of common stock (4/23 proxy). Has 1,184 employees. Pres. and CEO: Martin A. Kropelnicki. Inc.: DE. Addr.: 1720 North First St., San Jose, CA 95112-4598. Tel.: 408-367-8200. Internet: www.calwatergroup.com.

California Water Service Group's third-quarter financial results were unfavorably impacted by the state's continued indecision on the pending rate case approval. The company reported revenues of $255 million and earnings of $0.60 per share in the September period, with both figures contracting on an annual basis. Management estimated that a favorable decision would have added approximately $20 million to the top line in the third quarter. Meanwhile, a second judge was assigned to the rate case in late July of last year and, according to regulators, the time line for a decision was extended to the end of 2023. Thus, we expect a ruling on the approval to be imminent.

Our 2023 top- and bottom-line estimates are being reduced at this time. We now look for revenues of $795 million (down from our previous call of $805 million) and earnings of $0.80 per share (down from $0.95). Indeed, the slow-moving rate case gives us pause. Elsewhere, consumer water consumption likely remained soft for the remainder of the year. Moreover, higher operating costs, namely water production, purchased water, and labor expenses, probably persisted.

The long-term picture is notably brighter, however. Assuming the abovementioned rate case is approved by regulators, new customer pricing will be retroactive starting from January 1, 2023. These recouped funds, on top of higher rates going forward, augur well. Meanwhile, management is aggressively investing in upgrading its water system infrastructure ($274 million was spent in the recent period), which suggests that additional rate hike approvals may be pursued down the road. Lastly, a healthier economic backdrop ought to support an uptick in broader residential and business water consumption further out.

From an investment standpoint, California Water shares leave something to be desired at the moment. The stock is ranked to trail the broader market averages over the coming six to 12 months. What's more, at the recent quotation, total return potential three to five years hence is below the *Value Line* median.

Nicholas Patrikis *January 5, 2024*

(A) Basic EPS. Excl. nonrecurring gain (loss): '11, 4¢. Next earnings report due late Feb.
(B) Dividends historically paid in late Feb., May, Aug., and Nov. ■ Div'd reinvestment plan available.
(C) Incl. intangible assets. In '22 : $64.6 mill., $1.16/sh.
(D) In millions, adjusted for split.
(E) Excludes non-regulated revenues.

Company's Financial Strength	B++
Stock's Price Stability	95
Price Growth Persistence	80
Earnings Predictability	55

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ESSENTIAL UTIL. NYSE-WTRG

RECENT PRICE **37.14** | P/E RATIO **19.1** (Trailing: 20.6 Median: 26.0) | RELATIVE P/E RATIO **1.08** | DIV'D YLD **3.4%** | VALUE LINE

TIMELINESS 4 Lowered 12/22/23
SAFETY 3 Lowered 1/8/21
TECHNICAL 3 Raised 11/24/23
BETA 1.00 (1.00 = Market)

18-Month Target Price Range
Low-High **Midpoint (% to Mid)**
$29-$62 $46 (25%)

2026-28 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	75	(+100%)	*22%*
Low	50	(+35%)	*11%*

Institutional Decisions

	1Q2023	2Q2023	3Q2023
to Buy	268	246	254
to Sell	271	295	275
Hld's(000)	189507	195095	204460

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	© VALUE LINE PUB. LLC	26-28
High:	21.5	28.1	28.2	31.1	35.8	39.6	39.4	47.3	54.5	53.9	53.7	49.3								
Low:	16.8	20.6	22.4	24.4	28.0	29.4	32.1	32.7	30.4	41.1	38.5	32.1								
	3.61	3.71	3.93	4.21	4.10	4.32	4.32	4.37	4.61	4.62	4.56	4.71	4.03	5.96	7.43	8.68	*8.30*	*8.80*	Revenues per sh	*9.10*
	1.10	1.14	1.29	1.42	1.45	1.51	1.82	1.89	1.87	2.07	2.12	1.90	1.73	2.21	2.89	2.98	*3.55*	*3.65*	"Cash Flow" per sh	*3.85*
	.57	.58	.62	.72	.83	.87	1.16	1.20	1.14	1.32	1.35	1.08	1.04	1.12	1.67	1.77	*1.85*	*2.00*	Earnings per sh	*2.35*
	.38	.41	.44	.47	.50	.54	.58	.63	.69	.74	.79	.85	.91	.97	1.04	1.11	*1.19*	*1.27*	Div'd Decl'd per sh	*1.65*
	1.43	1.58	1.66	1.89	1.90	1.98	1.73	1.84	2.07	2.16	2.69	2.78	2.49	3.41	4.04	4.03	*4.05*	*4.25*	Cap'l Spending per sh	*3.85*
	5.85	6.26	6.50	6.81	7.21	7.90	8.63	9.27	9.78	10.43	11.02	11.28	17.58	19.09	20.50	20.39	*21.85*	*23.10*	Book Value per sh	*25.95*
	166.75	169.21	170.61	172.46	173.60	175.43	177.93	178.59	176.54	177.39	177.71	178.09	220.76	245.39	252.87	263.74	*273.30*	*277.00*	Common Shs Outst'g	*285.00*
	32.0	24.9	23.1	21.1	21.3	21.9	21.2	20.8	23.5	23.9	24.7	32.6	39.1	39.6	28.3	26.6	*21.8*		Avg Ann'l P/E Ratio	*26.0*
	1.70	1.50	1.54	1.34	1.34	1.39	1.19	1.09	1.18	1.25	1.24	1.76	2.08	2.03	1.53	1.54	*1.26*		Relative P/E Ratio	*1.45*
	2.1%	2.8%	3.1%	3.1%	2.8%	2.8%	2.4%	2.5%	2.6%	2.3%	2.4%	2.4%	2.2%	2.2%	2.2%	2.4%	*3.0%*		Avg Ann'l Div'd Yield	*2.6%*
							768.6	779.9	814.2	819.9	809.5	838.1	889.7	1462.7	1878.1	2288.0	*2275*	*2435*	Revenues ($mill)	*2600*
							205.0	213.9	201.8	234.2	239.7	192.0	224.5	284.8	431.6	465.2	*505*	*555*	Net Profit ($mill)	*670*
							10.0%	10.5%	6.9%	8.2%	6.6%	- -	- -	- -	- -	- -	*11.0%*	*14.0%*	Income Tax Rate	*16.0%*
							1.1%	2.4%	3.1%	3.8%	6.3%	6.8%	7.2%	4.5%	4.8%	1.3%	*2.5%*	*3.0%*	AFUDC % to Net Profit	*5.0%*
							48.9%	48.5%	50.3%	48.4%	50.6%	54.4%	43.1%	54.0%	52.7%	54.2%	*52.0%*	*52.5%*	Long-Term Debt Ratio	*56.0%*
							51.1%	51.5%	49.7%	51.6%	49.4%	45.6%	56.9%	46.0%	47.3%	45.8%	*48.0%*	*47.5%*	Common Equity Ratio	*44.0%*
							3003.6	3216.0	3469.5	3587.7	3965.4	4407.8	6824.2	10192	10964	11748	*12500*	*13535*	Total Capital ($mill)	*16800*
							4167.3	4402.0	4688.9	5001.6	5399.9	5930.3	6345.8	9512.9	10252	11131	*12O00*	*13000*	Net Plant ($mill)	*14600*
							8.0%	7.8%	6.9%	7.6%	7.1%	5.5%	4.2%	3.7%	4.8%	5.0%	*5.0%*	*5.0%*	Return on Total Cap'l	*5.0%*
							13.4%	12.9%	11.7%	12.7%	12.2%	9.6%	5.8%	6.1%	8.3%	8.7%	*8.5%*	*8.5%*	Return on Shr. Equity	*9.0%*
							13.4%	12.9%	11.7%	12.7%	12.2%	9.6%	5.8%	6.1%	8.3%	8.7%	*8.5%*	*8.5%*	Return on Com Equity	*9.0%*
							6.7%	6.1%	4.7%	5.6%	5.1%	2.1%	.9%	1.1%	3.3%	3.3%	*3.0%*	*2.5%*	Retained to Com Eq	*2.5%*
							50%	52%	60%	56%	59%	79%	84%	82%	60%	62%	*64%*	*64%*	All Div'ds to Net Prof	*70%*

CAPITAL STRUCTURE as of 9/30/23
Total Debt $6806.4 mill. **Due in 5 Yrs** $1400 mill.
LT Debt $6456.0 mill. **LT Interest** $254.0 mill. (52% of Cap'l)

Pension Assets-12/22 $333.2 mill.
Oblig. $324.7 mill.

Pfd Stock None
Common Stock 273,165,817 shares
as of 10/23/23

MARKET CAP: $10.1 billion (Large Cap)

CURRENT POSITION ($MILL.)	2021	2022	9/30/23
Cash Assets	10.6	11.4	8.5
Receivables	141.0	206.3	133.7
Inventory (AvgCst)	109.6	46.6	48.8
Other	176.6	393.9	218.3
Current Assets	437.8	658.2	409.3
Accts Payable	192.9	238.8	191.9
Debt Due	197.1	427.9	350.4
Other	285.1	355.2	354.3
Current Liab.	675.1	1021.9	896.6

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '20-'22 to '26-'28
Revenues	5.5%	10.0%	*3.5%*
"Cash Flow"	6.5%	6.0%	*6.0%*
Earnings	6.5%	3.5%	*7.5%*
Dividends	7.5%	7.0%	*8.0%*
Book Value	10.5%	14.0%	*4.5%*

Calendar	QUARTERLY REVENUES ($ mill.) Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2020	255.6	384.5	348.6	474.0	1462.7
2021	583.5	397.0	361.9	535.7	1878.1
2022	699.3	448.7	434.6	705.4	2288.0
2023	726.5	436.7	411.1	*700.7*	*2275*
2024	*755*	*475*	*475*	*730*	*2435*

Calendar	EARNINGS PER SHARE A Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2020	.21	.29	.22	.40	1.12
2021	.72	.32	.19	.44	1.67
2022	.76	.31	.26	.44	1.77
2023	.72	.34	.30	*.49*	*1.85*
2024	*.80*	*.35*	*.30*	*.55*	*2.00*

Calendar	QUARTERLY DIVIDENDS PAID B ■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2019	.219	.219	.2343	.2343	.91
2020	.2343	.2343	.2507	.2507	.97
2021	.2507	.2507	.2682	.2682	1.04
2022	.2682	.2682	.287	.287	1.11
2023	.287	.287	.3071	.3071	

LEGENDS
17.5 x "Cash Flow" p sh
Relative Price Strength
5-for-4 split 9/13
Options: Yes
Shaded area indicates recession

Target Price Range 2026 2027 2028

% TOT. RETURN 11/23

	THIS STOCK	VL ARITH.* INDEX
1 yr.	-23.9	1.7
3 yr.	-15.2	23.1
5 yr.	16.6	51.6

BUSINESS: Essential Utilities, Inc. became the new name for Aqua America on Feb. 3, 2020, to reflect the acquisition of Peoples, a natural gas utility, which occurred in 3/20. In 2022, Aqua Amer. provided water and wastewater services in the states of PA, OH, TX, IL, NC, NJ, IN, VA NS WS. Acquired AquaSource, 7/13; N. Maine Util., 7/15; and others. Water respn. for 47% of revenues in 2022; residential, 27%; commercial, 7%; industrial, wastewater & other, 13%. Gas 50%; other, 3.0%. Employes 3,178. Off. & dir. own less than 1% of the common stock; BlackRock, 11.2%; Vanguard, 10.1%; Can. Pen. Plan 8.2% (3/23 proxy). Pres. & CEO: Christopher Franklin. Inc.: PA Addr.: 762 W Lancaster Ave., Bryn Mawr, PA 19010. Tel.: 610-525-1400. Int.: www.essential.co.

Essential Utilities posted strong third-quarter results. The water and gas utility company's share earnings of $0.30 were $0.01 above our expectations and a 15% increase over the year-ago period. Regulators allowed the implementation of higher rates on water customers' bills in eight different states. This brought in an additional $42.2 million. On the gas side, higher rates permitted by Pennsylvania and Kentucky state authorities brought in $21.3 million in revenues. Also providing a boost to the bottom line was an almost 3% decrease in operating and maintenance expenses. It should be noted that not all revenue is the same in the utility sector. Essential's top line actually declined 5.4% in the September period on a year-over-year basis. When gas is cheaper on the open market, a utility buys it and sells the gas to clients at the same price. So, it is just a pass-through revenue that doesn't impact net income.

The company likely ended 2023 on a positive note. Ongoing cost controls probably also helped profitability. Along with the rate relief, earnings per share probably increased by double digits. Since first-half earnings fell marginally, full-year earnings per share should have rose 5%.

We expect 2024 to be another decent year. Expenses ought to trend higher, but may be offset by rate relief granted in New Jersey, Ohio, and Virginia in the water segment. Overall, share earnings could rise another 5%-10%.

Essential is another member of the water sector that is increasing its size and income through acquisitions. In the U.S., the water industry is made up of thousands of independent, mostly municipally run entities that are often underfunded and inefficient. Like American Water Works, Essential is absorbing these water districts so that it can substantially widen margins on the purchases through economies of scale. Management thinks that these bolt-on purchases can expand its rate base by 2%-3% annually.

This good-yielding stock is ranked to underperform the market averages in the upcoming year. Looking further out to 2026-2028, shares of Essential have better total return potential than any other member of the Water Utility Industry.

James A. Flood *January 5, 2024*

(A) Diluted egs. Excl. nonrec. gains: '12, 18¢. Excl. gain from disc. operations: '12, 7¢; '13, 9¢; '14, 11¢. Quarterly EPS do not add in '19 due to a large change in the number of shares outstanding in the Dec. period. Next earnings report mid-February.
(B) Dividends historically paid in early March, June, Sept., & Dec. ■ Div'd. reinvestment plan available (5% discount).
(C) In millions, adjusted for stock split.
(D) Includes intangibles: 12/31/22, $2345.4 bill./$8.89 a share.

Company's Financial Strength	B++
Stock's Price Stability	90
Price Growth Persistence	65
Earnings Predictability	65

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MIDDLESEX WATER NDQ-MSEX

RECENT PRICE 67.58 | P/E RATIO 29.1 (Trailing: 36.7 Median: 26.0) | RELATIVE P/E RATIO 1.64 | DIV'D YLD 1.9% | VALUE LINE

TIMELINESS 5 Lowered 11/24/23
SAFETY 2 New 10/21/11
TECHNICAL 3 Raised 12/15/23
BETA .75 (1.00 = Market)

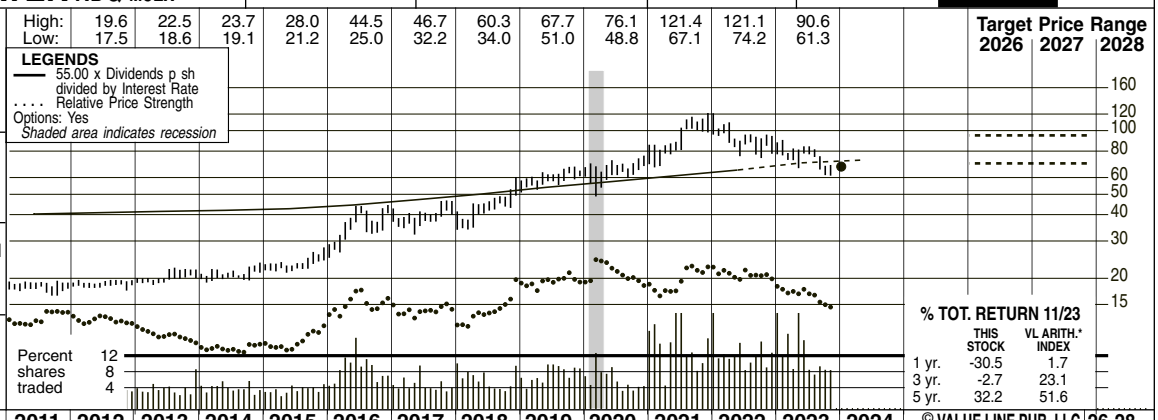
18-Month Target Price Range
Low-High Midpoint (% to Mid)
$57-$125 $91 (35%)

2026-28 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	95	(+40%)	*10%*
Low	70	(+5%)	*3%*

Institutional Decisions

	1Q2023	2Q2023	3Q2023
to Buy	83	75	79
to Sell	96	99	86
Hld's(000)	11875	12584	13355



2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	© VALUE LINE PUB. LLC	26-28
6.50	6.79	6.75	6.60	6.50	6.98	7.19	7.26	7.77	8.16	8.00	8.42	7.72	8.10	8.17	9.21	***9.50***	***10.05***	Revenues per sh	***11.10***
1.49	1.53	1.40	1.55	1.46	1.56	1.72	1.84	1.97	2.17	2.24	2.89	2.90	3.25	3.28	3.70	***3.05***	***3.60***	"Cash Flow" per sh	***4.10***
.87	.89	.72	.96	.84	.90	1.03	1.13	1.22	1.38	1.38	1.96	2.01	2.18	2.07	2.39	***2.05***	***2.55***	Earnings per sh [A]	***3.00***
.69	.70	.71	.72	.73	.74	.75	.76	.78	.81	.86	.91	.98	1.04	1.11	1.18	***1.28***	***1.32***	Div'd Decl'd per sh [B]■	***1.60***
1.66	2.12	1.49	1.90	1.50	1.36	1.26	1.40	1.59	2.91	3.08	4.40	5.11	6.04	4.53	5.18	***5.25***	***5.45***	Cap'l Spending per sh	***6.00***
10.05	10.03	10.33	11.13	11.27	11.48	11.82	12.24	12.74	13.40	14.02	15.17	18.57	19.81	20.99	22.65	***23.55***	***23.60***	Book Value per sh	***23.70***
13.25	13.40	13.52	15.57	15.70	15.82	15.96	16.12	16.23	16.30	16.35	16.40	17.43	17.47	17.52	17.64	***17.85***	***17.90***	Common Shs Outst'g [C]	***18.00***
21.6	19.8	21.0	17.8	21.7	20.8	19.7	18.5	19.1	25.6	28.4	22.2	29.7	30.1	44.3	38.6	***36.9***		Avg Ann'l P/E Ratio	***28.0***
1.15	1.19	1.40	1.13	1.36	1.32	1.11	.97	.96	1.34	1.43	1.20	1.58	1.55	2.39	2.24	***2.14***		Relative P/E Ratio	***1.30***
3.7%	4.0%	4.7%	4.2%	4.0%	4.0%	3.7%	3.7%	3.3%	2.3%	2.2%	2.1%	1.6%	1.6%	1.2%	1.3%	***1.7%***		Avg Ann'l Div'd Yield	***1.9%***
114.8	117.1	126.0	132.9	130.8	138.1	134.6	141.6	143.1	162.4	***170***	***180***	Revenues ($mill)	***200***
16.6	18.4	20.0	22.7	22.8	32.5	33.9	38.4	36.5	42.4	***36.5***	***45.5***	Net Profit ($mill)	***54.0***
34.1%	35.0%	34.5%	34.0%	32.7%	2.8%	--	--	2.8%	7.1%	***21.0%***	***21.0%***	Income Tax Rate	***21.0%***
1.9%	1.7%	1.9%	2.7%	3.1%	1.4%	3.4%	3.9%	3.9%	3.9%	***2.5%***	***2.5%***	AFUDC % to Net Profit	***2.5%***
40.4%	40.5%	39.4%	37.9%	37.5%	37.8%	41.5%	44.0%	45.3%	41.9%	***44.0%***	***41.5%***	Long-Term Debt Ratio	***40.5%***
58.7%	58.8%	59.8%	61.5%	61.8%	61.6%	58.2%	55.7%	54.4%	57.7%	***56.0%***	***58.5%***	Common Equity Ratio	***59.5%***
321.4	335.8	345.4	355.4	370.7	404.1	556.7	621.5	676.3	692.7	***747***	***724***	Total Capital ($mill)	***720***
446.5	465.4	481.9	517.8	557.2	618.5	705.7	796.6	865.4	920.6	***985***	***995***	Net Plant ($mill)	***1025***
5.9%	6.3%	6.6%	7.1%	6.9%	8.9%	6.7%	6.8%	6.0%	6.8%	***5.5%***	***6.5%***	Return on Total Cap'l	***8.0%***
8.7%	9.2%	9.6%	10.3%	9.8%	12.9%	10.4%	11.0%	9.9%	10.5%	***8.5%***	***10.5%***	Return on Shr. Equity	***12.5%***
8.7%	9.3%	9.6%	10.3%	9.9%	13.0%	10.4%	11.1%	9.9%	10.6%	***8.5%***	***11.0%***	Return on Com Equity	***12.5%***
2.4%	3.1%	3.5%	4.3%	3.8%	7.0%	5.4%	5.8%	4.6%	5.4%	***3.5%***	***5.0%***	Retained to Com Eq	***6.0%***
73%	67%	63%	58%	62%	46%	48%	48%	53%	49%	***62%***	***52%***	All Div'ds to Net Prof	***53%***

CAPITAL STRUCTURE as of 9/30/23
Total Debt $361.7 mill. **Due in 5 Yrs** $43.7 mill.
LT Debt $354.3 mill. **LT Interest** $7.5 mill.
(Total interest coverage: 9.3x)
(46% of Cap'l)

Pension Assets-12/22 $84.8 mill.
Oblig. $87.8 mill.
Pfd Stock $2.4 mill. **Pfd Div'd:** $.1 mill.

Common Stock 17,806,000 shs.
as of 11/9/23

MARKET CAP: $1.2 billion (Small Cap)

CURRENT POSITION ($MILL.)	2021	2022	9/30/23
Cash Assets	3.5	3.8	3.0
Other	30.9	33.5	132.8
Current Assets	34.4	37.3	135.8
Accts Payable	21.1	24.8	28.6
Debt Due	6.7	17.5	7.4
Other	28.8	75.6	85.3
Current Liab.	56.6	117.9	121.3

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '20-'22 to '26-'28
Revenues	2.5%	1.5%	*4.5%*
"Cash Flow"	8.5%	10.0%	*3.0%*
Earnings	9.5%	11.0%	*5.0%*
Dividends	4.0%	6.5%	*6.5%*
Book Value	6.5%	9.5%	*2.0%*

Calendar	QUARTERLY REVENUES ($ mill.) Mar.31	Jun. 30	Sep. 30	Dec. 31	Full Year
2020	31.8	35.3	39.9	34.6	141.6
2021	32.5	36.7	39.9	34.0	143.1
2022	36.2	39.7	47.7	38.8	162.4
2023	38.2	42.8	46.7	***42.3***	***170***
2024	***42.0***	***43.0***	***52.0***	***43.0***	***180***

Calendar	EARNINGS PER SHARE [A] Mar.31	Jun. 30	Sep. 30	Dec. 31	Full Year
2020	.44	.55	.72	.47	2.18
2021	.39	.62	.65	.41	2.07
2022	.68	.50	.80	.40	2.39
2023	.33	.55	.56	***.61***	***2.05***
2024	***.50***	***.65***	***.75***	***.65***	***2.55***

Calendar	QUARTERLY DIVIDENDS PAID [B]■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2019	.24	.24	.24	.2562	.98
2020	.2562	.2562	.2562	.2725	1.04
2021	.2725	.2725	.2725	.29	1.11
2022	.29	.29	.29	.3125	1.18
2023	.3125	.3125	.3125	.325	

BUSINESS: Middlesex Water Company engages in the ownership and operation of regulated water utility systems in New Jersey, Delaware, and Pennsylvania. It also operates water and wastewater systems under contract on behalf of municipal and private clients in NJ and DE. Its Middlesex System provides water services to 61,000 retail customers, primarily in Middlesex County, New Jersey. In 2022, the Middlesex System accounted for 65% of operating revenues. At 12/31/22, the company had 350 employees. Incorporated: NJ. President, CEO, and Chairman: Dennis W. Doll. Officers & directors own 1.9% of the com. stock; BlackRock Inst. Trust Co., 14.6% (4/23 proxy). Add.: 485 C Route 1 South, Suite 400, Iselin, NJ 08830. Tele.: 732-634-1500. Int.: www.middlesexwater.com.

Middlesex Water stock has treaded water since our previous review. Indeed, the equity, which etched an all-time high in late 2021, has contracted more than 40% in value over the past two years or so. After a prolonged period of relatively conservative allocation strategies, the investment community's appetite for riskier assets appears to have shifted somewhat. On balance, based on recent price and earnings momentum, Middlesex shares do not presently stand out for relative year-ahead price performance (Timeliness: 5, Lowest).

We are trimming our 2023 and 2024 bottom-line estimates subsequent to a softer third-quarter showing. The company posted September-period revenues of $47 million, or $3 million shy of our call. Meanwhile, net income of $0.56 per share, which was flat on a sequential basis, came in considerably below consensus expectations. A combination of lower customer demand and higher purchased water costs weighed on results. All told, we are shaving $0.35 and $0.20 per share from our 2023 and 2024 earnings estimates, to $2.05 and $2.55, respectively.

The board of directors recently raised the quarterly dividend payout 4%, to $0.325 per share. The modest annual increase is in line with the company's historical rate of distribution hikes. Moreover, Middlesex's fairly stable secular business model suggests that additional dividend increases are likely in the cards over the long haul.

Better days probably lie ahead. Looking further out, overall water consumption ought to perk up as economic conditions slowly improve. The company should also benefit from additional rate hike approvals. Capital spending on water infrastructure and delivery systems is likely to keep management active in filing for regulator-approved rate increases.

We think patient investors should also hold off, for now. Capital appreciation potential over the pull to late decade, even on a risk-adjusted basis, is nothing to write home about at recent levels. What's more, the current dividend yield is below the *Value Line* median, thus rendering Middlesex shares unenticing as a stand alone, income-generating option.

Nicholas Patrikis *January 5, 2024*

(A) Diluted earnings. Quarterly figures may not sum due to rounding. Next earnings report due early February.

(B) Dividends historically paid in mid-Feb., May, Aug., and November.■ Div'd reinvestment plan available.

(C) In millions.

Company's Financial Strength	B++
Stock's Price Stability	85
Price Growth Persistence	95
Earnings Predictability	90

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SJW GROUP NYSE-SJW

RECENT PRICE 66.51 | P/E RATIO 21.8 (Trailing: 21.0 Median: 25.0) | RELATIVE P/E RATIO 1.23 | DIV'D YLD 2.3% | VALUE LINE

TIMELINESS 3 Raised 11/10/23
SAFETY 3 New 4/22/11
TECHNICAL 3 Raised 12/22/23
BETA .85 (1.00 = Market)

18-Month Target Price Range

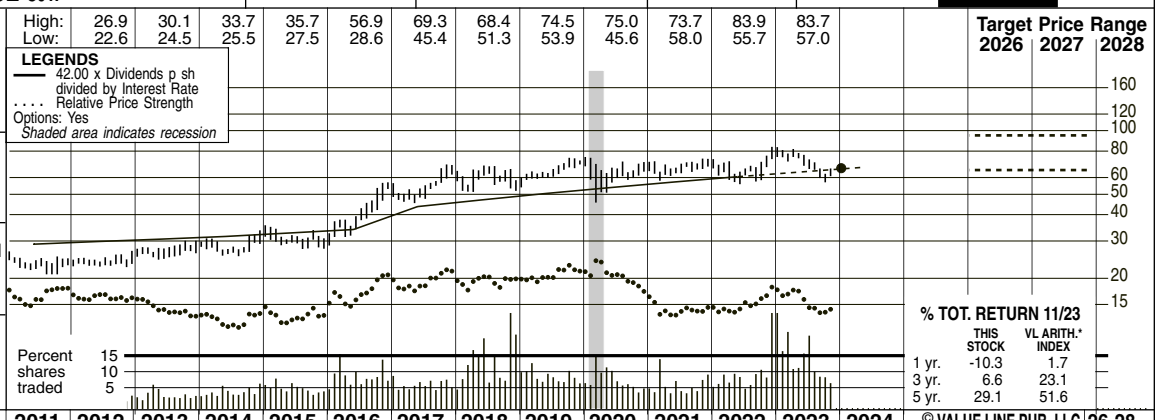
Low-High	Midpoint (% to Mid)
$54-$110	$82 (25%)

2026-28 PROJECTIONS

	Price	Gain	Ann'l Total Return
High	95	(+45%)	*11%*
Low	65	(Nil)	*2%*

Institutional Decisions

	1Q2023	2Q2023	3Q2023
to Buy	94	120	128
to Sell	113	91	85
Hld's(000)	27281	26624	24180



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
High:	26.9	30.1	33.7	35.7	56.9	69.3	68.4	74.5	75.0	73.7	83.9	83.7						
Low:	22.6	24.5	25.5	27.5	28.6	45.4	51.3	53.9	45.6	58.0	55.7	57.0						

% TOT. RETURN 11/23

	THIS STOCK	VL ARITH.* INDEX
1 yr.	-10.3	1.7
3 yr.	6.6	23.1
5 yr.	29.1	51.6

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	© VALUE LINE PUB. LLC	26-28
	11.25	12.12	11.68	11.62	12.85	14.01	13.73	15.76	14.97	16.61	18.97	14.00	14.78	19.77	19.01	20.15	*20.65*	*22.10*	Revenues per sh	*24.15*
	2.30	2.44	2.21	2.38	2.80	2.97	2.90	4.42	3.86	4.76	5.24	3.29	3.13	5.28	5.13	5.79	*4.50*	*4.75*	"Cash Flow" per sh	*5.10*
	1.04	1.08	.81	.84	1.11	1.18	1.12	2.54	1.85	2.57	2.86	1.82	.82	2.14	2.03	2.43	*2.95*	*3.15*	Earnings per sh [A]	*3.45*
	.61	.65	.66	.68	.69	.71	.73	.75	.78	.81	1.04	1.12	1.20	1.28	1.36	1.44	*1.52*	*1.60*	Div'd Decl'd per sh [B]■	*1.80*
	6.62	3.79	3.17	5.65	3.75	5.67	4.68	5.02	5.24	6.95	7.26	5.08	6.25	7.44	8.32	7.85	*8.00*	*8.25*	Cap'l Spending per sh	*8.75*
	12.90	13.99	13.66	13.75	14.20	14.71	15.92	17.75	18.83	20.61	22.57	31.31	31.27	32.12	34.28	36.06	*38.30*	*41.15*	Book Value per sh	*44.15*
	18.36	18.18	18.50	18.55	18.59	18.67	20.17	20.29	20.38	20.46	20.52	28.40	28.46	28.56	30.18	30.80	*32.00*	*31.00*	Common Shs Outst'g [C]	*30.00*
	33.4	26.2	28.7	29.1	21.2	20.4	24.3	11.2	16.6	15.7	18.8	32.7	78.8	30.0	32.9	27.3	*24.1*		Avg Ann'l P/E Ratio	*23.0*
	1.77	1.58	1.91	1.85	1.33	1.30	1.37	.59	.84	.82	.95	1.77	4.20	1.54	1.78	1.58	*1.40*		Relative P/E Ratio	*1.30*
	1.7%	2.3%	2.8%	2.8%	2.9%	3.0%	2.7%	2.6%	2.5%	2.0%	1.9%	1.9%	1.9%	2.0%	2.0%	2.2%	*2.1%*		Avg Ann'l Div'd Yield	*2.3%*
							276.9	319.7	305.1	339.7	389.2	397.7	420.5	564.5	573.7	620.7	*660*	*685*	Revenues ($mill)	*725*
							23.5	51.8	37.9	52.8	59.2	38.8	23.4	61.5	60.5	73.8	*95.0*	*98.0*	Net Profit ($mill)	*105*
							38.7%	32.5%	38.1%	38.8%	36.7%	20.6%	26.4%	12.0%	12.2%	10.3%	*21.0%*	*21.0%*	Income Tax Rate	*21.0%*
							--	--	--	--	2.0%	1.0%	2.0%	1.5%	2.0%	6.4%	*1.5%*	*1.5%*	AFUDC % to Net Profit	*1.5%*
							51.1%	51.6%	49.8%	50.7%	48.2%	32.7%	59.1%	58.4%	59.1%	57.3%	*55.5%*	*52.5%*	Long-Term Debt Ratio	*43.0%*
							48.9%	48.4%	50.2%	49.3%	51.8%	67.3%	40.9%	41.6%	40.9%	42.7%	*44.5%*	*47.5%*	Common Equity Ratio	*57.0%*
							656.2	744.5	764.6	855.0	894.3	1320.7	2173.6	2204.7	2527.5	2602.8	*2750*	*2675*	Total Capital ($mill)	*2325*
							898.7	963.0	1036.8	1146.4	1239.3	1328.8	2206.5	2334.9	2497.5	2630.3	*2775*	*2800*	Net Plant ($mill)	*2925*
							5.0%	8.3%	6.3%	7.4%	7.9%	3.9%	1.8%	4.0%	3.5%	4.0%	*4.0%*	*4.0%*	Return on Total Cap'l	*5.0%*
							7.3%	14.4%	9.9%	12.5%	12.8%	4.4%	2.6%	6.7%	5.8%	6.6%	*7.5%*	*7.5%*	Return on Shr. Equity	*8.0%*
							7.3%	14.4%	9.9%	12.5%	12.8%	4.4%	2.6%	6.7%	5.8%	6.6%	*7.5%*	*7.5%*	Return on Com Equity	*8.0%*
							2.8%	10.2%	5.7%	8.6%	8.2%	1.8%	NMF	2.7%	2.0%	2.7%	*3.5%*	*4.0%*	Retained to Com Eq	*3.5%*
							62%	29%	42%	31%	36%	60%	NMF	59%	66%	59%	*51%*	*51%*	All Div'ds to Net Prof	*52%*

CAPITAL STRUCTURE as of 9/30/23
Total Debt $1577.3 mill. **Due in 5 Yrs** $44.3 mill.
LT Debt $1533.8 mill. **LT Interest** $50.0 mill.
(LT Interest Coverage: 10.2x)
(57% of Cap'l)

Pension Assets-12/22 $252.0 mill.
Oblig. $289.1 mill.
Pfd Stock None.
Common Stock 31,933,000 shs.

MARKET CAP: $2.1 billion (Mid Cap)

CURRENT POSITION ($MILL.)	2021	2022	9/30/23
Cash Assets	10.9	12.3	21.1
Accts Receivable	53.7	58.2	70.4
Other	69.5	84.2	137.3
Current Assets	134.1	154.7	228.8
Accts Payable	30.4	29.6	35.9
Debt Due	39.1	4.4	43.5
Other	133.8	230.7	228.7
Current Liab.	203.3	264.7	308.1

ANNUAL RATES of change (per sh)	Past 10 Yrs.	Past 5 Yrs.	Est'd '20-'22 to '26-'28
Revenues	4.5%	3.0%	*3.5%*
"Cash Flow"	7.0%	3.0%	*-1.0%*
Earnings	7.5%	-2.0%	*8.0%*
Dividends	7.0%	9.0%	*5.0%*
Book Value	9.0%	10.5%	*4.5%*

Calendar	QUARTERLY REVENUES ($ mill.) Mar.31	Jun. 30	Sep. 30	Dec. 31	Full Year
2020	115.8	147.2	165.9	135.6	564.5
2021	114.8	152.2	166.9	139.8	573.7
2022	124.3	149.0	176.0	171.4	620.7
2023	137.3	156.9	204.8	*161.0*	*660*
2024	*140*	*165*	*215*	*165*	*685*

Calendar	EARNINGS PER SHARE [A] Mar.31	Jun. 30	Sep. 30	Dec. 31	Full Year
2020	.08	.69	.91	.46	2.14
2021	.09	.69	.64	.60	2.03
2022	.12	.38	.82	1.09	2.43
2023	.37	.58	1.13	*.87*	*2.95*
2024	*.45*	*.60*	*1.20*	*.90*	*3.15*

Calendar	QUARTERLY DIVIDENDS PAID [BD]■ Mar.31	Jun.30	Sep.30	Dec.31	Full Year
2019	.30	.30	.30	.30	1.20
2020	.32	.32	.32	.32	1.28
2021	.34	.34	.34	.34	1.36
2022	.36	.36	.36	.36	1.44
2023	.38	.38	.38	.38	

BUSINESS: SJW Group engages in the production, purchase, storage, purification, distribution, and retail sale of water. It provides water service to approximately 231,000 connections with a total population of roughly one million people in the San Jose area and 16,000 connections that reach about 49,000 residents in the region between San Antonio and Austin, Texas. The company merged with Connecticut Water (10/19) which provides service to approx. 138,000 connections with a total population of 450,000 people. Has 757 employees. Officers and directors own less than 1.0% of outstanding shares (3/23 proxy). Chairman & CEO: Eric Thornburg. Incorporated: California. Address: 110 West Taylor Street, San Jose, CA 95110. Telephone: (408) 279-7800. Internet: www.sjwater.com.

SJW Group closed two acquisitions in Texas during the September period. Subsidiary Texas Water Company finalized the purchase of KT Water Development and KT Water Resources for undisclosed amounts. The former provides diverse water services to residential water connections, while the latter is a water wholesaler that will greatly increase Texas Water Company's available water supply over the next several years.

Third-quarter financial results were solid. SJW Group recorded revenues of $205 million, or a 16% annual advance. The gain was underpinned by recent rate increases and higher customer water usages, particularly amidst the end of the state's conservation requirements. On the earnings front, net income jumped 38%, to $1.13 per share, driven largely by strong top-line gains that more than offset a slight uptick in operating expenses, such as water production costs. As a result, we are raising our 2023 revenue and earnings calls from $640 million and $2.75 per share, to $660 million and $2.95 per share, respectively. We think moderate growth is also in the cards for 2024.

Rate case filings ought to continue in the coming years. Most recently, higher customer rates went into effect in Maine and California. Elsewhere, in October, SJW's subsidiary Connecticut Water Company filed an application with state regulators to amend rates. Filings have also been proposed in Texas. In the meantime, management is not likely to take its foot off the gas, in terms of infrastructure investment spending. In fact, the company plans to invest more than $1.5 billion over the next five years, of which a decent portion is expected to be recouped via additional rate hike approvals.

We are not presently recommending this stock. SJW shares are ranked to move in line with the broader market averages over the coming six to 12 months. Moreover, the current dividend yield is roughly on par with that of the *Value Line* median. On balance, total return potential over the 2026-2028 horizon does not stand out at recent levels. All told, we suggest that subscribers looking for exposure to regulated water utilities have a look elsewhere, for now.

Nicholas Patrikis *January 5, 2024*

(A) Diluted earnings. Excludes nonrecurring losses: '08, $1.22; '10, $0.46. GAAP accounting as of 2013. Next earnings report due early February. Quarterly egs. may not add due to rounding.
(B) Dividends historically paid in early March, June, September, and December. ■ Div'd reinvestment plan available.
(C) In millions.
(D) Paid special dividend of $0.17 per share on 11/17.

Company's Financial Strength	B+
Stock's Price Stability	90
Price Growth Persistence	70
Earnings Predictability	50

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York Water Co. (The) NASDAQ:YORW

Last Price	Day Change	Trailing P/E	Relative P/E Last FY	Dividend Yield	3 to 5-Year Target Price Range	Performance	Safety	Financial Strength
$38.14	$0.47 (1.25%)		2.03	2.24%	--			

As of 1:41 PM Nov 29, 2023. Delayed at least 15 minutes.

Industry Rank: Water Utility -

CHARTING

1d | 5d | 3m | 1y | 5y Show data

QUOTES

Last Price	Day's Change	Volume
$38.14	**$0.46 1.23%**	**13,891**

Bid (size)	Ask (size)	
$38.04 (1)	**$38.23 (2)**	**Above** 10-day avg.

As of 1:31 PM Nov 29, 2023. Delayed at least 15 minutes.

Previous close	37.67
Open	37.94
Trailing P/E	
Market cap	539.51M
Shares outstanding	14.32M
Beta	0.8
Next earnings date	3/14/2012

52 Week Low & High

$35.24 10/31/2023 — 12/14/2022 **$47.23**

$38.14

Hist. Prices

INDUSTRY ANALYSIS

Please sign in to view more data

SEC FILINGS

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Filing	Filing Date	Category
4	Nov 22, 2023	Insider Activity
8-K	Nov 21, 2023	Quarterly
4	Nov 21, 2023	Insider Activity
4	Nov 13, 2023	Insider Activity
8-K	Nov 3, 2023	Quarterly
10-Q	Nov 3, 2023	Quarterly
4	Oct 23, 2023	Insider Activity
4	Oct 18, 2023	Insider Activity
4	Oct 18, 2023	Insider Activity
4	Oct 18, 2023	Insider Activity

The EDGAR data presented on this website is sourced from the U.S. Securities and Exchange Commission (SEC), as available on https://www.sec.gov/edgar.shtml.

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SMALL & MID-CAP

Value Line®
Investment Survey - Small & Mid-Cap

An indispensable resource for those who seek the elevated profit potential of smaller company stocks.

The Small and Mid-Cap Survey applies Value Line's data delivery and analysis protocols to a universe of 1,800 companies with market values from less than $1 billion to $5 billion.

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DOW 30

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Company Name	Ticker	Safety™
3M Company	MMM	3
American Express Company	AXP	2
Amgen Inc	AMGN	1
Apple Inc	AAPL	1
Boeing Co	BA	3
Caterpillar Inc	CAT	2
Chevron Corporation	CVX	3
Cisco Systems Inc	CSCO	1
Coca Cola Company	KO	1
Dow Inc.	DOW	3

View all »

INSIDER TRANSACTIONS

Options | Buys & Sells

INSTITUTIONAL OWNERSHIP

Number of Transactions Show top holders

FINANCIAL STATEMENTS

Income Statement & Balance Sheet	2022	2 Year Trend
Gross Profit	46	
Total Operating Expenses	36	
Operating Income	**24**	

	Company Name	AMERICAN STATES WATER COMPANY	AMERICAN WATER WORKS COMPANY, INC.	ARTESIAN RESOURCES CORPORATION	CALIFORNIA WATER SERVICE GROUP	ESSENTIAL UTILITIES, INC.	MIDDLESEX WATER COMPANY	SJW GROUP	THE YORK WATER COMPANY
2018	Sales-Net[y18]	436.816	3440	80.411	698.196	838.091	138.077	397.699	48.437
2019	Sales-Net[y19]	473.869	3610	83.595	714.557	889.692	134.598	420.482	51.578
2020	Sales-Net[y20]	488.243	3777	88.141	794.307	1462.698	141.592	564.526	53.852
2021	Sales-Net[y21]	498.853	3930	90.859	790.909	1878.144	143.141	573.686	55.119
2022	Sales-Net[y22]	491.528	3792	98.897	846.431	2288.032	162.434	620.698	60.061
2023	Sales-Net[y23]	595.699	4234	98.861	794.632	2053.824	166.274	670.363	71.031
2018	Cash & Short Term Investment[y18]	7.141	130	0.293	47.176	3.627	3.705	420.722	0.002
2019	Cash & Short Term Investment[y19]	1.334	60	0.596	42.653	1868.922	2.23	12.944	0.002
2020	Cash & Short Term Investment[y20]	36.737	547	0.028	44.555	4.827	4.491	5.269	0.002
2021	Cash & Short Term Investment[y21]	4.963	116	0.092	78.38	10.567	3.533	10.908	0.001
2022	Cash & Short Term Investment[y22]	5.997	85	1.309	62.1	11.398	3.828	12.344	0.001
2023	Cash & Short Term Investment[y23]	14.073	330	2.505	39.591	4.612	2.39	9.723	0.001
2018	Current Assets-Total[y18]	131.468	781	16.118	188.702	147.172	30.815	502.722	9.011
2019	Current Assets-Total[y19]	122.456	1285	14.207	184.712	2015.127	29.133	122.046	9.384
2020	Current Assets-Total[y20]	157.115	1906	17.619	266.016	380.22	34.123	127.331	16.29
2021	Current Assets-Total[y21]	138.052	1554	18.664	300.458	437.795	34.355	134.085	11.262
2022	Current Assets-Total[y22]	151.294	1250	27.804	295.535	658.159	37.306	158.386	14.234
2023	Current Assets-Total[y23]	205.978	1389	30.617	296.285	491.979	108.536	198.389	15.584
2018	Debt in Current Liabilities[y18]	40.32	1049	17.784	170.011	228.723	55.843	100	1.03
2019	Debt in Current Liabilities[y19]	7.193	814	9.24	198.42	142.941	27.178	139.481	6.5
2020	Debt in Current Liabilities[y20]	2.371	1611	28.695	376.884	214.22	9.255	251.335	0
2021	Debt in Current Liabilities[y21]	33.421	641	28.33	41.994	286.709	19.731	102.102	7.5
2022	Debt in Current Liabilities[y22]	257.791	1456	22.222	74.375	465.866	72.962	163.938	0
2023	Debt in Current Liabilities[y23]	44.209	664	2.253	181.634	248.256	51.09	220.475	0
2018	Current Liabilities-Total[y18]	146.585	2094	37.731	321.166	398.977	94.363	163.985	10.841
2019	Current Liabilities-Total[y19]	115.998	2045	25.599	358.721	323.461	64.981	234.567	15.156
2020	Current Liabilities-Total[y20]	118.572	2881	43.724	588.706	603.873	56.848	350.795	11.993
2021	Current Liabilities-Total[y21]	155.574	2141	47.206	271.937	675.063	56.619	203.271	20.086
2022	Current Liabilities-Total[y22]	396.522	2811	44.07	294.65	1021.869	117.859	268.322	16.981
2023	Current Liabilities-Total[y23]	166.623	2151	22.414	430.339	797.927	103.829	342.974	18.143
2018	noncash wkcap	18.062	-394	-4.122	-9.629	-26.709	-11.41	18.015	-0.802
2019	noncash wkcap	12.317	-6	-2.748	-18.242	-34.315	-10.9	14.016	0.726
2020	noncash wkcap	4.177	89	2.562	9.639	-14.26	-311.908	361.404	16.288
2021	noncash wkcap	10.936	-62	-0.304	-7.865	38.874	-6.066	22.008	-1.325
2022	noncash wkcap	6.566	-190	4.647	13.16	90.758	-11.419	41.658	-2.748
2023	noncash wkcap	69.491	-428	7.951	7.989	-62.304	53.407	66.167	-2.56
2019	Change Non cashWrk Cap	-5.745	388	1.374	-8.613	-7.606	0.51	-3.999	1.528
2020	Change Non cashWrk Cap	-8.14	95	5.31	27.881	20.055	-301.008	347.388	15.562
2021	Change Non cashWrk Cap	6.759	-151	-2.866	-17.504	53.134	305.842	-339.396	-17.613
2022	Change Non cashWrk Cap	-4.37	-128	4.951	21.025	51.884	-5.353	19.65	-1.423
2023	Change Non cashWrk Cap	62.925	-238	3.304	-5.171	-153.062	64.826	24.509	0.188
2019		-1.21%	10.75%	1.64%	-1.21%	-0.85%	0.38%	-0.95%	2.96%
2020	WK cap/sale	-1.67%	2.52%	6.02%	3.51%	1.37%	-212.59%	61.54%	28.90%
2021	WK cap/sale	1.35%	-3.84%	-3.15%	-2.21%	2.83%	213.66%	-59.16%	-31.95%
2022	WK cap/sale	-0.89%	-3.38%	5.01%	2.48%	2.27%	-3.30%	3.17%	-2.37%
2023	WK cap/sale	10.56%	-5.62%	3.34%	-0.65%	-7.45%	38.99%	3.66%	0.26%
	Average	1.63%	0.08%	2.57%	0.38%	-0.37%	7.43%	1.65%	-0.44%
							Median		1.01%

The following sources of information were reviewed but are not included in the workpapers as they are included separately in the PA PUC section 1329 filing related to this FMV and are considered included by this reference:

"The Municipal Authority of The Borough of Greenville, Greenville Borough, Pennsylvania, Engineering Assessment," dated May 28, 2025, and related files prepared by Entech Engineering, Inc.;

Asset Purchase Agreement; and

GMWA's Customer List.

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